ΕΛΛΗΝΙΚΗ ΔΗΜΟΚΡΑΤΙΑ
ΠΕΡΙΦΕΡΕΙΑ ΗΠΕΙΡΟΥ
ΓΕΝΙΚΗ ΔΙΕΥΘΥΝΣΗ ΑΝΑΠΤΥΞΙΑΚΟΥ ΠΡΟΓΡ/ΣΜΟΥ ΠΕΡΙΒΑΛΛΟΝΤΟΣ ΚΑΙ ΥΠΟΔΟΜΩΝ
Δ/ΝΣΗ ΤΕΧΝΙΚΩΝ ΕΡΓΩΝ Π.Ε. ΙΩΑΝΝΙΝΩΝ

Τ Μ Η Μ Α Σ Υ Γ Κ Ο Ι Ν Ω Ν Ι Α Κ Ω Ν Ε Ρ Γ Ω Ν

ΘΕΣΗ: ΕΠΑΡΧΙΑΚΗ ΟΔΟΣ ΕΛΕΟΥΣΑΣ - ΚΡΥΑ

ΜΕΛΕΤΗ: **«ΜΕΛΕΤΗ ΑΠΟΚΑΤΑΣΤΑΣΗΣ ΒΛΑΒΩΝ ΚΑΙ ΒΕΛΤΙΩΣΗΣ ΟΔΙΚΗΣ ΛΕΙΤΟΥΡΓΙΑΣ ΥΦΙΣΤΑΜΕΝΩΝ ΓΕΦΥΡΩΝ ΤΗΣ Π.Ε. ΙΩΑΝΝΙΝΩΝ»**

ΥΠΟΕΡΓΟ: «ΒΕΛΤΙΩΣΗΣ ΟΔΙΚΗΣ ΛΕΙΤΟΥΡΓΙΑΣ ΤΜΗΜΑΤΟΣ ΤΟΥ ΟΔΙΚΟΥ ΔΙΚΤΥΟΥ ΕΛΕΟΥΣΑ – ΚΡΥΑ (Ν. ΙΩΑΝΝΙΝΩΝ)»

ΣΤΑΔΙΟ: ΟΡΙΣΤΙΚΗ ΣΤΑΤΙΚΗ ΜΕΛΕΤΗ

Αριθμός Τεύχους: **Σ3.Τ4**

ΘΕΜΑ ΕΓΓΡΑΦΟΥ:

ΥΠΟΛΟΓΙΣΜΟΙ ΦΟΡΕΑ ΤΑΦΡΟΥ “Τ1”

ΚΛΙΜΑΚΕΣ: -

ΕΚΠΟΝΗΣΗ ΜΕΛΕΤΗΣ :

	ΗΜΕΡ/ΝΙΑ	ΟΝΟΜΑΤΕΠΩΝΥΜΟ	ΥΠΟΓΡΑΦΗ
ΣΥΝΤΑΞΗ	03-2019	ΓΕΩΡΓΙΟΣ Χ. ΔΡΟΣΟΣ / ΙΩΑΝΝΗΣ Χ. ΔΡΟΣΟΣ	
ΕΛΕΓΧΟΣ	03-2019	ΓΕΩΡΓΙΟΣ Χ. ΔΡΟΣΟΣ / ΙΩΑΝΝΗΣ Χ. ΔΡΟΣΟΣ	
ΕΓΚΡΙΣΗ	03-2019	ΓΕΩΡΓΙΟΣ Χ. ΔΡΟΣΟΣ	

ΑΝΑΔΟΧΟΣ :

StaticNet
ΜΕΛΕΤΗΤΙΚΗ

ΔΡΟΣΟΣ ΧΡ. ΓΕΩΡΓΙΟΣ
ΔΙΠΛΩΜ. ΠΟΛΙΤΙΚΟΣ ΜΗΧΑΝΙΚΟΣ, MSc
ΜΕΛΟΣ Τ.Ε.Ε. - ΑΡΙΘ. ΜΗΤΡΩΟΥ 97104
ΑΛΕΞΑΝΔΡΟΥΠΟΛΕΩΣ 7 - ΑΘΗΝΑ ΤΚ 11527
Α.Φ.Μ. 049252515 - ΙΒ' Δ.Ο.Υ. ΑΘΗΝΩΝ
(Τ): 210 74 83 358 - (F): 210 74 83 352

ΑΝΑΘΕΩΡΗΣΕΙΣ

Α / Α	ΗΜΕΡ/ΝΙΑ	ΑΙΤΙΑ Η ΛΟΓΟΣ ΑΝΑΘΕΩΡΗΣΗΣ
Α		
Β		

ΕΓΚΡΙΣΗ ΥΠΗΡΕΣΙΑΣ

ΕΛΕΓΧΘΗΚΕ ΑΠΟ ΓΕΝΙΚΗΣ ΑΠΟΨΗΣ ΚΑΙ ΕΓΚΡΙΝΕΤΑΙ ΜΕ ΤΙΣ ΑΚΟΛΟΥΘΕΣ ΠΑΡΑΤΗΡΗΣΕΙΣ :

1. _____
2. _____
3. _____

ΙΩΑΝΝΙΝΑ, __/__/2019 Ο ΕΠΙΒΛΕΠΩΝ	ΙΩΑΝΝΙΝΑ, __/__/2019 Ο ΠΡΟΪΣΤΑΜΕΝΟΣ

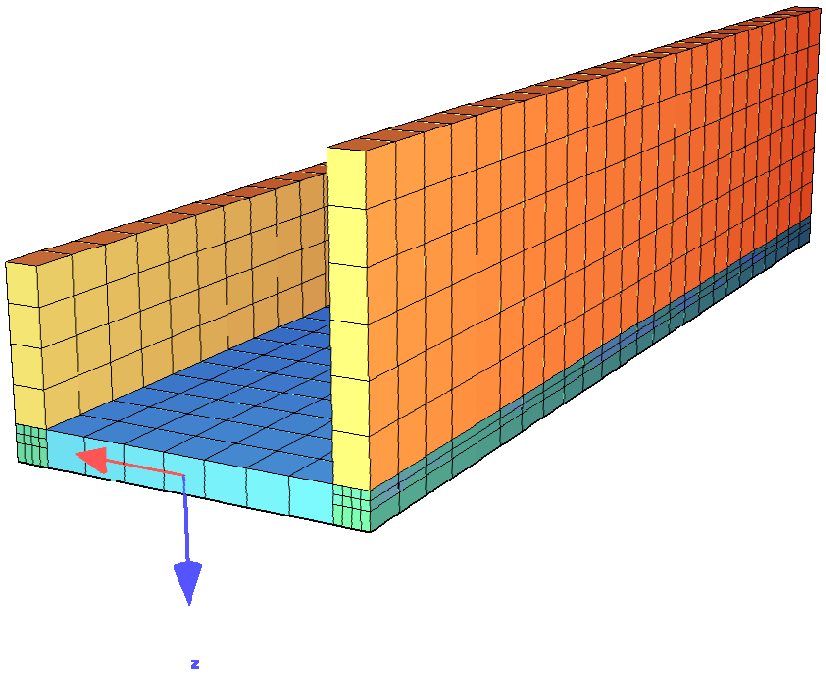
ΣΤΑΤΙΚΟΙ ΥΠΟΛΟΓΙΣΜΟΙ

ΟΡΘΟΓΩΝΙΚΗΣ ΤΑΦΡΟΥ Τ1 3.00mx2.80m (πΧυ)

ΠΕΡΙΕΧΟΜΕΝΑ:

ΚΑΤΑΚΟΡΥΦΟΣ ΔΕΙΚΤΗΣ ΕΔΑΦΟΥΣ Kv=2.500KN/m3

ΚΑΤΑΚΟΡΥΦΟΣ ΔΕΙΚΤΗΣ ΕΔΑΦΟΥΣ Kv=20.000KN/m3



ΤΑΦΡΟΣ T1 (3.00x2.80x1.50)m

1. ΔΕΔΟΜΕΝΑ ΥΛΙΚΩΝ - ΓΕΩΜΕΤΡΙΑ ΠΡΟΣΟΜΟΙΩΜΑΤΟΣ

ΤΑΦΡΟΣ T1 (3.00x2.80x1.50)m
ΔΕΔΟΜΕΝΑ ΥΛΙΚΩΝ ΠΡΟΣΟΜΟΙΩΜΑΤΟΣ

Default design code is EuroNorm EN 1992 Concrete with country code 30 (Hellas/Greece)
Class(Tab.7.1N): N (Reinforced members and prestressed members with unbonded tendons)
Snow load zone : 1

No. 1 C 25/30 (EN 1992)

Youngs-modulus	E	31476 [MPa]	Safetyfactor		1.50 [-]
Poisson-Ratio	mu	0.20 [-]	Strength	fc	21.25 [MPa]
Shear-modulus	G	13115 [MPa]	Nomin. strength	fcn	25.00 [MPa]
Compression modulus		17487 [MPa]	Tens. strength	fctm	2.56 [MPa]
Weight		25.0 [kN/m3]	5 % t.strength	fctk	1.80 [MPa]
Weight buoyancy		25.0 [kN/m3]	95 % t.strength	fctk	3.33 [MPa]
Temp.elongat.coeff.		1.00E-05 [1/°K]	Bond strength	fbd	2.69 [MPa]
			Service strength		33.00 [MPa]
			Fatigue strength		12.75 [MPa]

No. 2 C 25/30 (EN 1992)

Youngs-modulus	E	31476 [MPa]	Safetyfactor		1.50 [-]
Poisson-Ratio	mu	0.20 [-]	Strength	fc	21.25 [MPa]
Shear-modulus	G	13115 [MPa]	Nomin. strength	fcn	25.00 [MPa]
Compression modulus		17487 [MPa]	Tens. strength	fctm	2.56 [MPa]
Weight		25.0 [kN/m3]	5 % t.strength	fctk	1.80 [MPa]
Weight buoyancy		25.0 [kN/m3]	95 % t.strength	fctk	3.33 [MPa]
Temp.elongat.coeff.		1.00E-05 [1/°K]	Bond strength	fbd	2.69 [MPa]
			Service strength		33.00 [MPa]
			Fatigue strength		12.75 [MPa]

No. 10 S 500 (EN 1992)

Youngs-modulus	E	200000 [MPa]	Safetyfactor		1.15 [-]
Poisson-Ratio	mu	0.30 [-]	Yield stress	fy	500.00 [MPa]
Shear-modulus	G	76923 [MPa]	Compr.yield val.	fyc	500.00 [MPa]
Compression modulus		166667 [MPa]	Tens. strength	ft	550.00 [MPa]
Weight		78.5 [kN/m3]	Compr. strength	fc	550.00 [MPa]
Weight buoyancy		78.5 [kN/m3]	Ultim. plast. strain		50.00 [o/oo]
Temp.elongat.coeff.		1.20E-05 [1/°K]	relative bond coeff.		1.00 [-]
max. thickness		32.00 [mm]	EC2 bondcoeff. K1		0.80 [-]
			Hardening modulus		0.00 [MPa]
			Proportional limit		500.00 [MPa]
			Dynamic stress range		152.17 [MPa]

No. 11 C 25/30 (EN 1992)

Youngs-modulus	E	31476 [MPa]	Safetyfactor		1.50 [-]
Poisson-Ratio	mu	0.20 [-]	Strength	fc	21.25 [MPa]
Shear-modulus	G	13115 [MPa]	Nomin. strength	fcn	25.00 [MPa]
Compression modulus		17487 [MPa]	Tens. strength	fctm	2.56 [MPa]
Weight		25.0 [kN/m3]	5 % t.strength	fctk	1.80 [MPa]
Weight buoyancy		25.0 [kN/m3]	95 % t.strength	fctk	3.33 [MPa]
Temp.elongat.coeff.		1.00E-05 [1/°K]	Bond strength	fbd	2.69 [MPa]
			Service strength		33.00 [MPa]
			Fatigue strength		12.75 [MPa]

No. 22 C 25/30 (EN 1992)

Youngs-modulus	E	31476 [MPa]	Safetyfactor		1.50 [-]
Poisson-Ratio	mu	0.20 [-]	Strength	fc	21.25 [MPa]
Shear-modulus	G	13115 [MPa]	Nomin. strength	fcn	25.00 [MPa]
Compression modulus		17487 [MPa]	Tens. strength	fctm	2.56 [MPa]
Weight		0.0 [kN/m3]	5 % t.strength	fctk	1.80 [MPa]
Weight buoyancy		0.0 [kN/m3]	95 % t.strength	fctk	3.33 [MPa]
Temp.elongat.coeff.		1.00E-05 [1/°K]	Bond strength	fbd	2.69 [MPa]
			Service strength		33.00 [MPa]
			Fatigue strength		12.75 [MPa]

Elastic bedding

No.	Cs[kN/m3]	Ct[kN/m3]	ft[MPa]	fy[MPa]	tan[-]	c[MPa]	dil[-]	w[kN/m3]
1	2.5000E+03	1.0000E+03	0.00	0.00	0.00	0.00	0.00	0.0
11	2.5000E+03	1.0000E+03	0.00	0.00	0.00	0.00	0.00	0.0

Cs = Elastic bedding
Ct = Elastic bedding
ft = Tens. strength ft
fy = Yield stress fy
tan = Friction coefficient
c = Cohesion
dil = Dilatancy coefficient
w = Mass density

ΤΑΦΡΟΣ Τ1 (3.00x2.80x1.50)m
ΟΡΙΣΜΟΣ ΓΕΩΜΕΤΡΙΑΣ ΦΟΡΕΑ

Default design code is EuroNorm EN 1992 Concrete with country code 30 (Hellas/Greece)
Class(Tab.7.1N): N (Reinforced members and prestressed members with unbonded tendons)
Snow load zone : 1

No. 1 C 25/30 (EN 1992)

Youngs-modulus	E	31476 [MPa]	Safetyfactor		1.50	[-]
Poisson-Ratio	mu	0.20 [-]	Strength	fc	21.25	[MPa]
Shear-modulus	G	13115 [MPa]	Nomin. strength	fcn	25.00	[MPa]
Compression modulus		17487 [MPa]	Tens. strength	fctm	2.56	[MPa]
Weight		25.0 [kN/m3]	5 % t.strength	fctk	1.80	[MPa]
Weight buoyancy		25.0 [kN/m3]	95 % t.strength	fctk	3.33	[MPa]
Temp.elongat.coeff.		1.00E-05 [1/°K]	Bond strength	fbd	2.69	[MPa]
			Service strength		33.00	[MPa]
			Fatigue strength		12.75	[MPa]

No. 2 C 25/30 (EN 1992)

Youngs-modulus	E	31476 [MPa]	Safetyfactor		1.50	[-]
Poisson-Ratio	mu	0.20 [-]	Strength	fc	21.25	[MPa]
Shear-modulus	G	13115 [MPa]	Nomin. strength	fcn	25.00	[MPa]
Compression modulus		17487 [MPa]	Tens. strength	fctm	2.56	[MPa]
Weight		25.0 [kN/m3]	5 % t.strength	fctk	1.80	[MPa]
Weight buoyancy		25.0 [kN/m3]	95 % t.strength	fctk	3.33	[MPa]
Temp.elongat.coeff.		1.00E-05 [1/°K]	Bond strength	fbd	2.69	[MPa]
			Service strength		33.00	[MPa]
			Fatigue strength		12.75	[MPa]

No. 10 S 500 (EN 1992)

Youngs-modulus	E	200000 [MPa]	Safetyfactor		1.15	[-]
Poisson-Ratio	mu	0.30 [-]	Yield stress	fy	500.00	[MPa]
Shear-modulus	G	76923 [MPa]	Compr.yield val.	fyc	500.00	[MPa]
Compression modulus		166667 [MPa]	Tens. strength	ft	550.00	[MPa]
Weight		78.5 [kN/m3]	Compr. strength	fc	550.00	[MPa]
Weight buoyancy		78.5 [kN/m3]	Ultim. plast. strain		50.00	[o/oo]
Temp.elongat.coeff.		1.20E-05 [1/°K]	relative bond coeff.		1.00	[-]
max. thickness		32.00 [mm]	EC2 bondcoeff. K1		0.80	[-]
			Hardening modulus		0.00	[MPa]
			Proportional limit		500.00	[MPa]
			Dynamic stress range		152.17	[MPa]

No. 11 C 25/30 (EN 1992)

Youngs-modulus	E	31476 [MPa]	Safetyfactor		1.50	[-]
Poisson-Ratio	mu	0.20 [-]	Strength	fc	21.25	[MPa]
Shear-modulus	G	13115 [MPa]	Nomin. strength	fcn	25.00	[MPa]
Compression modulus		17487 [MPa]	Tens. strength	fctm	2.56	[MPa]
Weight		25.0 [kN/m3]	5 % t.strength	fctk	1.80	[MPa]
Weight buoyancy		25.0 [kN/m3]	95 % t.strength	fctk	3.33	[MPa]
Temp.elongat.coeff.		1.00E-05 [1/°K]	Bond strength	fbd	2.69	[MPa]
			Service strength		33.00	[MPa]
			Fatigue strength		12.75	[MPa]

No. 22 C 25/30 (EN 1992)

Youngs-modulus	E	31476 [MPa]	Safetyfactor		1.50	[-]
Poisson-Ratio	mu	0.20 [-]	Strength	fc	21.25	[MPa]
Shear-modulus	G	13115 [MPa]	Nomin. strength	fcn	25.00	[MPa]
Compression modulus		17487 [MPa]	Tens. strength	fctm	2.56	[MPa]
Weight		0.0 [kN/m3]	5 % t.strength	fctk	1.80	[MPa]
Weight buoyancy		0.0 [kN/m3]	95 % t.strength	fctk	3.33	[MPa]
Temp.elongat.coeff.		1.00E-05 [1/°K]	Bond strength	fbd	2.69	[MPa]
			Service strength		33.00	[MPa]
			Fatigue strength		12.75	[MPa]

Elastic bedding

No.	Cs[kN/m3]	Ct[kN/m3]	ft[MPa]	fy[MPa]	tan[-]	c[MPa]	dil[-]	w[kN/m3]
1	2.5000E+03	1.0000E+03	0.00	0.00	0.00	0.00	0.00	0.0
11	2.5000E+03	1.0000E+03	0.00	0.00	0.00	0.00	0.00	0.0

Cs = Elastic bedding
Ct = Elastic bedding
ft = Tens. strength ft
fy = Yield stress fy
tan = Friction coefficient
c = Cohesion
dil = Dilatancy coefficient
w = Mass density

ΤΑΦΡΟΣ Τ1 (3.00x2.80x1.50)m
ΟΡΙΣΜΟΣ ΓΕΩΜΕΤΡΙΑΣ ΦΟΡΕΑ

Groups

Grp	number type	min-no	max-no	Title
1	175 QUAD	1001	1175	
2	150 QUAD	2001	2150	
3	100 QUAD	3001	3100	
6	260 SPRI	6001	6260	
7	183 SPRI	7001	7183	
11	200 QUAD	11001	11200	
22	50 QUAD	22001	22050	
33	50 QUAD	33001	33050	

Nodal Coordinates and Supports

Number	X[m]	Y[m]	Z[m]	Support Conditions
1	-1.850	0.000	0.000	
2	-1.850	12.000	0.000	
11	-1.675	0.000	0.000	
12	-1.675	12.000	0.000	
21	-1.500	0.000	0.000	
22	-1.500	12.000	0.000	
31	1.500	0.000	0.000	
32	1.500	12.000	0.000	
41	1.675	0.000	0.000	
42	1.675	12.000	0.000	
51	1.850	0.000	0.000	
52	1.850	12.000	0.000	
101	-1.850	0.000	-0.175	
102	-1.850	12.000	-0.175	
111	-1.675	0.000	-0.175	
112	-1.675	12.000	-0.175	
121	-1.500	0.000	-0.175	
122	-1.500	12.000	-0.175	
131	1.500	0.000	-0.175	
132	1.500	12.000	-0.175	
141	1.675	0.000	-0.175	
142	1.675	12.000	-0.175	
151	1.850	0.000	-0.175	
152	1.850	12.000	-0.175	
201	-1.850	0.000	-2.975	
202	-1.850	12.000	-2.975	
211	-1.675	0.000	-2.975	
212	-1.675	12.000	-2.975	
221	-1.500	0.000	-2.975	
222	-1.500	12.000	-2.975	
231	1.500	0.000	-1.675	
232	1.500	12.000	-1.675	
241	1.675	0.000	-1.675	
242	1.675	12.000	-1.675	
251	1.850	0.000	-1.675	
252	1.850	12.000	-1.675	
1001	-1.071	0.000	0.000	
1002	-0.643	0.000	0.000	
1003	-0.214	0.000	0.000	
1004	0.214	0.000	0.000	
1005	0.643	0.000	0.000	
1006	1.071	0.000	0.000	
1007	-1.500	0.480	0.000	
1008	-1.500	0.960	0.000	
1009	-1.500	1.440	0.000	
1010	-1.500	1.920	0.000	
1011	-1.500	2.400	0.000	
1012	-1.500	2.880	0.000	
1013	-1.500	3.360	0.000	
1014	-1.500	3.840	0.000	
1015	-1.500	4.320	0.000	
1016	-1.500	4.800	0.000	
1017	-1.500	5.280	0.000	
1018	-1.500	5.760	0.000	
1019	-1.500	6.240	0.000	
1020	-1.500	6.720	0.000	
1021	-1.500	7.200	0.000	
1022	-1.500	7.680	0.000	
1023	-1.500	8.160	0.000	
1024	-1.500	8.640	0.000	
1025	-1.500	9.120	0.000	
1026	-1.500	9.600	0.000	
1027	-1.500	10.080	0.000	
1028	-1.500	10.560	0.000	
1029	-1.500	11.040	0.000	
1030	-1.500	11.520	0.000	
1031	1.500	0.480	0.000	
1032	1.500	0.960	0.000	

ΤΑΦΡΟΣ Τ1 (3.00x2.80x1.50)m
ΟΡΙΣΜΟΣ ΓΕΩΜΕΤΡΙΑΣ ΦΟΡΕΑ

Nodal Coordinates and Supports

Number	X[m]	Y[m]	Z[m]	Support Conditions
1033	1.500	1.440	0.000	
1034	1.500	1.920	0.000	
1035	1.500	2.400	0.000	
1036	1.500	2.880	0.000	
1037	1.500	3.360	0.000	
1038	1.500	3.840	0.000	
1039	1.500	4.320	0.000	
1040	1.500	4.800	0.000	
1041	1.500	5.280	0.000	
1042	1.500	5.760	0.000	
1043	1.500	6.240	0.000	
1044	1.500	6.720	0.000	
1045	1.500	7.200	0.000	
1046	1.500	7.680	0.000	
1047	1.500	8.160	0.000	
1048	1.500	8.640	0.000	
1049	1.500	9.120	0.000	
1050	1.500	9.600	0.000	
1051	1.500	10.080	0.000	
1052	1.500	10.560	0.000	
1053	1.500	11.040	0.000	
1054	1.500	11.520	0.000	
1055	-1.071	12.000	0.000	
1056	-0.643	12.000	0.000	
1057	-0.214	12.000	0.000	
1058	0.214	12.000	0.000	
1059	0.643	12.000	0.000	
1060	1.071	12.000	0.000	
1061	-1.071	0.480	0.000	
1062	-1.071	0.960	0.000	
1063	-1.071	1.440	0.000	
1064	-1.071	1.920	0.000	
1065	-1.071	2.400	0.000	
1066	-1.071	2.880	0.000	
1067	-1.071	3.360	0.000	
1068	-1.071	3.840	0.000	
1069	-1.071	4.320	0.000	
1070	-1.071	4.800	0.000	
1071	-1.071	5.280	0.000	
1072	-1.071	5.760	0.000	
1073	-1.071	6.240	0.000	
1074	-1.071	6.720	0.000	
1075	-1.071	7.200	0.000	
1076	-1.071	7.680	0.000	
1077	-1.071	8.160	0.000	
1078	-1.071	8.640	0.000	
1079	-1.071	9.120	0.000	
1080	-1.071	9.600	0.000	
1081	-1.071	10.080	0.000	
1082	-1.071	10.560	0.000	
1083	-1.071	11.040	0.000	
1084	-1.071	11.520	0.000	
1085	-0.643	0.480	0.000	
1086	-0.643	0.960	0.000	
1087	-0.643	1.440	0.000	
1088	-0.643	1.920	0.000	
1089	-0.643	2.400	0.000	
1090	-0.643	2.880	0.000	
1091	-0.643	3.360	0.000	
1092	-0.643	3.840	0.000	
1093	-0.643	4.320	0.000	
1094	-0.643	4.800	0.000	
1095	-0.643	5.280	0.000	
1096	-0.643	5.760	0.000	
1097	-0.643	6.240	0.000	
1098	-0.643	6.720	0.000	
1099	-0.643	7.200	0.000	
1100	-0.643	7.680	0.000	
1101	-0.643	8.160	0.000	
1102	-0.643	8.640	0.000	
1103	-0.643	9.120	0.000	
1104	-0.643	9.600	0.000	
1105	-0.643	10.080	0.000	
1106	-0.643	10.560	0.000	
1107	-0.643	11.040	0.000	
1108	-0.643	11.520	0.000	
1109	-0.214	0.480	0.000	
1110	-0.214	0.960	0.000	
1111	-0.214	1.440	0.000	

ΤΑΦΡΟΣ Τ1 (3.00x2.80x1.50)m
ΟΡΙΣΜΟΣ ΓΕΩΜΕΤΡΙΑΣ ΦΟΡΕΑ

Nodal Coordinates and Supports

Number	X[m]	Y[m]	Z[m]	Support Conditions
1112	-0.214	1.920	0.000	
1113	-0.214	2.400	0.000	
1114	-0.214	2.880	0.000	
1115	-0.214	3.360	0.000	
1116	-0.214	3.840	0.000	
1117	-0.214	4.320	0.000	
1118	-0.214	4.800	0.000	
1119	-0.214	5.280	0.000	
1120	-0.214	5.760	0.000	
1121	-0.214	6.240	0.000	
1122	-0.214	6.720	0.000	
1123	-0.214	7.200	0.000	
1124	-0.214	7.680	0.000	
1125	-0.214	8.160	0.000	
1126	-0.214	8.640	0.000	
1127	-0.214	9.120	0.000	
1128	-0.214	9.600	0.000	
1129	-0.214	10.080	0.000	
1130	-0.214	10.560	0.000	
1131	-0.214	11.040	0.000	
1132	-0.214	11.520	0.000	
1133	0.214	0.480	0.000	
1134	0.214	0.960	0.000	
1135	0.214	1.440	0.000	
1136	0.214	1.920	0.000	
1137	0.214	2.400	0.000	
1138	0.214	2.880	0.000	
1139	0.214	3.360	0.000	
1140	0.214	3.840	0.000	
1141	0.214	4.320	0.000	
1142	0.214	4.800	0.000	
1143	0.214	5.280	0.000	
1144	0.214	5.760	0.000	
1145	0.214	6.240	0.000	
1146	0.214	6.720	0.000	
1147	0.214	7.200	0.000	
1148	0.214	7.680	0.000	
1149	0.214	8.160	0.000	
1150	0.214	8.640	0.000	
1151	0.214	9.120	0.000	
1152	0.214	9.600	0.000	
1153	0.214	10.080	0.000	
1154	0.214	10.560	0.000	
1155	0.214	11.040	0.000	
1156	0.214	11.520	0.000	
1157	0.643	0.480	0.000	
1158	0.643	0.960	0.000	
1159	0.643	1.440	0.000	
1160	0.643	1.920	0.000	
1161	0.643	2.400	0.000	
1162	0.643	2.880	0.000	
1163	0.643	3.360	0.000	
1164	0.643	3.840	0.000	
1165	0.643	4.320	0.000	
1166	0.643	4.800	0.000	
1167	0.643	5.280	0.000	
1168	0.643	5.760	0.000	
1169	0.643	6.240	0.000	
1170	0.643	6.720	0.000	
1171	0.643	7.200	0.000	
1172	0.643	7.680	0.000	
1173	0.643	8.160	0.000	
1174	0.643	8.640	0.000	
1175	0.643	9.120	0.000	
1176	0.643	9.600	0.000	
1177	0.643	10.080	0.000	
1178	0.643	10.560	0.000	
1179	0.643	11.040	0.000	
1180	0.643	11.520	0.000	
1181	1.071	0.480	0.000	
1182	1.071	0.960	0.000	
1183	1.071	1.440	0.000	
1184	1.071	1.920	0.000	
1185	1.071	2.400	0.000	
1186	1.071	2.880	0.000	
1187	1.071	3.360	0.000	
1188	1.071	3.840	0.000	
1189	1.071	4.320	0.000	
1190	1.071	4.800	0.000	

ΤΑΦΡΟΣ T1 (3.00x2.80x1.50)m
ΟΡΙΣΜΟΣ ΓΕΩΜΕΤΡΙΑΣ ΦΟΡΕΑ

Nodal Coordinates and Supports

Number	X[m]	Y[m]	Z[m]	Support Conditions
1191	1.071	5.280	0.000	
1192	1.071	5.760	0.000	
1193	1.071	6.240	0.000	
1194	1.071	6.720	0.000	
1195	1.071	7.200	0.000	
1196	1.071	7.680	0.000	
1197	1.071	8.160	0.000	
1198	1.071	8.640	0.000	
1199	1.071	9.120	0.000	
1200	1.071	9.600	0.000	
1201	1.071	10.080	0.000	
1202	1.071	10.560	0.000	
1203	1.071	11.040	0.000	
1204	1.071	11.520	0.000	
1205	-1.763	0.000	0.000	
1206	-1.587	0.000	0.000	
1207	-1.763	12.000	0.000	
1208	-1.587	12.000	0.000	
1209	-1.850	0.480	0.000	
1210	-1.850	0.960	0.000	
1211	-1.850	1.440	0.000	
1212	-1.850	1.920	0.000	
1213	-1.850	2.400	0.000	
1214	-1.850	2.880	0.000	
1215	-1.850	3.360	0.000	
1216	-1.850	3.840	0.000	
1217	-1.850	4.320	0.000	
1218	-1.850	4.800	0.000	
1219	-1.850	5.280	0.000	
1220	-1.850	5.760	0.000	
1221	-1.850	6.240	0.000	
1222	-1.850	6.720	0.000	
1223	-1.850	7.200	0.000	
1224	-1.850	7.680	0.000	
1225	-1.850	8.160	0.000	
1226	-1.850	8.640	0.000	
1227	-1.850	9.120	0.000	
1228	-1.850	9.600	0.000	
1229	-1.850	10.080	0.000	
1230	-1.850	10.560	0.000	
1231	-1.850	11.040	0.000	
1232	-1.850	11.520	0.000	
1233	-1.675	0.480	0.000	
1234	-1.675	0.960	0.000	
1235	-1.675	1.440	0.000	
1236	-1.675	1.920	0.000	
1237	-1.675	2.400	0.000	
1238	-1.675	2.880	0.000	
1239	-1.675	3.360	0.000	
1240	-1.675	3.840	0.000	
1241	-1.675	4.320	0.000	
1242	-1.675	4.800	0.000	
1243	-1.675	5.280	0.000	
1244	-1.675	5.760	0.000	
1245	-1.675	6.240	0.000	
1246	-1.675	6.720	0.000	
1247	-1.675	7.200	0.000	
1248	-1.675	7.680	0.000	
1249	-1.675	8.160	0.000	
1250	-1.675	8.640	0.000	
1251	-1.675	9.120	0.000	
1252	-1.675	9.600	0.000	
1253	-1.675	10.080	0.000	
1254	-1.675	10.560	0.000	
1255	-1.675	11.040	0.000	
1256	-1.675	11.520	0.000	
1257	1.587	0.000	0.000	
1258	1.763	0.000	0.000	
1259	1.763	12.000	0.000	
1260	1.675	0.480	0.000	
1261	1.675	0.960	0.000	
1262	1.675	1.440	0.000	
1263	1.675	1.920	0.000	
1264	1.675	2.400	0.000	
1265	1.675	2.880	0.000	
1266	1.675	3.360	0.000	
1267	1.675	3.840	0.000	
1268	1.675	4.320	0.000	
1269	1.675	4.800	0.000	

ΤΑΦΡΟΣ T1 (3.00x2.80x1.50)m
ΟΡΙΣΜΟΣ ΓΕΩΜΕΤΡΙΑΣ ΦΟΡΕΑ

Nodal Coordinates and Supports

Number	X[m]	Y[m]	Z[m]	Support Conditions
1270	1.675	5.280	0.000	
1271	1.675	5.760	0.000	
1272	1.675	6.240	0.000	
1273	1.675	6.720	0.000	
1274	1.675	7.200	0.000	
1275	1.675	7.680	0.000	
1276	1.675	8.160	0.000	
1277	1.675	8.640	0.000	
1278	1.675	9.120	0.000	
1279	1.675	9.600	0.000	
1280	1.675	10.080	0.000	
1281	1.675	10.560	0.000	
1282	1.675	11.040	0.000	
1283	1.675	11.520	0.000	
1284	1.850	0.480	0.000	
1285	1.850	0.960	0.000	
1286	1.850	1.440	0.000	
1287	1.850	1.920	0.000	
1288	1.850	2.400	0.000	
1289	1.850	2.880	0.000	
1290	1.850	3.360	0.000	
1291	1.850	3.840	0.000	
1292	1.850	4.320	0.000	
1293	1.850	4.800	0.000	
1294	1.850	5.280	0.000	
1295	1.850	5.760	0.000	
1296	1.850	6.240	0.000	
1297	1.850	6.720	0.000	
1298	1.850	7.200	0.000	
1299	1.850	7.680	0.000	
1300	1.850	8.160	0.000	
1301	1.850	8.640	0.000	
1302	1.850	9.120	0.000	
1303	1.850	9.600	0.000	
1304	1.850	10.080	0.000	
1305	1.850	10.560	0.000	
1306	1.850	11.040	0.000	
1307	1.850	11.520	0.000	
1308	-1.763	0.480	0.000	
1309	-1.763	0.960	0.000	
1310	-1.763	1.440	0.000	
1311	-1.763	1.920	0.000	
1312	-1.763	2.400	0.000	
1313	-1.763	2.880	0.000	
1314	-1.763	3.360	0.000	
1315	-1.763	3.840	0.000	
1316	-1.763	4.320	0.000	
1317	-1.763	4.800	0.000	
1318	-1.763	5.280	0.000	
1319	-1.763	5.760	0.000	
1320	-1.763	6.240	0.000	
1321	-1.763	6.720	0.000	
1322	-1.763	7.200	0.000	
1323	-1.763	7.680	0.000	
1324	-1.763	8.160	0.000	
1325	-1.763	8.640	0.000	
1326	-1.763	9.120	0.000	
1327	-1.763	9.600	0.000	
1328	-1.763	10.080	0.000	
1329	-1.763	10.560	0.000	
1330	-1.763	11.040	0.000	
1331	-1.763	11.520	0.000	
1332	-1.587	0.480	0.000	
1333	-1.587	0.960	0.000	
1334	-1.587	1.440	0.000	
1335	-1.587	1.920	0.000	
1336	-1.587	2.400	0.000	
1337	-1.587	2.880	0.000	
1338	-1.587	3.360	0.000	
1339	-1.587	3.840	0.000	
1340	-1.587	4.320	0.000	
1341	-1.587	4.800	0.000	
1342	-1.587	5.280	0.000	
1343	-1.587	5.760	0.000	
1344	-1.587	6.240	0.000	
1345	-1.587	6.720	0.000	
1346	-1.587	7.200	0.000	
1347	-1.587	7.680	0.000	
1348	-1.587	8.160	0.000	

ΤΑΦΡΟΣ T1 (3.00x2.80x1.50)m
ΟΡΙΣΜΟΣ ΓΕΩΜΕΤΡΙΑΣ ΦΟΡΕΑ

Nodal Coordinates and Supports

Number	X[m]	Y[m]	Z[m]	Support Conditions
1349	-1.587	8.640	0.000	
1350	-1.587	9.120	0.000	
1351	-1.587	9.600	0.000	
1352	-1.587	10.080	0.000	
1353	-1.587	10.560	0.000	
1354	-1.587	11.040	0.000	
1355	-1.587	11.520	0.000	
1356	1.587	12.000	0.000	
1357	1.587	0.480	0.000	
1358	1.587	0.960	0.000	
1359	1.587	1.440	0.000	
1360	1.587	1.920	0.000	
1361	1.587	2.400	0.000	
1362	1.587	2.880	0.000	
1363	1.587	3.360	0.000	
1364	1.587	3.840	0.000	
1365	1.587	4.320	0.000	
1366	1.587	4.800	0.000	
1367	1.587	5.280	0.000	
1368	1.587	5.760	0.000	
1369	1.587	6.240	0.000	
1370	1.587	6.720	0.000	
1371	1.587	7.200	0.000	
1372	1.587	7.680	0.000	
1373	1.587	8.160	0.000	
1374	1.587	8.640	0.000	
1375	1.587	9.120	0.000	
1376	1.587	9.600	0.000	
1377	1.587	10.080	0.000	
1378	1.587	10.560	0.000	
1379	1.587	11.040	0.000	
1380	1.587	11.520	0.000	
1381	1.763	0.480	0.000	
1382	1.763	0.960	0.000	
1383	1.763	1.440	0.000	
1384	1.763	1.920	0.000	
1385	1.763	2.400	0.000	
1386	1.763	2.880	0.000	
1387	1.763	3.360	0.000	
1388	1.763	3.840	0.000	
1389	1.763	4.320	0.000	
1390	1.763	4.800	0.000	
1391	1.763	5.280	0.000	
1392	1.763	5.760	0.000	
1393	1.763	6.240	0.000	
1394	1.763	6.720	0.000	
1395	1.763	7.200	0.000	
1396	1.763	7.680	0.000	
1397	1.763	8.160	0.000	
1398	1.763	8.640	0.000	
1399	1.763	9.120	0.000	
1400	1.763	9.600	0.000	
1401	1.763	10.080	0.000	
1402	1.763	10.560	0.000	
1403	1.763	11.040	0.000	
1404	1.763	11.520	0.000	
1405	-1.675	0.000	-0.642	
1406	-1.675	0.000	-1.108	
1407	-1.675	0.000	-1.575	
1408	-1.675	0.000	-2.042	
1409	-1.675	0.000	-2.508	
1410	-1.675	12.000	-0.642	
1411	-1.675	12.000	-1.108	
1412	-1.675	12.000	-1.575	
1413	-1.675	12.000	-2.042	
1414	-1.675	12.000	-2.508	
1415	-1.675	0.480	-0.175	
1416	-1.675	0.960	-0.175	
1417	-1.675	1.440	-0.175	
1418	-1.675	1.920	-0.175	
1419	-1.675	2.400	-0.175	
1420	-1.675	2.880	-0.175	
1421	-1.675	3.360	-0.175	
1422	-1.675	3.840	-0.175	
1423	-1.675	4.320	-0.175	
1424	-1.675	4.800	-0.175	
1425	-1.675	5.280	-0.175	
1426	-1.675	5.760	-0.175	
1427	-1.675	6.240	-0.175	

ΤΑΦΡΟΣ T1 (3.00x2.80x1.50)m
ΟΡΙΣΜΟΣ ΓΕΩΜΕΤΡΙΑΣ ΦΟΡΕΑ

Nodal Coordinates and Supports

Number	X[m]	Y[m]	Z[m]	Support Conditions
1428	-1.675	6.720	-0.175	
1429	-1.675	7.200	-0.175	
1430	-1.675	7.680	-0.175	
1431	-1.675	8.160	-0.175	
1432	-1.675	8.640	-0.175	
1433	-1.675	9.120	-0.175	
1434	-1.675	9.600	-0.175	
1435	-1.675	10.080	-0.175	
1436	-1.675	10.560	-0.175	
1437	-1.675	11.040	-0.175	
1438	-1.675	11.520	-0.175	
1439	-1.675	0.480	-2.975	
1440	-1.675	0.960	-2.975	
1441	-1.675	1.440	-2.975	
1442	-1.675	1.920	-2.975	
1443	-1.675	2.400	-2.975	
1444	-1.675	2.880	-2.975	
1445	-1.675	3.360	-2.975	
1446	-1.675	3.840	-2.975	
1447	-1.675	4.320	-2.975	
1448	-1.675	4.800	-2.975	
1449	-1.675	5.280	-2.975	
1450	-1.675	5.760	-2.975	
1451	-1.675	6.240	-2.975	
1452	-1.675	6.720	-2.975	
1453	-1.675	7.200	-2.975	
1454	-1.675	7.680	-2.975	
1455	-1.675	8.160	-2.975	
1456	-1.675	8.640	-2.975	
1457	-1.675	9.120	-2.975	
1458	-1.675	9.600	-2.975	
1459	-1.675	10.080	-2.975	
1460	-1.675	10.560	-2.975	
1461	-1.675	11.040	-2.975	
1462	-1.675	11.520	-2.975	
1463	-1.675	0.480	-0.642	
1464	-1.675	0.480	-1.108	
1465	-1.675	0.480	-1.575	
1466	-1.675	0.480	-2.042	
1467	-1.675	0.480	-2.508	
1468	-1.675	0.960	-0.642	
1469	-1.675	0.960	-1.108	
1470	-1.675	0.960	-1.575	
1471	-1.675	0.960	-2.042	
1472	-1.675	0.960	-2.508	
1473	-1.675	1.440	-0.642	
1474	-1.675	1.440	-1.108	
1475	-1.675	1.440	-1.575	
1476	-1.675	1.440	-2.042	
1477	-1.675	1.440	-2.508	
1478	-1.675	1.920	-0.642	
1479	-1.675	1.920	-1.108	
1480	-1.675	1.920	-1.575	
1481	-1.675	1.920	-2.042	
1482	-1.675	1.920	-2.508	
1483	-1.675	2.400	-0.642	
1484	-1.675	2.400	-1.108	
1485	-1.675	2.400	-1.575	
1486	-1.675	2.400	-2.042	
1487	-1.675	2.400	-2.508	
1488	-1.675	2.880	-0.642	
1489	-1.675	2.880	-1.108	
1490	-1.675	2.880	-1.575	
1491	-1.675	2.880	-2.042	
1492	-1.675	2.880	-2.508	
1493	-1.675	3.360	-0.642	
1494	-1.675	3.360	-1.108	
1495	-1.675	3.360	-1.575	
1496	-1.675	3.360	-2.042	
1497	-1.675	3.360	-2.508	
1498	-1.675	3.840	-0.642	
1499	-1.675	3.840	-1.108	
1500	-1.675	3.840	-1.575	
1501	-1.675	3.840	-2.042	
1502	-1.675	3.840	-2.508	
1503	-1.675	4.320	-0.642	
1504	-1.675	4.320	-1.108	
1505	-1.675	4.320	-1.575	
1506	-1.675	4.320	-2.042	

ΤΑΦΡΟΣ T1 (3.00x2.80x1.50)m
ΟΡΙΣΜΟΣ ΓΕΩΜΕΤΡΙΑΣ ΦΟΡΕΑ

Nodal Coordinates and Supports

Number	X[m]	Y[m]	Z[m]	Support Conditions
1507	-1.675	4.320	-2.508	
1508	-1.675	4.800	-0.642	
1509	-1.675	4.800	-1.108	
1510	-1.675	4.800	-1.575	
1511	-1.675	4.800	-2.042	
1512	-1.675	4.800	-2.508	
1513	-1.675	5.280	-0.642	
1514	-1.675	5.280	-1.108	
1515	-1.675	5.280	-1.575	
1516	-1.675	5.280	-2.042	
1517	-1.675	5.280	-2.508	
1518	-1.675	5.760	-0.642	
1519	-1.675	5.760	-1.108	
1520	-1.675	5.760	-1.575	
1521	-1.675	5.760	-2.042	
1522	-1.675	5.760	-2.508	
1523	-1.675	6.240	-0.642	
1524	-1.675	6.240	-1.108	
1525	-1.675	6.240	-1.575	
1526	-1.675	6.240	-2.042	
1527	-1.675	6.240	-2.508	
1528	-1.675	6.720	-0.642	
1529	-1.675	6.720	-1.108	
1530	-1.675	6.720	-1.575	
1531	-1.675	6.720	-2.042	
1532	-1.675	6.720	-2.508	
1533	-1.675	7.200	-0.642	
1534	-1.675	7.200	-1.108	
1535	-1.675	7.200	-1.575	
1536	-1.675	7.200	-2.042	
1537	-1.675	7.200	-2.508	
1538	-1.675	7.680	-0.642	
1539	-1.675	7.680	-1.108	
1540	-1.675	7.680	-1.575	
1541	-1.675	7.680	-2.042	
1542	-1.675	7.680	-2.508	
1543	-1.675	8.160	-0.642	
1544	-1.675	8.160	-1.108	
1545	-1.675	8.160	-1.575	
1546	-1.675	8.160	-2.042	
1547	-1.675	8.160	-2.508	
1548	-1.675	8.640	-0.642	
1549	-1.675	8.640	-1.108	
1550	-1.675	8.640	-1.575	
1551	-1.675	8.640	-2.042	
1552	-1.675	8.640	-2.508	
1553	-1.675	9.120	-0.642	
1554	-1.675	9.120	-1.108	
1555	-1.675	9.120	-1.575	
1556	-1.675	9.120	-2.042	
1557	-1.675	9.120	-2.508	
1558	-1.675	9.600	-0.642	
1559	-1.675	9.600	-1.108	
1560	-1.675	9.600	-1.575	
1561	-1.675	9.600	-2.042	
1562	-1.675	9.600	-2.508	
1563	-1.675	10.080	-0.642	
1564	-1.675	10.080	-1.108	
1565	-1.675	10.080	-1.575	
1566	-1.675	10.080	-2.042	
1567	-1.675	10.080	-2.508	
1568	-1.675	10.560	-0.642	
1569	-1.675	10.560	-1.108	
1570	-1.675	10.560	-1.575	
1571	-1.675	10.560	-2.042	
1572	-1.675	10.560	-2.508	
1573	-1.675	11.040	-0.642	
1574	-1.675	11.040	-1.108	
1575	-1.675	11.040	-1.575	
1576	-1.675	11.040	-2.042	
1577	-1.675	11.040	-2.508	
1578	-1.675	11.520	-0.642	
1579	-1.675	11.520	-1.108	
1580	-1.675	11.520	-1.575	
1581	-1.675	11.520	-2.042	
1582	-1.675	11.520	-2.508	
1583	-1.675	0.000	-0.087	
1584	-1.675	12.000	-0.087	
1585	-1.675	0.480	-0.087	

ΤΑΦΡΟΣ T1 (3.00x2.80x1.50)m
ΟΡΙΣΜΟΣ ΓΕΩΜΕΤΡΙΑΣ ΦΟΡΕΑ

Nodal Coordinates and Supports

Number	X[m]	Y[m]	Z[m]	Support Conditions
1586	-1.675	0.960	-0.087	
1587	-1.675	1.440	-0.087	
1588	-1.675	1.920	-0.088	
1589	-1.675	2.400	-0.087	
1590	-1.675	2.880	-0.087	
1591	-1.675	3.360	-0.087	
1592	-1.675	3.840	-0.087	
1593	-1.675	4.320	-0.087	
1594	-1.675	4.800	-0.087	
1595	-1.675	5.280	-0.087	
1596	-1.675	5.760	-0.087	
1597	-1.675	6.240	-0.087	
1598	-1.675	6.720	-0.087	
1599	-1.675	7.200	-0.087	
1600	-1.675	7.680	-0.087	
1601	-1.675	8.160	-0.087	
1602	-1.675	8.640	-0.087	
1603	-1.675	9.120	-0.087	
1604	-1.675	9.600	-0.087	
1605	-1.675	10.080	-0.087	
1606	-1.675	10.560	-0.087	
1607	-1.675	11.040	-0.087	
1608	-1.675	11.520	-0.087	
1609	1.675	0.000	-0.550	
1610	1.675	0.000	-0.925	
1611	1.675	0.000	-1.300	
1612	1.675	12.000	-0.550	
1613	1.675	12.000	-0.925	
1614	1.675	12.000	-1.300	
1615	1.675	0.480	-0.175	
1616	1.675	0.960	-0.175	
1617	1.675	1.440	-0.175	
1618	1.675	1.920	-0.175	
1619	1.675	2.400	-0.175	
1620	1.675	2.880	-0.175	
1621	1.675	3.360	-0.175	
1622	1.675	3.840	-0.175	
1623	1.675	4.320	-0.175	
1624	1.675	4.800	-0.175	
1625	1.675	5.280	-0.175	
1626	1.675	5.760	-0.175	
1627	1.675	6.240	-0.175	
1628	1.675	6.720	-0.175	
1629	1.675	7.200	-0.175	
1630	1.675	7.680	-0.175	
1631	1.675	8.160	-0.175	
1632	1.675	8.640	-0.175	
1633	1.675	9.120	-0.175	
1634	1.675	9.600	-0.175	
1635	1.675	10.080	-0.175	
1636	1.675	10.560	-0.175	
1637	1.675	11.040	-0.175	
1638	1.675	11.520	-0.175	
1639	1.675	0.480	-1.675	
1640	1.675	0.960	-1.675	
1641	1.675	1.440	-1.675	
1642	1.675	1.920	-1.675	
1643	1.675	2.400	-1.675	
1644	1.675	2.880	-1.675	
1645	1.675	3.360	-1.675	
1646	1.675	3.840	-1.675	
1647	1.675	4.320	-1.675	
1648	1.675	4.800	-1.675	
1649	1.675	5.280	-1.675	
1650	1.675	5.760	-1.675	
1651	1.675	6.240	-1.675	
1652	1.675	6.720	-1.675	
1653	1.675	7.200	-1.675	
1654	1.675	7.680	-1.675	
1655	1.675	8.160	-1.675	
1656	1.675	8.640	-1.675	
1657	1.675	9.120	-1.675	
1658	1.675	9.600	-1.675	
1659	1.675	10.080	-1.675	
1660	1.675	10.560	-1.675	
1661	1.675	11.040	-1.675	
1662	1.675	11.520	-1.675	
1663	1.675	0.480	-0.550	
1664	1.675	0.960	-0.550	

ΤΑΦΡΟΣ Τ1 (3.00x2.80x1.50)m
ΟΡΙΣΜΟΣ ΓΕΩΜΕΤΡΙΑΣ ΦΟΡΕΑ

Nodal Coordinates and Supports

Number	X[m]	Y[m]	Z[m]	Support Conditions
1665	1.675	1.440	-0.550	
1666	1.675	1.920	-0.550	
1667	1.675	2.400	-0.550	
1668	1.675	2.880	-0.550	
1669	1.675	3.360	-0.550	
1670	1.675	3.840	-0.550	
1671	1.675	4.320	-0.550	
1672	1.675	4.800	-0.550	
1673	1.675	5.280	-0.550	
1674	1.675	5.760	-0.550	
1675	1.675	6.240	-0.550	
1676	1.675	6.720	-0.550	
1677	1.675	7.200	-0.550	
1678	1.675	7.680	-0.550	
1679	1.675	8.160	-0.550	
1680	1.675	8.640	-0.550	
1681	1.675	9.120	-0.550	
1682	1.675	9.600	-0.550	
1683	1.675	10.080	-0.550	
1684	1.675	10.560	-0.550	
1685	1.675	11.040	-0.550	
1686	1.675	11.520	-0.550	
1687	1.675	0.480	-0.925	
1688	1.675	0.960	-0.925	
1689	1.675	1.440	-0.925	
1690	1.675	1.920	-0.925	
1691	1.675	2.400	-0.925	
1692	1.675	2.880	-0.925	
1693	1.675	3.360	-0.925	
1694	1.675	3.840	-0.925	
1695	1.675	4.320	-0.925	
1696	1.675	4.800	-0.925	
1697	1.675	5.280	-0.925	
1698	1.675	5.760	-0.925	
1699	1.675	6.240	-0.925	
1700	1.675	6.720	-0.925	
1701	1.675	7.200	-0.925	
1702	1.675	7.680	-0.925	
1703	1.675	8.160	-0.925	
1704	1.675	8.640	-0.925	
1705	1.675	9.120	-0.925	
1706	1.675	9.600	-0.925	
1707	1.675	10.080	-0.925	
1708	1.675	10.560	-0.925	
1709	1.675	11.040	-0.925	
1710	1.675	11.520	-0.925	
1711	1.675	0.480	-1.300	
1712	1.675	0.960	-1.300	
1713	1.675	1.440	-1.300	
1714	1.675	1.920	-1.300	
1715	1.675	2.400	-1.300	
1716	1.675	2.880	-1.300	
1717	1.675	3.360	-1.300	
1718	1.675	3.840	-1.300	
1719	1.675	4.320	-1.300	
1720	1.675	4.800	-1.300	
1721	1.675	5.280	-1.300	
1722	1.675	5.760	-1.300	
1723	1.675	6.240	-1.300	
1724	1.675	6.720	-1.300	
1725	1.675	7.200	-1.300	
1726	1.675	7.680	-1.300	
1727	1.675	8.160	-1.300	
1728	1.675	8.640	-1.300	
1729	1.675	9.120	-1.300	
1730	1.675	9.600	-1.300	
1731	1.675	10.080	-1.300	
1732	1.675	10.560	-1.300	
1733	1.675	11.040	-1.300	
1734	1.675	11.520	-1.300	
1735	1.675	0.000	-0.087	
1736	1.675	12.000	-0.087	
1737	1.675	0.480	-0.087	
1738	1.675	0.960	-0.087	
1739	1.675	1.440	-0.087	
1740	1.675	1.920	-0.087	
1741	1.675	2.400	-0.087	
1742	1.675	2.880	-0.087	
1743	1.675	3.360	-0.087	

ΤΑΦΡΟΣ Τ1 (3.00x2.80x1.50)m
ΟΡΙΣΜΟΣ ΓΕΩΜΕΤΡΙΑΣ ΦΟΡΕΑ

Nodal Coordinates and Supports

Number	X[m]	Y[m]	Z[m]	Support Conditions
1744	1.675	3.840	-0.087	
1745	1.675	4.320	-0.087	
1746	1.675	4.800	-0.087	
1747	1.675	5.280	-0.087	
1748	1.675	5.760	-0.087	
1749	1.675	6.240	-0.087	
1750	1.675	6.720	-0.087	
1751	1.675	7.200	-0.087	
1752	1.675	7.680	-0.087	
1753	1.675	8.160	-0.087	
1754	1.675	8.640	-0.087	
1755	1.675	9.120	-0.087	
1756	1.675	9.600	-0.087	
1757	1.675	10.080	-0.087	
1758	1.675	10.560	-0.087	
1759	1.675	11.040	-0.087	
1760	1.675	11.520	-0.087	
MIN	-1.850	0.000	-2.975	
MAX	1.850	12.000	0.000	

Flat Elements

Grp	Number	Node	Node	Node	Node	MNo	t[m]	C[kN/m3]	direction local x		
1	1001	21	1007	1061	1001	1	0.350	2.500E+03z 1.000E+03+	1.000	0.000	0.000
1	1002	1007	1008	1062	1061	1	0.350	2.500E+03z 1.000E+03+	1.000	0.000	0.000
1	1003	1008	1009	1063	1062	1	0.350	2.500E+03z 1.000E+03+	1.000	0.000	0.000
1	1004	1009	1010	1064	1063	1	0.350	2.500E+03z 1.000E+03+	1.000	0.000	0.000
1	1005	1010	1011	1065	1064	1	0.350	2.500E+03z 1.000E+03+	1.000	0.000	0.000
1	1006	1011	1012	1066	1065	1	0.350	2.500E+03z 1.000E+03+	1.000	0.000	0.000
1	1007	1012	1013	1067	1066	1	0.350	2.500E+03z 1.000E+03+	1.000	0.000	0.000
1	1008	1013	1014	1068	1067	1	0.350	2.500E+03z 1.000E+03+	1.000	0.000	0.000
1	1009	1014	1015	1069	1068	1	0.350	2.500E+03z 1.000E+03+	1.000	0.000	0.000
1	1010	1015	1016	1070	1069	1	0.350	2.500E+03z 1.000E+03+	1.000	0.000	0.000
1	1011	1016	1017	1071	1070	1	0.350	2.500E+03z 1.000E+03+	1.000	0.000	0.000
1	1012	1017	1018	1072	1071	1	0.350	2.500E+03z 1.000E+03+	1.000	0.000	0.000
1	1013	1018	1019	1073	1072	1	0.350	2.500E+03z 1.000E+03+	1.000	0.000	0.000
1	1014	1019	1020	1074	1073	1	0.350	2.500E+03z 1.000E+03+	1.000	0.000	0.000
1	1015	1020	1021	1075	1074	1	0.350	2.500E+03z 1.000E+03+	1.000	0.000	0.000
1	1016	1021	1022	1076	1075	1	0.350	2.500E+03z 1.000E+03+	1.000	0.000	0.000
1	1017	1022	1023	1077	1076	1	0.350	2.500E+03z 1.000E+03+	1.000	0.000	0.000
1	1018	1023	1024	1078	1077	1	0.350	2.500E+03z 1.000E+03+	1.000	0.000	0.000
1	1019	1024	1025	1079	1078	1	0.350	2.500E+03z 1.000E+03+	1.000	0.000	0.000
1	1020	1025	1026	1080	1079	1	0.350	2.500E+03z 1.000E+03+	1.000	0.000	0.000
1	1021	1026	1027	1081	1080	1	0.350	2.500E+03z 1.000E+03+	1.000	0.000	0.000
1	1022	1027	1028	1082	1081	1	0.350	2.500E+03z 1.000E+03+	1.000	0.000	0.000
1	1023	1028	1029	1083	1082	1	0.350	2.500E+03z 1.000E+03+	1.000	0.000	0.000
1	1024	1029	1030	1084	1083	1	0.350	2.500E+03z 1.000E+03+	1.000	0.000	0.000
1	1025	1030	22	1055	1084	1	0.350	2.500E+03z 1.000E+03+	1.000	0.000	0.000
1	1026	1001	1061	1085	1002	1	0.350	2.500E+03z 1.000E+03+	1.000	0.000	0.000
1	1027	1061	1062	1086	1085	1	0.350	2.500E+03z 1.000E+03+	1.000	0.000	0.000

ΤΑΦΡΟΣ T1 (3.00x2.80x1.50)m
ΟΡΙΣΜΟΣ ΓΕΩΜΕΤΡΙΑΣ ΦΟΡΕΑ

Flat Elements

Grp	Number	Node	Node	Node	Node	MNo	t[m]	C[kN/m3]	direction local x		
1	1028	1062	1063	1087	1086	1	0.350	2.500E+03z 1.000E+03+	1.000	0.000	0.000
1	1029	1063	1064	1088	1087	1	0.350	2.500E+03z 1.000E+03+	1.000	0.000	0.000
1	1030	1064	1065	1089	1088	1	0.350	2.500E+03z 1.000E+03+	1.000	0.000	0.000
1	1031	1065	1066	1090	1089	1	0.350	2.500E+03z 1.000E+03+	1.000	0.000	0.000
1	1032	1066	1067	1091	1090	1	0.350	2.500E+03z 1.000E+03+	1.000	0.000	0.000
1	1033	1067	1068	1092	1091	1	0.350	2.500E+03z 1.000E+03+	1.000	0.000	0.000
1	1034	1068	1069	1093	1092	1	0.350	2.500E+03z 1.000E+03+	1.000	0.000	0.000
1	1035	1069	1070	1094	1093	1	0.350	2.500E+03z 1.000E+03+	1.000	0.000	0.000
1	1036	1070	1071	1095	1094	1	0.350	2.500E+03z 1.000E+03+	1.000	0.000	0.000
1	1037	1071	1072	1096	1095	1	0.350	2.500E+03z 1.000E+03+	1.000	0.000	0.000
1	1038	1072	1073	1097	1096	1	0.350	2.500E+03z 1.000E+03+	1.000	0.000	0.000
1	1039	1073	1074	1098	1097	1	0.350	2.500E+03z 1.000E+03+	1.000	0.000	0.000
1	1040	1074	1075	1099	1098	1	0.350	2.500E+03z 1.000E+03+	1.000	0.000	0.000
1	1041	1075	1076	1100	1099	1	0.350	2.500E+03z 1.000E+03+	1.000	0.000	0.000
1	1042	1076	1077	1101	1100	1	0.350	2.500E+03z 1.000E+03+	1.000	0.000	0.000
1	1043	1077	1078	1102	1101	1	0.350	2.500E+03z 1.000E+03+	1.000	0.000	0.000
1	1044	1078	1079	1103	1102	1	0.350	2.500E+03z 1.000E+03+	1.000	0.000	0.000
1	1045	1079	1080	1104	1103	1	0.350	2.500E+03z 1.000E+03+	1.000	0.000	0.000
1	1046	1080	1081	1105	1104	1	0.350	2.500E+03z 1.000E+03+	1.000	0.000	0.000
1	1047	1081	1082	1106	1105	1	0.350	2.500E+03z 1.000E+03+	1.000	0.000	0.000
1	1048	1082	1083	1107	1106	1	0.350	2.500E+03z 1.000E+03+	1.000	0.000	0.000
1	1049	1083	1084	1108	1107	1	0.350	2.500E+03z 1.000E+03+	1.000	0.000	0.000
1	1050	1084	1055	1056	1108	1	0.350	2.500E+03z 1.000E+03+	1.000	0.000	0.000
1	1051	1002	1085	1109	1003	1	0.350	2.500E+03z 1.000E+03+	1.000	0.000	0.000
1	1052	1085	1086	1110	1109	1	0.350	2.500E+03z 1.000E+03+	1.000	0.000	0.000
1	1053	1086	1087	1111	1110	1	0.350	2.500E+03z 1.000E+03+	1.000	0.000	0.000
1	1054	1087	1088	1112	1111	1	0.350	2.500E+03z 1.000E+03+	1.000	0.000	0.000
1	1055	1088	1089	1113	1112	1	0.350	2.500E+03z 1.000E+03+	1.000	0.000	0.000
1	1056	1089	1090	1114	1113	1	0.350	2.500E+03z 1.000E+03+	1.000	0.000	0.000
1	1057	1090	1091	1115	1114	1	0.350	2.500E+03z 1.000E+03+	1.000	0.000	0.000
1	1058	1091	1092	1116	1115	1	0.350	2.500E+03z 1.000E+03+	1.000	0.000	0.000
1	1059	1092	1093	1117	1116	1	0.350	2.500E+03z 1.000E+03+	1.000	0.000	0.000
1	1060	1093	1094	1118	1117	1	0.350	2.500E+03z 1.000E+03+	1.000	0.000	0.000
1	1061	1094	1095	1119	1118	1	0.350	2.500E+03z 1.000E+03+	1.000	0.000	0.000
1	1062	1095	1096	1120	1119	1	0.350	2.500E+03z 1.000E+03+	1.000	0.000	0.000
1	1063	1096	1097	1121	1120	1	0.350	2.500E+03z 1.000E+03+	1.000	0.000	0.000
1	1064	1097	1098	1122	1121	1	0.350	2.500E+03z 1.000E+03+	1.000	0.000	0.000
1	1065	1098	1099	1123	1122	1	0.350	2.500E+03z 1.000E+03+	1.000	0.000	0.000
1	1066	1099	1100	1124	1123	1	0.350	2.500E+03z 1.000E+03+	1.000	0.000	0.000

ΤΑΦΡΟΣ T1 (3.00x2.80x1.50)m
ΟΡΙΣΜΟΣ ΓΕΩΜΕΤΡΙΑΣ ΦΟΡΕΑ

Flat Elements

Grp	Number	Node	Node	Node	Node	MNo	t[m]	C[kN/m3]	direction local x		
1	1067	1100	1101	1125	1124	1	0.350	2.500E+03z 1.000E+03+	1.000	0.000	0.000
1	1068	1101	1102	1126	1125	1	0.350	2.500E+03z 1.000E+03+	1.000	0.000	0.000
1	1069	1102	1103	1127	1126	1	0.350	2.500E+03z 1.000E+03+	1.000	0.000	0.000
1	1070	1103	1104	1128	1127	1	0.350	2.500E+03z 1.000E+03+	1.000	0.000	0.000
1	1071	1104	1105	1129	1128	1	0.350	2.500E+03z 1.000E+03+	1.000	0.000	0.000
1	1072	1105	1106	1130	1129	1	0.350	2.500E+03z 1.000E+03+	1.000	0.000	0.000
1	1073	1106	1107	1131	1130	1	0.350	2.500E+03z 1.000E+03+	1.000	0.000	0.000
1	1074	1107	1108	1132	1131	1	0.350	2.500E+03z 1.000E+03+	1.000	0.000	0.000
1	1075	1108	1056	1057	1132	1	0.350	2.500E+03z 1.000E+03+	1.000	0.000	0.000
1	1076	1003	1109	1133	1004	1	0.350	2.500E+03z 1.000E+03+	1.000	0.000	0.000
1	1077	1109	1110	1134	1133	1	0.350	2.500E+03z 1.000E+03+	1.000	0.000	0.000
1	1078	1110	1111	1135	1134	1	0.350	2.500E+03z 1.000E+03+	1.000	0.000	0.000
1	1079	1111	1112	1136	1135	1	0.350	2.500E+03z 1.000E+03+	1.000	0.000	0.000
1	1080	1112	1113	1137	1136	1	0.350	2.500E+03z 1.000E+03+	1.000	0.000	0.000
1	1081	1113	1114	1138	1137	1	0.350	2.500E+03z 1.000E+03+	1.000	0.000	0.000
1	1082	1114	1115	1139	1138	1	0.350	2.500E+03z 1.000E+03+	1.000	0.000	0.000
1	1083	1115	1116	1140	1139	1	0.350	2.500E+03z 1.000E+03+	1.000	0.000	0.000
1	1084	1116	1117	1141	1140	1	0.350	2.500E+03z 1.000E+03+	1.000	0.000	0.000
1	1085	1117	1118	1142	1141	1	0.350	2.500E+03z 1.000E+03+	1.000	0.000	0.000
1	1086	1118	1119	1143	1142	1	0.350	2.500E+03z 1.000E+03+	1.000	0.000	0.000
1	1087	1119	1120	1144	1143	1	0.350	2.500E+03z 1.000E+03+	1.000	0.000	0.000
1	1088	1120	1121	1145	1144	1	0.350	2.500E+03z 1.000E+03+	1.000	0.000	0.000
1	1089	1121	1122	1146	1145	1	0.350	2.500E+03z 1.000E+03+	1.000	0.000	0.000
1	1090	1122	1123	1147	1146	1	0.350	2.500E+03z 1.000E+03+	1.000	0.000	0.000
1	1091	1123	1124	1148	1147	1	0.350	2.500E+03z 1.000E+03+	1.000	0.000	0.000
1	1092	1124	1125	1149	1148	1	0.350	2.500E+03z 1.000E+03+	1.000	0.000	0.000
1	1093	1125	1126	1150	1149	1	0.350	2.500E+03z 1.000E+03+	1.000	0.000	0.000
1	1094	1126	1127	1151	1150	1	0.350	2.500E+03z 1.000E+03+	1.000	0.000	0.000
1	1095	1127	1128	1152	1151	1	0.350	2.500E+03z 1.000E+03+	1.000	0.000	0.000
1	1096	1128	1129	1153	1152	1	0.350	2.500E+03z 1.000E+03+	1.000	0.000	0.000
1	1097	1129	1130	1154	1153	1	0.350	2.500E+03z 1.000E+03+	1.000	0.000	0.000
1	1098	1130	1131	1155	1154	1	0.350	2.500E+03z 1.000E+03+	1.000	0.000	0.000
1	1099	1131	1132	1156	1155	1	0.350	2.500E+03z 1.000E+03+	1.000	0.000	0.000
1	1100	1132	1057	1058	1156	1	0.350	2.500E+03z 1.000E+03+	1.000	0.000	0.000
1	1101	1004	1133	1157	1005	1	0.350	2.500E+03z 1.000E+03+	1.000	0.000	0.000
1	1102	1133	1134	1158	1157	1	0.350	2.500E+03z 1.000E+03+	1.000	0.000	0.000
1	1103	1134	1135	1159	1158	1	0.350	2.500E+03z 1.000E+03+	1.000	0.000	0.000
1	1104	1135	1136	1160	1159	1	0.350	2.500E+03z 1.000E+03+	1.000	0.000	0.000
1	1105	1136	1137	1161	1160	1	0.350	2.500E+03z 1.000E+03+	1.000	0.000	0.000

ΤΑΦΡΟΣ T1 (3.00x2.80x1.50)m
ΟΡΙΣΜΟΣ ΓΕΩΜΕΤΡΙΑΣ ΦΟΡΕΑ

Flat Elements

Grp	Number	Node	Node	Node	Node	MNo	t[m]	C[kN/m3]	direction local x		
1	1106	1137	1138	1162	1161	1	0.350	2.500E+03z 1.000E+03+	1.000	0.000	0.000
1	1107	1138	1139	1163	1162	1	0.350	2.500E+03z 1.000E+03+	1.000	0.000	0.000
1	1108	1139	1140	1164	1163	1	0.350	2.500E+03z 1.000E+03+	1.000	0.000	0.000
1	1109	1140	1141	1165	1164	1	0.350	2.500E+03z 1.000E+03+	1.000	0.000	0.000
1	1110	1141	1142	1166	1165	1	0.350	2.500E+03z 1.000E+03+	1.000	0.000	0.000
1	1111	1142	1143	1167	1166	1	0.350	2.500E+03z 1.000E+03+	1.000	0.000	0.000
1	1112	1143	1144	1168	1167	1	0.350	2.500E+03z 1.000E+03+	1.000	0.000	0.000
1	1113	1144	1145	1169	1168	1	0.350	2.500E+03z 1.000E+03+	1.000	0.000	0.000
1	1114	1145	1146	1170	1169	1	0.350	2.500E+03z 1.000E+03+	1.000	0.000	0.000
1	1115	1146	1147	1171	1170	1	0.350	2.500E+03z 1.000E+03+	1.000	0.000	0.000
1	1116	1147	1148	1172	1171	1	0.350	2.500E+03z 1.000E+03+	1.000	0.000	0.000
1	1117	1148	1149	1173	1172	1	0.350	2.500E+03z 1.000E+03+	1.000	0.000	0.000
1	1118	1149	1150	1174	1173	1	0.350	2.500E+03z 1.000E+03+	1.000	0.000	0.000
1	1119	1150	1151	1175	1174	1	0.350	2.500E+03z 1.000E+03+	1.000	0.000	0.000
1	1120	1151	1152	1176	1175	1	0.350	2.500E+03z 1.000E+03+	1.000	0.000	0.000
1	1121	1152	1153	1177	1176	1	0.350	2.500E+03z 1.000E+03+	1.000	0.000	0.000
1	1122	1153	1154	1178	1177	1	0.350	2.500E+03z 1.000E+03+	1.000	0.000	0.000
1	1123	1154	1155	1179	1178	1	0.350	2.500E+03z 1.000E+03+	1.000	0.000	0.000
1	1124	1155	1156	1180	1179	1	0.350	2.500E+03z 1.000E+03+	1.000	0.000	0.000
1	1125	1156	1058	1059	1180	1	0.350	2.500E+03z 1.000E+03+	1.000	0.000	0.000
1	1126	1005	1157	1181	1006	1	0.350	2.500E+03z 1.000E+03+	1.000	0.000	0.000
1	1127	1157	1158	1182	1181	1	0.350	2.500E+03z 1.000E+03+	1.000	0.000	0.000
1	1128	1158	1159	1183	1182	1	0.350	2.500E+03z 1.000E+03+	1.000	0.000	0.000
1	1129	1159	1160	1184	1183	1	0.350	2.500E+03z 1.000E+03+	1.000	0.000	0.000
1	1130	1160	1161	1185	1184	1	0.350	2.500E+03z 1.000E+03+	1.000	0.000	0.000
1	1131	1161	1162	1186	1185	1	0.350	2.500E+03z 1.000E+03+	1.000	0.000	0.000
1	1132	1162	1163	1187	1186	1	0.350	2.500E+03z 1.000E+03+	1.000	0.000	0.000
1	1133	1163	1164	1188	1187	1	0.350	2.500E+03z 1.000E+03+	1.000	0.000	0.000
1	1134	1164	1165	1189	1188	1	0.350	2.500E+03z 1.000E+03+	1.000	0.000	0.000
1	1135	1165	1166	1190	1189	1	0.350	2.500E+03z 1.000E+03+	1.000	0.000	0.000
1	1136	1166	1167	1191	1190	1	0.350	2.500E+03z 1.000E+03+	1.000	0.000	0.000
1	1137	1167	1168	1192	1191	1	0.350	2.500E+03z 1.000E+03+	1.000	0.000	0.000
1	1138	1168	1169	1193	1192	1	0.350	2.500E+03z 1.000E+03+	1.000	0.000	0.000
1	1139	1169	1170	1194	1193	1	0.350	2.500E+03z 1.000E+03+	1.000	0.000	0.000
1	1140	1170	1171	1195	1194	1	0.350	2.500E+03z 1.000E+03+	1.000	0.000	0.000
1	1141	1171	1172	1196	1195	1	0.350	2.500E+03z 1.000E+03+	1.000	0.000	0.000
1	1142	1172	1173	1197	1196	1	0.350	2.500E+03z 1.000E+03+	1.000	0.000	0.000
1	1143	1173	1174	1198	1197	1	0.350	2.500E+03z 1.000E+03+	1.000	0.000	0.000
1	1144	1174	1175	1199	1198	1	0.350	2.500E+03z 1.000E+03+	1.000	0.000	0.000

ΤΑΦΡΟΣ T1 (3.00x2.80x1.50)m
ΟΡΙΣΜΟΣ ΓΕΩΜΕΤΡΙΑΣ ΦΟΡΕΑ

Flat Elements

Grp	Number	Node	Node	Node	Node	MNo	t[m]	C[kN/m3]	direction local x		
1	1145	1175	1176	1200	1199	1	0.350	2.500E+03z 1.000E+03+	1.000	0.000	0.000
1	1146	1176	1177	1201	1200	1	0.350	2.500E+03z 1.000E+03+	1.000	0.000	0.000
1	1147	1177	1178	1202	1201	1	0.350	2.500E+03z 1.000E+03+	1.000	0.000	0.000
1	1148	1178	1179	1203	1202	1	0.350	2.500E+03z 1.000E+03+	1.000	0.000	0.000
1	1149	1179	1180	1204	1203	1	0.350	2.500E+03z 1.000E+03+	1.000	0.000	0.000
1	1150	1180	1059	1060	1204	1	0.350	2.500E+03z 1.000E+03+	1.000	0.000	0.000
1	1151	1006	1181	1031	31	1	0.350	2.500E+03z 1.000E+03+	1.000	0.000	0.000
1	1152	1181	1182	1032	1031	1	0.350	2.500E+03z 1.000E+03+	1.000	0.000	0.000
1	1153	1182	1183	1033	1032	1	0.350	2.500E+03z 1.000E+03+	1.000	0.000	0.000
1	1154	1183	1184	1034	1033	1	0.350	2.500E+03z 1.000E+03+	1.000	0.000	0.000
1	1155	1184	1185	1035	1034	1	0.350	2.500E+03z 1.000E+03+	1.000	0.000	0.000
1	1156	1185	1186	1036	1035	1	0.350	2.500E+03z 1.000E+03+	1.000	0.000	0.000
1	1157	1186	1187	1037	1036	1	0.350	2.500E+03z 1.000E+03+	1.000	0.000	0.000
1	1158	1187	1188	1038	1037	1	0.350	2.500E+03z 1.000E+03+	1.000	0.000	0.000
1	1159	1188	1189	1039	1038	1	0.350	2.500E+03z 1.000E+03+	1.000	0.000	0.000
1	1160	1189	1190	1040	1039	1	0.350	2.500E+03z 1.000E+03+	1.000	0.000	0.000
1	1161	1190	1191	1041	1040	1	0.350	2.500E+03z 1.000E+03+	1.000	0.000	0.000
1	1162	1191	1192	1042	1041	1	0.350	2.500E+03z 1.000E+03+	1.000	0.000	0.000
1	1163	1192	1193	1043	1042	1	0.350	2.500E+03z 1.000E+03+	1.000	0.000	0.000
1	1164	1193	1194	1044	1043	1	0.350	2.500E+03z 1.000E+03+	1.000	0.000	0.000
1	1165	1194	1195	1045	1044	1	0.350	2.500E+03z 1.000E+03+	1.000	0.000	0.000
1	1166	1195	1196	1046	1045	1	0.350	2.500E+03z 1.000E+03+	1.000	0.000	0.000
1	1167	1196	1197	1047	1046	1	0.350	2.500E+03z 1.000E+03+	1.000	0.000	0.000
1	1168	1197	1198	1048	1047	1	0.350	2.500E+03z 1.000E+03+	1.000	0.000	0.000
1	1169	1198	1199	1049	1048	1	0.350	2.500E+03z 1.000E+03+	1.000	0.000	0.000
1	1170	1199	1200	1050	1049	1	0.350	2.500E+03z 1.000E+03+	1.000	0.000	0.000
1	1171	1200	1201	1051	1050	1	0.350	2.500E+03z 1.000E+03+	1.000	0.000	0.000
1	1172	1201	1202	1052	1051	1	0.350	2.500E+03z 1.000E+03+	1.000	0.000	0.000
1	1173	1202	1203	1053	1052	1	0.350	2.500E+03z 1.000E+03+	1.000	0.000	0.000
1	1174	1203	1204	1054	1053	1	0.350	2.500E+03z 1.000E+03+	1.000	0.000	0.000
1	1175	1204	1060	32	1054	1	0.350	2.500E+03z 1.000E+03+	1.000	0.000	0.000
2	2001	111	1405	1463	1415	2	0.350		0.000	1.000	0.000
2	2002	1405	1406	1464	1463	2	0.350		0.000	1.000	0.000
2	2003	1406	1407	1465	1464	2	0.350		0.000	1.000	0.000
2	2004	1407	1408	1466	1465	2	0.350		0.000	1.000	0.000
2	2005	1408	1409	1467	1466	2	0.350		0.000	1.000	0.000
2	2006	1409	211	1439	1467	2	0.350		0.000	1.000	0.000
2	2007	1415	1463	1468	1416	2	0.350		0.000	1.000	0.000
2	2008	1463	1464	1469	1468	2	0.350		0.000	1.000	0.000
2	2009	1464	1465	1470	1469	2	0.350		0.000	1.000	0.000
2	2010	1465	1466	1471	1470	2	0.350		0.000	-1.000	0.000
2	2011	1466	1467	1472	1471	2	0.350		0.000	-1.000	0.000
2	2012	1467	1439	1440	1472	2	0.350		0.000	1.000	0.000
2	2013	1416	1468	1473	1417	2	0.350		0.000	1.000	0.000
2	2014	1468	1469	1474	1473	2	0.350		0.000	1.000	0.000
2	2015	1469	1470	1475	1474	2	0.350		0.000	1.000	0.000
2	2016	1470	1471	1476	1475	2	0.350		0.000	1.000	0.000
2	2017	1471	1472	1477	1476	2	0.350		0.000	1.000	0.000

ΤΑΦΡΟΣ Τ1 (3.00x2.80x1.50)m
ΟΡΙΣΜΟΣ ΓΕΩΜΕΤΡΙΑΣ ΦΟΡΕΑ

Flat Elements

Grp	Number	Node	Node	Node	Node	MNo	t[m]	C[kN/m3]	direction local x		
2	2018	1472	1440	1441	1477	2	0.350		0.000	1.000	0.000
2	2019	1417	1473	1478	1418	2	0.350		0.000	1.000	0.000
2	2020	1473	1474	1479	1478	2	0.350		0.000	1.000	0.000
2	2021	1474	1475	1480	1479	2	0.350		0.000	-1.000	0.000
2	2022	1475	1476	1481	1480	2	0.350		0.000	-1.000	0.000
2	2023	1476	1477	1482	1481	2	0.350		0.000	1.000	0.000
2	2024	1477	1441	1442	1482	2	0.350		0.000	1.000	0.000
2	2025	1418	1478	1483	1419	2	0.350		0.000	1.000	0.000
2	2026	1478	1479	1484	1483	2	0.350		0.000	1.000	0.000
2	2027	1479	1480	1485	1484	2	0.350		0.000	1.000	0.000
2	2028	1480	1481	1486	1485	2	0.350		0.000	-1.000	0.000
2	2029	1481	1482	1487	1486	2	0.350		0.000	-1.000	0.000
2	2030	1482	1442	1443	1487	2	0.350		0.000	-1.000	0.000
2	2031	1419	1483	1488	1420	2	0.350		0.000	1.000	0.000
2	2032	1483	1484	1489	1488	2	0.350		0.000	1.000	0.000
2	2033	1484	1485	1490	1489	2	0.350		0.000	1.000	0.000
2	2034	1485	1486	1491	1490	2	0.350		0.000	1.000	0.000
2	2035	1486	1487	1492	1491	2	0.350		0.000	1.000	0.000
2	2036	1487	1443	1444	1492	2	0.350		0.000	1.000	0.000
2	2037	1420	1488	1493	1421	2	0.350		0.000	1.000	0.000
2	2038	1488	1489	1494	1493	2	0.350		0.000	1.000	0.000
2	2039	1489	1490	1495	1494	2	0.350		0.000	1.000	0.000
2	2040	1490	1491	1496	1495	2	0.350		0.000	-1.000	0.000
2	2041	1491	1492	1497	1496	2	0.350		0.000	-1.000	0.000
2	2042	1492	1444	1445	1497	2	0.350		0.000	1.000	0.000
2	2043	1421	1493	1498	1422	2	0.350		0.000	1.000	0.000
2	2044	1493	1494	1499	1498	2	0.350		0.000	1.000	0.000
2	2045	1494	1495	1500	1499	2	0.350		0.000	1.000	0.000
2	2046	1495	1496	1501	1500	2	0.350		0.000	1.000	0.000
2	2047	1496	1497	1502	1501	2	0.350		0.000	1.000	0.000
2	2048	1497	1445	1446	1502	2	0.350		0.000	1.000	0.000
2	2049	1422	1498	1503	1423	2	0.350		0.000	1.000	0.000
2	2050	1498	1499	1504	1503	2	0.350		0.000	1.000	0.000
2	2051	1499	1500	1505	1504	2	0.350		0.000	1.000	0.000
2	2052	1500	1501	1506	1505	2	0.350		0.000	1.000	0.000
2	2053	1501	1502	1507	1506	2	0.350		0.000	1.000	0.000
2	2054	1502	1446	1447	1507	2	0.350		0.000	1.000	0.000
2	2055	1423	1503	1508	1424	2	0.350		0.000	1.000	0.000
2	2056	1503	1504	1509	1508	2	0.350		0.000	1.000	0.000
2	2057	1504	1505	1510	1509	2	0.350		0.000	1.000	0.000
2	2058	1505	1506	1511	1510	2	0.350		0.000	1.000	0.000
2	2059	1506	1507	1512	1511	2	0.350		0.000	1.000	0.000
2	2060	1507	1447	1448	1512	2	0.350		0.000	1.000	0.000
2	2061	1424	1508	1513	1425	2	0.350		0.000	-1.000	0.000
2	2062	1508	1509	1514	1513	2	0.350		0.000	-1.000	0.000
2	2063	1509	1510	1515	1514	2	0.350		0.000	-1.000	0.000
2	2064	1510	1511	1516	1515	2	0.350		0.000	-1.000	0.000
2	2065	1511	1512	1517	1516	2	0.350		0.000	-1.000	0.000
2	2066	1512	1448	1449	1517	2	0.350		0.000	-1.000	0.000
2	2067	1425	1513	1518	1426	2	0.350		0.000	1.000	0.000
2	2068	1513	1514	1519	1518	2	0.350		0.000	1.000	0.000
2	2069	1514	1515	1520	1519	2	0.350		0.000	1.000	0.000
2	2070	1515	1516	1521	1520	2	0.350		0.000	1.000	0.000
2	2071	1516	1517	1522	1521	2	0.350		0.000	1.000	0.000
2	2072	1517	1449	1450	1522	2	0.350		0.000	1.000	0.000
2	2073	1426	1518	1523	1427	2	0.350		0.000	1.000	0.000
2	2074	1518	1519	1524	1523	2	0.350		0.000	1.000	0.000
2	2075	1519	1520	1525	1524	2	0.350		0.000	1.000	0.000
2	2076	1520	1521	1526	1525	2	0.350		0.000	1.000	0.000
2	2077	1521	1522	1527	1526	2	0.350		0.000	1.000	0.000
2	2078	1522	1450	1451	1527	2	0.350		0.000	1.000	0.000
2	2079	1427	1523	1528	1428	2	0.350		0.000	1.000	0.000
2	2080	1523	1524	1529	1528	2	0.350		0.000	1.000	0.000
2	2081	1524	1525	1530	1529	2	0.350		0.000	1.000	0.000
2	2082	1525	1526	1531	1530	2	0.350		0.000	1.000	0.000
2	2083	1526	1527	1532	1531	2	0.350		0.000	-1.000	0.000
2	2084	1527	1451	1452	1532	2	0.350		0.000	-1.000	0.000
2	2085	1428	1528	1533	1429	2	0.350		0.000	1.000	0.000
2	2086	1528	1529	1534	1533	2	0.350		0.000	1.000	0.000
2	2087	1529	1530	1535	1534	2	0.350		0.000	1.000	0.000
2	2088	1530	1531	1536	1535	2	0.350		0.000	1.000	0.000
2	2089	1531	1532	1537	1536	2	0.350		0.000	1.000	0.000
2	2090	1532	1452	1453	1537	2	0.350		0.000	1.000	0.000
2	2091	1429	1533	1538	1430	2	0.350		0.000	1.000	0.000
2	2092	1533	1534	1539	1538	2	0.350		0.000	1.000	0.000
2	2093	1534	1535	1540	1539	2	0.350		0.000	1.000	0.000
2	2094	1535	1536	1541	1540	2	0.350		0.000	-1.000	0.000
2	2095	1536	1537	1542	1541	2	0.350		0.000	-1.000	0.000
2	2096	1537	1453	1454	1542	2	0.350		0.000	1.000	0.000

ΤΑΦΡΟΣ Τ1 (3.00x2.80x1.50)m
ΟΡΙΣΜΟΣ ΓΕΩΜΕΤΡΙΑΣ ΦΟΡΕΑ

Flat Elements

Grp	Number	Node	Node	Node	Node	MNo	t[m]	C[kN/m3]	direction local x		
2	2097	1430	1538	1543	1431	2	0.350		0.000	1.000	0.000
2	2098	1538	1539	1544	1543	2	0.350		0.000	1.000	0.000
2	2099	1539	1540	1545	1544	2	0.350		0.000	1.000	0.000
2	2100	1540	1541	1546	1545	2	0.350		0.000	1.000	0.000
2	2101	1541	1542	1547	1546	2	0.350		0.000	-1.000	0.000
2	2102	1542	1454	1455	1547	2	0.350		0.000	-1.000	0.000
2	2103	1431	1543	1548	1432	2	0.350		0.000	1.000	0.000
2	2104	1543	1544	1549	1548	2	0.350		0.000	1.000	0.000
2	2105	1544	1545	1550	1549	2	0.350		0.000	1.000	0.000
2	2106	1545	1546	1551	1550	2	0.350		0.000	1.000	0.000
2	2107	1546	1547	1552	1551	2	0.350		0.000	1.000	0.000
2	2108	1547	1455	1456	1552	2	0.350		0.000	1.000	0.000
2	2109	1432	1548	1553	1433	2	0.350		0.000	1.000	0.000
2	2110	1548	1549	1554	1553	2	0.350		0.000	1.000	0.000
2	2111	1549	1550	1555	1554	2	0.350		0.000	1.000	0.000
2	2112	1550	1551	1556	1555	2	0.350		0.000	1.000	0.000
2	2113	1551	1552	1557	1556	2	0.350		0.000	1.000	0.000
2	2114	1552	1456	1457	1557	2	0.350		0.000	1.000	0.000
2	2115	1433	1553	1558	1434	2	0.350		0.000	1.000	0.000
2	2116	1553	1554	1559	1558	2	0.350		0.000	1.000	0.000
2	2117	1554	1555	1560	1559	2	0.350		0.000	1.000	0.000
2	2118	1555	1556	1561	1560	2	0.350		0.000	1.000	0.000
2	2119	1556	1557	1562	1561	2	0.350		0.000	-1.000	0.000
2	2120	1557	1457	1458	1562	2	0.350		0.000	1.000	0.000
2	2121	1434	1558	1563	1435	2	0.350		0.000	1.000	0.000
2	2122	1558	1559	1564	1563	2	0.350		0.000	1.000	0.000
2	2123	1559	1560	1565	1564	2	0.350		0.000	1.000	0.000
2	2124	1560	1561	1566	1565	2	0.350		0.000	1.000	0.000
2	2125	1561	1562	1567	1566	2	0.350		0.000	1.000	0.000
2	2126	1562	1458	1459	1567	2	0.350		0.000	1.000	0.000
2	2127	1435	1563	1568	1436	2	0.350		0.000	1.000	0.000
2	2128	1563	1564	1569	1568	2	0.350		0.000	1.000	0.000
2	2129	1564	1565	1570	1569	2	0.350		0.000	1.000	0.000
2	2130	1565	1566	1571	1570	2	0.350		0.000	-1.000	0.000
2	2131	1566	1567	1572	1571	2	0.350		0.000	-1.000	0.000
2	2132	1567	1459	1460	1572	2	0.350		0.000	1.000	0.000
2	2133	1436	1568	1573	1437	2	0.350		0.000	1.000	0.000
2	2134	1568	1569	1574	1573	2	0.350		0.000	1.000	0.000
2	2135	1569	1570	1575	1574	2	0.350		0.000	1.000	0.000
2	2136	1570	1571	1576	1575	2	0.350		0.000	1.000	0.000
2	2137	1571	1572	1577	1576	2	0.350		0.000	1.000	0.000
2	2138	1572	1460	1461	1577	2	0.350		0.000	1.000	0.000
2	2139	1437	1573	1578	1438	2	0.350		0.000	1.000	0.000
2	2140	1573	1574	1579	1578	2	0.350		0.000	1.000	0.000
2	2141	1574	1575	1580	1579	2	0.350		0.000	1.000	0.000
2	2142	1575	1576	1581	1580	2	0.350		0.000	1.000	0.000
2	2143	1576	1577	1582	1581	2	0.350		0.000	1.000	0.000
2	2144	1577	1461	1462	1582	2	0.350		0.000	1.000	0.000
2	2145	1438	1578	1410	112	2	0.350		0.000	1.000	0.000
2	2146	1578	1579	1411	1410	2	0.350		0.000	1.000	0.000
2	2147	1579	1580	1412	1411	2	0.350		0.000	1.000	0.000
2	2148	1580	1581	1413	1412	2	0.350		0.000	-1.000	0.000
2	2149	1581	1582	1414	1413	2	0.350		0.000	-1.000	0.000
2	2150	1582	1462	212	1414	2	0.350		0.000	1.000	0.000
3	3001	141	1615	1663	1609	2	0.350		0.000	1.000	0.000
3	3002	1615	1616	1664	1663	2	0.350		0.000	1.000	0.000
3	3003	1616	1617	1665	1664	2	0.350		0.000	1.000	0.000
3	3004	1617	1618	1666	1665	2	0.350		0.000	1.000	0.000
3	3005	1618	1619	1667	1666	2	0.350		0.000	1.000	0.000
3	3006	1619	1620	1668	1667	2	0.350		0.000	1.000	0.000
3	3007	1620	1621	1669	1668	2	0.350		0.000	1.000	0.000
3	3008	1621	1622	1670	1669	2	0.350		0.000	1.000	0.000
3	3009	1622	1623	1671	1670	2	0.350		0.000	1.000	0.000
3	3010	1623	1624	1672	1671	2	0.350		0.000	1.000	0.000
3	3011	1624	1625	1673	1672	2	0.350		0.000	1.000	0.000
3	3012	1625	1626	1674	1673	2	0.350		0.000	1.000	0.000
3	3013	1626	1627	1675	1674	2	0.350		0.000	1.000	0.000
3	3014	1627	1628	1676	1675	2	0.350		0.000	1.000	0.000
3	3015	1628	1629	1677	1676	2	0.350		0.000	1.000	0.000
3	3016	1629	1630	1678	1677	2	0.350		0.000	1.000	0.000
3	3017	1630	1631	1679	1678	2	0.350		0.000	1.000	0.000
3	3018	1631	1632	1680	1679	2	0.350		0.000	1.000	0.000
3	3019	1632	1633	1681	1680	2	0.350		0.000	1.000	0.000
3	3020	1633	1634	1682	1681	2	0.350		0.000	1.000	0.000
3	3021	1634	1635	1683	1682	2	0.350		0.000	1.000	0.000
3	3022	1635	1636	1684	1683	2	0.350		0.000	1.000	0.000
3	3023	1636	1637	1685	1684	2	0.350		0.000	1.000	0.000
3	3024	1637	1638	1686	1685	2	0.350		0.000	1.000	0.000
3	3025	1638	142	1612	1686	2	0.350		0.000	1.000	0.000

ΤΑΦΡΟΣ Τ1 (3.00x2.80x1.50)m
ΟΡΙΣΜΟΣ ΓΕΩΜΕΤΡΙΑΣ ΦΟΡΕΑ

Flat Elements

Grp	Number	Node	Node	Node	Node	MNo	t[m]	C[kN/m3]	direction local x		
3	3026	1609	1663	1687	1610	2	0.350		0.000	1.000	0.000
3	3027	1663	1664	1688	1687	2	0.350		0.000	1.000	0.000
3	3028	1664	1665	1689	1688	2	0.350		0.000	1.000	0.000
3	3029	1665	1666	1690	1689	2	0.350		0.000	1.000	0.000
3	3030	1666	1667	1691	1690	2	0.350		0.000	1.000	0.000
3	3031	1667	1668	1692	1691	2	0.350		0.000	1.000	0.000
3	3032	1668	1669	1693	1692	2	0.350		0.000	1.000	0.000
3	3033	1669	1670	1694	1693	2	0.350		0.000	1.000	0.000
3	3034	1670	1671	1695	1694	2	0.350		0.000	1.000	0.000
3	3035	1671	1672	1696	1695	2	0.350		0.000	-1.000	0.000
3	3036	1672	1673	1697	1696	2	0.350		0.000	1.000	0.000
3	3037	1673	1674	1698	1697	2	0.350		0.000	-1.000	0.000
3	3038	1674	1675	1699	1698	2	0.350		0.000	1.000	0.000
3	3039	1675	1676	1700	1699	2	0.350		0.000	1.000	0.000
3	3040	1676	1677	1701	1700	2	0.350		0.000	-1.000	0.000
3	3041	1677	1678	1702	1701	2	0.350		0.000	1.000	0.000
3	3042	1678	1679	1703	1702	2	0.350		0.000	1.000	0.000
3	3043	1679	1680	1704	1703	2	0.350		0.000	-1.000	0.000
3	3044	1680	1681	1705	1704	2	0.350		0.000	1.000	0.000
3	3045	1681	1682	1706	1705	2	0.350		0.000	1.000	0.000
3	3046	1682	1683	1707	1706	2	0.350		0.000	1.000	0.000
3	3047	1683	1684	1708	1707	2	0.350		0.000	1.000	0.000
3	3048	1684	1685	1709	1708	2	0.350		0.000	1.000	0.000
3	3049	1685	1686	1710	1709	2	0.350		0.000	-1.000	0.000
3	3050	1686	1612	1613	1710	2	0.350		0.000	1.000	0.000
3	3051	1610	1687	1711	1611	2	0.350		0.000	1.000	0.000
3	3052	1687	1688	1712	1711	2	0.350		0.000	1.000	0.000
3	3053	1688	1689	1713	1712	2	0.350		0.000	1.000	0.000
3	3054	1689	1690	1714	1713	2	0.350		0.000	1.000	0.000
3	3055	1690	1691	1715	1714	2	0.350		0.000	1.000	0.000
3	3056	1691	1692	1716	1715	2	0.350		0.000	1.000	0.000
3	3057	1692	1693	1717	1716	2	0.350		0.000	1.000	0.000
3	3058	1693	1694	1718	1717	2	0.350		0.000	1.000	0.000
3	3059	1694	1695	1719	1718	2	0.350		0.000	1.000	0.000
3	3060	1695	1696	1720	1719	2	0.350		0.000	-1.000	0.000
3	3061	1696	1697	1721	1720	2	0.350		0.000	1.000	0.000
3	3062	1697	1698	1722	1721	2	0.350		0.000	-1.000	0.000
3	3063	1698	1699	1723	1722	2	0.350		0.000	1.000	0.000
3	3064	1699	1700	1724	1723	2	0.350		0.000	1.000	0.000
3	3065	1700	1701	1725	1724	2	0.350		0.000	-1.000	0.000
3	3066	1701	1702	1726	1725	2	0.350		0.000	1.000	0.000
3	3067	1702	1703	1727	1726	2	0.350		0.000	1.000	0.000
3	3068	1703	1704	1728	1727	2	0.350		0.000	-1.000	0.000
3	3069	1704	1705	1729	1728	2	0.350		0.000	1.000	0.000
3	3070	1705	1706	1730	1729	2	0.350		0.000	1.000	0.000
3	3071	1706	1707	1731	1730	2	0.350		0.000	1.000	0.000
3	3072	1707	1708	1732	1731	2	0.350		0.000	1.000	0.000
3	3073	1708	1709	1733	1732	2	0.350		0.000	1.000	0.000
3	3074	1709	1710	1734	1733	2	0.350		0.000	-1.000	0.000
3	3075	1710	1613	1614	1734	2	0.350		0.000	1.000	0.000
3	3076	1611	1711	1639	241	2	0.350		0.000	1.000	0.000
3	3077	1711	1712	1640	1639	2	0.350		0.000	1.000	0.000
3	3078	1712	1713	1641	1640	2	0.350		0.000	1.000	0.000
3	3079	1713	1714	1642	1641	2	0.350		0.000	1.000	0.000
3	3080	1714	1715	1643	1642	2	0.350		0.000	1.000	0.000
3	3081	1715	1716	1644	1643	2	0.350		0.000	1.000	0.000
3	3082	1716	1717	1645	1644	2	0.350		0.000	1.000	0.000
3	3083	1717	1718	1646	1645	2	0.350		0.000	1.000	0.000
3	3084	1718	1719	1647	1646	2	0.350		0.000	1.000	0.000
3	3085	1719	1720	1648	1647	2	0.350		0.000	1.000	0.000
3	3086	1720	1721	1649	1648	2	0.350		0.000	1.000	0.000
3	3087	1721	1722	1650	1649	2	0.350		0.000	1.000	0.000
3	3088	1722	1723	1651	1650	2	0.350		0.000	1.000	0.000
3	3089	1723	1724	1652	1651	2	0.350		0.000	1.000	0.000
3	3090	1724	1725	1653	1652	2	0.350		0.000	1.000	0.000
3	3091	1725	1726	1654	1653	2	0.350		0.000	1.000	0.000
3	3092	1726	1727	1655	1654	2	0.350		0.000	1.000	0.000
3	3093	1727	1728	1656	1655	2	0.350		0.000	1.000	0.000
3	3094	1728	1729	1657	1656	2	0.350		0.000	1.000	0.000
3	3095	1729	1730	1658	1657	2	0.350		0.000	1.000	0.000
3	3096	1730	1731	1659	1658	2	0.350		0.000	1.000	0.000
3	3097	1731	1732	1660	1659	2	0.350		0.000	1.000	0.000
3	3098	1732	1733	1661	1660	2	0.350		0.000	1.000	0.000
3	3099	1733	1734	1662	1661	2	0.350		0.000	1.000	0.000
3	3100	1734	1614	242	1662	2	0.350		0.000	1.000	0.000
11	11001	1	1209	1308	1205	11	0.350	2.500E+03z 1.000E+03+	1.000	0.000	0.000

ΤΑΦΡΟΣ Τ1 (3.00x2.80x1.50)m
ΟΡΙΣΜΟΣ ΓΕΩΜΕΤΡΙΑΣ ΦΟΡΕΑ

Flat Elements

Grp	Number	Node	Node	Node	Node	MNo	t[m]	C[kN/m3]	direction local x		
11	11002	1209	1210	1309	1308	11	0.350	2.500E+03z 1.000E+03+	1.000	0.000	0.000
11	11003	1210	1211	1310	1309	11	0.350	2.500E+03z 1.000E+03+	1.000	0.000	0.000
11	11004	1211	1212	1311	1310	11	0.350	2.500E+03z 1.000E+03+	1.000	0.000	0.000
11	11005	1212	1213	1312	1311	11	0.350	2.500E+03z 1.000E+03+	1.000	0.000	0.000
11	11006	1213	1214	1313	1312	11	0.350	2.500E+03z 1.000E+03+	1.000	0.000	0.000
11	11007	1214	1215	1314	1313	11	0.350	2.500E+03z 1.000E+03+	1.000	0.000	0.000
11	11008	1215	1216	1315	1314	11	0.350	2.500E+03z 1.000E+03+	1.000	0.000	0.000
11	11009	1216	1217	1316	1315	11	0.350	2.500E+03z 1.000E+03+	1.000	0.000	0.000
11	11010	1217	1218	1317	1316	11	0.350	2.500E+03z 1.000E+03+	1.000	0.000	0.000
11	11011	1218	1219	1318	1317	11	0.350	2.500E+03z 1.000E+03+	1.000	0.000	0.000
11	11012	1219	1220	1319	1318	11	0.350	2.500E+03z 1.000E+03+	1.000	0.000	0.000
11	11013	1220	1221	1320	1319	11	0.350	2.500E+03z 1.000E+03+	1.000	0.000	0.000
11	11014	1221	1222	1321	1320	11	0.350	2.500E+03z 1.000E+03+	1.000	0.000	0.000
11	11015	1222	1223	1322	1321	11	0.350	2.500E+03z 1.000E+03+	1.000	0.000	0.000
11	11016	1223	1224	1323	1322	11	0.350	2.500E+03z 1.000E+03+	1.000	0.000	0.000
11	11017	1224	1225	1324	1323	11	0.350	2.500E+03z 1.000E+03+	1.000	0.000	0.000
11	11018	1225	1226	1325	1324	11	0.350	2.500E+03z 1.000E+03+	1.000	0.000	0.000
11	11019	1226	1227	1326	1325	11	0.350	2.500E+03z 1.000E+03+	1.000	0.000	0.000
11	11020	1227	1228	1327	1326	11	0.350	2.500E+03z 1.000E+03+	1.000	0.000	0.000
11	11021	1228	1229	1328	1327	11	0.350	2.500E+03z 1.000E+03+	1.000	0.000	0.000
11	11022	1229	1230	1329	1328	11	0.350	2.500E+03z 1.000E+03+	1.000	0.000	0.000
11	11023	1230	1231	1330	1329	11	0.350	2.500E+03z 1.000E+03+	1.000	0.000	0.000
11	11024	1231	1232	1331	1330	11	0.350	2.500E+03z 1.000E+03+	1.000	0.000	0.000
11	11025	1232	2	1207	1331	11	0.350	2.500E+03z 1.000E+03+	1.000	0.000	0.000
11	11026	1205	1308	1233	11	11	0.350	2.500E+03z 1.000E+03+	1.000	0.000	0.000
11	11027	1308	1309	1234	1233	11	0.350	2.500E+03z 1.000E+03+	1.000	0.000	0.000
11	11028	1309	1310	1235	1234	11	0.350	2.500E+03z 1.000E+03+	1.000	0.000	0.000
11	11029	1310	1311	1236	1235	11	0.350	2.500E+03z 1.000E+03+	1.000	0.000	0.000
11	11030	1311	1312	1237	1236	11	0.350	2.500E+03z 1.000E+03+	1.000	0.000	0.000
11	11031	1312	1313	1238	1237	11	0.350	2.500E+03z 1.000E+03+	1.000	0.000	0.000
11	11032	1313	1314	1239	1238	11	0.350	2.500E+03z 1.000E+03+	1.000	0.000	0.000
11	11033	1314	1315	1240	1239	11	0.350	2.500E+03z 1.000E+03+	1.000	0.000	0.000
11	11034	1315	1316	1241	1240	11	0.350	2.500E+03z 1.000E+03+	1.000	0.000	0.000
11	11035	1316	1317	1242	1241	11	0.350	2.500E+03z 1.000E+03+	1.000	0.000	0.000
11	11036	1317	1318	1243	1242	11	0.350	2.500E+03z 1.000E+03+	1.000	0.000	0.000
11	11037	1318	1319	1244	1243	11	0.350	2.500E+03z 1.000E+03+	1.000	0.000	0.000
11	11038	1319	1320	1245	1244	11	0.350	2.500E+03z 1.000E+03+	1.000	0.000	0.000
11	11039	1320	1321	1246	1245	11	0.350	2.500E+03z 1.000E+03+	1.000	0.000	0.000
11	11040	1321	1322	1247	1246	11	0.350	2.500E+03z 1.000E+03+	1.000	0.000	0.000

ΤΑΦΡΟΣ T1 (3.00x2.80x1.50)m
ΟΡΙΣΜΟΣ ΓΕΩΜΕΤΡΙΑΣ ΦΟΡΕΑ

Flat Elements

Grp	Number	Node	Node	Node	Node	MNo	t[m]	C[kN/m3]	direction local x		
11	11041	1322	1323	1248	1247	11	0.350	2.500E+03z 1.000E+03+	1.000	0.000	0.000
11	11042	1323	1324	1249	1248	11	0.350	2.500E+03z 1.000E+03+	1.000	0.000	0.000
11	11043	1324	1325	1250	1249	11	0.350	2.500E+03z 1.000E+03+	1.000	0.000	0.000
11	11044	1325	1326	1251	1250	11	0.350	2.500E+03z 1.000E+03+	1.000	0.000	0.000
11	11045	1326	1327	1252	1251	11	0.350	2.500E+03z 1.000E+03+	1.000	0.000	0.000
11	11046	1327	1328	1253	1252	11	0.350	2.500E+03z 1.000E+03+	1.000	0.000	0.000
11	11047	1328	1329	1254	1253	11	0.350	2.500E+03z 1.000E+03+	1.000	0.000	0.000
11	11048	1329	1330	1255	1254	11	0.350	2.500E+03z 1.000E+03+	1.000	0.000	0.000
11	11049	1330	1331	1256	1255	11	0.350	2.500E+03z 1.000E+03+	1.000	0.000	0.000
11	11050	1331	1207	12	1256	11	0.350	2.500E+03z 1.000E+03+	1.000	0.000	0.000
11	11051	11	1233	1332	1206	11	0.350	2.500E+03z 1.000E+03+	1.000	0.000	0.000
11	11052	1233	1234	1333	1332	11	0.350	2.500E+03z 1.000E+03+	1.000	0.000	0.000
11	11053	1234	1235	1334	1333	11	0.350	2.500E+03z 1.000E+03+	1.000	0.000	0.000
11	11054	1235	1236	1335	1334	11	0.350	2.500E+03z 1.000E+03+	1.000	0.000	0.000
11	11055	1236	1237	1336	1335	11	0.350	2.500E+03z 1.000E+03+	1.000	0.000	0.000
11	11056	1237	1238	1337	1336	11	0.350	2.500E+03z 1.000E+03+	1.000	0.000	0.000
11	11057	1238	1239	1338	1337	11	0.350	2.500E+03z 1.000E+03+	1.000	0.000	0.000
11	11058	1239	1240	1339	1338	11	0.350	2.500E+03z 1.000E+03+	1.000	0.000	0.000
11	11059	1240	1241	1340	1339	11	0.350	2.500E+03z 1.000E+03+	1.000	0.000	0.000
11	11060	1241	1242	1341	1340	11	0.350	2.500E+03z 1.000E+03+	1.000	0.000	0.000
11	11061	1242	1243	1342	1341	11	0.350	2.500E+03z 1.000E+03+	1.000	0.000	0.000
11	11062	1243	1244	1343	1342	11	0.350	2.500E+03z 1.000E+03+	1.000	0.000	0.000
11	11063	1244	1245	1344	1343	11	0.350	2.500E+03z 1.000E+03+	1.000	0.000	0.000
11	11064	1245	1246	1345	1344	11	0.350	2.500E+03z 1.000E+03+	1.000	0.000	0.000
11	11065	1246	1247	1346	1345	11	0.350	2.500E+03z 1.000E+03+	1.000	0.000	0.000
11	11066	1247	1248	1347	1346	11	0.350	2.500E+03z 1.000E+03+	1.000	0.000	0.000
11	11067	1248	1249	1348	1347	11	0.350	2.500E+03z 1.000E+03+	1.000	0.000	0.000
11	11068	1249	1250	1349	1348	11	0.350	2.500E+03z 1.000E+03+	1.000	0.000	0.000
11	11069	1250	1251	1350	1349	11	0.350	2.500E+03z 1.000E+03+	1.000	0.000	0.000
11	11070	1251	1252	1351	1350	11	0.350	2.500E+03z 1.000E+03+	1.000	0.000	0.000
11	11071	1252	1253	1352	1351	11	0.350	2.500E+03z 1.000E+03+	1.000	0.000	0.000
11	11072	1253	1254	1353	1352	11	0.350	2.500E+03z 1.000E+03+	1.000	0.000	0.000
11	11073	1254	1255	1354	1353	11	0.350	2.500E+03z 1.000E+03+	1.000	0.000	0.000
11	11074	1255	1256	1355	1354	11	0.350	2.500E+03z 1.000E+03+	1.000	0.000	0.000
11	11075	1256	12	1208	1355	11	0.350	2.500E+03z 1.000E+03+	1.000	0.000	0.000
11	11076	1206	1332	1007	21	11	0.350	2.500E+03z 1.000E+03+	1.000	0.000	0.000
11	11077	1332	1333	1008	1007	11	0.350	2.500E+03z 1.000E+03+	1.000	0.000	0.000
11	11078	1333	1334	1009	1008	11	0.350	2.500E+03z 1.000E+03+	1.000	0.000	0.000
11	11079	1334	1335	1010	1009	11	0.350	2.500E+03z 1.000E+03+	1.000	0.000	0.000

ΤΑΦΡΟΣ T1 (3.00x2.80x1.50)m
ΟΡΙΣΜΟΣ ΓΕΩΜΕΤΡΙΑΣ ΦΟΡΕΑ

Flat Elements

Grp	Number	Node	Node	Node	Node	MNo	t[m]	C[kN/m3]	direction local x		
11	11080	1335	1336	1011	1010	11	0.350	2.500E+03z 1.000E+03+	1.000	0.000	0.000
11	11081	1336	1337	1012	1011	11	0.350	2.500E+03z 1.000E+03+	1.000	0.000	0.000
11	11082	1337	1338	1013	1012	11	0.350	2.500E+03z 1.000E+03+	1.000	0.000	0.000
11	11083	1338	1339	1014	1013	11	0.350	2.500E+03z 1.000E+03+	1.000	0.000	0.000
11	11084	1339	1340	1015	1014	11	0.350	2.500E+03z 1.000E+03+	1.000	0.000	0.000
11	11085	1340	1341	1016	1015	11	0.350	2.500E+03z 1.000E+03+	1.000	0.000	0.000
11	11086	1341	1342	1017	1016	11	0.350	2.500E+03z 1.000E+03+	1.000	0.000	0.000
11	11087	1342	1343	1018	1017	11	0.350	2.500E+03z 1.000E+03+	1.000	0.000	0.000
11	11088	1343	1344	1019	1018	11	0.350	2.500E+03z 1.000E+03+	1.000	0.000	0.000
11	11089	1344	1345	1020	1019	11	0.350	2.500E+03z 1.000E+03+	1.000	0.000	0.000
11	11090	1345	1346	1021	1020	11	0.350	2.500E+03z 1.000E+03+	1.000	0.000	0.000
11	11091	1346	1347	1022	1021	11	0.350	2.500E+03z 1.000E+03+	1.000	0.000	0.000
11	11092	1347	1348	1023	1022	11	0.350	2.500E+03z 1.000E+03+	1.000	0.000	0.000
11	11093	1348	1349	1024	1023	11	0.350	2.500E+03z 1.000E+03+	1.000	0.000	0.000
11	11094	1349	1350	1025	1024	11	0.350	2.500E+03z 1.000E+03+	1.000	0.000	0.000
11	11095	1350	1351	1026	1025	11	0.350	2.500E+03z 1.000E+03+	1.000	0.000	0.000
11	11096	1351	1352	1027	1026	11	0.350	2.500E+03z 1.000E+03+	1.000	0.000	0.000
11	11097	1352	1353	1028	1027	11	0.350	2.500E+03z 1.000E+03+	1.000	0.000	0.000
11	11098	1353	1354	1029	1028	11	0.350	2.500E+03z 1.000E+03+	1.000	0.000	0.000
11	11099	1354	1355	1030	1029	11	0.350	2.500E+03z 1.000E+03+	1.000	0.000	0.000
11	11100	1355	1208	22	1030	11	0.350	2.500E+03z 1.000E+03+	1.000	0.000	0.000
11	11101	31	1031	1357	1257	11	0.350	2.500E+03z 1.000E+03+	1.000	0.000	0.000
11	11102	1031	1032	1358	1357	11	0.350	2.500E+03z 1.000E+03+	1.000	0.000	0.000
11	11103	1032	1033	1359	1358	11	0.350	2.500E+03z 1.000E+03+	1.000	0.000	0.000
11	11104	1033	1034	1360	1359	11	0.350	2.500E+03z 1.000E+03+	1.000	0.000	0.000
11	11105	1034	1035	1361	1360	11	0.350	2.500E+03z 1.000E+03+	1.000	0.000	0.000
11	11106	1035	1036	1362	1361	11	0.350	2.500E+03z 1.000E+03+	1.000	0.000	0.000
11	11107	1036	1037	1363	1362	11	0.350	2.500E+03z 1.000E+03+	1.000	0.000	0.000
11	11108	1037	1038	1364	1363	11	0.350	2.500E+03z 1.000E+03+	1.000	0.000	0.000
11	11109	1038	1039	1365	1364	11	0.350	2.500E+03z 1.000E+03+	1.000	0.000	0.000
11	11110	1039	1040	1366	1365	11	0.350	2.500E+03z 1.000E+03+	1.000	0.000	0.000
11	11111	1040	1041	1367	1366	11	0.350	2.500E+03z 1.000E+03+	1.000	0.000	0.000
11	11112	1041	1042	1368	1367	11	0.350	2.500E+03z 1.000E+03+	1.000	0.000	0.000
11	11113	1042	1043	1369	1368	11	0.350	2.500E+03z 1.000E+03+	1.000	0.000	0.000
11	11114	1043	1044	1370	1369	11	0.350	2.500E+03z 1.000E+03+	1.000	0.000	0.000
11	11115	1044	1045	1371	1370	11	0.350	2.500E+03z 1.000E+03+	1.000	0.000	0.000
11	11116	1045	1046	1372	1371	11	0.350	2.500E+03z 1.000E+03+	1.000	0.000	0.000
11	11117	1046	1047	1373	1372	11	0.350	2.500E+03z 1.000E+03+	1.000	0.000	0.000
11	11118	1047	1048	1374	1373	11	0.350	2.500E+03z 1.000E+03+	1.000	0.000	0.000

ΤΑΦΡΟΣ T1 (3.00x2.80x1.50)m
ΟΡΙΣΜΟΣ ΓΕΩΜΕΤΡΙΑΣ ΦΟΡΕΑ

Flat Elements

Grp	Number	Node	Node	Node	Node	MNo	t[m]	C[kN/m3]	direction local x		
11	11119	1048	1049	1375	1374	11	0.350	2.500E+03z 1.000E+03+	1.000	0.000	0.000
11	11120	1049	1050	1376	1375	11	0.350	2.500E+03z 1.000E+03+	1.000	0.000	0.000
11	11121	1050	1051	1377	1376	11	0.350	2.500E+03z 1.000E+03+	1.000	0.000	0.000
11	11122	1051	1052	1378	1377	11	0.350	2.500E+03z 1.000E+03+	1.000	0.000	0.000
11	11123	1052	1053	1379	1378	11	0.350	2.500E+03z 1.000E+03+	1.000	0.000	0.000
11	11124	1053	1054	1380	1379	11	0.350	2.500E+03z 1.000E+03+	1.000	0.000	0.000
11	11125	1054	32	1356	1380	11	0.350	2.500E+03z 1.000E+03+	1.000	0.000	0.000
11	11126	1257	1357	1260	41	11	0.350	2.500E+03z 1.000E+03+	1.000	0.000	0.000
11	11127	1357	1358	1261	1260	11	0.350	2.500E+03z 1.000E+03+	1.000	0.000	0.000
11	11128	1358	1359	1262	1261	11	0.350	2.500E+03z 1.000E+03+	1.000	0.000	0.000
11	11129	1359	1360	1263	1262	11	0.350	2.500E+03z 1.000E+03+	1.000	0.000	0.000
11	11130	1360	1361	1264	1263	11	0.350	2.500E+03z 1.000E+03+	1.000	0.000	0.000
11	11131	1361	1362	1265	1264	11	0.350	2.500E+03z 1.000E+03+	1.000	0.000	0.000
11	11132	1362	1363	1266	1265	11	0.350	2.500E+03z 1.000E+03+	1.000	0.000	0.000
11	11133	1363	1364	1267	1266	11	0.350	2.500E+03z 1.000E+03+	1.000	0.000	0.000
11	11134	1364	1365	1268	1267	11	0.350	2.500E+03z 1.000E+03+	1.000	0.000	0.000
11	11135	1365	1366	1269	1268	11	0.350	2.500E+03z 1.000E+03+	1.000	0.000	0.000
11	11136	1366	1367	1270	1269	11	0.350	2.500E+03z 1.000E+03+	1.000	0.000	0.000
11	11137	1367	1368	1271	1270	11	0.350	2.500E+03z 1.000E+03+	1.000	0.000	0.000
11	11138	1368	1369	1272	1271	11	0.350	2.500E+03z 1.000E+03+	1.000	0.000	0.000
11	11139	1369	1370	1273	1272	11	0.350	2.500E+03z 1.000E+03+	1.000	0.000	0.000
11	11140	1370	1371	1274	1273	11	0.350	2.500E+03z 1.000E+03+	1.000	0.000	0.000
11	11141	1371	1372	1275	1274	11	0.350	2.500E+03z 1.000E+03+	1.000	0.000	0.000
11	11142	1372	1373	1276	1275	11	0.350	2.500E+03z 1.000E+03+	1.000	0.000	0.000
11	11143	1373	1374	1277	1276	11	0.350	2.500E+03z 1.000E+03+	1.000	0.000	0.000
11	11144	1374	1375	1278	1277	11	0.350	2.500E+03z 1.000E+03+	1.000	0.000	0.000
11	11145	1375	1376	1279	1278	11	0.350	2.500E+03z 1.000E+03+	1.000	0.000	0.000
11	11146	1376	1377	1280	1279	11	0.350	2.500E+03z 1.000E+03+	1.000	0.000	0.000
11	11147	1377	1378	1281	1280	11	0.350	2.500E+03z 1.000E+03+	1.000	0.000	0.000
11	11148	1378	1379	1282	1281	11	0.350	2.500E+03z 1.000E+03+	1.000	0.000	0.000
11	11149	1379	1380	1283	1282	11	0.350	2.500E+03z 1.000E+03+	1.000	0.000	0.000
11	11150	1380	1356	42	1283	11	0.350	2.500E+03z 1.000E+03+	1.000	0.000	0.000
11	11151	41	1260	1381	1258	11	0.350	2.500E+03z 1.000E+03+	1.000	0.000	0.000
11	11152	1260	1261	1382	1381	11	0.350	2.500E+03z 1.000E+03+	1.000	0.000	0.000
11	11153	1261	1262	1383	1382	11	0.350	2.500E+03z 1.000E+03+	1.000	0.000	0.000
11	11154	1262	1263	1384	1383	11	0.350	2.500E+03z 1.000E+03+	1.000	0.000	0.000
11	11155	1263	1264	1385	1384	11	0.350	2.500E+03z 1.000E+03+	1.000	0.000	0.000
11	11156	1264	1265	1386	1385	11	0.350	2.500E+03z 1.000E+03+	1.000	0.000	0.000
11	11157	1265	1266	1387	1386	11	0.350	2.500E+03z 1.000E+03+	1.000	0.000	0.000

ΤΑΦΡΟΣ T1 (3.00x2.80x1.50)m
ΟΡΙΣΜΟΣ ΓΕΩΜΕΤΡΙΑΣ ΦΟΡΕΑ

Flat Elements

Grp	Number	Node	Node	Node	Node	MNo	t[m]	C[kN/m3]	direction local x		
11	11158	1266	1267	1388	1387	11	0.350	2.500E+03z 1.000E+03+	1.000	0.000	0.000
11	11159	1267	1268	1389	1388	11	0.350	2.500E+03z 1.000E+03+	1.000	0.000	0.000
11	11160	1268	1269	1390	1389	11	0.350	2.500E+03z 1.000E+03+	1.000	0.000	0.000
11	11161	1269	1270	1391	1390	11	0.350	2.500E+03z 1.000E+03+	1.000	0.000	0.000
11	11162	1270	1271	1392	1391	11	0.350	2.500E+03z 1.000E+03+	1.000	0.000	0.000
11	11163	1271	1272	1393	1392	11	0.350	2.500E+03z 1.000E+03+	1.000	0.000	0.000
11	11164	1272	1273	1394	1393	11	0.350	2.500E+03z 1.000E+03+	1.000	0.000	0.000
11	11165	1273	1274	1395	1394	11	0.350	2.500E+03z 1.000E+03+	1.000	0.000	0.000
11	11166	1274	1275	1396	1395	11	0.350	2.500E+03z 1.000E+03+	1.000	0.000	0.000
11	11167	1275	1276	1397	1396	11	0.350	2.500E+03z 1.000E+03+	1.000	0.000	0.000
11	11168	1276	1277	1398	1397	11	0.350	2.500E+03z 1.000E+03+	1.000	0.000	0.000
11	11169	1277	1278	1399	1398	11	0.350	2.500E+03z 1.000E+03+	1.000	0.000	0.000
11	11170	1278	1279	1400	1399	11	0.350	2.500E+03z 1.000E+03+	1.000	0.000	0.000
11	11171	1279	1280	1401	1400	11	0.350	2.500E+03z 1.000E+03+	1.000	0.000	0.000
11	11172	1280	1281	1402	1401	11	0.350	2.500E+03z 1.000E+03+	1.000	0.000	0.000
11	11173	1281	1282	1403	1402	11	0.350	2.500E+03z 1.000E+03+	1.000	0.000	0.000
11	11174	1282	1283	1404	1403	11	0.350	2.500E+03z 1.000E+03+	1.000	0.000	0.000
11	11175	1283	42	1259	1404	11	0.350	2.500E+03z 1.000E+03+	1.000	0.000	0.000
11	11176	1258	1381	1284	51	11	0.350	2.500E+03z 1.000E+03+	1.000	0.000	0.000
11	11177	1381	1382	1285	1284	11	0.350	2.500E+03z 1.000E+03+	1.000	0.000	0.000
11	11178	1382	1383	1286	1285	11	0.350	2.500E+03z 1.000E+03+	1.000	0.000	0.000
11	11179	1383	1384	1287	1286	11	0.350	2.500E+03z 1.000E+03+	1.000	0.000	0.000
11	11180	1384	1385	1288	1287	11	0.350	2.500E+03z 1.000E+03+	1.000	0.000	0.000
11	11181	1385	1386	1289	1288	11	0.350	2.500E+03z 1.000E+03+	1.000	0.000	0.000
11	11182	1386	1387	1290	1289	11	0.350	2.500E+03z 1.000E+03+	1.000	0.000	0.000
11	11183	1387	1388	1291	1290	11	0.350	2.500E+03z 1.000E+03+	1.000	0.000	0.000
11	11184	1388	1389	1292	1291	11	0.350	2.500E+03z 1.000E+03+	1.000	0.000	0.000
11	11185	1389	1390	1293	1292	11	0.350	2.500E+03z 1.000E+03+	1.000	0.000	0.000
11	11186	1390	1391	1294	1293	11	0.350	2.500E+03z 1.000E+03+	1.000	0.000	0.000
11	11187	1391	1392	1295	1294	11	0.350	2.500E+03z 1.000E+03+	1.000	0.000	0.000
11	11188	1392	1393	1296	1295	11	0.350	2.500E+03z 1.000E+03+	1.000	0.000	0.000
11	11189	1393	1394	1297	1296	11	0.350	2.500E+03z 1.000E+03+	1.000	0.000	0.000
11	11190	1394	1395	1298	1297	11	0.350	2.500E+03z 1.000E+03+	1.000	0.000	0.000
11	11191	1395	1396	1299	1298	11	0.350	2.500E+03z 1.000E+03+	1.000	0.000	0.000
11	11192	1396	1397	1300	1299	11	0.350	2.500E+03z 1.000E+03+	1.000	0.000	0.000
11	11193	1397	1398	1301	1300	11	0.350	2.500E+03z 1.000E+03+	1.000	0.000	0.000
11	11194	1398	1399	1302	1301	11	0.350	2.500E+03z 1.000E+03+	1.000	0.000	0.000
11	11195	1399	1400	1303	1302	11	0.350	2.500E+03z 1.000E+03+	1.000	0.000	0.000
11	11196	1400	1401	1304	1303	11	0.350	2.500E+03z 1.000E+03+	1.000	0.000	0.000

ΤΑΦΡΟΣ Τ1 (3.00x2.80x1.50)m
ΟΡΙΣΜΟΣ ΓΕΩΜΕΤΡΙΑΣ ΦΟΡΕΑ

Flat Elements

Grp	Number	Node	Node	Node	Node	MNo	t[m]	C[kN/m3]	direction local x		
11	11197	1401	1402	1305	1304	11	0.350	2.500E+03z 1.000E+03+	1.000	0.000	0.000
11	11198	1402	1403	1306	1305	11	0.350	2.500E+03z 1.000E+03+	1.000	0.000	0.000
11	11199	1403	1404	1307	1306	11	0.350	2.500E+03z 1.000E+03+	1.000	0.000	0.000
11	11200	1404	1259	52	1307	11	0.350	2.500E+03z 1.000E+03+	1.000	0.000	0.000
22	22001	11	1583	1585	1233	22	0.350		0.000	1.000	0.000
22	22002	1583	111	1415	1585	22	0.350		0.000	1.000	0.000
22	22003	1233	1585	1586	1234	22	0.350		0.000	1.000	0.000
22	22004	1585	1415	1416	1586	22	0.350		0.000	1.000	0.000
22	22005	1234	1586	1587	1235	22	0.350		0.000	1.000	0.000
22	22006	1586	1416	1417	1587	22	0.350		0.000	1.000	0.000
22	22007	1235	1587	1588	1236	22	0.350		0.000	-1.000	0.000
22	22008	1587	1417	1418	1588	22	0.350		0.000	-1.000	0.000
22	22009	1236	1588	1589	1237	22	0.350		0.000	1.000	0.000
22	22010	1588	1418	1419	1589	22	0.350		0.000	1.000	0.000
22	22011	1237	1589	1590	1238	22	0.350		0.000	1.000	0.000
22	22012	1589	1419	1420	1590	22	0.350		0.000	1.000	0.000
22	22013	1238	1590	1591	1239	22	0.350		0.000	1.000	0.000
22	22014	1590	1420	1421	1591	22	0.350		0.000	1.000	0.000
22	22015	1239	1591	1592	1240	22	0.350		0.000	1.000	0.000
22	22016	1591	1421	1422	1592	22	0.350		0.000	1.000	0.000
22	22017	1240	1592	1593	1241	22	0.350		0.000	1.000	0.000
22	22018	1592	1422	1423	1593	22	0.350		0.000	1.000	0.000
22	22019	1241	1593	1594	1242	22	0.350		0.000	1.000	0.000
22	22020	1593	1423	1424	1594	22	0.350		0.000	1.000	0.000
22	22021	1242	1594	1595	1243	22	0.350		0.000	-1.000	0.000
22	22022	1594	1424	1425	1595	22	0.350		0.000	-1.000	0.000
22	22023	1243	1595	1596	1244	22	0.350		0.000	1.000	0.000
22	22024	1595	1425	1426	1596	22	0.350		0.000	1.000	0.000
22	22025	1244	1596	1597	1245	22	0.350		0.000	1.000	0.000
22	22026	1596	1426	1427	1597	22	0.350		0.000	1.000	0.000
22	22027	1245	1597	1598	1246	22	0.350		0.000	1.000	0.000
22	22028	1597	1427	1428	1598	22	0.350		0.000	1.000	0.000
22	22029	1246	1598	1599	1247	22	0.350		0.000	1.000	0.000
22	22030	1598	1428	1429	1599	22	0.350		0.000	1.000	0.000
22	22031	1247	1599	1600	1248	22	0.350		0.000	1.000	0.000
22	22032	1599	1429	1430	1600	22	0.350		0.000	1.000	0.000
22	22033	1248	1600	1601	1249	22	0.350		0.000	1.000	0.000
22	22034	1600	1430	1431	1601	22	0.350		0.000	1.000	0.000
22	22035	1249	1601	1602	1250	22	0.350		0.000	1.000	0.000
22	22036	1601	1431	1432	1602	22	0.350		0.000	1.000	0.000
22	22037	1250	1602	1603	1251	22	0.350		0.000	1.000	0.000
22	22038	1602	1432	1433	1603	22	0.350		0.000	1.000	0.000
22	22039	1251	1603	1604	1252	22	0.350		0.000	1.000	0.000
22	22040	1603	1433	1434	1604	22	0.350		0.000	1.000	0.000
22	22041	1252	1604	1605	1253	22	0.350		0.000	1.000	0.000
22	22042	1604	1434	1435	1605	22	0.350		0.000	1.000	0.000
22	22043	1253	1605	1606	1254	22	0.350		0.000	1.000	0.000
22	22044	1605	1435	1436	1606	22	0.350		0.000	1.000	0.000
22	22045	1254	1606	1607	1255	22	0.350		0.000	1.000	0.000
22	22046	1606	1436	1437	1607	22	0.350		0.000	1.000	0.000
22	22047	1255	1607	1608	1256	22	0.350		0.000	1.000	0.000
22	22048	1607	1437	1438	1608	22	0.350		0.000	1.000	0.000
22	22049	1256	1608	1584	12	22	0.350		0.000	1.000	0.000
22	22050	1608	1438	112	1584	22	0.350		0.000	1.000	0.000
33	33001	41	1260	1737	1735	22	0.350		0.000	1.000	0.000
33	33002	1260	1261	1738	1737	22	0.350		0.000	1.000	0.000
33	33003	1261	1262	1739	1738	22	0.350		0.000	1.000	0.000
33	33004	1262	1263	1740	1739	22	0.350		0.000	1.000	0.000
33	33005	1263	1264	1741	1740	22	0.350		0.000	1.000	0.000
33	33006	1264	1265	1742	1741	22	0.350		0.000	1.000	0.000
33	33007	1265	1266	1743	1742	22	0.350		0.000	1.000	0.000
33	33008	1266	1267	1744	1743	22	0.350		0.000	1.000	0.000
33	33009	1267	1268	1745	1744	22	0.350		0.000	1.000	0.000
33	33010	1268	1269	1746	1745	22	0.350		0.000	1.000	0.000
33	33011	1269	1270	1747	1746	22	0.350		0.000	1.000	0.000
33	33012	1270	1271	1748	1747	22	0.350		0.000	1.000	0.000
33	33013	1271	1272	1749	1748	22	0.350		0.000	1.000	0.000
33	33014	1272	1273	1750	1749	22	0.350		0.000	1.000	0.000
33	33015	1273	1274	1751	1750	22	0.350		0.000	1.000	0.000
33	33016	1274	1275	1752	1751	22	0.350		0.000	1.000	0.000
33	33017	1275	1276	1753	1752	22	0.350		0.000	1.000	0.000
33	33018	1276	1277	1754	1753	22	0.350		0.000	1.000	0.000
33	33019	1277	1278	1755	1754	22	0.350		0.000	1.000	0.000
33	33020	1278	1279	1756	1755	22	0.350		0.000	1.000	0.000
33	33021	1279	1280	1757	1756	22	0.350		0.000	1.000	0.000

ΤΑΦΡΟΣ Τ1 (3.00x2.80x1.50)m
ΟΡΙΣΜΟΣ ΓΕΩΜΕΤΡΙΑΣ ΦΟΡΕΑ

Flat Elements

Grp	Number	Node	Node	Node	Node	MNo	t[m]	C[kN/m3]	direction local x		
33	33022	1280	1281	1758	1757	22	0.350		0.000	1.000	0.000
33	33023	1281	1282	1759	1758	22	0.350		0.000	1.000	0.000
33	33024	1282	1283	1760	1759	22	0.350		0.000	1.000	0.000
33	33025	1283	42	1736	1760	22	0.350		0.000	1.000	0.000
33	33026	1735	1737	1615	141	22	0.350		0.000	1.000	0.000
33	33027	1737	1738	1616	1615	22	0.350		0.000	1.000	0.000
33	33028	1738	1739	1617	1616	22	0.350		0.000	1.000	0.000
33	33029	1739	1740	1618	1617	22	0.350		0.000	1.000	0.000
33	33030	1740	1741	1619	1618	22	0.350		0.000	1.000	0.000
33	33031	1741	1742	1620	1619	22	0.350		0.000	1.000	0.000
33	33032	1742	1743	1621	1620	22	0.350		0.000	1.000	0.000
33	33033	1743	1744	1622	1621	22	0.350		0.000	1.000	0.000
33	33034	1744	1745	1623	1622	22	0.350		0.000	1.000	0.000
33	33035	1745	1746	1624	1623	22	0.350		0.000	1.000	0.000
33	33036	1746	1747	1625	1624	22	0.350		0.000	1.000	0.000
33	33037	1747	1748	1626	1625	22	0.350		0.000	1.000	0.000
33	33038	1748	1749	1627	1626	22	0.350		0.000	1.000	0.000
33	33039	1749	1750	1628	1627	22	0.350		0.000	1.000	0.000
33	33040	1750	1751	1629	1628	22	0.350		0.000	1.000	0.000
33	33041	1751	1752	1630	1629	22	0.350		0.000	1.000	0.000
33	33042	1752	1753	1631	1630	22	0.350		0.000	1.000	0.000
33	33043	1753	1754	1632	1631	22	0.350		0.000	1.000	0.000
33	33044	1754	1755	1633	1632	22	0.350		0.000	1.000	0.000
33	33045	1755	1756	1634	1633	22	0.350		0.000	1.000	0.000
33	33046	1756	1757	1635	1634	22	0.350		0.000	1.000	0.000
33	33047	1757	1758	1636	1635	22	0.350		0.000	1.000	0.000
33	33048	1758	1759	1637	1636	22	0.350		0.000	1.000	0.000
33	33049	1759	1760	1638	1637	22	0.350		0.000	1.000	0.000
33	33050	1760	1736	142	1638	22	0.350		0.000	1.000	0.000

+ after C :Bedding only perpendicular (local z)
+ after C :Bedding only tangential (local x and y)

Spring Elements

Grp	Number	Node	Node	dX[-] e-P[-]	dY[-] e-T[-]	dZ[-] e-M[-]	CP[kN/m] DP[kNsec/m]	CT[kN/m] DT[kNsec/m]	CM[kNm] DM[kNmsec]
6	6001	11		-1.000	0.000	0.000	1.995E+03		
6	6002	111		-1.000	0.000	0.000	1.995E+03		
6	6003	211		-1.000	0.000	0.000	1.995E+03		
6	6004	1233		-1.000	0.000	0.000	1.995E+03		
6	6005	1234		-1.000	0.000	0.000	1.995E+03		
6	6006	1235		-1.000	0.000	0.000	1.995E+03		
6	6007	1236		-1.000	0.000	0.000	1.995E+03		
6	6008	1237		-1.000	0.000	0.000	1.995E+03		
6	6009	1238		-1.000	0.000	0.000	1.995E+03		
6	6010	1239		-1.000	0.000	0.000	1.995E+03		
6	6011	1240		-1.000	0.000	0.000	1.995E+03		
6	6012	1241		-1.000	0.000	0.000	1.995E+03		
6	6013	1242		-1.000	0.000	0.000	1.995E+03		
6	6014	1243		-1.000	0.000	0.000	1.995E+03		
6	6015	1244		-1.000	0.000	0.000	1.995E+03		
6	6016	1245		-1.000	0.000	0.000	1.995E+03		
6	6017	1246		-1.000	0.000	0.000	1.995E+03		
6	6018	1247		-1.000	0.000	0.000	1.995E+03		
6	6019	1248		-1.000	0.000	0.000	1.995E+03		
6	6020	1249		-1.000	0.000	0.000	1.995E+03		
6	6021	1250		-1.000	0.000	0.000	1.995E+03		
6	6022	1251		-1.000	0.000	0.000	1.995E+03		
6	6023	1252		-1.000	0.000	0.000	1.995E+03		
6	6024	1253		-1.000	0.000	0.000	1.995E+03		
6	6025	1254		-1.000	0.000	0.000	1.995E+03		
6	6026	1255		-1.000	0.000	0.000	1.995E+03		
6	6027	1256		-1.000	0.000	0.000	1.995E+03		
6	6028	1405		-1.000	0.000	0.000	1.995E+03		
6	6029	1406		-1.000	0.000	0.000	1.995E+03		
6	6030	1407		-1.000	0.000	0.000	1.995E+03		
6	6031	1408		-1.000	0.000	0.000	1.995E+03		
6	6032	1409		-1.000	0.000	0.000	1.995E+03		
6	6033	1415		-1.000	0.000	0.000	1.995E+03		
6	6034	1416		-1.000	0.000	0.000	1.995E+03		
6	6035	1417		-1.000	0.000	0.000	1.995E+03		
6	6036	1418		-1.000	0.000	0.000	1.995E+03		
6	6037	1419		-1.000	0.000	0.000	1.995E+03		
6	6038	1420		-1.000	0.000	0.000	1.995E+03		
6	6039	1421		-1.000	0.000	0.000	1.995E+03		
6	6040	1422		-1.000	0.000	0.000	1.995E+03		
6	6041	1423		-1.000	0.000	0.000	1.995E+03		
6	6042	1424		-1.000	0.000	0.000	1.995E+03		
6	6043	1425		-1.000	0.000	0.000	1.995E+03		
6	6044	1426		-1.000	0.000	0.000	1.995E+03		

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ΤΑΦΡΟΣ Τ1 (3.00x2.80x1.50)m
ΟΡΙΣΜΟΣ ΓΕΩΜΕΤΡΙΑΣ ΦΟΡΕΑ

Spring Elements

Grp	Number	Node	Node	dX[-]	dY[-]	dZ[-]	CP[kN/m]	CT[kN/m]	CM[kNm]
				e-P[-]	e-T[-]	e-M[-]	DP[kNsec/m]	DT[kNsec/m]	DM[kNmsec]
6	6045	1427		-1.000	0.000	0.000	1.995E+03		
6	6046	1428		-1.000	0.000	0.000	1.995E+03		
6	6047	1429		-1.000	0.000	0.000	1.995E+03		
6	6048	1430		-1.000	0.000	0.000	1.995E+03		
6	6049	1431		-1.000	0.000	0.000	1.995E+03		
6	6050	1432		-1.000	0.000	0.000	1.995E+03		
6	6051	1433		-1.000	0.000	0.000	1.995E+03		
6	6052	1434		-1.000	0.000	0.000	1.995E+03		
6	6053	1435		-1.000	0.000	0.000	1.995E+03		
6	6054	1436		-1.000	0.000	0.000	1.995E+03		
6	6055	1437		-1.000	0.000	0.000	1.995E+03		
6	6056	1438		-1.000	0.000	0.000	1.995E+03		
6	6057	1439		-1.000	0.000	0.000	1.995E+03		
6	6058	1440		-1.000	0.000	0.000	1.995E+03		
6	6059	1441		-1.000	0.000	0.000	1.995E+03		
6	6060	1442		-1.000	0.000	0.000	1.995E+03		
6	6061	1443		-1.000	0.000	0.000	1.995E+03		
6	6062	1444		-1.000	0.000	0.000	1.995E+03		
6	6063	1445		-1.000	0.000	0.000	1.995E+03		
6	6064	1446		-1.000	0.000	0.000	1.995E+03		
6	6065	1447		-1.000	0.000	0.000	1.995E+03		
6	6066	1448		-1.000	0.000	0.000	1.995E+03		
6	6067	1449		-1.000	0.000	0.000	1.995E+03		
6	6068	1450		-1.000	0.000	0.000	1.995E+03		
6	6069	1451		-1.000	0.000	0.000	1.995E+03		
6	6070	1452		-1.000	0.000	0.000	1.995E+03		
6	6071	1453		-1.000	0.000	0.000	1.995E+03		
6	6072	1454		-1.000	0.000	0.000	1.995E+03		
6	6073	1455		-1.000	0.000	0.000	1.995E+03		
6	6074	1456		-1.000	0.000	0.000	1.995E+03		
6	6075	1457		-1.000	0.000	0.000	1.995E+03		
6	6076	1458		-1.000	0.000	0.000	1.995E+03		
6	6077	1459		-1.000	0.000	0.000	1.995E+03		
6	6078	1460		-1.000	0.000	0.000	1.995E+03		
6	6079	1461		-1.000	0.000	0.000	1.995E+03		
6	6080	1462		-1.000	0.000	0.000	1.995E+03		
6	6081	1463		-1.000	0.000	0.000	1.995E+03		
6	6082	1464		-1.000	0.000	0.000	1.995E+03		
6	6083	1465		-1.000	0.000	0.000	1.995E+03		
6	6084	1466		-1.000	0.000	0.000	1.995E+03		
6	6085	1467		-1.000	0.000	0.000	1.995E+03		
6	6086	1468		-1.000	0.000	0.000	1.995E+03		
6	6087	1469		-1.000	0.000	0.000	1.995E+03		
6	6088	1470		-1.000	0.000	0.000	1.995E+03		
6	6089	1471		-1.000	0.000	0.000	1.995E+03		
6	6090	1472		-1.000	0.000	0.000	1.995E+03		
6	6091	1473		-1.000	0.000	0.000	1.995E+03		
6	6092	1474		-1.000	0.000	0.000	1.995E+03		
6	6093	1475		-1.000	0.000	0.000	1.995E+03		
6	6094	1476		-1.000	0.000	0.000	1.995E+03		
6	6095	1477		-1.000	0.000	0.000	1.995E+03		
6	6096	1478		-1.000	0.000	0.000	1.995E+03		
6	6097	1479		-1.000	0.000	0.000	1.995E+03		
6	6098	1480		-1.000	0.000	0.000	1.995E+03		
6	6099	1481		-1.000	0.000	0.000	1.995E+03		
6	6100	1482		-1.000	0.000	0.000	1.995E+03		
6	6101	1483		-1.000	0.000	0.000	1.995E+03		
6	6102	1484		-1.000	0.000	0.000	1.995E+03		
6	6103	1485		-1.000	0.000	0.000	1.995E+03		
6	6104	1486		-1.000	0.000	0.000	1.995E+03		
6	6105	1487		-1.000	0.000	0.000	1.995E+03		
6	6106	1488		-1.000	0.000	0.000	1.995E+03		
6	6107	1489		-1.000	0.000	0.000	1.995E+03		
6	6108	1490		-1.000	0.000	0.000	1.995E+03		
6	6109	1491		-1.000	0.000	0.000	1.995E+03		
6	6110	1492		-1.000	0.000	0.000	1.995E+03		
6	6111	1493		-1.000	0.000	0.000	1.995E+03		
6	6112	1494		-1.000	0.000	0.000	1.995E+03		
6	6113	1495		-1.000	0.000	0.000	1.995E+03		
6	6114	1496		-1.000	0.000	0.000	1.995E+03		
6	6115	1497		-1.000	0.000	0.000	1.995E+03		
6	6116	1498		-1.000	0.000	0.000	1.995E+03		
6	6117	1499		-1.000	0.000	0.000	1.995E+03		
6	6118	1500		-1.000	0.000	0.000	1.995E+03		
6	6119	1501		-1.000	0.000	0.000	1.995E+03		
6	6120	1502		-1.000	0.000	0.000	1.995E+03		
6	6121	1503		-1.000	0.000	0.000	1.995E+03		
6	6122	1504		-1.000	0.000	0.000	1.995E+03		

ΤΑΦΡΟΣ Τ1 (3.00x2.80x1.50)m
ΟΡΙΣΜΟΣ ΓΕΩΜΕΤΡΙΑΣ ΦΟΡΕΑ

Spring Elements

Grp	Number	Node	Node	dX[-]	dY[-]	dZ[-]	CP[kN/m]	CT[kN/m]	CM[kNm]
				e-P[-]	e-T[-]	e-M[-]	DP[kNsec/m]	DT[kNsec/m]	DM[kNmsec]
6	6123	1505		-1.000	0.000	0.000	1.995E+03		
6	6124	1506		-1.000	0.000	0.000	1.995E+03		
6	6125	1507		-1.000	0.000	0.000	1.995E+03		
6	6126	1508		-1.000	0.000	0.000	1.995E+03		
6	6127	1509		-1.000	0.000	0.000	1.995E+03		
6	6128	1510		-1.000	0.000	0.000	1.995E+03		
6	6129	1511		-1.000	0.000	0.000	1.995E+03		
6	6130	1512		-1.000	0.000	0.000	1.995E+03		
6	6131	1513		-1.000	0.000	0.000	1.995E+03		
6	6132	1514		-1.000	0.000	0.000	1.995E+03		
6	6133	1515		-1.000	0.000	0.000	1.995E+03		
6	6134	1516		-1.000	0.000	0.000	1.995E+03		
6	6135	1517		-1.000	0.000	0.000	1.995E+03		
6	6136	1518		-1.000	0.000	0.000	1.995E+03		
6	6137	1519		-1.000	0.000	0.000	1.995E+03		
6	6138	1520		-1.000	0.000	0.000	1.995E+03		
6	6139	1521		-1.000	0.000	0.000	1.995E+03		
6	6140	1522		-1.000	0.000	0.000	1.995E+03		
6	6141	1523		-1.000	0.000	0.000	1.995E+03		
6	6142	1524		-1.000	0.000	0.000	1.995E+03		
6	6143	1525		-1.000	0.000	0.000	1.995E+03		
6	6144	1526		-1.000	0.000	0.000	1.995E+03		
6	6145	1527		-1.000	0.000	0.000	1.995E+03		
6	6146	1528		-1.000	0.000	0.000	1.995E+03		
6	6147	1529		-1.000	0.000	0.000	1.995E+03		
6	6148	1530		-1.000	0.000	0.000	1.995E+03		
6	6149	1531		-1.000	0.000	0.000	1.995E+03		
6	6150	1532		-1.000	0.000	0.000	1.995E+03		
6	6151	1533		-1.000	0.000	0.000	1.995E+03		
6	6152	1534		-1.000	0.000	0.000	1.995E+03		
6	6153	1535		-1.000	0.000	0.000	1.995E+03		
6	6154	1536		-1.000	0.000	0.000	1.995E+03		
6	6155	1537		-1.000	0.000	0.000	1.995E+03		
6	6156	1538		-1.000	0.000	0.000	1.995E+03		
6	6157	1539		-1.000	0.000	0.000	1.995E+03		
6	6158	1540		-1.000	0.000	0.000	1.995E+03		
6	6159	1541		-1.000	0.000	0.000	1.995E+03		
6	6160	1542		-1.000	0.000	0.000	1.995E+03		
6	6161	1543		-1.000	0.000	0.000	1.995E+03		
6	6162	1544		-1.000	0.000	0.000	1.995E+03		
6	6163	1545		-1.000	0.000	0.000	1.995E+03		
6	6164	1546		-1.000	0.000	0.000	1.995E+03		
6	6165	1547		-1.000	0.000	0.000	1.995E+03		
6	6166	1548		-1.000	0.000	0.000	1.995E+03		
6	6167	1549		-1.000	0.000	0.000	1.995E+03		
6	6168	1550		-1.000	0.000	0.000	1.995E+03		
6	6169	1551		-1.000	0.000	0.000	1.995E+03		
6	6170	1552		-1.000	0.000	0.000	1.995E+03		
6	6171	1553		-1.000	0.000	0.000	1.995E+03		
6	6172	1554		-1.000	0.000	0.000	1.995E+03		
6	6173	1555		-1.000	0.000	0.000	1.995E+03		
6	6174	1556		-1.000	0.000	0.000	1.995E+03		
6	6175	1557		-1.000	0.000	0.000	1.995E+03		
6	6176	1558		-1.000	0.000	0.000	1.995E+03		
6	6177	1559		-1.000	0.000	0.000	1.995E+03		
6	6178	1560		-1.000	0.000	0.000	1.995E+03		
6	6179	1561		-1.000	0.000	0.000	1.995E+03		
6	6180	1562		-1.000	0.000	0.000	1.995E+03		
6	6181	1563		-1.000	0.000	0.000	1.995E+03		
6	6182	1564		-1.000	0.000	0.000	1.995E+03		
6	6183	1565		-1.000	0.000	0.000	1.995E+03		
6	6184	1566		-1.000	0.000	0.000	1.995E+03		
6	6185	1567		-1.000	0.000	0.000	1.995E+03		
6	6186	1568		-1.000	0.000	0.000	1.995E+03		
6	6187	1569		-1.000	0.000	0.000	1.995E+03		
6	6188	1570		-1.000	0.000	0.000	1.995E+03		
6	6189	1571		-1.000	0.000	0.000	1.995E+03		
6	6190	1572		-1.000	0.000	0.000	1.995E+03		
6	6191	1573		-1.000	0.000	0.000	1.995E+03		
6	6192	1574		-1.000	0.000	0.000	1.995E+03		
6	6193	1575		-1.000	0.000	0.000	1.995E+03		
6	6194	1576		-1.000	0.000	0.000	1.995E+03		
6	6195	1577		-1.000	0.000	0.000	1.995E+03		
6	6196	1578		-1.000	0.000	0.000	1.995E+03		
6	6197	1579		-1.000	0.000	0.000	1.995E+03		
6	6198	1580		-1.000	0.000	0.000	1.995E+03		
6	6199	1581		-1.000	0.000	0.000	1.995E+03		
6	6200	1582		-1.000	0.000	0.000	1.995E+03		

ΤΑΦΡΟΣ Τ1 (3.00x2.80x1.50)m
ΟΡΙΣΜΟΣ ΓΕΩΜΕΤΡΙΑΣ ΦΟΡΕΑ

Spring Elements

Grp	Number	Node	Node	dX[-] e-P[-]	dY[-] e-T[-]	dZ[-] e-M[-]	CP[kN/m] DP[kNsec/m]	CT[kN/m] DT[kNsec/m]	CM[kNm] DM[kNmsec]
6	6201	1583		-1.000	0.000	0.000	1.995E+03		
6	6202	1585		-1.000	0.000	0.000	1.995E+03		
6	6203	1586		-1.000	0.000	0.000	1.995E+03		
6	6204	1587		-1.000	0.000	0.000	1.995E+03		
6	6205	1588		-1.000	0.000	0.000	1.995E+03		
6	6206	1589		-1.000	0.000	0.000	1.995E+03		
6	6207	1590		-1.000	0.000	0.000	1.995E+03		
6	6208	1591		-1.000	0.000	0.000	1.995E+03		
6	6209	1592		-1.000	0.000	0.000	1.995E+03		
6	6210	1593		-1.000	0.000	0.000	1.995E+03		
6	6211	1594		-1.000	0.000	0.000	1.995E+03		
6	6212	1595		-1.000	0.000	0.000	1.995E+03		
6	6213	1596		-1.000	0.000	0.000	1.995E+03		
6	6214	1597		-1.000	0.000	0.000	1.995E+03		
6	6215	1598		-1.000	0.000	0.000	1.995E+03		
6	6216	1599		-1.000	0.000	0.000	1.995E+03		
6	6217	1600		-1.000	0.000	0.000	1.995E+03		
6	6218	1601		-1.000	0.000	0.000	1.995E+03		
6	6219	1602		-1.000	0.000	0.000	1.995E+03		
6	6220	1603		-1.000	0.000	0.000	1.995E+03		
6	6221	1604		-1.000	0.000	0.000	1.995E+03		
6	6222	1605		-1.000	0.000	0.000	1.995E+03		
6	6223	1606		-1.000	0.000	0.000	1.995E+03		
6	6224	1607		-1.000	0.000	0.000	1.995E+03		
6	6225	1608		-1.000	0.000	0.000	1.995E+03		
6	6226	12		-1.000	0.000	0.000	1.995E+03		
6	6227	112		-1.000	0.000	0.000	1.995E+03		
6	6228	212		-1.000	0.000	0.000	1.995E+03		
6	6229	1410		-1.000	0.000	0.000	1.995E+03		
6	6230	1411		-1.000	0.000	0.000	1.995E+03		
6	6231	1412		-1.000	0.000	0.000	1.995E+03		
6	6232	1413		-1.000	0.000	0.000	1.995E+03		
6	6233	1414		-1.000	0.000	0.000	1.995E+03		
6	6234	1584		-1.000	0.000	0.000	1.995E+03		
6	6235	211		-1.000	0.000	0.000	1.995E+03		
6	6236	212		-1.000	0.000	0.000	1.995E+03		
6	6237	1439		-1.000	0.000	0.000	1.995E+03		
6	6238	1440		-1.000	0.000	0.000	1.995E+03		
6	6239	1441		-1.000	0.000	0.000	1.995E+03		
6	6240	1442		-1.000	0.000	0.000	1.995E+03		
6	6241	1443		-1.000	0.000	0.000	1.995E+03		
6	6242	1444		-1.000	0.000	0.000	1.995E+03		
6	6243	1445		-1.000	0.000	0.000	1.995E+03		
6	6244	1446		-1.000	0.000	0.000	1.995E+03		
6	6245	1447		-1.000	0.000	0.000	1.995E+03		
6	6246	1448		-1.000	0.000	0.000	1.995E+03		
6	6247	1449		-1.000	0.000	0.000	1.995E+03		
6	6248	1450		-1.000	0.000	0.000	1.995E+03		
6	6249	1451		-1.000	0.000	0.000	1.995E+03		
6	6250	1452		-1.000	0.000	0.000	1.995E+03		
6	6251	1453		-1.000	0.000	0.000	1.995E+03		
6	6252	1454		-1.000	0.000	0.000	1.995E+03		
6	6253	1455		-1.000	0.000	0.000	1.995E+03		
6	6254	1456		-1.000	0.000	0.000	1.995E+03		
6	6255	1457		-1.000	0.000	0.000	1.995E+03		
6	6256	1458		-1.000	0.000	0.000	1.995E+03		
6	6257	1459		-1.000	0.000	0.000	1.995E+03		
6	6258	1460		-1.000	0.000	0.000	1.995E+03		
6	6259	1461		-1.000	0.000	0.000	1.995E+03		
6	6260	1462		-1.000	0.000	0.000	1.995E+03		
7	7001	41		1.000	0.000	0.000	2.792E+03		
7	7002	141		1.000	0.000	0.000	2.792E+03		
7	7003	1260		1.000	0.000	0.000	2.792E+03		
7	7004	1261		1.000	0.000	0.000	2.792E+03		
7	7005	1262		1.000	0.000	0.000	2.792E+03		
7	7006	1263		1.000	0.000	0.000	2.792E+03		
7	7007	1264		1.000	0.000	0.000	2.792E+03		
7	7008	1265		1.000	0.000	0.000	2.792E+03		
7	7009	1266		1.000	0.000	0.000	2.792E+03		
7	7010	1267		1.000	0.000	0.000	2.792E+03		
7	7011	1268		1.000	0.000	0.000	2.792E+03		
7	7012	1269		1.000	0.000	0.000	2.792E+03		
7	7013	1270		1.000	0.000	0.000	2.792E+03		
7	7014	1271		1.000	0.000	0.000	2.792E+03		
7	7015	1272		1.000	0.000	0.000	2.792E+03		
7	7016	1273		1.000	0.000	0.000	2.792E+03		
7	7017	1274		1.000	0.000	0.000	2.792E+03		
7	7018	1275		1.000	0.000	0.000	2.792E+03		

ΤΑΦΡΟΣ Τ1 (3.00x2.80x1.50)m
ΟΡΙΣΜΟΣ ΓΕΩΜΕΤΡΙΑΣ ΦΟΡΕΑ

Spring Elements

Grp	Number	Node	Node	dX[-] e-P[-]	dY[-] e-T[-]	dZ[-] e-M[-]	CP[kN/m] DP[kNsec/m]	CT[kN/m] DT[kNsec/m]	CM[kNm] DM[kNmsec]
7	7019	1276		1.000	0.000	0.000	2.792E+03		
7	7020	1277		1.000	0.000	0.000	2.792E+03		
7	7021	1278		1.000	0.000	0.000	2.792E+03		
7	7022	1279		1.000	0.000	0.000	2.792E+03		
7	7023	1280		1.000	0.000	0.000	2.792E+03		
7	7024	1281		1.000	0.000	0.000	2.792E+03		
7	7025	1282		1.000	0.000	0.000	2.792E+03		
7	7026	1283		1.000	0.000	0.000	2.792E+03		
7	7027	1609		1.000	0.000	0.000	2.792E+03		
7	7028	1610		1.000	0.000	0.000	2.792E+03		
7	7029	1611		1.000	0.000	0.000	2.792E+03		
7	7030	1615		1.000	0.000	0.000	2.792E+03		
7	7031	1616		1.000	0.000	0.000	2.792E+03		
7	7032	1617		1.000	0.000	0.000	2.792E+03		
7	7033	1618		1.000	0.000	0.000	2.792E+03		
7	7034	1619		1.000	0.000	0.000	2.792E+03		
7	7035	1620		1.000	0.000	0.000	2.792E+03		
7	7036	1621		1.000	0.000	0.000	2.792E+03		
7	7037	1622		1.000	0.000	0.000	2.792E+03		
7	7038	1623		1.000	0.000	0.000	2.792E+03		
7	7039	1624		1.000	0.000	0.000	2.792E+03		
7	7040	1625		1.000	0.000	0.000	2.792E+03		
7	7041	1626		1.000	0.000	0.000	2.792E+03		
7	7042	1627		1.000	0.000	0.000	2.792E+03		
7	7043	1628		1.000	0.000	0.000	2.792E+03		
7	7044	1629		1.000	0.000	0.000	2.792E+03		
7	7045	1630		1.000	0.000	0.000	2.792E+03		
7	7046	1631		1.000	0.000	0.000	2.792E+03		
7	7047	1632		1.000	0.000	0.000	2.792E+03		
7	7048	1633		1.000	0.000	0.000	2.792E+03		
7	7049	1634		1.000	0.000	0.000	2.792E+03		
7	7050	1635		1.000	0.000	0.000	2.792E+03		
7	7051	1636		1.000	0.000	0.000	2.792E+03		
7	7052	1637		1.000	0.000	0.000	2.792E+03		
7	7053	1638		1.000	0.000	0.000	2.792E+03		
7	7054	1663		1.000	0.000	0.000	2.792E+03		
7	7055	1664		1.000	0.000	0.000	2.792E+03		
7	7056	1665		1.000	0.000	0.000	2.792E+03		
7	7057	1666		1.000	0.000	0.000	2.792E+03		
7	7058	1667		1.000	0.000	0.000	2.792E+03		
7	7059	1668		1.000	0.000	0.000	2.792E+03		
7	7060	1669		1.000	0.000	0.000	2.792E+03		
7	7061	1670		1.000	0.000	0.000	2.792E+03		
7	7062	1671		1.000	0.000	0.000	2.792E+03		
7	7063	1672		1.000	0.000	0.000	2.792E+03		
7	7064	1673		1.000	0.000	0.000	2.792E+03		
7	7065	1674		1.000	0.000	0.000	2.792E+03		
7	7066	1675		1.000	0.000	0.000	2.792E+03		
7	7067	1676		1.000	0.000	0.000	2.792E+03		
7	7068	1677		1.000	0.000	0.000	2.792E+03		
7	7069	1678		1.000	0.000	0.000	2.792E+03		
7	7070	1679		1.000	0.000	0.000	2.792E+03		
7	7071	1680		1.000	0.000	0.000	2.792E+03		
7	7072	1681		1.000	0.000	0.000	2.792E+03		
7	7073	1682		1.000	0.000	0.000	2.792E+03		
7	7074	1683		1.000	0.000	0.000	2.792E+03		
7	7075	1684		1.000	0.000	0.000	2.792E+03		
7	7076	1685		1.000	0.000	0.000	2.792E+03		
7	7077	1686		1.000	0.000	0.000	2.792E+03		
7	7078	1687		1.000	0.000	0.000	2.792E+03		
7	7079	1688		1.000	0.000	0.000	2.792E+03		
7	7080	1689		1.000	0.000	0.000	2.792E+03		
7	7081	1690		1.000	0.000	0.000	2.792E+03		
7	7082	1691		1.000	0.000	0.000	2.792E+03		
7	7083	1692		1.000	0.000	0.000	2.792E+03		
7	7084	1693		1.000	0.000	0.000	2.792E+03		
7	7085	1694		1.000	0.000	0.000	2.792E+03		
7	7086	1695		1.000	0.000	0.000	2.792E+03		
7	7087	1696		1.000	0.000	0.000	2.792E+03		
7	7088	1697		1.000	0.000	0.000	2.792E+03		
7	7089	1698		1.000	0.000	0.000	2.792E+03		
7	7090	1699		1.000	0.000	0.000	2.792E+03		
7	7091	1700		1.000	0.000	0.000	2.792E+03		
7	7092	1701		1.000	0.000	0.000	2.792E+03		
7	7093	1702		1.000	0.000	0.000	2.792E+03		
7	7094	1703		1.000	0.000	0.000	2.792E+03		
7	7095	1704		1.000	0.000	0.000	2.792E+03		
7	7096	1705		1.000	0.000	0.000	2.792E+03		

ΤΑΦΡΟΣ Τ1 (3.00x2.80x1.50)m
ΟΡΙΣΜΟΣ ΓΕΩΜΕΤΡΙΑΣ ΦΟΡΕΑ

Spring Elements

Grp	Number	Node	Node	dX[-] e-P[-]	dY[-] e-T[-]	dZ[-] e-M[-]	CP[kN/m] DP[kNsec/m]	CT[kN/m] DT[kNsec/m]	CM[kNm] DM[kNmsec]
7	7097	1706		1.000	0.000	0.000	2.792E+03		
7	7098	1707		1.000	0.000	0.000	2.792E+03		
7	7099	1708		1.000	0.000	0.000	2.792E+03		
7	7100	1709		1.000	0.000	0.000	2.792E+03		
7	7101	1710		1.000	0.000	0.000	2.792E+03		
7	7102	1711		1.000	0.000	0.000	2.792E+03		
7	7103	1712		1.000	0.000	0.000	2.792E+03		
7	7104	1713		1.000	0.000	0.000	2.792E+03		
7	7105	1714		1.000	0.000	0.000	2.792E+03		
7	7106	1715		1.000	0.000	0.000	2.792E+03		
7	7107	1716		1.000	0.000	0.000	2.792E+03		
7	7108	1717		1.000	0.000	0.000	2.792E+03		
7	7109	1718		1.000	0.000	0.000	2.792E+03		
7	7110	1719		1.000	0.000	0.000	2.792E+03		
7	7111	1720		1.000	0.000	0.000	2.792E+03		
7	7112	1721		1.000	0.000	0.000	2.792E+03		
7	7113	1722		1.000	0.000	0.000	2.792E+03		
7	7114	1723		1.000	0.000	0.000	2.792E+03		
7	7115	1724		1.000	0.000	0.000	2.792E+03		
7	7116	1725		1.000	0.000	0.000	2.792E+03		
7	7117	1726		1.000	0.000	0.000	2.792E+03		
7	7118	1727		1.000	0.000	0.000	2.792E+03		
7	7119	1728		1.000	0.000	0.000	2.792E+03		
7	7120	1729		1.000	0.000	0.000	2.792E+03		
7	7121	1730		1.000	0.000	0.000	2.792E+03		
7	7122	1731		1.000	0.000	0.000	2.792E+03		
7	7123	1732		1.000	0.000	0.000	2.792E+03		
7	7124	1733		1.000	0.000	0.000	2.792E+03		
7	7125	1734		1.000	0.000	0.000	2.792E+03		
7	7126	1735		1.000	0.000	0.000	2.792E+03		
7	7127	1737		1.000	0.000	0.000	2.792E+03		
7	7128	1738		1.000	0.000	0.000	2.792E+03		
7	7129	1739		1.000	0.000	0.000	2.792E+03		
7	7130	1740		1.000	0.000	0.000	2.792E+03		
7	7131	1741		1.000	0.000	0.000	2.792E+03		
7	7132	1742		1.000	0.000	0.000	2.792E+03		
7	7133	1743		1.000	0.000	0.000	2.792E+03		
7	7134	1744		1.000	0.000	0.000	2.792E+03		
7	7135	1745		1.000	0.000	0.000	2.792E+03		
7	7136	1746		1.000	0.000	0.000	2.792E+03		
7	7137	1747		1.000	0.000	0.000	2.792E+03		
7	7138	1748		1.000	0.000	0.000	2.792E+03		
7	7139	1749		1.000	0.000	0.000	2.792E+03		
7	7140	1750		1.000	0.000	0.000	2.792E+03		
7	7141	1751		1.000	0.000	0.000	2.792E+03		
7	7142	1752		1.000	0.000	0.000	2.792E+03		
7	7143	1753		1.000	0.000	0.000	2.792E+03		
7	7144	1754		1.000	0.000	0.000	2.792E+03		
7	7145	1755		1.000	0.000	0.000	2.792E+03		
7	7146	1756		1.000	0.000	0.000	2.792E+03		
7	7147	1757		1.000	0.000	0.000	2.792E+03		
7	7148	1758		1.000	0.000	0.000	2.792E+03		
7	7149	1759		1.000	0.000	0.000	2.792E+03		
7	7150	1760		1.000	0.000	0.000	2.792E+03		
7	7151	42		1.000	0.000	0.000	2.792E+03		
7	7152	142		1.000	0.000	0.000	2.792E+03		
7	7153	242		1.000	0.000	0.000	2.792E+03		
7	7154	1612		1.000	0.000	0.000	2.792E+03		
7	7155	1613		1.000	0.000	0.000	2.792E+03		
7	7156	1614		1.000	0.000	0.000	2.792E+03		
7	7157	1736		1.000	0.000	0.000	2.792E+03		
7	7158	241		1.000	0.000	0.000	2.792E+03		
7	7159	242		1.000	0.000	0.000	2.792E+03		
7	7160	1639		1.000	0.000	0.000	2.792E+03		
7	7161	1640		1.000	0.000	0.000	2.792E+03		
7	7162	1641		1.000	0.000	0.000	2.792E+03		
7	7163	1642		1.000	0.000	0.000	2.792E+03		
7	7164	1643		1.000	0.000	0.000	2.792E+03		
7	7165	1644		1.000	0.000	0.000	2.792E+03		
7	7166	1645		1.000	0.000	0.000	2.792E+03		
7	7167	1646		1.000	0.000	0.000	2.792E+03		
7	7168	1647		1.000	0.000	0.000	2.792E+03		
7	7169	1648		1.000	0.000	0.000	2.792E+03		
7	7170	1649		1.000	0.000	0.000	2.792E+03		
7	7171	1650		1.000	0.000	0.000	2.792E+03		
7	7172	1651		1.000	0.000	0.000	2.792E+03		
7	7173	1652		1.000	0.000	0.000	2.792E+03		
7	7174	1653		1.000	0.000	0.000	2.792E+03		

ΤΑΦΡΟΣ Τ1 (3.00x2.80x1.50)m
ΟΡΙΣΜΟΣ ΓΕΩΜΕΤΡΙΑΣ ΦΟΡΕΑ

Spring Elements

Grp	Number	Node	Node	dX[-] e-P[-]	dY[-] e-T[-]	dZ[-] e-M[-]	CP[kN/m] DP[kNsec/m]	CT[kN/m] DT[kNsec/m]	CM[kNm] DM[kNmsec]
7	7175	1654		1.000	0.000	0.000	2.792E+03		
7	7176	1655		1.000	0.000	0.000	2.792E+03		
7	7177	1656		1.000	0.000	0.000	2.792E+03		
7	7178	1657		1.000	0.000	0.000	2.792E+03		
7	7179	1658		1.000	0.000	0.000	2.792E+03		
7	7180	1659		1.000	0.000	0.000	2.792E+03		
7	7181	1660		1.000	0.000	0.000	2.792E+03		
7	7182	1661		1.000	0.000	0.000	2.792E+03		
7	7183	1662		1.000	0.000	0.000	2.792E+03		

Special Effects of Spring Elements

Grp	Number	MNo	A/I-ref [m2]	Prestr. [kN]	Gap [mm]	Cutoff Yielding [kN]	[kN]	tan-r [-]	cohesion [kN]	tan-d [-]
6	6001					0.0				
6	6002					0.0				
6	6003					0.0				
6	6004					0.0				
6	6005					0.0				
6	6006					0.0				
6	6007					0.0				
6	6008					0.0				
6	6009					0.0				
6	6010					0.0				
6	6011					0.0				
6	6012					0.0				
6	6013					0.0				
6	6014					0.0				
6	6015					0.0				
6	6016					0.0				
6	6017					0.0				
6	6018					0.0				
6	6019					0.0				
6	6020					0.0				
6	6021					0.0				
6	6022					0.0				
6	6023					0.0				
6	6024					0.0				
6	6025					0.0				
6	6026					0.0				
6	6027					0.0				
6	6028					0.0				
6	6029					0.0				
6	6030					0.0				
6	6031					0.0				
6	6032					0.0				
6	6033					0.0				
6	6034					0.0				
6	6035					0.0				
6	6036					0.0				
6	6037					0.0				
6	6038					0.0				
6	6039					0.0				
6	6040					0.0				
6	6041					0.0				
6	6042					0.0				
6	6043					0.0				
6	6044					0.0				
6	6045					0.0				
6	6046					0.0				
6	6047					0.0				
6	6048					0.0				
6	6049					0.0				
6	6050					0.0				
6	6051					0.0				
6	6052					0.0				
6	6053					0.0				
6	6054					0.0				
6	6055					0.0				
6	6056					0.0				
6	6057					0.0				
6	6058					0.0				
6	6059					0.0				
6	6060					0.0				
6	6061					0.0				
6	6062					0.0				
6	6063					0.0				
6	6064					0.0				
6	6065					0.0				

ΤΑΦΡΟΣ T1 (3.00x2.80x1.50)m
ΟΡΙΣΜΟΣ ΓΕΩΜΕΤΡΙΑΣ ΦΟΡΕΑ

Special Effects of Spring Elements

Grp	Number	MNo	A/I-ref [m2]	Prestr. [kN]	Gap [mm]	Cutoff [kN]	Yielding [kN]	tan-r [-]	cohesion [kN]	tan-d [-]
6	6066					0.0				
6	6067					0.0				
6	6068					0.0				
6	6069					0.0				
6	6070					0.0				
6	6071					0.0				
6	6072					0.0				
6	6073					0.0				
6	6074					0.0				
6	6075					0.0				
6	6076					0.0				
6	6077					0.0				
6	6078					0.0				
6	6079					0.0				
6	6080					0.0				
6	6081					0.0				
6	6082					0.0				
6	6083					0.0				
6	6084					0.0				
6	6085					0.0				
6	6086					0.0				
6	6087					0.0				
6	6088					0.0				
6	6089					0.0				
6	6090					0.0				
6	6091					0.0				
6	6092					0.0				
6	6093					0.0				
6	6094					0.0				
6	6095					0.0				
6	6096					0.0				
6	6097					0.0				
6	6098					0.0				
6	6099					0.0				
6	6100					0.0				
6	6101					0.0				
6	6102					0.0				
6	6103					0.0				
6	6104					0.0				
6	6105					0.0				
6	6106					0.0				
6	6107					0.0				
6	6108					0.0				
6	6109					0.0				
6	6110					0.0				
6	6111					0.0				
6	6112					0.0				
6	6113					0.0				
6	6114					0.0				
6	6115					0.0				
6	6116					0.0				
6	6117					0.0				
6	6118					0.0				
6	6119					0.0				
6	6120					0.0				
6	6121					0.0				
6	6122					0.0				
6	6123					0.0				
6	6124					0.0				
6	6125					0.0				
6	6126					0.0				
6	6127					0.0				
6	6128					0.0				
6	6129					0.0				
6	6130					0.0				
6	6131					0.0				
6	6132					0.0				
6	6133					0.0				
6	6134					0.0				
6	6135					0.0				
6	6136					0.0				
6	6137					0.0				
6	6138					0.0				
6	6139					0.0				
6	6140					0.0				
6	6141					0.0				
6	6142					0.0				
6	6143					0.0				

ΤΑΦΡΟΣ T1 (3.00x2.80x1.50)m
ΟΡΙΣΜΟΣ ΓΕΩΜΕΤΡΙΑΣ ΦΟΡΕΑ

Special Effects of Spring Elements

Grp	Number	MNo	A/I-ref [m2]	Prestr. [kN]	Gap [mm]	Cutoff [kN]	Yielding [kN]	tan-r [-]	cohesion [kN]	tan-d [-]
6	6144					0.0				
6	6145					0.0				
6	6146					0.0				
6	6147					0.0				
6	6148					0.0				
6	6149					0.0				
6	6150					0.0				
6	6151					0.0				
6	6152					0.0				
6	6153					0.0				
6	6154					0.0				
6	6155					0.0				
6	6156					0.0				
6	6157					0.0				
6	6158					0.0				
6	6159					0.0				
6	6160					0.0				
6	6161					0.0				
6	6162					0.0				
6	6163					0.0				
6	6164					0.0				
6	6165					0.0				
6	6166					0.0				
6	6167					0.0				
6	6168					0.0				
6	6169					0.0				
6	6170					0.0				
6	6171					0.0				
6	6172					0.0				
6	6173					0.0				
6	6174					0.0				
6	6175					0.0				
6	6176					0.0				
6	6177					0.0				
6	6178					0.0				
6	6179					0.0				
6	6180					0.0				
6	6181					0.0				
6	6182					0.0				
6	6183					0.0				
6	6184					0.0				
6	6185					0.0				
6	6186					0.0				
6	6187					0.0				
6	6188					0.0				
6	6189					0.0				
6	6190					0.0				
6	6191					0.0				
6	6192					0.0				
6	6193					0.0				
6	6194					0.0				
6	6195					0.0				
6	6196					0.0				
6	6197					0.0				
6	6198					0.0				
6	6199					0.0				
6	6200					0.0				
6	6201					0.0				
6	6202					0.0				
6	6203					0.0				
6	6204					0.0				
6	6205					0.0				
6	6206					0.0				
6	6207					0.0				
6	6208					0.0				
6	6209					0.0				
6	6210					0.0				
6	6211					0.0				
6	6212					0.0				
6	6213					0.0				
6	6214					0.0				
6	6215					0.0				
6	6216					0.0				
6	6217					0.0				
6	6218					0.0				
6	6219					0.0				
6	6220					0.0				
6	6221					0.0				

ΤΑΦΡΟΣ Τ1 (3.00x2.80x1.50)m
ΟΡΙΣΜΟΣ ΓΕΩΜΕΤΡΙΑΣ ΦΟΡΕΑ

Special Effects of Spring Elements

Grp	Number	MNo	A/I-ref [m2]	Prestr. [kN]	Gap [mm]	Cutoff [kN]	Yielding [kN]	tan-r [-]	cohesion [kN]	tan-d [-]
6	6222					0.0				
6	6223					0.0				
6	6224					0.0				
6	6225					0.0				
6	6226					0.0				
6	6227					0.0				
6	6228					0.0				
6	6229					0.0				
6	6230					0.0				
6	6231					0.0				
6	6232					0.0				
6	6233					0.0				
6	6234					0.0				
6	6235					0.0				
6	6236					0.0				
6	6237					0.0				
6	6238					0.0				
6	6239					0.0				
6	6240					0.0				
6	6241					0.0				
6	6242					0.0				
6	6243					0.0				
6	6244					0.0				
6	6245					0.0				
6	6246					0.0				
6	6247					0.0				
6	6248					0.0				
6	6249					0.0				
6	6250					0.0				
6	6251					0.0				
6	6252					0.0				
6	6253					0.0				
6	6254					0.0				
6	6255					0.0				
6	6256					0.0				
6	6257					0.0				
6	6258					0.0				
6	6259					0.0				
6	6260					0.0				
7	7001					0.0				
7	7002					0.0				
7	7003					0.0				
7	7004					0.0				
7	7005					0.0				
7	7006					0.0				
7	7007					0.0				
7	7008					0.0				
7	7009					0.0				
7	7010					0.0				
7	7011					0.0				
7	7012					0.0				
7	7013					0.0				
7	7014					0.0				
7	7015					0.0				
7	7016					0.0				
7	7017					0.0				
7	7018					0.0				
7	7019					0.0				
7	7020					0.0				
7	7021					0.0				
7	7022					0.0				
7	7023					0.0				
7	7024					0.0				
7	7025					0.0				
7	7026					0.0				
7	7027					0.0				
7	7028					0.0				
7	7029					0.0				
7	7030					0.0				
7	7031					0.0				
7	7032					0.0				
7	7033					0.0				
7	7034					0.0				
7	7035					0.0				
7	7036					0.0				
7	7037					0.0				
7	7038					0.0				
7	7039					0.0				

ΤΑΦΡΟΣ Τ1 (3.00x2.80x1.50)m
ΟΡΙΣΜΟΣ ΓΕΩΜΕΤΡΙΑΣ ΦΟΡΕΑ

Special Effects of Spring Elements

Grp	Number	MNo	A/I-ref [m2]	Prestr. [kN]	Gap [mm]	Cutoff [kN]	Yielding [kN]	tan-r [-]	cohesion [kN]	tan-d [-]
7	7040					0.0				
7	7041					0.0				
7	7042					0.0				
7	7043					0.0				
7	7044					0.0				
7	7045					0.0				
7	7046					0.0				
7	7047					0.0				
7	7048					0.0				
7	7049					0.0				
7	7050					0.0				
7	7051					0.0				
7	7052					0.0				
7	7053					0.0				
7	7054					0.0				
7	7055					0.0				
7	7056					0.0				
7	7057					0.0				
7	7058					0.0				
7	7059					0.0				
7	7060					0.0				
7	7061					0.0				
7	7062					0.0				
7	7063					0.0				
7	7064					0.0				
7	7065					0.0				
7	7066					0.0				
7	7067					0.0				
7	7068					0.0				
7	7069					0.0				
7	7070					0.0				
7	7071					0.0				
7	7072					0.0				
7	7073					0.0				
7	7074					0.0				
7	7075					0.0				
7	7076					0.0				
7	7077					0.0				
7	7078					0.0				
7	7079					0.0				
7	7080					0.0				
7	7081					0.0				
7	7082					0.0				
7	7083					0.0				
7	7084					0.0				
7	7085					0.0				
7	7086					0.0				
7	7087					0.0				
7	7088					0.0				
7	7089					0.0				
7	7090					0.0				
7	7091					0.0				
7	7092					0.0				
7	7093					0.0				
7	7094					0.0				
7	7095					0.0				
7	7096					0.0				
7	7097					0.0				
7	7098					0.0				
7	7099					0.0				
7	7100					0.0				
7	7101					0.0				
7	7102					0.0				
7	7103					0.0				
7	7104					0.0				
7	7105					0.0				
7	7106					0.0				
7	7107					0.0				
7	7108					0.0				
7	7109					0.0				
7	7110					0.0				
7	7111					0.0				
7	7112					0.0				
7	7113					0.0				
7	7114					0.0				
7	7115					0.0				
7	7116					0.0				
7	7117					0.0				

ΤΑΦΡΟΣ Τ1 (3.00x2.80x1.50)m
ΟΡΙΣΜΟΣ ΓΕΩΜΕΤΡΙΑΣ ΦΟΡΕΑ

Special Effects of Spring Elements

Grp	Number	MNo	A/I-ref [m2]	Prestr. [kN]	Gap [mm]	Cutoff [kN]	Yielding [kN]	tan-r [-]	cohesion [kN]	tan-d [-]
7	7118					0.0				
7	7119					0.0				
7	7120					0.0				
7	7121					0.0				
7	7122					0.0				
7	7123					0.0				
7	7124					0.0				
7	7125					0.0				
7	7126					0.0				
7	7127					0.0				
7	7128					0.0				
7	7129					0.0				
7	7130					0.0				
7	7131					0.0				
7	7132					0.0				
7	7133					0.0				
7	7134					0.0				
7	7135					0.0				
7	7136					0.0				
7	7137					0.0				
7	7138					0.0				
7	7139					0.0				
7	7140					0.0				
7	7141					0.0				
7	7142					0.0				
7	7143					0.0				
7	7144					0.0				
7	7145					0.0				
7	7146					0.0				
7	7147					0.0				
7	7148					0.0				
7	7149					0.0				
7	7150					0.0				
7	7151					0.0				
7	7152					0.0				
7	7153					0.0				
7	7154					0.0				
7	7155					0.0				
7	7156					0.0				
7	7157					0.0				
7	7158					0.0				
7	7159					0.0				
7	7160					0.0				
7	7161					0.0				
7	7162					0.0				
7	7163					0.0				
7	7164					0.0				
7	7165					0.0				
7	7166					0.0				
7	7167					0.0				
7	7168					0.0				
7	7169					0.0				
7	7170					0.0				
7	7171					0.0				
7	7172					0.0				
7	7173					0.0				
7	7174					0.0				
7	7175					0.0				
7	7176					0.0				
7	7177					0.0				
7	7178					0.0				
7	7179					0.0				
7	7180					0.0				
7	7181					0.0				
7	7182					0.0				
7	7183					0.0				

Summary of all planar elements

Groups

Grp	TotArea [m2]	TotVolume [m3]	TotWeight [t]	Material No.
1	36.0000	12.600	31.500	1
2	33.6000	11.760	29.400	2
3	18.0000	6.300	15.750	2
11	8.4000	2.940	7.350	11
22	2.1000	0.735	0.000	22
33	2.1000	0.735	0.000	22

ΤΑΦΡΟΣ Τ1 (3.00x2.80x1.50)m
ΟΡΙΣΜΟΣ ΓΕΩΜΕΤΡΙΑΣ ΦΟΡΕΑ

Groups

Grp	TotArea [m2]	TotVolume [m3]	TotWeight [t]	Material No.
Sum	100.2000	35.070	84.000	

ΤΑΦΡΟΣ Τ1 (3.00x2.80x1.50)m

2. ΟΡΙΣΜΟΣ ΕΠΙΛΥΣΗ ΜΕΜΟΝΩΜΕΝΩΝ ΦΟΡΤΙΣΕΩΝ

ΤΑΦΡΟΣ Τ1 (3.00x2.80x1.50)m
ΟΡΙΣΜΟΣ ΜΕΜΟΝΩΜΕΝΩΝ ΦΟΡΤΙΣΕΩΝ

Load Case 1 ΙΔΙΟ ΒΑΡΟΣ

Factor forces and moments		1.000
Factor dead weight	DL-XX	0.000
Factor dead weight	DL-YY	0.000
Factor dead weight	DL-ZZ	1.000

Load Case 2 ΥΔΡΟΣΤΑΤΙΚΕΣ ΠΙΕΣΕΙΣ

Factor forces and moments		1.000
Factor dead weight	DL-XX	0.000
Factor dead weight	DL-YY	0.000
Factor dead weight	DL-ZZ	0.000

Meshfree Loading

Kind	Referenceto	Projection W[m]	Coordinates X[m]	Y[m]	Z[m]	Type	Loadvalue
Area			-1.500	0.000	0.000	PG	15.00 [kN/m2]
			-1.500	12.000	0.000		15.00 [kN/m2]
			1.500	12.000	0.000		15.00 [kN/m2]
			1.500	0.000	0.000		15.00 [kN/m2]
	QGRP	1 1.000			activated		100.00 percent
Area			-1.675	12.000	-2.975	PXX	0.00 [kN/m2]
			-1.675	0.000	-2.975		0.00 [kN/m2]
			-1.675	0.000	-0.175		-10.00 [kN/m2]
			-1.675	12.000	-0.175		-10.00 [kN/m2]
	QGRP	2 1.000			activated		100.00 percent
Area			1.675	12.000	-1.675	PXX	0.00 [kN/m2]
			1.675	0.000	-1.675		0.00 [kN/m2]
			1.675	0.000	-0.175		10.00 [kN/m2]
			1.675	12.000	-0.175		10.00 [kN/m2]
	QGRP	3 1.000			activated		100.00 percent

Load Case 3 ΩΘΗΣΕΙΣ ΓΑΙΩΝ

Factor forces and moments		1.000
Factor dead weight	DL-XX	0.000
Factor dead weight	DL-YY	0.000
Factor dead weight	DL-ZZ	0.000

Meshfree Loading

Kind	Referenceto	Projection W[m]	Coordinates X[m]	Y[m]	Z[m]	Type	Loadvalue
Area			-1.675	12.000	-2.975	PXX	0.00 [kN/m2]
			-1.675	0.000	-2.975		0.00 [kN/m2]
			-1.675	0.000	-0.175		25.75 [kN/m2]
			-1.675	12.000	-0.175		25.75 [kN/m2]
	QGRP	2 1.000			activated		100.00 percent
Area			1.675	12.000	-1.675	PXX	0.00 [kN/m2]
			1.675	0.000	-1.675		0.00 [kN/m2]
			1.675	0.000	-0.175		-13.79 [kN/m2]
			1.675	12.000	-0.175		-13.79 [kN/m2]
	QGRP	3 1.000			activated		100.00 percent

Load Case 5 ΩΘΗΣΕΙΣ ΓΑΙΩΝ ΑΠΟ ΚΙΝΗΤΑ

Factor forces and moments		1.000
Factor dead weight	DL-XX	0.000
Factor dead weight	DL-YY	0.000
Factor dead weight	DL-ZZ	0.000

Meshfree Loading

Kind	Referenceto	Projection W[m]	Coordinates X[m]	Y[m]	Z[m]	Type	Loadvalue
Area			1.675	0.000	-1.675	Pz	-10.22 [kN/m2]
			1.675	12.000	-1.675		-10.22 [kN/m2]
			1.675	12.000	-0.175		-10.22 [kN/m2]
			1.675	0.000	-0.175		-10.22 [kN/m2]
	QGRP	3			activated		100.00 percent
Area			-1.675	0.000	-2.975	Pz	-10.22 [kN/m2]
			-1.675	12.000	-2.975		-10.22 [kN/m2]
			-1.675	12.000	-0.175		-10.22 [kN/m2]
			-1.675	0.000	-0.175		-10.22 [kN/m2]
	QGRP	2			activated		100.00 percent

Load Case 6 ΟΜΟΙΟΜΟΡΦΗ ΘΕΡΜΟΚΡ. ΔΤ=+35oC

Factor forces and moments		1.000
Factor dead weight	DL-XX	0.000
Factor dead weight	DL-YY	0.000
Factor dead weight	DL-ZZ	0.000

ΤΑΦΡΟΣ Τ1 (3.00x2.80x1.50)m
ΟΡΙΣΜΟΣ ΜΕΜΟΝΩΜΕΝΩΝ ΦΟΡΤΙΣΕΩΝ

Loads acting on QUAD-elements

Elements from	to	inc	Load Prim Type	LC/CC	Load val.	Dimension	Variation dP/dX	dP/dY	dP/dZ
1000	1999	1	TEMP		35.000	[°C]			
2000	2999	1	TEMP		35.000	[°C]			
3000	3999	1	TEMP		35.000	[°C]			
11000	11999	1	TEMP		35.000	[°C]			
22000	22999	1	TEMP		35.000	[°C]			
33000	33999	1	TEMP		35.000	[°C]			

Load Case 7 ΟΜΟΙΟΜΟΡΦΗ ΘΕΡΜΟΚΡ. ΔΤ=-25oC

Factor forces and moments		1.000
Factor dead weight	DL-XX	0.000
Factor dead weight	DL-YY	0.000
Factor dead weight	DL-ZZ	0.000

Loads acting on QUAD-elements

Elements from	to	inc	Load Prim Type	LC/CC	Load val.	Dimension	Variation dP/dX	dP/dY	dP/dZ
1000	1999	1	TEMP		-25.000	[°C]			
2000	2999	1	TEMP		-25.000	[°C]			
3000	3999	1	TEMP		-25.000	[°C]			
11000	11999	1	TEMP		-25.000	[°C]			
22000	22999	1	TEMP		-25.000	[°C]			
33000	33999	1	TEMP		-25.000	[°C]			

Load Case 13 ΠΡΟΣΘΕΤΕΣ ΣΕΙΜ.ΩΘΗΣΕΙΣ(+X)

Factor forces and moments		1.000
Factor dead weight	DL-XX	0.000
Factor dead weight	DL-YY	0.000
Factor dead weight	DL-ZZ	0.000

Meshfree Loading

Kind	Referenceto	Projection W[m]	Coordinates X[m]	Y[m]	Z[m]	Type	Loadvalue
Area			-1.675	0.000	0.000	PXX	10.89 [kN/m2]
			-1.675	0.000	-2.975		10.89 [kN/m2]
			-1.675	12.000	-2.975		10.89 [kN/m2]
			-1.675	12.000	0.000		10.89 [kN/m2]
	QGRP 2		(--)	activated			94.12 percent
Area			1.675	0.000	0.000	PXX	6.39 [kN/m2]
			1.675	0.000	-1.675		6.39 [kN/m2]
			1.675	12.000	-1.675		6.39 [kN/m2]
			1.675	12.000	0.000		6.39 [kN/m2]
	QGRP 3		(--)	activated			89.55 percent

Load Case 14 ΠΡΟΣΘΕΤΕΣ ΣΕΙΜ.ΩΘΗΣΕΙΣ(-X)

Factor forces and moments		1.000
Factor dead weight	DL-XX	0.000
Factor dead weight	DL-YY	0.000
Factor dead weight	DL-ZZ	0.000

Meshfree Loading

Kind	Referenceto	Projection W[m]	Coordinates X[m]	Y[m]	Z[m]	Type	Loadvalue
Area			-1.675	0.000	0.000	PXX	-10.89 [kN/m2]
			-1.675	0.000	-2.975		-10.89 [kN/m2]
			-1.675	12.000	-2.975		-10.89 [kN/m2]
			-1.675	12.000	0.000		-10.89 [kN/m2]
	QGRP 2		(--)	activated			94.12 percent
Area			1.675	0.000	0.000	PXX	-6.39 [kN/m2]
			1.675	0.000	-1.675		-6.39 [kN/m2]
			1.675	12.000	-1.675		-6.39 [kN/m2]
			1.675	12.000	0.000		-6.39 [kN/m2]
	QGRP 3		(--)	activated			89.55 percent

ΤΑΦΡΟΣ Τ1 (3.00x2.80x1.50)m
ΕΠΙΛΥΣΗ ΜΕΜΟΝΩΜΕΝΩΝ ΦΟΡΤΙΣΕΩΝ

Sum of Loads

LC	Title	PXX[kN]	PYY[kN]	PZZ[kN]
1	ΙΔΙΟ ΒΑΡΟΣ	0.0	0.0	840.0
2	ΥΔΡΟΣΤΑΤΙΚΕΣ ΠΙΕΣΕΙΣ	-78.0	0.0	540.0
3	ΩΘΗΣΕΙΣ ΓΑΙΩΝ	308.4	0.0	0.0
5	ΩΘΗΣΕΙΣ ΓΑΙΩΝ ΑΠΟ ΚΙΝΗΤΑ	159.4	0.0	0.0
6	ΟΜΟΙΟΜΟΡΦΗ ΘΕΡΜΟΚΡ. ΔΤ=+	0.0	0.0	0.0
7	ΟΜΟΙΟΜΟΡΦΗ ΘΕΡΜΟΚΡ. ΔΤ=-	0.0	0.0	0.0
13	ΠΡΟΣΘΕΤΕΣ ΣΕΙΜ.ΩΘΗΣΕΙΣ(+	480.9	0.0	0.0
14	ΠΡΟΣΘΕΤΕΣ ΣΕΙΜ.ΩΘΗΣΕΙΣ(-	-480.9	0.0	0.0

ΤΑΦΡΟΣ Τ1 (3.00x2.80x1.50)m

3. ΕΛΕΓΧΟΣ ΣΤΑΤΙΚΩΝ ΦΟΡΤΙΣΕΩΝ ΑΣΤΟΧΙΑΣ

ΤΑΦΡΟΣ Τ1 (3.00x2.80x1.50)m
ΣΥΝΔΥΑΣΜΟΙ U.L.S. ΣΤΑΤΙΚΑ

Combination rule Number 1
comb. no.1 U.L.S.
Resulting loadcases type Design Combination
Loadcase selection

Number	factor	type	Title
1	1.35	Exclusive LC AG	ΙΔΙΟ ΒΑΡΟΣ
3	1.50	Combined with LC	ΩΘΗΣΕΙΣ ΓΑΙΩΝ
1	1.35	Exclusive LC AG	ΙΔΙΟ ΒΑΡΟΣ
3	1.00	Combined with LC	ΩΘΗΣΕΙΣ ΓΑΙΩΝ
1	1.00	Exclusive LC AG	ΙΔΙΟ ΒΑΡΟΣ
3	1.50	Combined with LC	ΩΘΗΣΕΙΣ ΓΑΙΩΝ
1	1.00	Exclusive LC AG	ΙΔΙΟ ΒΑΡΟΣ
3	1.00	Combined with LC	ΩΘΗΣΕΙΣ ΓΑΙΩΝ
1	1.35	Exclusive LC AG	ΙΔΙΟ ΒΑΡΟΣ
3	1.50	Combined with LC	ΩΘΗΣΕΙΣ ΓΑΙΩΝ
1	1.35	Exclusive LC AG	ΙΔΙΟ ΒΑΡΟΣ
3	1.00	Combined with LC	ΩΘΗΣΕΙΣ ΓΑΙΩΝ
1	1.00	Exclusive LC AG	ΙΔΙΟ ΒΑΡΟΣ
3	1.50	Combined with LC	ΩΘΗΣΕΙΣ ΓΑΙΩΝ
1	1.00	Exclusive LC AG	ΙΔΙΟ ΒΑΡΟΣ
3	1.00	Combined with LC	ΩΘΗΣΕΙΣ ΓΑΙΩΝ
1	1.35	Exclusive LC AG	ΙΔΙΟ ΒΑΡΟΣ
2	1.00	Combined with LC	ΥΔΡΟΣΤΑΤΙΚΕΣ ΠΙΕΣΕΙΣ
1	1.35	Exclusive LC AG	ΙΔΙΟ ΒΑΡΟΣ
2	1.00	Combined with LC	ΥΔΡΟΣΤΑΤΙΚΕΣ ΠΙΕΣΕΙΣ
1	1.00	Exclusive LC AG	ΙΔΙΟ ΒΑΡΟΣ
2	1.00	Combined with LC	ΥΔΡΟΣΤΑΤΙΚΕΣ ΠΙΕΣΕΙΣ
1	1.00	Exclusive LC AG	ΙΔΙΟ ΒΑΡΟΣ
2	1.00	Combined with LC	ΥΔΡΟΣΤΑΤΙΚΕΣ ΠΙΕΣΕΙΣ
1	1.35	Exclusive LC AG	ΙΔΙΟ ΒΑΡΟΣ
2	1.35	Combined with LC	ΥΔΡΟΣΤΑΤΙΚΕΣ ΠΙΕΣΕΙΣ
1	1.35	Exclusive LC AG	ΙΔΙΟ ΒΑΡΟΣ
2	1.35	Combined with LC	ΥΔΡΟΣΤΑΤΙΚΕΣ ΠΙΕΣΕΙΣ
1	1.00	Exclusive LC AG	ΙΔΙΟ ΒΑΡΟΣ
2	1.35	Combined with LC	ΥΔΡΟΣΤΑΤΙΚΕΣ ΠΙΕΣΕΙΣ
1	1.00	Exclusive LC AG	ΙΔΙΟ ΒΑΡΟΣ
2	1.35	Combined with LC	ΥΔΡΟΣΤΑΤΙΚΕΣ ΠΙΕΣΕΙΣ
5	1.35	Exclusive LC A 1	ΩΘΗΣΕΙΣ ΓΑΙΩΝ ΑΠΟ ΚΙΝΗΤΑ
6	0.90	Exclusive LC A 2	ΟΜΟΙΟΜΟΡΦΗ ΘΕΡΜΟΚΡ. ΔΤ=+
7	0.90	Exclusive LC A 2	ΟΜΟΙΟΜΟΡΦΗ ΘΕΡΜΟΚΡ. ΔΤ=-

Generated Loadcases

Number	Comb	Title
1001	1	MAX-MX QUAD ULS_01
1002	1	MIN-MX QUAD ULS_01
1003	1	MAX-MY QUAD ULS_01
1004	1	MIN-MY QUAD ULS_01
1005	1	MAX-MXY QUAD ULS_01
1006	1	MIN-MXY QUAD ULS_01
1001	1	MAX-MX QUAK ULS_01
1002	1	MIN-MX QUAK ULS_01
1003	1	MAX-MY QUAK ULS_01
1004	1	MIN-MY QUAK ULS_01
1005	1	MAX-MXY QUAK ULS_01
1006	1	MIN-MXY QUAK ULS_01
1007	1	MAX-VX QUAD ULS_01
1008	1	MIN-VX QUAD ULS_01
1007	1	MAX-VX QUAK ULS_01
1008	1	MIN-VX QUAK ULS_01
1009	1	MAX-VY QUAD ULS_01
1010	1	MIN-VY QUAD ULS_01
1009	1	MAX-VY QUAK ULS_01
1010	1	MIN-VY QUAK ULS_01
1011	1	MAX-NXX QUAD ULS_01
1012	1	MIN-NXX QUAD ULS_01
1013	1	MAX-NYY QUAD ULS_01
1014	1	MIN-NYY QUAD ULS_01
1015	1	MAX-NXY QUAD ULS_01
1016	1	MIN-NXY QUAD ULS_01
1011	1	MAX-NXX QUAK ULS_01
1012	1	MIN-NXX QUAK ULS_01
1013	1	MAX-NYY QUAK ULS_01
1014	1	MIN-NYY QUAK ULS_01
1015	1	MAX-NXY QUAK ULS_01
1016	1	MIN-NXY QUAK ULS_01

ΤΑΦΡΟΣ T1 (3.00x2.80x1.50)m
ΔΙΑΣΤΑΣΙΟΛΟΓΗΣΗ ULS-STATIKA

Design according to EN 1992-1-1:2004(EC2)
Loadcases have been calculated in the Ultimate Limit State
In BEMESS no additional load safety factor is applied.

Load Cases for the Design

Loadcase 1001 MAX-MX QUAK ULS_01
Loadcase 1002 MIN-MX QUAK ULS_01
Loadcase 1003 MAX-MY QUAK ULS_01
Loadcase 1004 MIN-MY QUAK ULS_01
Loadcase 1005 MAX-MXY QUAK ULS_01
Loadcase 1006 MIN-MXY QUAK ULS_01
Loadcase 1007 MAX-VX QUAK ULS_01
Loadcase 1008 MIN-VX QUAK ULS_01
Loadcase 1009 MAX-VY QUAK ULS_01
Loadcase 1010 MIN-VY QUAK ULS_01
Loadcase 1011 MAX-NXX QUAK ULS_01
Loadcase 1012 MIN-NXX QUAK ULS_01
Loadcase 1013 MAX-NYY QUAK ULS_01
Loadcase 1014 MIN-NYY QUAK ULS_01
Loadcase 1015 MAX-NXY QUAK ULS_01
Loadcase 1016 MIN-NXY QUAK ULS_01

Material (EN 1992-1-1:2004(EC2))

Mat	f-ck [MPa]	f-cr [MPa]	f-yk [MPa]	f-tk [MPa]	f-ctm [MPa]	N [-]	minQ [-]	type
1	25.0	21.2			2.565	6.4	0.20	mainly static
2	25.0	21.2			2.565	6.4	0.20	mainly static
10			500.0	545.0				
11	25.0	21.2			2.565	6.4	0.20	mainly static
22	25.0	21.2			2.565	6.4	0.20	mainly static

Minimum reinforcement: 0.00 p.c. of stat. req. section

Reduction of FC in case of transvers tension = 20.0 [o/o]

Material-safety-factors:

Mat	concr SC1	SC2	steel SS1	SS2
1	1.50	1.50		
2	1.50	1.50		
10			1.15	1.15
11	1.50	1.50		
22	1.50	1.50		

At direct supports from the face of the support up to 1.0*d the shear force is reduced.
The maximum shear capacity is checked at the face of the support without reduction.

The punching design has been switched off and must be done separately.
Outside the punching area, the normal slab shear design may increase the,
longitudinal reinforcement up to 0.20% [input CTRL...RO_V].

Geometry (axial covers)

No	he-upper [mm]	hi-upper [mm]	he-lower [mm]	hi-lower [mm]	Elem. height [mm]
1	60	72	80	92	As saved
2	50	62	50	62	As saved

Selection of elements

	from	to	inc	group	GEOMETRY
Element	1001	1999	1	-	1
Element	2001	2999	1	-	2
Element	3001	3999	1	-	2
Element	4001	4999	1	-	2

Reinforcement is saved in the data base file
Number of stored reinforcement-distribution: 1

REINFORCEMENT ACC. TO EN 1992-1-1:2004(EC2) in [cm2/m] upper/lower
General load safety factor - as defined in BEMESS: Gamma-f = 1.00
Shear: stresses VEd/d and VRd,ct/d with d=effective depth = h-hm
Shear index 2m = minimum shear reinforcement

Grp	ELEM No	LC No	MAT No MBW	GEO No	h [m]	Reinforcement main	cross	dir	dphi deg	Shr zon	VEd/d [MPa] VRd,ct/d	Ass [cm2/m2]
1	1001	maximum		0.35	2.18	0.44	0			1	0.100	
					9.00	1.80	0				0.460	
1	1002	maximum		0.35	2.30	0.46	0			1	0.178	
					8.50	1.70	0				0.484	
1	1003	maximum		0.35	2.30	0.51	0			1	0.177	
					8.40	1.70	0				0.488	
1	1004	maximum		0.35	2.27	0.52	0			1	0.167	
					8.58	1.87	0				0.490	

ΤΑΦΡΟΣ T1 (3.00x2.80x1.50)m
ΔΙΑΣΤΑΣΙΟΛΟΓΗΣΗ ULS-STATIKA

REINFORCEMENT ACC. TO EN 1992-1-1:2004(EC2) in [cm2/m] upper/lower
General load safety factor - as defined in BEMESS: Gamma-f = 1.00
Shear: stresses VEd/d and VRd,ct/d with d=effective depth = h-hm
Shear index 2m = minimum shear reinforcement

Grp	ELEM No	LC No	MAT No MBW	GEO No	h [m]	Reinforcement main	cross	dir	dphi deg	Shr zon	VEd/d [MPa] VRd,ct/d	Ass [cm2/m2]
1	1005	maximum		0.35	2.25	0.51	0			1	0.160	
					8.62	1.92	0				0.490	
1	1006	maximum		0.35	2.23	0.51	0			1	0.155	
					8.62	1.92	0				0.489	
1	1007	maximum		0.35	2.22	0.51	0			1	0.153	
					8.60	1.91	0				0.488	
1	1008	maximum		0.35	2.22	0.51	0			1	0.151	
					8.59	1.90	0				0.488	
1	1009	maximum		0.35	2.21	0.51	0			1	0.150	
					8.57	1.89	0				0.487	
1	1010	maximum		0.35	2.21	0.51	0			1	0.150	
					8.56	1.88	0				0.487	
1	1011	maximum		0.35	2.21	0.51	0			1	0.150	
					8.56	1.87	0				0.487	
1	1012	maximum		0.35	2.21	0.51	0			1	0.150	
					8.55	1.87	0				0.487	
1	1013	maximum		0.35	2.21	0.51	0			1	0.150	
					8.55	1.87	0				0.487	
1	1014	maximum		0.35	2.21	0.51	0			1	0.150	
					8.55	1.87	0				0.487	
1	1015	maximum		0.35	2.21	0.51	0			1	0.150	
					8.56	1.87	0				0.487	
1	1016	maximum		0.35	2.21	0.51	0			1	0.150	
					8.56	1.88	0				0.487	
1	1017	maximum		0.35	2.21	0.51	0			1	0.150	
					8.57	1.89	0				0.487	
1	1018	maximum		0.35	2.22	0.51	0			1	0.151	
					8.59	1.90	0				0.488	
1	1019	maximum		0.35	2.22	0.51	0			1	0.153	
					8.60	1.91	0				0.488	
1	1020	maximum		0.35	2.23	0.51	0			1	0.155	
					8.62	1.92	0				0.489	
1	1021	maximum		0.35	2.25	0.51	0			1	0.160	
					8.62	1.92	0				0.490	
1	1022	maximum		0.35	2.27	0.52	0			1	0.167	
					8.58	1.87	0				0.490	
1	1023	maximum		0.35	2.30	0.51	0			1	0.177	
					8.40	1.70	0				0.488	
1	1024	maximum		0.35	2.30	0.46	0			1	0.178	
					8.50	1.70	0				0.484	
1	1025	maximum		0.35	2.18	0.44	0			1	0.100	
					9.00	1.80	0				0.460	
1	1026	maximum		0.35	2.45	0.49	0			1	0.125	
					7.66	1.53	0				0.469	
1	1027	maximum		0.35	2.50	0.50	0			1	0.154	
					7.28	1.46	0				0.480	
1	1028	maximum		0.35	2.49	0.50	0			1	0.164	
					6.98	1.45	0				0.484	
1	1029	maximum		0.35	2.48	0.52	0			1	0.164	
					7.00	1.54	0				0.484	
1	1030	maximum		0.35	2.46	0.54	0			1	0.161	
					7.08	1.62	0				0.483	
1	1031	maximum		0.35	2.46	0.55	0			1	0.159	
					7.12	1.63	0				0.482	
1	1032	maximum		0.35	2.45	0.55	0			1	0.157	
					7.13	1.62	0				0.482	
1	1033	maximum		0.35	2.45	0.56	0			1	0.156	
					7.13	1.61	0				0.482	
1	1034	maximum		0.35	2.44	0.56	0			1	0.155	
					7.13	1.59	0				0.481	
1	1035	maximum		0.35	2.44	0.56	0			1	0.155	
					7.13	1.58	0				0.481	
1	1036	maximum		0.35	2.44	0.56	0			1	0.154	
					7.13	1.58	0				0.481	
1	1037	maximum		0.35	2.44	0.56	0			1	0.154	
					7.12	1.57	0				0.481	
1	1038	maximum		0.35	2.44	0.56	0			1	0.154	
					7.12	1.57	0				0.481	
1	1039	maximum		0.35	2.44	0.56	0			1	0.154	
					7.12	1.57	0				0.481	
1	1040	maximum		0.35	2.44	0.56	0			1	0.154	
					7.13	1.58	0				0.481	
1	1041	maximum		0.35	2.44	0.56	0			1	0.155	
					7.13	1.58	0				0.481	

ΤΑΦΡΟΣ T1 (3.00x2.80x1.50)m
ΔΙΑΣΤΑΣΙΟΛΟΓΗΣΗ ULS-STATIKA

REINFORCEMENT ACC. TO EN 1992-1-1:2004(EC2) in [cm2/m] upper/lower
General load safety factor - as defined in BEMESS: Gamma-f = 1.00
Shear: stresses VEd/d and VRd,ct/d with d=effective depth = h-hm
Shear index 2m = minimum shear reinforcement

Grp	ELEM No	LC No	MAT No	GEO No	h [m]	Reinforcement main	Reinforcement cross	dphi dir	dphi deg	Shr zon	VEd/d [MPa]	Ass [cm2/m2]
		MBW									VRd,ct/d	
1	1042	maximum		0.35	2.44	0.56	0		1	0.155		
					7.13	1.59	0				0.481	
1	1043	maximum		0.35	2.45	0.56	0		1	0.156		
					7.13	1.61	0				0.482	
1	1044	maximum		0.35	2.45	0.55	0		1	0.157		
					7.13	1.62	0				0.482	
1	1045	maximum		0.35	2.46	0.55	0		1	0.159		
					7.12	1.63	0				0.482	
1	1046	maximum		0.35	2.46	0.54	0		1	0.161		
					7.08	1.62	0				0.483	
1	1047	maximum		0.35	2.48	0.52	0		1	0.164		
					7.00	1.54	0				0.484	
1	1048	maximum		0.35	2.49	0.50	0		1	0.164		
					6.98	1.45	0				0.484	
1	1049	maximum		0.35	2.50	0.50	0		1	0.154		
					7.28	1.46	0				0.480	
1	1050	maximum		0.35	2.45	0.49	0		1	0.125		
					7.66	1.53	0				0.469	
1	1051	maximum		0.35	2.42	0.48	0		1	0.143		
					6.01	1.20	0				0.469	
1	1052	maximum		0.35	2.44	0.49	0		1	0.139		
					5.84	1.17	0				0.476	
1	1053	maximum		0.35	2.45	0.49	0		1	0.147		
					5.62	1.12	0				0.480	
1	1054	maximum		0.35	2.45	0.49	0		1	0.151		
					5.52	1.22	0				0.481	
1	1055	maximum		0.35	2.44	0.51	0		1	0.151		
					5.55	1.28	0				0.481	
1	1056	maximum		0.35	2.43	0.53	0		1	0.150		
					5.60	1.31	0				0.480	
1	1057	maximum		0.35	2.43	0.54	0		1	0.149		
					5.63	1.31	0				0.479	
1	1058	maximum		0.35	2.43	0.55	0		1	0.148		
					5.65	1.30	0				0.479	
1	1059	maximum		0.35	2.43	0.55	0		1	0.148		
					5.66	1.29	0				0.479	
1	1060	maximum		0.35	2.43	0.55	0		1	0.148		
					5.67	1.28	0				0.478	
1	1061	maximum		0.35	2.43	0.55	0		1	0.147		
					5.67	1.28	0				0.478	
1	1062	maximum		0.35	2.43	0.55	0		1	0.147		
					5.67	1.28	0				0.478	
1	1063	maximum		0.35	2.43	0.55	0		1	0.147		
					5.67	1.27	0				0.478	
1	1064	maximum		0.35	2.43	0.55	0		1	0.147		
					5.67	1.28	0				0.478	
1	1065	maximum		0.35	2.43	0.55	0		1	0.147		
					5.67	1.28	0				0.478	
1	1066	maximum		0.35	2.43	0.55	0		1	0.148		
					5.67	1.28	0				0.478	
1	1067	maximum		0.35	2.43	0.55	0		1	0.148		
					5.66	1.29	0				0.479	
1	1068	maximum		0.35	2.43	0.55	0		1	0.148		
					5.65	1.30	0				0.479	
1	1069	maximum		0.35	2.43	0.54	0		1	0.149		
					5.63	1.31	0				0.479	
1	1070	maximum		0.35	2.43	0.53	0		1	0.150		
					5.60	1.31	0				0.480	
1	1071	maximum		0.35	2.44	0.51	0		1	0.151		
					5.55	1.28	0				0.481	
1	1072	maximum		0.35	2.45	0.49	0		1	0.151		
					5.52	1.22	0				0.481	
1	1073	maximum		0.35	2.45	0.49	0		1	0.147		
					5.62	1.12	0				0.480	
1	1074	maximum		0.35	2.44	0.49	0		1	0.139		
					5.84	1.17	0				0.476	
1	1075	maximum		0.35	2.42	0.48	0		1	0.143		
					6.01	1.20	0				0.469	
1	1076	maximum		0.35	2.21	0.44	0		1	0.144		
					4.68	0.94	0				0.469	
1	1077	maximum		0.35	2.22	0.44	0		1	0.122		
					4.39	0.88	0				0.473	
1	1078	maximum		0.35	2.22	0.44	0		1	0.128		
					4.28	0.86	0				0.476	

ΤΑΦΡΟΣ T1 (3.00x2.80x1.50)m
ΔΙΑΣΤΑΣΙΟΛΟΓΗΣΗ ULS-STATIKA

REINFORCEMENT ACC. TO EN 1992-1-1:2004(EC2) in [cm2/m] upper/lower
General load safety factor - as defined in BEMESS: Gamma-f = 1.00
Shear: stresses VEd/d and VRd,ct/d with d=effective depth = h-hm
Shear index 2m = minimum shear reinforcement

Grp	ELEM No	LC No	MAT No	GEO No	h [m]	Reinforcement main	Reinforcement cross	dphi dir	dphi deg	Shr zon	VEd/d [MPa]	Ass [cm2/m2]
		MBW									VRd,ct/d	
1	1079	maximum		0.35	2.22	0.44	0		1	0.131		
					4.21	0.94	0				0.478	
1	1080	maximum		0.35	2.23	0.45	0		1	0.132		
					4.20	1.00	0				0.478	
1	1081	maximum		0.35	2.23	0.48	0		1	0.132		
					4.23	1.01	0				0.477	
1	1082	maximum		0.35	2.23	0.50	0		1	0.132		
					4.25	1.01	0				0.477	
1	1083	maximum		0.35	2.23	0.50	0		1	0.132		
					4.28	1.01	0				0.476	
1	1084	maximum		0.35	2.23	0.51	0		1	0.132		
					4.29	1.00	0				0.476	
1	1085	maximum		0.35	2.23	0.51	0		1	0.132		
					4.30	1.00	0				0.476	
1	1086	maximum		0.35	2.22	0.51	0		1	0.132		
					4.31	1.00	0				0.476	
1	1087	maximum		0.35	2.22	0.51	0		1	0.132		
					4.31	0.99	0				0.475	
1	1088	maximum		0.35	2.22	0.51	0		1	0.132		
					4.31	0.99	0				0.475	
1	1089	maximum		0.35	2.22	0.51	0		1	0.132		
					4.31	0.99	0				0.475	
1	1090	maximum		0.35	2.22	0.51	0		1	0.132		
					4.31	1.00	0				0.476	
1	1091	maximum		0.35	2.23	0.51	0		1	0.132		
					4.30	1.00	0				0.476	
1	1092	maximum		0.35	2.23	0.51	0		1	0.132		
					4.29	1.00	0				0.476	
1	1093	maximum		0.35	2.23	0.50	0		1	0.132		
					4.28	1.01	0				0.476	
1	1094	maximum		0.35	2.23	0.50	0		1	0.132		
					4.25	1.01	0				0.477	
1	1095	maximum		0.35	2.23	0.48	0		1	0.132		
					4.23	1.01	0				0.477	
1	1096	maximum		0.35	2.23	0.45	0		1	0.132		
					4.20	1.00	0				0.478	
1	1097	maximum		0.35	2.22	0.44	0		1	0.131		
					4.21	0.94	0				0.478	
1	1098	maximum		0.35	2.22	0.44	0		1	0.128		
					4.28	0.86	0				0.476	
1	1099	maximum		0.35	2.22	0.44	0		1	0.122		
					4.39	0.88	0				0.473	
1	1100	maximum		0.35	2.21	0.44	0		1	0.144		
					4.68	0.94	0				0.469	
1	1101	maximum		0.35	1.92	0.38	0		1	0.133		
					3.59	0.72	0				0.467	
1	1102	maximum		0.35	1.93	0.39	0		1	0.098		
					3.39	0.68	0				0.471	
1	1103	maximum		0.35	1.92	0.38	0		1	0.102		
					3.17	0.63	0				0.473	
1	1104	maximum		0.35	1.90	0.38	0		1	0.104		
					3.16	0.71	0				0.475	
1	1105	maximum		0.35	1.90	0.39	0		1	0.105		
					3.14	0.78	0				0.475	
1	1106	maximum		0.35	1.89	0.41	0		1	0.107		
					3.15	0.80	0				0.474	
1	1107	maximum		0.35	1.89	0.42	0		1	0.108		
					3.16	0.80	0				0.474	
1	1108	maximum		0.35	1.89	0.43	0		1	0.108		
					3.17	0.79	0				0.473	
1	1109	maximum		0.35	1.89	0.43	0		1	0.108		
					3.18	0.78	0				0.473	
1	1110	maximum		0.35	1.89	0.44	0		1	0.109		
					3.19	0.77	0				0.473	
1	1111	maximum		0.35	1.89	0.44	0		1	0.109		
					3.19	0.77	0				0.473	
1	1112	maximum		0.35	1.89	0.44	0		1	0.109		
					3.19	0.77	0				0.473	
1	1113	maximum		0.35	1.89	0.44	0		1	0.109		
					3.19	0.76	0				0.473	
1	1114	maximum		0.35	1.89	0.44	0		1	0.109		
					3.19	0.77	0				0.473	
1	1115	maximum		0.35	1.89	0.44	0		1	0.109		
					3.19	0.77	0				0.473	

ΤΑΦΡΟΣ T1 (3.00x2.80x1.50)m
ΔΙΑΣΤΑΣΙΟΛΟΓΗΣΗ ULS-STATIKA

REINFORCEMENT ACC. TO EN 1992-1-1:2004(EC2) in [cm2/m] upper/lower
General load safety factor - as defined in BEMESS: Gamma-f = 1.00
Shear: stresses VEd/d and VRd,ct/d with d=effective depth = h-hm
Shear index 2m = minimum shear reinforcement

Grp	ELEM No	LC No	MAT No	GEO No	h [m]	Reinforcement main	Reinforcement cross	dphi dir	dphi deg	Shr zon	VEd/d [MPa] VRd,ct/d	Ass [cm2/m2]
		MBW										
1	1116	maximum		0.35	1.89	0.44	0		1	0.109		
					3.19	0.77	0			0.473		
1	1117	maximum		0.35	1.89	0.43	0		1	0.108		
					3.18	0.78	0			0.473		
1	1118	maximum		0.35	1.89	0.43	0		1	0.108		
					3.17	0.79	0			0.473		
1	1119	maximum		0.35	1.89	0.42	0		1	0.108		
					3.16	0.80	0			0.474		
1	1120	maximum		0.35	1.89	0.41	0		1	0.107		
					3.15	0.80	0			0.474		
1	1121	maximum		0.35	1.90	0.39	0		1	0.105		
					3.14	0.78	0			0.475		
1	1122	maximum		0.35	1.90	0.38	0		1	0.104		
					3.16	0.71	0			0.475		
1	1123	maximum		0.35	1.92	0.38	0		1	0.102		
					3.17	0.63	0			0.473		
1	1124	maximum		0.35	1.93	0.39	0		1	0.098		
					3.39	0.68	0			0.471		
1	1125	maximum		0.35	1.92	0.38	0		1	0.133		
					3.59	0.72	0			0.467		
1	1126	maximum		0.35	1.55	0.31	0		1	0.109		
					2.81	0.56	0			0.465		
1	1127	maximum		0.35	1.55	0.31	0		1	0.065		
					2.63	0.53	0			0.468		
1	1128	maximum		0.35	1.53	0.31	0		1	0.065		
					2.39	0.48	0			0.471		
1	1129	maximum		0.35	1.51	0.30	0		1	0.065		
					2.40	0.56	0			0.472		
1	1130	maximum		0.35	1.49	0.32	0		1	0.068		
					2.42	0.63	0			0.471		
1	1131	maximum		0.35	1.49	0.33	0		1	0.070		
					2.43	0.65	0			0.471		
1	1132	maximum		0.35	1.48	0.34	0		1	0.072		
					2.42	0.64	0			0.471		
1	1133	maximum		0.35	1.48	0.34	0		1	0.073		
					2.42	0.63	0			0.470		
1	1134	maximum		0.35	1.48	0.35	0		1	0.073		
					2.42	0.62	0			0.470		
1	1135	maximum		0.35	1.48	0.35	0		1	0.074		
					2.42	0.62	0			0.470		
1	1136	maximum		0.35	1.48	0.35	0		1	0.074		
					2.42	0.61	0			0.470		
1	1137	maximum		0.35	1.47	0.35	0		1	0.074		
					2.42	0.61	0			0.470		
1	1138	maximum		0.35	1.47	0.35	0		1	0.074		
					2.42	0.61	0			0.470		
1	1139	maximum		0.35	1.47	0.35	0		1	0.074		
					2.42	0.61	0			0.470		
1	1140	maximum		0.35	1.48	0.35	0		1	0.074		
					2.42	0.61	0			0.470		
1	1141	maximum		0.35	1.48	0.35	0		1	0.074		
					2.42	0.62	0			0.470		
1	1142	maximum		0.35	1.48	0.35	0		1	0.073		
					2.42	0.62	0			0.470		
1	1143	maximum		0.35	1.48	0.34	0		1	0.073		
					2.42	0.63	0			0.470		
1	1144	maximum		0.35	1.48	0.34	0		1	0.072		
					2.42	0.64	0			0.471		
1	1145	maximum		0.35	1.49	0.33	0		1	0.070		
					2.43	0.65	0			0.471		
1	1146	maximum		0.35	1.49	0.32	0		1	0.068		
					2.42	0.63	0			0.471		
1	1147	maximum		0.35	1.51	0.30	0		1	0.065		
					2.40	0.56	0			0.472		
1	1148	maximum		0.35	1.53	0.31	0		1	0.065		
					2.39	0.48	0			0.471		
1	1149	maximum		0.35	1.55	0.31	0		1	0.065		
					2.63	0.53	0			0.468		
1	1150	maximum		0.35	1.55	0.31	0		1	0.109		
					2.81	0.56	0			0.465		
1	1151	maximum		0.35	1.09	0.22	0		1	0.080		
					2.28	0.46	0			0.462		
1	1152	maximum		0.35	1.13	0.24	0		1	0.047		
					2.12	0.42	0			0.457		

ΤΑΦΡΟΣ T1 (3.00x2.80x1.50)m
ΔΙΑΣΤΑΣΙΟΛΟΓΗΣΗ ULS-STATIKA

REINFORCEMENT ACC. TO EN 1992-1-1:2004(EC2) in [cm2/m] upper/lower
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Shear index 2m = minimum shear reinforcement

Grp	ELEM No	LC No	MAT No	GEO No	h [m]	Reinforcement main	Reinforcement cross	dphi dir	dphi deg	Shr zon	VEd/d [MPa] VRd,ct/d	Ass [cm2/m2]
		MBW										
1	1153	maximum		0.35	1.11	0.25	0		1	0.047		
					2.02	0.40	0			0.464		
1	1154	maximum		0.35	1.09	0.25	0		1	0.048		
					2.07	0.48	0			0.468		
1	1155	maximum		0.35	1.07	0.25	0		1	0.049		
					2.09	0.54	0			0.469		
1	1156	maximum		0.35	1.06	0.25	0		1	0.050		
					2.08	0.55	0			0.468		
1	1157	maximum		0.35	1.05	0.25	0		1	0.051		
					2.06	0.55	0			0.467		
1	1158	maximum		0.35	1.04	0.25	0		1	0.052		
					2.04	0.55	0			0.467		
1	1159	maximum		0.35	1.04	0.25	0		1	0.052		
					2.03	0.54	0			0.467		
1	1160	maximum		0.35	1.04	0.25	0		1	0.052		
					2.03	0.54	0			0.467		
1	1161	maximum		0.35	1.04	0.25	0		1	0.052		
					2.02	0.53	0			0.467		
1	1162	maximum		0.35	1.04	0.25	0		1	0.052		
					2.02	0.53	0			0.467		
1	1163	maximum		0.35	1.04	0.25	0		1	0.052		
					2.02	0.53	0			0.467		
1	1164	maximum		0.35	1.04	0.25	0		1	0.052		
					2.02	0.53	0			0.467		
1	1165	maximum		0.35	1.04	0.25	0		1	0.052		
					2.02	0.53	0			0.467		
1	1166	maximum		0.35	1.04	0.25	0		1	0.052		
					2.03	0.54	0			0.467		
1	1167	maximum		0.35	1.04	0.25	0		1	0.052		
					2.03	0.54	0			0.467		
1	1168	maximum		0.35	1.04	0.25	0		1	0.052		
					2.04	0.55	0			0.467		
1	1169	maximum		0.35	1.05	0.25	0		1	0.051		
					2.06	0.55	0			0.467		
1	1170	maximum		0.35	1.06	0.25	0		1	0.050		
					2.08	0.55	0			0.468		
1	1171	maximum		0.35	1.07	0.25	0		1	0.049		
					2.09	0.54	0			0.469		
1	1172	maximum		0.35	1.09	0.25	0		1	0.048		
					2.07	0.48	0			0.468		
1	1173	maximum		0.35	1.11	0.25	0		1	0.047		
					2.02	0.40	0			0.464		
1	1174	maximum		0.35	1.13	0.24	0		1	0.047		
					2.12	0.42	0			0.457		
1	1175	maximum		0.35	1.09	0.22	0		1	0.080		
					2.28	0.46	0			0.462		
2	2001	maximum		0.35	0.14	0.69	0		1	0.234		
					1.38	6.89	0			0.447		
2	2002	maximum		0.35	0.07	0.35	0		1	0.193		
					0.83	4.17	0			0.444		
2	2003	maximum		0.35	0.03	0.13	0		1	0.143		
					0.45	2.24	0			0.441		
2	2004	maximum		0.35	0.04	0.01	0		1	0.093		
					0.21	1.06	0			0.438		
2	2005	maximum		0.35	0.05	0.01	0		1	0.050		
					0.07	0.35	0			0.436		
2	2006	maximum		0.35	0.05	0.01	0		1	0.015		
					0.01	0.06	0			0.433		
2	2007	maximum		0.35	0.17	0.84	0		1	0.279		
					1.26	6.28	0			0.451		
2	2008	maximum		0.35	0.08	0.39	0		1	0.191		
					0.79	3.97	0			0.443		
2	2009	maximum		0.35	0.03	0.13	0		1	0.129		
					0.45	2.24	0			0.440		
2	2010	maximum		0.35	0.05	0.01	0		1	0.079		
					0.21	1.04	0			0.439		
2	2011	maximum		0.35	0.12	0.02	0		1	0.040		
					0.08	0.40	0			0.436		
2	2012	maximum		0.35	0.13	0.03	0		1	0.011		
					0.01	0.05	0			0.434		
2	2013	maximum		0.35	0.19	0.85	0		1	0.293		
					1.26	6.28	0			0.451		
2	2014	maximum		0.35	0.08	0.41	0		1	0.205		
					0.80	3.74	0			0.446		

ΤΑΦΡΟΣ Τ1 (3.00x2.80x1.50)m
ΔΙΑΣΤΑΣΙΟΛΟΓΗΣΗ ULS-STATIKA

REINFORCEMENT ACC. TO EN 1992-1-1:2004(EC2) in [cm2/m] upper/lower
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Shear index 2m = minimum shear reinforcement

Grp	ELEM No	LC No	MAT No	GEO No	h [m]	Reinforcement main	Reinforcement cross	dphi dir	dphi deg	Shr zon	VEd/d [MPa]	Ass [cm2/m2]
		MBW									VRd,ct/d	
2	2015	maximum		0.35	0.03	0.14	0		1	0.137		
					0.47	2.13	0			0.442		
2	2016	maximum		0.35	0.01		0		1	0.084		
					0.21	1.03	0			0.438		
2	2017	maximum		0.35	0.13	0.03	0		1	0.042		
					0.09	0.44	0			0.436		
2	2018	maximum		0.35	0.17	0.03	0		1	0.012		
					0.01	0.06	0			0.433		
2	2019	maximum		0.35	0.20	0.85	0		1	0.288		
					1.29	6.44	0			0.448		
2	2020	maximum		0.35	0.10	0.41	0		1	0.208		
					0.78	3.72	0			0.445		
2	2021	maximum		0.35	0.03	0.14	0		1	0.141		
					0.48	2.05	0			0.442		
2	2022	maximum		0.35		0.01	0		1	0.086		
					0.26	0.98	0			0.439		
2	2023	maximum		0.35	0.10	0.02	0		1	0.044		
					0.11	0.41	0			0.436		
2	2024	maximum		0.35	0.19	0.04	0		1	0.012		
					0.02	0.08	0			0.433		
2	2025	maximum		0.35	0.20	0.84	0		1	0.283		
					1.30	6.49	0			0.446		
2	2026	maximum		0.35	0.11	0.40	0		1	0.208		
					0.77	3.75	0			0.444		
2	2027	maximum		0.35	0.04	0.14	0		1	0.142		
					0.47	2.04	0			0.441		
2	2028	maximum		0.35		0.01	0		1	0.088		
					0.26	0.95	0			0.439		
2	2029	maximum		0.35	0.07	0.01	0		1	0.045		
					0.14	0.39	0			0.436		
2	2030	maximum		0.35	0.19	0.04	0		1	0.013		
					0.06	0.09	0			0.433		
2	2031	maximum		0.35	0.20	0.83	0		1	0.280		
					1.30	6.50	0			0.445		
2	2032	maximum		0.35	0.11	0.40	0		1	0.206		
					0.79	3.79	0			0.443		
2	2033	maximum		0.35	0.04	0.14	0		1	0.142		
					0.46	2.06	0			0.441		
2	2034	maximum		0.35	0.01	0.01	0		1	0.088		
					0.26	0.94	0			0.438		
2	2035	maximum		0.35	0.04	0.01	0		1	0.045		
					0.16	0.37	0			0.436		
2	2036	maximum		0.35	0.16	0.03	0		1	0.013		
					0.10	0.08	0			0.433		
2	2037	maximum		0.35	0.20	0.82	0		1	0.278		
					1.30	6.49	0			0.445		
2	2038	maximum		0.35	0.11	0.40	0		1	0.205		
					0.79	3.81	0			0.442		
2	2039	maximum		0.35	0.05	0.14	0		1	0.142		
					0.47	2.09	0			0.440		
2	2040	maximum		0.35	0.01		0		1	0.088		
					0.26	0.95	0			0.438		
2	2041	maximum		0.35	0.02		0		1	0.045		
					0.16	0.37	0			0.436		
2	2042	maximum		0.35	0.14	0.03	0		1	0.013		
					0.13	0.07	0			0.433		
2	2043	maximum		0.35	0.19	0.82	0		1	0.277		
					1.30	6.49	0			0.445		
2	2044	maximum		0.35	0.10	0.40	0		1	0.204		
					0.80	3.84	0			0.442		
2	2045	maximum		0.35	0.05	0.14	0		1	0.141		
					0.48	2.10	0			0.440		
2	2046	maximum		0.35	0.01		0		1	0.088		
					0.27	0.96	0			0.437		
2	2047	maximum		0.35	0.01		0		1	0.045		
					0.18	0.38	0			0.436		
2	2048	maximum		0.35	0.12	0.02	0		1	0.013		
					0.16	0.08	0			0.434		
2	2049	maximum		0.35	0.19	0.82	0		1	0.276		
					1.30	6.48	0			0.444		
2	2050	maximum		0.35	0.10	0.33	0		1	0.203		
					0.80	3.84	0			0.442		
2	2051	maximum		0.35	0.04	0.08	0		1	0.141		
					0.48	2.11	0			0.440		

ΤΑΦΡΟΣ Τ1 (3.00x2.80x1.50)m
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Grp	ELEM No	LC No	MAT No	GEO No	h [m]	Reinforcement main	Reinforcement cross	dphi dir	dphi deg	Shr zon	VEd/d [MPa]	Ass [cm2/m2]
		MBW									VRd,ct/d	
2	2052	maximum		0.35	0.01		0		1	0.088		
					0.28	0.97	0			0.437		
2	2053	maximum		0.35	0.01		0		1	0.045		
					0.19	0.33	0			0.436		
2	2054	maximum		0.35	0.10	0.02	0		1	0.013		
					0.17	0.09	0			0.434		
2	2055	maximum		0.35	0.19	0.81	0		1	0.276		
					1.29	6.47	0			0.444		
2	2056	maximum		0.35	0.10	0.39	0		1	0.203		
					0.80	3.84	0			0.442		
2	2057	maximum		0.35	0.04	0.08	0		1	0.140		
					0.48	2.11	0			0.440		
2	2058	maximum		0.35	0.01		0		1	0.088		
					0.28	0.97	0			0.437		
2	2059	maximum		0.35			0		1	0.045		
					0.20	0.33	0			0.436		
2	2060	maximum		0.35	0.10	0.02	0		1	0.013		
					0.17	0.09	0			0.434		
2	2061	maximum		0.35	0.19	0.81	0		1	0.276		
					1.29	6.47	0			0.444		
2	2062	maximum		0.35	0.10	0.39	0		1	0.203		
					0.80	3.84	0			0.442		
2	2063	maximum		0.35	0.04	0.13	0		1	0.140		
					0.48	2.11	0			0.440		
2	2064	maximum		0.35	0.01		0		1	0.088		
					0.28	0.97	0			0.437		
2	2065	maximum		0.35	0.01		0		1	0.045		
					0.18	0.33	0			0.436		
2	2066	maximum		0.35	0.09	0.02	0		1	0.013		
					0.17	0.08	0			0.434		
2	2067	maximum		0.35	0.19	0.81	0		1	0.276		
					1.29	6.46	0			0.444		
2	2068	maximum		0.35	0.10	0.39	0		1	0.203		
					0.80	3.83	0			0.442		
2	2069	maximum		0.35	0.04	0.13	0		1	0.140		
					0.48	2.10	0			0.440		
2	2070	maximum		0.35	0.01		0		1	0.087		
					0.28	0.97	0			0.437		
2	2071	maximum		0.35	0.01		0		1	0.045		
					0.18	0.33	0			0.436		
2	2072	maximum		0.35	0.09	0.02	0		1	0.013		
					0.17	0.08	0			0.434		
2	2073	maximum		0.35	0.19	0.81	0		1	0.276		
					1.29	6.46	0			0.444		
2	2074	maximum		0.35	0.10	0.39	0		1	0.203		
					0.80	3.83	0			0.442		
2	2075	maximum		0.35	0.04	0.13	0		1	0.140		
					0.48	2.10	0			0.440		
2	2076	maximum		0.35			0		1	0.087		
					0.28	0.96	0			0.437		
2	2077	maximum		0.35	0.01		0		1	0.045		
					0.18	0.32	0			0.436		
2	2078	maximum		0.35	0.09	0.02	0		1	0.013		
					0.17	0.08	0			0.434		
2	2079	maximum		0.35	0.19	0.81	0		1	0.276		
					1.29	6.46	0			0.444		
2	2080	maximum		0.35	0.10	0.39	0		1	0.203		
					0.80	3.83	0			0.442		
2	2081	maximum		0.35	0.04	0.13	0		1	0.140		
					0.48	2.10	0			0.440		
2	2082	maximum		0.35	0.01		0		1	0.087		
					0.28	0.97	0			0.437		
2	2083	maximum		0.35	0.01		0		1	0.045		
					0.18	0.33	0			0.436		
2	2084	maximum		0.35	0.09	0.02	0		1	0.013		
					0.17	0.08	0			0.434		
2	2085	maximum		0.35	0.19	0.81	0		1	0.276		
					1.29	6.47	0			0.444		
2	2086	maximum		0.35	0.10	0.39	0		1	0.203		
					0.80	3.84	0			0.442		
2	2087	maximum		0.35	0.04	0.13	0		1	0.140		
					0.48	2.11	0			0.440		
2	2088	maximum		0.35	0.01		0		1	0.088		
					0.28	0.97	0			0.437		

ΤΑΦΡΟΣ Τ1 (3.00x2.80x1.50)m
ΔΙΑΣΤΑΣΙΟΛΟΓΗΣΗ ULS-STATIKA

REINFORCEMENT ACC. TO EN 1992-1-1:2004(EC2) in [cm2/m] upper/lower
General load safety factor - as defined in BEMESS: Gamma-f = 1.00
Shear: stresses VEd/d and VRd,ct/d with d=effective depth = h-hm
Shear index 2m = minimum shear reinforcement

Grp	ELEM No	LC No	MAT No	GEO No	h [m]	Reinforcement main	Reinforcement cross	dphi dir	dphi deg	Shr zon	VEd/d [MPa]	Ass [cm2/m2]
		MBW									VRd,ct/d	
2	2089	maximum		0.35		0.01		0		1	0.045	
						0.18	0.33	0			0.436	
2	2090	maximum		0.35		0.09	0.02	0		1	0.013	
						0.17	0.08	0			0.434	
2	2091	maximum		0.35		0.19	0.81	0		1	0.276	
						1.29	6.47	0			0.444	
2	2092	maximum		0.35		0.10	0.39	0		1	0.203	
						0.80	3.84	0			0.442	
2	2093	maximum		0.35		0.04	0.08	0		1	0.140	
						0.48	2.11	0			0.440	
2	2094	maximum		0.35		0.01		0		1	0.088	
						0.28	0.97	0			0.437	
2	2095	maximum		0.35				0		1	0.045	
						0.20	0.33	0			0.436	
2	2096	maximum		0.35		0.10	0.02	0		1	0.013	
						0.17	0.09	0			0.434	
2	2097	maximum		0.35		0.19	0.82	0		1	0.276	
						1.30	6.48	0			0.444	
2	2098	maximum		0.35		0.10	0.33	0		1	0.203	
						0.80	3.84	0			0.442	
2	2099	maximum		0.35		0.04	0.08	0		1	0.141	
						0.48	2.11	0			0.440	
2	2100	maximum		0.35		0.01		0		1	0.088	
						0.28	0.97	0			0.437	
2	2101	maximum		0.35		0.01		0		1	0.045	
						0.19	0.33	0			0.436	
2	2102	maximum		0.35		0.10	0.02	0		1	0.013	
						0.17	0.09	0			0.434	
2	2103	maximum		0.35		0.19	0.82	0		1	0.277	
						1.30	6.49	0			0.445	
2	2104	maximum		0.35		0.10	0.40	0		1	0.204	
						0.80	3.84	0			0.442	
2	2105	maximum		0.35		0.05	0.14	0		1	0.141	
						0.48	2.10	0			0.440	
2	2106	maximum		0.35		0.01		0		1	0.088	
						0.27	0.96	0			0.437	
2	2107	maximum		0.35		0.01		0		1	0.045	
						0.18	0.38	0			0.436	
2	2108	maximum		0.35		0.12	0.02	0		1	0.013	
						0.16	0.08	0			0.434	
2	2109	maximum		0.35		0.20	0.82	0		1	0.278	
						1.30	6.49	0			0.445	
2	2110	maximum		0.35		0.11	0.40	0		1	0.205	
						0.79	3.81	0			0.442	
2	2111	maximum		0.35		0.05	0.14	0		1	0.142	
						0.47	2.09	0			0.440	
2	2112	maximum		0.35		0.01		0		1	0.088	
						0.26	0.95	0			0.438	
2	2113	maximum		0.35		0.02		0		1	0.045	
						0.16	0.37	0			0.436	
2	2114	maximum		0.35		0.14	0.03	0		1	0.013	
						0.13	0.07	0			0.433	
2	2115	maximum		0.35		0.20	0.83	0		1	0.280	
						1.30	6.50	0			0.445	
2	2116	maximum		0.35		0.11	0.40	0		1	0.206	
						0.79	3.79	0			0.443	
2	2117	maximum		0.35		0.04	0.14	0		1	0.142	
						0.46	2.06	0			0.441	
2	2118	maximum		0.35		0.01	0.01	0		1	0.088	
						0.26	0.94	0			0.438	
2	2119	maximum		0.35		0.04	0.01	0		1	0.045	
						0.16	0.37	0			0.436	
2	2120	maximum		0.35		0.16	0.03	0		1	0.013	
						0.10	0.08	0			0.433	
2	2121	maximum		0.35		0.20	0.84	0		1	0.283	
						1.30	6.49	0			0.446	
2	2122	maximum		0.35		0.11	0.40	0		1	0.208	
						0.77	3.75	0			0.444	
2	2123	maximum		0.35		0.04	0.14	0		1	0.142	
						0.47	2.04	0			0.441	
2	2124	maximum		0.35			0.01	0		1	0.088	
						0.26	0.95	0			0.439	
2	2125	maximum		0.35		0.07	0.01	0		1	0.045	
						0.14	0.39	0			0.436	

ΤΑΦΡΟΣ Τ1 (3.00x2.80x1.50)m
ΔΙΑΣΤΑΣΙΟΛΟΓΗΣΗ ULS-STATIKA

REINFORCEMENT ACC. TO EN 1992-1-1:2004(EC2) in [cm2/m] upper/lower
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Grp	ELEM No	LC No	MAT No	GEO No	h [m]	Reinforcement main	Reinforcement cross	dphi dir	dphi deg	Shr zon	VEd/d [MPa]	Ass [cm2/m2]
		MBW									VRd,ct/d	
2	2126	maximum		0.35		0.19	0.04	0		1	0.013	
						0.06	0.09	0			0.433	
2	2127	maximum		0.35		0.20	0.85	0		1	0.288	
						1.29	6.44	0			0.448	
2	2128	maximum		0.35		0.10	0.41	0		1	0.208	
						0.78	3.72	0			0.445	
2	2129	maximum		0.35		0.03	0.14	0		1	0.141	
						0.48	2.05	0			0.442	
2	2130	maximum		0.35			0.01	0		1	0.086	
						0.26	0.98	0			0.439	
2	2131	maximum		0.35		0.10	0.02	0		1	0.044	
						0.11	0.41	0			0.436	
2	2132	maximum		0.35		0.19	0.04	0		1	0.012	
						0.02	0.08	0			0.433	
2	2133	maximum		0.35		0.19	0.85	0		1	0.293	
						1.26	6.28	0			0.451	
2	2134	maximum		0.35		0.08	0.41	0		1	0.205	
						0.80	3.74	0			0.446	
2	2135	maximum		0.35		0.03	0.14	0		1	0.137	
						0.47	2.13	0			0.442	
2	2136	maximum		0.35		0.01		0		1	0.084	
						0.21	1.03	0			0.438	
2	2137	maximum		0.35		0.13	0.03	0		1	0.042	
						0.09	0.44	0			0.436	
2	2138	maximum		0.35		0.17	0.03	0		1	0.012	
						0.01	0.06	0			0.433	
2	2139	maximum		0.35		0.17	0.84	0		1	0.279	
						1.26	6.28	0			0.451	
2	2140	maximum		0.35		0.08	0.39	0		1	0.191	
						0.79	3.97	0			0.443	
2	2141	maximum		0.35		0.03	0.13	0		1	0.129	
						0.45	2.24	0			0.440	
2	2142	maximum		0.35		0.05	0.01	0		1	0.079	
						0.21	1.04	0			0.439	
2	2143	maximum		0.35		0.12	0.02	0		1	0.040	
						0.08	0.40	0			0.436	
2	2144	maximum		0.35		0.13	0.03	0		1	0.011	
						0.01	0.05	0			0.434	
2	2145	maximum		0.35		0.14	0.69	0		1	0.234	
						1.38	6.89	0			0.447	
2	2146	maximum		0.35		0.07	0.35	0		1	0.193	
						0.83	4.17	0			0.444	
2	2147	maximum		0.35		0.03	0.13	0		1	0.143	
						0.45	2.24	0			0.441	
2	2148	maximum		0.35		0.04	0.01	0		1	0.093	
						0.21	1.06	0			0.438	
2	2149	maximum		0.35		0.05	0.01	0		1	0.050	
						0.07	0.35	0			0.436	
2	2150	maximum		0.35		0.05	0.01	0		1	0.015	
						0.01	0.06	0			0.433	
3	3001	maximum		0.35		0.06	0.09	0		1	0.092	
						0.28	1.38	0			0.440	
3	3002	maximum		0.35		0.07	0.19	0		1	0.101	
						0.27	1.15	0			0.441	
3	3003	maximum		0.35		0.07	0.20	0		1	0.108	
						0.27	1.16	0			0.441	
3	3004	maximum		0.35		0.07	0.19	0		1	0.107	
						0.29	1.22	0			0.440	
3	3005	maximum		0.35		0.06	0.18	0		1	0.105	
						0.31	1.25	0			0.439	
3	3006	maximum		0.35		0.05	0.17	0		1	0.104	
						0.33	1.25	0			0.438	
3	3007	maximum		0.35		0.04	0.16	0		1	0.103	
						0.34	1.25	0			0.438	
3	3008	maximum		0.35		0.03	0.16	0		1	0.102	
						0.34	1.24	0			0.438	
3	3009	maximum		0.35		0.03	0.15	0		1	0.102	
						0.34	1.24	0			0.438	
3	3010	maximum		0.35		0.03	0.15	0		1	0.102	
						0.35	1.23	0			0.438	
3	3011	maximum		0.35		0.03	0.15	0		1	0.102	
						0.35	1.23	0			0.438	
3	3012	maximum		0.35		0.03	0.15	0		1	0.102	
						0.35	1.23	0			0.438	

ΤΑΦΡΟΣ T1 (3.00x2.80x1.50)m
ΔΙΑΣΤΑΣΙΟΛΟΓΗΣΗ ULS-STATIKA

REINFORCEMENT ACC. TO EN 1992-1-1:2004(EC2) in [cm2/m] upper/lower
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Grp	ELEM No	LC No	MAT No	GEO No	h [m]	Reinforcement main	Reinforcement cross	dphi dir	dphi deg	Shr zon	VEd/d [MPa] VRd,ct/d	Ass [cm2/m2]
		MBW										
3	3013	maximum		0.35	0.03	0.15	0		1		0.102	
					0.35	1.23	0				0.438	
3	3014	maximum		0.35	0.03	0.15	0		1		0.102	
					0.35	1.23	0				0.438	
3	3015	maximum		0.35	0.03	0.15	0		1		0.102	
					0.35	1.23	0				0.438	
3	3016	maximum		0.35	0.03	0.15	0		1		0.102	
					0.35	1.23	0				0.438	
3	3017	maximum		0.35	0.03	0.15	0		1		0.102	
					0.34	1.24	0				0.438	
3	3018	maximum		0.35	0.03	0.16	0		1		0.102	
					0.34	1.24	0				0.438	
3	3019	maximum		0.35	0.04	0.16	0		1		0.103	
					0.34	1.25	0				0.438	
3	3020	maximum		0.35	0.05	0.17	0		1		0.104	
					0.33	1.25	0				0.438	
3	3021	maximum		0.35	0.06	0.18	0		1		0.105	
					0.31	1.25	0				0.439	
3	3022	maximum		0.35	0.07	0.19	0		1		0.107	
					0.29	1.22	0				0.440	
3	3023	maximum		0.35	0.07	0.20	0		1		0.108	
					0.27	1.16	0				0.441	
3	3024	maximum		0.35	0.07	0.19	0		1		0.101	
					0.27	1.15	0				0.441	
3	3025	maximum		0.35	0.06	0.09	0		1		0.092	
					0.28	1.38	0				0.440	
3	3026	maximum		0.35	0.03	0.01	0		1		0.062	
					0.13	0.66	0				0.437	
3	3027	maximum		0.35	0.03	0.04	0		1		0.061	
					0.20	0.60	0				0.437	
3	3028	maximum		0.35	0.02	0.05	0		1		0.066	
					0.20	0.53	0				0.438	
3	3029	maximum		0.35	0.02	0.05	0		1		0.068	
					0.20	0.55	0				0.437	
3	3030	maximum		0.35	0.01	0.04	0		1		0.067	
					0.22	0.59	0				0.437	
3	3031	maximum		0.35	0.01	0.03	0		1		0.066	
					0.23	0.60	0				0.436	
3	3032	maximum		0.35			0		1		0.065	
					0.23	0.60	0				0.436	
3	3033	maximum		0.35			0		1		0.065	
					0.23	0.59	0				0.436	
3	3034	maximum		0.35		0.02	0		1		0.065	
					0.23	0.58	0				0.436	
3	3035	maximum		0.35		0.02	0		1		0.065	
					0.23	0.58	0				0.436	
3	3036	maximum		0.35		0.02	0		1		0.065	
					0.22	0.57	0				0.436	
3	3037	maximum		0.35		0.02	0		1		0.065	
					0.22	0.57	0				0.436	
3	3038	maximum		0.35		0.02	0		1		0.065	
					0.22	0.57	0				0.436	
3	3039	maximum		0.35		0.02	0		1		0.065	
					0.22	0.57	0				0.436	
3	3040	maximum		0.35		0.02	0		1		0.065	
					0.22	0.57	0				0.436	
3	3041	maximum		0.35		0.02	0		1		0.065	
					0.23	0.58	0				0.436	
3	3042	maximum		0.35		0.02	0		1		0.065	
					0.23	0.58	0				0.436	
3	3043	maximum		0.35			0		1		0.065	
					0.23	0.59	0				0.436	
3	3044	maximum		0.35			0		1		0.065	
					0.23	0.60	0				0.436	
3	3045	maximum		0.35	0.01	0.03	0		1		0.066	
					0.23	0.60	0				0.436	
3	3046	maximum		0.35	0.01	0.04	0		1		0.067	
					0.22	0.59	0				0.437	
3	3047	maximum		0.35	0.02	0.05	0		1		0.068	
					0.20	0.55	0				0.437	
3	3048	maximum		0.35	0.02	0.05	0		1		0.066	
					0.20	0.53	0				0.438	
3	3049	maximum		0.35	0.03	0.04	0		1		0.061	
					0.20	0.60	0				0.437	

ΤΑΦΡΟΣ T1 (3.00x2.80x1.50)m
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Grp	ELEM No	LC No	MAT No	GEO No	h [m]	Reinforcement main	Reinforcement cross	dphi dir	dphi deg	Shr zon	VEd/d [MPa] VRd,ct/d	Ass [cm2/m2]
		MBW										
3	3050	maximum		0.35	0.03	0.01	0		1		0.062	
					0.13	0.66	0				0.437	
3	3051	maximum		0.35	0.05	0.01	0		1		0.034	
					0.05	0.24	0				0.436	
3	3052	maximum		0.35	0.08	0.02	0		1		0.031	
					0.11	0.26	0				0.435	
3	3053	maximum		0.35	0.06	0.01	0		1		0.034	
					0.15	0.22	0				0.435	
3	3054	maximum		0.35	0.04	0.01	0		1		0.035	
					0.16	0.21	0				0.435	
3	3055	maximum		0.35	0.03	0.01	0		1		0.035	
					0.19	0.24	0				0.435	
3	3056	maximum		0.35	0.03	0.01	0		1		0.035	
					0.20	0.25	0				0.435	
3	3057	maximum		0.35	0.04	0.01	0		1		0.035	
					0.19	0.25	0				0.435	
3	3058	maximum		0.35	0.04	0.01	0		1		0.034	
					0.18	0.24	0				0.435	
3	3059	maximum		0.35	0.04	0.01	0		1		0.034	
					0.17	0.24	0				0.435	
3	3060	maximum		0.35	0.05	0.01	0		1		0.034	
					0.17	0.23	0				0.435	
3	3061	maximum		0.35	0.05	0.01	0		1		0.034	
					0.16	0.22	0				0.435	
3	3062	maximum		0.35	0.05	0.01	0		1		0.034	
					0.16	0.22	0				0.435	
3	3063	maximum		0.35	0.05	0.01	0		1		0.034	
					0.16	0.22	0				0.435	
3	3064	maximum		0.35	0.05	0.01	0		1		0.034	
					0.16	0.22	0				0.435	
3	3065	maximum		0.35	0.05	0.01	0		1		0.034	
					0.16	0.22	0				0.435	
3	3066	maximum		0.35	0.05	0.01	0		1		0.034	
					0.17	0.23	0				0.435	
3	3067	maximum		0.35	0.04	0.01	0		1		0.034	
					0.17	0.24	0				0.435	
3	3068	maximum		0.35	0.04	0.01	0		1		0.034	
					0.18	0.24	0				0.435	
3	3069	maximum		0.35	0.04	0.01	0		1		0.035	
					0.19	0.25	0				0.435	
3	3070	maximum		0.35	0.03	0.01	0		1		0.035	
					0.20	0.25	0				0.435	
3	3071	maximum		0.35	0.03	0.01	0		1		0.035	
					0.19	0.24	0				0.435	
3	3072	maximum		0.35	0.04	0.01	0		1		0.035	
					0.16	0.21	0				0.435	
3	3073	maximum		0.35	0.06	0.01	0		1		0.034	
					0.15	0.22	0				0.435	
3	3074	maximum		0.35	0.08	0.02	0		1		0.031	
					0.11	0.26	0				0.435	
3	3075	maximum		0.35	0.05	0.01	0		1		0.034	
					0.05	0.24	0				0.436	
3	3076	maximum		0.35	0.04	0.01	0		1		0.010	
					0.01	0.03	0				0.433	
3	3077	maximum		0.35	0.13	0.03	0		1		0.009	
					0.03	0.06	0				0.434	
3	3078	maximum		0.35	0.15	0.03	0		1		0.010	
					0.11	0.05	0				0.434	
3	3079	maximum		0.35	0.14	0.03	0		1		0.011	
					0.17	0.05	0				0.434	
3	3080	maximum		0.35	0.12	0.02	0		1		0.011	
					0.21	0.06	0				0.434	
3	3081	maximum		0.35	0.12	0.02	0		1		0.010	
					0.21	0.07	0				0.434	
3	3082	maximum		0.35	0.11	0.02	0		1		0.010	
					0.20	0.07	0				0.434	
3	3083	maximum		0.35	0.11	0.02	0		1		0.010	
					0.18	0.06	0				0.433	
3	3084	maximum		0.35	0.11	0.02	0		1		0.010	
					0.17	0.05	0				0.433	
3	3085	maximum		0.35	0.11	0.02	0		1		0.010	
					0.16	0.05	0				0.433	
3	3086	maximum		0.35	0.12	0.02	0		1		0.010	
					0.15	0.05	0				0.433	

ΤΑΦΡΟΣ T1 (3.00x2.80x1.50)m
ΔΙΑΣΤΑΣΙΟΛΟΓΗΣΗ ULS-STATIKA

REINFORCEMENT ACC. TO EN 1992-1-1:2004(EC2) in [cm2/m] upper/lower
General load safety factor - as defined in BEMESS: Gamma-f = 1.00
Shear: stresses VEd/d and VRd,ct/d with d=effective depth = h-hm
Shear index 2m = minimum shear reinforcement

Grp	ELEM No	LC No	MAT No	GEO No	h [m]	Reinforcement main	Reinforcement cross	dphi dir	dphi deg	Shr zon	VEd/d [MPa] VRd,ct/d	Ass [cm2/m2]
		MBW										
3	3087	maximum			0.35	0.12	0.02	0		1	0.010	
						0.15	0.05	0				0.433
3	3088	maximum			0.35	0.12	0.02	0		1	0.010	
						0.14	0.04	0				0.433
3	3089	maximum			0.35	0.12	0.02	0		1	0.010	
						0.15	0.05	0				0.433
3	3090	maximum			0.35	0.12	0.02	0		1	0.010	
						0.15	0.05	0				0.433
3	3091	maximum			0.35	0.11	0.02	0		1	0.010	
						0.16	0.05	0				0.433
3	3092	maximum			0.35	0.11	0.02	0		1	0.010	
						0.17	0.05	0				0.433
3	3093	maximum			0.35	0.11	0.02	0		1	0.010	
						0.18	0.06	0				0.433
3	3094	maximum			0.35	0.11	0.02	0		1	0.010	
						0.20	0.07	0				0.434
3	3095	maximum			0.35	0.12	0.02	0		1	0.010	
						0.21	0.07	0				0.434
3	3096	maximum			0.35	0.12	0.02	0		1	0.011	
						0.21	0.06	0				0.434
3	3097	maximum			0.35	0.14	0.03	0		1	0.011	
						0.17	0.05	0				0.434
3	3098	maximum			0.35	0.15	0.03	0		1	0.010	
						0.11	0.05	0				0.434
3	3099	maximum			0.35	0.13	0.03	0		1	0.009	
						0.03	0.06	0				0.434
3	3100	maximum			0.35	0.04	0.01	0		1	0.010	
						0.01	0.03	0				0.433

Explanations shear state Shr zon:
1 = check without necessary shear reinforcement
2 = shear reinforcement required
m = minimum shear reinforcement

ΤΑΦΡΟΣ T1 (3.00x2.80x1.50)m

5. ΕΛΕΓΧΟΣ ΣΕΙΣΜΙΚΩΝ ΦΟΡΤΙΣΕΩΝ ΑΣΤΟΧΙΑΣ (Q=1.50)

ΤΑΦΡΟΣ Τ1 (3.00x2.80x1.50)m
ΣΥΝΔΥΑΣΜΕΝΕΣ ΣΕΙΣΜΙΚΕΣ ΦΟΡΤΙΣΕΙΣ(QH=1.50)

Load Case 2001 ΣΕΙΣΜΟΣ +1.0ΕΧ+0.3ΕΥ+0.3ΕΖ

Factor forces and moments		1.000	
Factor dead weight	DL-XX	0.480	
Factor dead weight	DL-YY	0.144	
Factor dead weight	DL-ZZ	1.233	
Loads partially copied from load case		3 with factor	1.000
Loads partially copied from load case		5 with factor	0.200
Loads partially copied from load case		13 with factor	1.000

Meshfree Loading

Kind	Referenceto	Projection Coordinates W[m]	X[m]	Y[m]	Z[m]	Type Loadvalue
Area			-1.675	12.000	-2.975	PXX 0.00 [kN/m2]
			-1.675	0.000	-2.975	0.00 [kN/m2]
			-1.675	0.000	-0.175	25.75 [kN/m2]
			-1.675	12.000	-0.175	25.75 [kN/m2]
	QGRP 2	1.000			activated	100.00 percent
Area			1.675	12.000	-1.675	PXX 0.00 [kN/m2]
			1.675	0.000	-1.675	0.00 [kN/m2]
			1.675	0.000	-0.175	-13.79 [kN/m2]
			1.675	12.000	-0.175	-13.79 [kN/m2]
	QGRP 3	1.000			activated	100.00 percent
Area			1.675	0.000	-1.675	Pz -2.04 [kN/m2]
			1.675	12.000	-1.675	-2.04 [kN/m2]
			1.675	12.000	-0.175	-2.04 [kN/m2]
			1.675	0.000	-0.175	-2.04 [kN/m2]
	QGRP 3				activated	100.00 percent
Area			-1.675	0.000	-2.975	Pz -2.04 [kN/m2]
			-1.675	12.000	-2.975	-2.04 [kN/m2]
			-1.675	12.000	-0.175	-2.04 [kN/m2]
			-1.675	0.000	-0.175	-2.04 [kN/m2]
	QGRP 2				activated	100.00 percent
Area			-1.675	0.000	0.000	PXX 10.89 [kN/m2]
			-1.675	0.000	-2.975	10.89 [kN/m2]
			-1.675	12.000	-2.975	10.89 [kN/m2]
			-1.675	12.000	0.000	10.89 [kN/m2]
	QGRP 2		(--)		activated	94.12 percent
Area			1.675	0.000	0.000	PXX 6.39 [kN/m2]
			1.675	0.000	-1.675	6.39 [kN/m2]
			1.675	12.000	-1.675	6.39 [kN/m2]
			1.675	12.000	0.000	6.39 [kN/m2]
	QGRP 3		(--)		activated	89.55 percent

Load Case 2002 ΣΕΙΣΜΟΣ +1.0ΕΧ-0.3ΕΥ+0.3ΕΖ

Factor forces and moments		1.000	
Factor dead weight	DL-XX	0.480	
Factor dead weight	DL-YY	-0.144	
Factor dead weight	DL-ZZ	1.233	
Loads partially copied from load case		3 with factor	1.000
Loads partially copied from load case		5 with factor	0.200
Loads partially copied from load case		13 with factor	1.000

Meshfree Loading

Kind	Referenceto	Projection Coordinates W[m]	X[m]	Y[m]	Z[m]	Type Loadvalue
Area			-1.675	12.000	-2.975	PXX 0.00 [kN/m2]
			-1.675	0.000	-2.975	0.00 [kN/m2]
			-1.675	0.000	-0.175	25.75 [kN/m2]
			-1.675	12.000	-0.175	25.75 [kN/m2]
	QGRP 2	1.000			activated	100.00 percent
Area			1.675	12.000	-1.675	PXX 0.00 [kN/m2]
			1.675	0.000	-1.675	0.00 [kN/m2]
			1.675	0.000	-0.175	-13.79 [kN/m2]
			1.675	12.000	-0.175	-13.79 [kN/m2]
	QGRP 3	1.000			activated	100.00 percent
Area			1.675	0.000	-1.675	Pz -2.04 [kN/m2]
			1.675	12.000	-1.675	-2.04 [kN/m2]
			1.675	12.000	-0.175	-2.04 [kN/m2]
			1.675	0.000	-0.175	-2.04 [kN/m2]
	QGRP 3				activated	100.00 percent
Area			-1.675	0.000	-2.975	Pz -2.04 [kN/m2]
			-1.675	12.000	-2.975	-2.04 [kN/m2]
			-1.675	12.000	-0.175	-2.04 [kN/m2]
			-1.675	0.000	-0.175	-2.04 [kN/m2]
	QGRP 2				activated	100.00 percent
Area			-1.675	0.000	0.000	PXX 10.89 [kN/m2]
			-1.675	0.000	-2.975	10.89 [kN/m2]
			-1.675	12.000	-2.975	10.89 [kN/m2]
			-1.675	12.000	0.000	10.89 [kN/m2]
	QGRP 2		(--)		activated	94.12 percent
Area			1.675	0.000	0.000	PXX 6.39 [kN/m2]

ΤΑΦΡΟΣ Τ1 (3.00x2.80x1.50)m
ΣΥΝΔΥΑΣΜΕΝΕΣ ΣΕΙΣΜΙΚΕΣ ΦΟΡΤΙΣΕΙΣ(QH=1.50)

Meshfree Loading

Kind	Referenceto	Projection Coordinates W[m]	X[m]	Y[m]	Z[m]	Type Loadvalue
			1.675	0.000	-1.675	6.39 [kN/m2]
			1.675	12.000	-1.675	6.39 [kN/m2]
			1.675	12.000	0.000	6.39 [kN/m2]
	QGRP 3		(--)		activated	89.55 percent

Load Case 2003 ΣΕΙΣΜΟΣ +1.0ΕΧ-0.3ΕΥ-0.3ΕΖ

Factor forces and moments		1.000	
Factor dead weight	DL-XX	0.480	
Factor dead weight	DL-YY	-0.144	
Factor dead weight	DL-ZZ	0.767	
Loads partially copied from load case		3 with factor	1.000
Loads partially copied from load case		5 with factor	0.200
Loads partially copied from load case		13 with factor	1.000

Meshfree Loading

Kind	Referenceto	Projection Coordinates W[m]	X[m]	Y[m]	Z[m]	Type Loadvalue
Area			-1.675	12.000	-2.975	PXX 0.00 [kN/m2]
			-1.675	0.000	-2.975	0.00 [kN/m2]
			-1.675	0.000	-0.175	25.75 [kN/m2]
			-1.675	12.000	-0.175	25.75 [kN/m2]
	QGRP 2	1.000			activated	100.00 percent
Area			1.675	12.000	-1.675	PXX 0.00 [kN/m2]
			1.675	0.000	-1.675	0.00 [kN/m2]
			1.675	0.000	-0.175	-13.79 [kN/m2]
			1.675	12.000	-0.175	-13.79 [kN/m2]
	QGRP 3	1.000			activated	100.00 percent
Area			1.675	0.000	-1.675	Pz -2.04 [kN/m2]
			1.675	12.000	-1.675	-2.04 [kN/m2]
			1.675	12.000	-0.175	-2.04 [kN/m2]
			1.675	0.000	-0.175	-2.04 [kN/m2]
	QGRP 3				activated	100.00 percent
Area			-1.675	0.000	-2.975	Pz -2.04 [kN/m2]
			-1.675	12.000	-2.975	-2.04 [kN/m2]
			-1.675	12.000	-0.175	-2.04 [kN/m2]
			-1.675	0.000	-0.175	-2.04 [kN/m2]
	QGRP 2				activated	100.00 percent
Area			-1.675	0.000	0.000	PXX 10.89 [kN/m2]
			-1.675	0.000	-2.975	10.89 [kN/m2]
			-1.675	12.000	-2.975	10.89 [kN/m2]
			-1.675	12.000	0.000	10.89 [kN/m2]
	QGRP 2		(--)		activated	94.12 percent
Area			1.675	0.000	0.000	PXX 6.39 [kN/m2]
			1.675	0.000	-1.675	6.39 [kN/m2]
			1.675	12.000	-1.675	6.39 [kN/m2]
			1.675	12.000	0.000	6.39 [kN/m2]
	QGRP 3		(--)		activated	89.55 percent

Load Case 2004 ΣΕΙΣΜΟΣ +1.0ΕΧ+0.3ΕΥ-0.3ΕΖ

Factor forces and moments		1.000	
Factor dead weight	DL-XX	0.480	
Factor dead weight	DL-YY	0.144	
Factor dead weight	DL-ZZ	0.767	
Loads partially copied from load case		3 with factor	1.000
Loads partially copied from load case		5 with factor	0.200
Loads partially copied from load case		13 with factor	1.000

Meshfree Loading

Kind	Referenceto	Projection Coordinates W[m]	X[m]	Y[m]	Z[m]	Type Loadvalue
Area			-1.675	12.000	-2.975	PXX 0.00 [kN/m2]
			-1.675	0.000	-2.975	0.00 [kN/m2]
			-1.675	0.000	-0.175	25.75 [kN/m2]
			-1.675	12.000	-0.175	25.75 [kN/m2]
	QGRP 2	1.000			activated	100.00 percent
Area			1.675	12.000	-1.675	PXX 0.00 [kN/m2]
			1.675	0.000	-1.675	0.00 [kN/m2]
			1.675	0.000	-0.175	-13.79 [kN/m2]
			1.675	12.000	-0.175	-13.79 [kN/m2]
	QGRP 3	1.000			activated	100.00 percent
Area			1.675	0.000	-1.675	Pz -2.04 [kN/m2]
			1.675	12.000	-1.675	-2.04 [kN/m2]
			1.675	12.000	-0.175	-2.04 [kN/m2]
			1.675	0.000	-0.175	-2.04 [kN/m2]
	QGRP 3				activated	100.00 percent
Area			-1.675	0.000	-2.975	Pz -2.04 [kN/m2]
			-1.675	12.000	-2.975	-2.04 [kN/m2]
			-1.675	12.000	-0.175	-2.04 [kN/m2]

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ΤΑΦΡΟΣ Τ1 (3.00x2.80x1.50)m
ΣΥΝΔΥΑΣΜΕΝΕΣ ΣΕΙΣΜΙΚΕΣ ΦΟΡΤΙΣΕΙΣ(QH=1.50)

Meshfree Loading

Kind	Referenceto	Projection W[m]	Coordinates X[m]	Y[m]	Z[m]	Type	Loadvalue
			-1.675	0.000	-0.175		-2.04 [kN/m2]
	QGRP 2			activated			100.00 percent
Area			-1.675	0.000	0.000	PXX	10.89 [kN/m2]
			-1.675	0.000	-2.975		10.89 [kN/m2]
			-1.675	12.000	-2.975		10.89 [kN/m2]
			-1.675	12.000	0.000		10.89 [kN/m2]
	QGRP 2		(--)	activated			94.12 percent
Area			1.675	0.000	0.000	PXX	6.39 [kN/m2]
			1.675	0.000	-1.675		6.39 [kN/m2]
			1.675	12.000	-1.675		6.39 [kN/m2]
			1.675	12.000	0.000		6.39 [kN/m2]
	QGRP 3		(--)	activated			89.55 percent

Load Case 2005 ΣΕΙΣΜΟΣ -1.0EX+0.3EY+0.3EZ

Factor forces and moments		1.000		
Factor dead weight	DL-XX	-0.480		
Factor dead weight	DL-YY	0.144		
Factor dead weight	DL-ZZ	1.233		
Loads partially copied from load case		3 with factor	1.000	
Loads partially copied from load case		5 with factor	0.200	
Loads partially copied from load case		14 with factor	1.000	

Meshfree Loading

Kind	Referenceto	Projection W[m]	Coordinates X[m]	Y[m]	Z[m]	Type	Loadvalue
Area			-1.675	12.000	-2.975	PXX	0.00 [kN/m2]
			-1.675	0.000	-2.975		0.00 [kN/m2]
			-1.675	0.000	-0.175		25.75 [kN/m2]
			-1.675	12.000	-0.175		25.75 [kN/m2]
	QGRP 2	1.000		activated			100.00 percent
Area			1.675	12.000	-1.675	PXX	0.00 [kN/m2]
			1.675	0.000	-1.675		0.00 [kN/m2]
			1.675	0.000	-0.175		-13.79 [kN/m2]
			1.675	12.000	-0.175		-13.79 [kN/m2]
	QGRP 3	1.000		activated			100.00 percent
Area			1.675	0.000	-1.675	Pz	-2.04 [kN/m2]
			1.675	12.000	-1.675		-2.04 [kN/m2]
			1.675	12.000	-0.175		-2.04 [kN/m2]
			1.675	0.000	-0.175		-2.04 [kN/m2]
	QGRP 3			activated			100.00 percent
Area			-1.675	0.000	-2.975	Pz	-2.04 [kN/m2]
			-1.675	12.000	-2.975		-2.04 [kN/m2]
			-1.675	12.000	-0.175		-2.04 [kN/m2]
			-1.675	0.000	-0.175		-2.04 [kN/m2]
	QGRP 2			activated			100.00 percent
Area			-1.675	0.000	0.000	PXX	-10.89 [kN/m2]
			-1.675	0.000	-2.975		-10.89 [kN/m2]
			-1.675	12.000	-2.975		-10.89 [kN/m2]
			-1.675	12.000	0.000		-10.89 [kN/m2]
	QGRP 2		(--)	activated			94.12 percent
Area			1.675	0.000	0.000	PXX	-6.39 [kN/m2]
			1.675	0.000	-1.675		-6.39 [kN/m2]
			1.675	12.000	-1.675		-6.39 [kN/m2]
			1.675	12.000	0.000		-6.39 [kN/m2]
	QGRP 3		(--)	activated			89.55 percent

Load Case 2006 ΣΕΙΣΜΟΣ -1.0EX-0.3EY+0.3EZ

Factor forces and moments		1.000		
Factor dead weight	DL-XX	-0.480		
Factor dead weight	DL-YY	-0.144		
Factor dead weight	DL-ZZ	1.233		
Loads partially copied from load case		3 with factor	1.000	
Loads partially copied from load case		5 with factor	0.200	
Loads partially copied from load case		14 with factor	1.000	

Meshfree Loading

Kind	Referenceto	Projection W[m]	Coordinates X[m]	Y[m]	Z[m]	Type	Loadvalue
Area			-1.675	12.000	-2.975	PXX	0.00 [kN/m2]
			-1.675	0.000	-2.975		0.00 [kN/m2]
			-1.675	0.000	-0.175		25.75 [kN/m2]
			-1.675	12.000	-0.175		25.75 [kN/m2]
	QGRP 2	1.000		activated			100.00 percent
Area			1.675	12.000	-1.675	PXX	0.00 [kN/m2]
			1.675	0.000	-1.675		0.00 [kN/m2]
			1.675	0.000	-0.175		-13.79 [kN/m2]
			1.675	12.000	-0.175		-13.79 [kN/m2]
	QGRP 3	1.000		activated			100.00 percent

ΤΑΦΡΟΣ Τ1 (3.00x2.80x1.50)m
ΣΥΝΔΥΑΣΜΕΝΕΣ ΣΕΙΣΜΙΚΕΣ ΦΟΡΤΙΣΕΙΣ(QH=1.50)

Meshfree Loading

Kind	Referenceto	Projection W[m]	Coordinates X[m]	Y[m]	Z[m]	Type	Loadvalue
Area			1.675	0.000	-1.675	Pz	-2.04 [kN/m2]
			1.675	12.000	-1.675		-2.04 [kN/m2]
			1.675	12.000	-0.175		-2.04 [kN/m2]
			1.675	0.000	-0.175		-2.04 [kN/m2]
	QGRP 3			activated			100.00 percent
Area			-1.675	0.000	-2.975	Pz	-2.04 [kN/m2]
			-1.675	12.000	-2.975		-2.04 [kN/m2]
			-1.675	12.000	-0.175		-2.04 [kN/m2]
			-1.675	0.000	-0.175		-2.04 [kN/m2]
	QGRP 2			activated			100.00 percent
Area			-1.675	0.000	0.000	PXX	-10.89 [kN/m2]
			-1.675	0.000	-2.975		-10.89 [kN/m2]
			-1.675	12.000	-2.975		-10.89 [kN/m2]
			-1.675	12.000	0.000		-10.89 [kN/m2]
	QGRP 2		(--)	activated			94.12 percent
Area			1.675	0.000	0.000	PXX	-6.39 [kN/m2]
			1.675	0.000	-1.675		-6.39 [kN/m2]
			1.675	12.000	-1.675		-6.39 [kN/m2]
			1.675	12.000	0.000		-6.39 [kN/m2]
	QGRP 3		(--)	activated			89.55 percent

Load Case 2007 ΣΕΙΣΜΟΣ -1.0EX-0.3EY-0.3EZ

Factor forces and moments		1.000		
Factor dead weight	DL-XX	-0.480		
Factor dead weight	DL-YY	-0.144		
Factor dead weight	DL-ZZ	0.767		
Loads partially copied from load case		3 with factor	1.000	
Loads partially copied from load case		5 with factor	0.200	
Loads partially copied from load case		14 with factor	1.000	

Meshfree Loading

Kind	Referenceto	Projection W[m]	Coordinates X[m]	Y[m]	Z[m]	Type	Loadvalue
Area			-1.675	12.000	-2.975	PXX	0.00 [kN/m2]
			-1.675	0.000	-2.975		0.00 [kN/m2]
			-1.675	0.000	-0.175		25.75 [kN/m2]
			-1.675	12.000	-0.175		25.75 [kN/m2]
	QGRP 2	1.000		activated			100.00 percent
Area			1.675	12.000	-1.675	PXX	0.00 [kN/m2]
			1.675	0.000	-1.675		0.00 [kN/m2]
			1.675	0.000	-0.175		-13.79 [kN/m2]
			1.675	12.000	-0.175		-13.79 [kN/m2]
	QGRP 3	1.000		activated			100.00 percent
Area			1.675	0.000	-1.675	Pz	-2.04 [kN/m2]
			1.675	12.000	-1.675		-2.04 [kN/m2]
			1.675	12.000	-0.175		-2.04 [kN/m2]
			1.675	0.000	-0.175		-2.04 [kN/m2]
	QGRP 3			activated			100.00 percent
Area			-1.675	0.000	-2.975	Pz	-2.04 [kN/m2]
			-1.675	12.000	-2.975		-2.04 [kN/m2]
			-1.675	12.000	-0.175		-2.04 [kN/m2]
			-1.675	0.000	-0.175		-2.04 [kN/m2]
	QGRP 2			activated			100.00 percent
Area			-1.675	0.000	0.000	PXX	-10.89 [kN/m2]
			-1.675	0.000	-2.975		-10.89 [kN/m2]
			-1.675	12.000	-2.975		-10.89 [kN/m2]
			-1.675	12.000	0.000		-10.89 [kN/m2]
	QGRP 2		(--)	activated			94.12 percent
Area			1.675	0.000	0.000	PXX	-6.39 [kN/m2]
			1.675	0.000	-1.675		-6.39 [kN/m2]
			1.675	12.000	-1.675		-6.39 [kN/m2]
			1.675	12.000	0.000		-6.39 [kN/m2]
	QGRP 3		(--)	activated			89.55 percent

Load Case 2008 ΣΕΙΣΜΟΣ -1.0EX+0.3EY-0.3EZ

Factor forces and moments		1.000		
Factor dead weight	DL-XX	-0.480		
Factor dead weight	DL-YY	0.144		
Factor dead weight	DL-ZZ	0.767		
Loads partially copied from load case		3 with factor	1.000	
Loads partially copied from load case		5 with factor	0.200	
Loads partially copied from load case		14 with factor	1.000	

ΤΑΦΡΟΣ Τ1 (3.00x2.80x1.50)m
ΣΥΝΔΥΑΣΜΕΝΕΣ ΣΕΙΣΜΙΚΕΣ ΦΟΡΤΙΣΕΙΣ(QH=1.50)

Meshfree Loading

Kind	Referenceto		Projection W[m]	Coordinates X[m]	Y[m]	Z[m]	Type	Loadvalue
Area				-1.675	12.000	-2.975	PXX	0.00 [kN/m2]
				-1.675	0.000	-2.975		0.00 [kN/m2]
				-1.675	0.000	-0.175		25.75 [kN/m2]
				-1.675	12.000	-0.175		25.75 [kN/m2]
	QGRP	2	1.000			activated		100.00 percent
Area				1.675	12.000	-1.675	PXX	0.00 [kN/m2]
				1.675	0.000	-1.675		0.00 [kN/m2]
				1.675	0.000	-0.175		-13.79 [kN/m2]
				1.675	12.000	-0.175		-13.79 [kN/m2]
	QGRP	3	1.000			activated		100.00 percent
Area				1.675	0.000	-1.675	Pz	-2.04 [kN/m2]
				1.675	12.000	-1.675		-2.04 [kN/m2]
				1.675	12.000	-0.175		-2.04 [kN/m2]
				1.675	0.000	-0.175		-2.04 [kN/m2]
	QGRP	3				activated		100.00 percent
Area				-1.675	0.000	-2.975	Pz	-2.04 [kN/m2]
				-1.675	12.000	-2.975		-2.04 [kN/m2]
				-1.675	12.000	-0.175		-2.04 [kN/m2]
				-1.675	0.000	-0.175		-2.04 [kN/m2]
	QGRP	2				activated		100.00 percent
Area				-1.675	0.000	0.000	PXX	-10.89 [kN/m2]
				-1.675	0.000	-2.975		-10.89 [kN/m2]
				-1.675	12.000	-2.975		-10.89 [kN/m2]
				-1.675	12.000	0.000		-10.89 [kN/m2]
	QGRP	2		(--)		activated		94.12 percent
Area				1.675	0.000	0.000	PXX	-6.39 [kN/m2]
				1.675	0.000	-1.675		-6.39 [kN/m2]
				1.675	12.000	-1.675		-6.39 [kN/m2]
				1.675	12.000	0.000		-6.39 [kN/m2]
	QGRP	3		(--)		activated		89.55 percent

Load Case 2011 ΣΕΙΣΜΟΣ +0.3EX+1.0EY+0.3EZ

Factor forces and moments		1.000
Factor dead weight	DL-XX	0.144
Factor dead weight	DL-YY	0.480
Factor dead weight	DL-ZZ	1.233
Loads partially copied from load case		3 with factor 1.000
Loads partially copied from load case		5 with factor 0.200
Loads partially copied from load case		13 with factor 0.300

Meshfree Loading

Kind	Referenceto		Projection W[m]	Coordinates X[m]	Y[m]	Z[m]	Type	Loadvalue
Area				-1.675	12.000	-2.975	PXX	0.00 [kN/m2]
				-1.675	0.000	-2.975		0.00 [kN/m2]
				-1.675	0.000	-0.175		25.75 [kN/m2]
				-1.675	12.000	-0.175		25.75 [kN/m2]
	QGRP	2	1.000			activated		100.00 percent
Area				1.675	12.000	-1.675	PXX	0.00 [kN/m2]
				1.675	0.000	-1.675		0.00 [kN/m2]
				1.675	0.000	-0.175		-13.79 [kN/m2]
				1.675	12.000	-0.175		-13.79 [kN/m2]
	QGRP	3	1.000			activated		100.00 percent
Area				1.675	0.000	-1.675	Pz	-2.04 [kN/m2]
				1.675	12.000	-1.675		-2.04 [kN/m2]
				1.675	12.000	-0.175		-2.04 [kN/m2]
				1.675	0.000	-0.175		-2.04 [kN/m2]
	QGRP	3				activated		100.00 percent
Area				-1.675	0.000	-2.975	Pz	-2.04 [kN/m2]
				-1.675	12.000	-2.975		-2.04 [kN/m2]
				-1.675	12.000	-0.175		-2.04 [kN/m2]
				-1.675	0.000	-0.175		-2.04 [kN/m2]
	QGRP	2				activated		100.00 percent
Area				-1.675	0.000	0.000	PXX	3.27 [kN/m2]
				-1.675	0.000	-2.975		3.27 [kN/m2]
				-1.675	12.000	-2.975		3.27 [kN/m2]
				-1.675	12.000	0.000		3.27 [kN/m2]
	QGRP	2		(--)		activated		94.12 percent
Area				1.675	0.000	0.000	PXX	1.92 [kN/m2]
				1.675	0.000	-1.675		1.92 [kN/m2]
				1.675	12.000	-1.675		1.92 [kN/m2]
				1.675	12.000	0.000		1.92 [kN/m2]
	QGRP	3		(--)		activated		89.55 percent

Load Case 2012 ΣΕΙΣΜΟΣ +0.3EX-1.0EY+0.3EZ

ΤΑΦΡΟΣ Τ1 (3.00x2.80x1.50)m
ΣΥΝΔΥΑΣΜΕΝΕΣ ΣΕΙΣΜΙΚΕΣ ΦΟΡΤΙΣΕΙΣ(QH=1.50)

Load Case 2012 ΣΕΙΣΜΟΣ +0.3EX-1.0EY+0.3EZ

Factor forces and moments		1.000
Factor dead weight	DL-XX	0.144
Factor dead weight	DL-YY	-0.480
Factor dead weight	DL-ZZ	1.233
Loads partially copied from load case		3 with factor 1.000
Loads partially copied from load case		5 with factor 0.200
Loads partially copied from load case		13 with factor 0.300

Meshfree Loading

Kind	Referenceto		Projection W[m]	Coordinates X[m]	Y[m]	Z[m]	Type	Loadvalue
Area				-1.675	12.000	-2.975	PXX	0.00 [kN/m2]
				-1.675	0.000	-2.975		0.00 [kN/m2]
				-1.675	0.000	-0.175		25.75 [kN/m2]
				-1.675	12.000	-0.175		25.75 [kN/m2]
	QGRP	2	1.000			activated		100.00 percent
Area				1.675	12.000	-1.675	PXX	0.00 [kN/m2]
				1.675	0.000	-1.675		0.00 [kN/m2]
				1.675	0.000	-0.175		-13.79 [kN/m2]
				1.675	12.000	-0.175		-13.79 [kN/m2]
	QGRP	3	1.000			activated		100.00 percent
Area				1.675	0.000	-1.675	Pz	-2.04 [kN/m2]
				1.675	12.000	-1.675		-2.04 [kN/m2]
				1.675	12.000	-0.175		-2.04 [kN/m2]
				1.675	0.000	-0.175		-2.04 [kN/m2]
	QGRP	3				activated		100.00 percent
Area				-1.675	0.000	-2.975	Pz	-2.04 [kN/m2]
				-1.675	12.000	-2.975		-2.04 [kN/m2]
				-1.675	12.000	-0.175		-2.04 [kN/m2]
				-1.675	0.000	-0.175		-2.04 [kN/m2]
	QGRP	2				activated		100.00 percent
Area				-1.675	0.000	0.000	PXX	3.27 [kN/m2]
				-1.675	0.000	-2.975		3.27 [kN/m2]
				-1.675	12.000	-2.975		3.27 [kN/m2]
				-1.675	12.000	0.000		3.27 [kN/m2]
	QGRP	2		(--)		activated		94.12 percent
Area				1.675	0.000	0.000	PXX	1.92 [kN/m2]
				1.675	0.000	-1.675		1.92 [kN/m2]
				1.675	12.000	-1.675		1.92 [kN/m2]
				1.675	12.000	0.000		1.92 [kN/m2]
	QGRP	3		(--)		activated		89.55 percent

Load Case 2013 ΣΕΙΣΜΟΣ +0.3EX-1.0EY-0.3EZ

Factor forces and moments		1.000
Factor dead weight	DL-XX	0.144
Factor dead weight	DL-YY	-0.480
Factor dead weight	DL-ZZ	0.767
Loads partially copied from load case		3 with factor 1.000
Loads partially copied from load case		5 with factor 0.200
Loads partially copied from load case		13 with factor 0.300

Meshfree Loading

Kind	Referenceto		Projection W[m]	Coordinates X[m]	Y[m]	Z[m]	Type	Loadvalue
Area				-1.675	12.000	-2.975	PXX	0.00 [kN/m2]
				-1.675	0.000	-2.975		0.00 [kN/m2]
				-1.675	0.000	-0.175		25.75 [kN/m2]
				-1.675	12.000	-0.175		25.75 [kN/m2]
	QGRP	2	1.000			activated		100.00 percent
Area				1.675	12.000	-1.675	PXX	0.00 [kN/m2]
				1.675	0.000	-1.675		0.00 [kN/m2]
				1.675	0.000	-0.175		-13.79 [kN/m2]
				1.675	12.000	-0.175		-13.79 [kN/m2]
	QGRP	3	1.000			activated		100.00 percent
Area				1.675	0.000	-1.675	Pz	-2.04 [kN/m2]
				1.675	12.000	-1.675		-2.04 [kN/m2]
				1.675	12.000	-0.175		-2.04 [kN/m2]
				1.675	0.000	-0.175		-2.04 [kN/m2]
	QGRP	3				activated		100.00 percent
Area				-1.675	0.000	-2.975	Pz	-2.04 [kN/m2]
				-1.675	12.000	-2.975		-2.04 [kN/m2]
				-1.675	12.000	-0.175		-2.04 [kN/m2]
				-1.675	0.000	-0.175		-2.04 [kN/m2]
	QGRP	2				activated		100.00 percent
Area				-1.675	0.000	0.000	PXX	3.27 [kN/m2]
				-1.675	0.000	-2.975		3.27 [kN/m2]
				-1.675	12.000	-2.975		3.27 [kN/m2]
				-1.675	12.000	0.000		3.27 [kN/m2]
	QGRP	2		(--)		activated		94.12 percent
Area				1.675	0.000	0.000	PXX	1.92 [kN/m2]

ΤΑΦΡΟΣ Τ1 (3.00x2.80x1.50)m
ΣΥΝΔΥΑΣΜΕΝΕΣ ΣΕΙΣΜΙΚΕΣ ΦΟΡΤΙΣΕΙΣ(QH=1.50)

Meshfree Loading

Kind	Referenceto	Projection W[m]	Coordinates X[m]	Y[m]	Z[m]		Type Loadvalue
			1.675	0.000	-1.675		1.92 [kN/m2]
			1.675	12.000	-1.675		1.92 [kN/m2]
			1.675	12.000	0.000		1.92 [kN/m2]
	QGRP 3		(--)		activated		89.55 percent

Load Case 2014 ΣΕΙΣΜΟΣ +0.3EX+1.0EY-0.3EZ

Factor forces and moments 1.000
Factor dead weight DL-XX 0.144
Factor dead weight DL-YY 0.480
Factor dead weight DL-ZZ 0.767
Loads partially copied from load case 3 with factor 1.000
Loads partially copied from load case 5 with factor 0.200
Loads partially copied from load case 13 with factor 0.300

Meshfree Loading

Kind	Referenceto	Projection W[m]	Coordinates X[m]	Y[m]	Z[m]		Type Loadvalue
Area			-1.675	12.000	-2.975	PXX	0.00 [kN/m2]
			-1.675	0.000	-2.975		0.00 [kN/m2]
			-1.675	0.000	-0.175		25.75 [kN/m2]
			-1.675	12.000	-0.175		25.75 [kN/m2]
	QGRP 2	1.000			activated		100.00 percent
Area			1.675	12.000	-1.675	PXX	0.00 [kN/m2]
			1.675	0.000	-1.675		0.00 [kN/m2]
			1.675	0.000	-0.175		-13.79 [kN/m2]
			1.675	12.000	-0.175		-13.79 [kN/m2]
	QGRP 3	1.000			activated		100.00 percent
Area			1.675	0.000	-1.675	Pz	-2.04 [kN/m2]
			1.675	12.000	-1.675		-2.04 [kN/m2]
			1.675	12.000	-0.175		-2.04 [kN/m2]
			1.675	0.000	-0.175		-2.04 [kN/m2]
	QGRP 3				activated		100.00 percent
Area			-1.675	0.000	-2.975	Pz	-2.04 [kN/m2]
			-1.675	12.000	-2.975		-2.04 [kN/m2]
			-1.675	12.000	-0.175		-2.04 [kN/m2]
			-1.675	0.000	-0.175		-2.04 [kN/m2]
	QGRP 2				activated		100.00 percent
Area			-1.675	0.000	0.000	PXX	3.27 [kN/m2]
			-1.675	0.000	-2.975		3.27 [kN/m2]
			-1.675	12.000	-2.975		3.27 [kN/m2]
			-1.675	12.000	0.000		3.27 [kN/m2]
	QGRP 2		(--)		activated		94.12 percent
Area			1.675	0.000	0.000	PXX	1.92 [kN/m2]
			1.675	0.000	-1.675		1.92 [kN/m2]
			1.675	12.000	-1.675		1.92 [kN/m2]
			1.675	12.000	0.000		1.92 [kN/m2]
	QGRP 3		(--)		activated		89.55 percent

Load Case 2015 ΣΕΙΣΜΟΣ -0.3EX+1.0EY+0.3EZ

Factor forces and moments 1.000
Factor dead weight DL-XX -0.144
Factor dead weight DL-YY 0.480
Factor dead weight DL-ZZ 1.233
Loads partially copied from load case 3 with factor 1.000
Loads partially copied from load case 5 with factor 0.200
Loads partially copied from load case 14 with factor 0.300

Meshfree Loading

Kind	Referenceto	Projection W[m]	Coordinates X[m]	Y[m]	Z[m]		Type Loadvalue
Area			-1.675	12.000	-2.975	PXX	0.00 [kN/m2]
			-1.675	0.000	-2.975		0.00 [kN/m2]
			-1.675	0.000	-0.175		25.75 [kN/m2]
			-1.675	12.000	-0.175		25.75 [kN/m2]
	QGRP 2	1.000			activated		100.00 percent
Area			1.675	12.000	-1.675	PXX	0.00 [kN/m2]
			1.675	0.000	-1.675		0.00 [kN/m2]
			1.675	0.000	-0.175		-13.79 [kN/m2]
			1.675	12.000	-0.175		-13.79 [kN/m2]
	QGRP 3	1.000			activated		100.00 percent
Area			1.675	0.000	-1.675	Pz	-2.04 [kN/m2]
			1.675	12.000	-1.675		-2.04 [kN/m2]
			1.675	12.000	-0.175		-2.04 [kN/m2]
			1.675	0.000	-0.175		-2.04 [kN/m2]
	QGRP 3				activated		100.00 percent
Area			-1.675	0.000	-2.975	Pz	-2.04 [kN/m2]
			-1.675	12.000	-2.975		-2.04 [kN/m2]
			-1.675	12.000	-0.175		-2.04 [kN/m2]
			-1.675	0.000	-0.175		-2.04 [kN/m2]
	QGRP 2				activated		100.00 percent
Area			-1.675	0.000	0.000	PXX	3.27 [kN/m2]
			-1.675	0.000	-2.975		3.27 [kN/m2]
			-1.675	12.000	-2.975		3.27 [kN/m2]
			-1.675	12.000	0.000		3.27 [kN/m2]
	QGRP 2		(--)		activated		94.12 percent
Area			1.675	0.000	0.000	PXX	1.92 [kN/m2]
			1.675	0.000	-1.675		1.92 [kN/m2]
			1.675	12.000	-1.675		1.92 [kN/m2]
			1.675	12.000	0.000		1.92 [kN/m2]
	QGRP 3		(--)		activated		89.55 percent

ΤΑΦΡΟΣ Τ1 (3.00x2.80x1.50)m
ΣΥΝΔΥΑΣΜΕΝΕΣ ΣΕΙΣΜΙΚΕΣ ΦΟΡΤΙΣΕΙΣ(QH=1.50)

Meshfree Loading

Kind	Referenceto	Projection W[m]	Coordinates X[m]	Y[m]	Z[m]		Type Loadvalue
			-1.675	0.000	-0.175		-2.04 [kN/m2]
	QGRP 2				activated		100.00 percent
Area			-1.675	0.000	0.000	PXX	-3.27 [kN/m2]
			-1.675	0.000	-2.975		-3.27 [kN/m2]
			-1.675	12.000	-2.975		-3.27 [kN/m2]
			-1.675	12.000	0.000		-3.27 [kN/m2]
	QGRP 2		(--)		activated		94.12 percent
Area			1.675	0.000	0.000	PXX	-1.92 [kN/m2]
			1.675	0.000	-1.675		-1.92 [kN/m2]
			1.675	12.000	-1.675		-1.92 [kN/m2]
			1.675	12.000	0.000		-1.92 [kN/m2]
	QGRP 3		(--)		activated		89.55 percent

Load Case 2016 ΣΕΙΣΜΟΣ -0.3EX-1.0EY+0.3EZ

Factor forces and moments 1.000
Factor dead weight DL-XX -0.144
Factor dead weight DL-YY -0.480
Factor dead weight DL-ZZ 1.233
Loads partially copied from load case 3 with factor 1.000
Loads partially copied from load case 5 with factor 0.200
Loads partially copied from load case 14 with factor 0.300

Meshfree Loading

Kind	Referenceto	Projection W[m]	Coordinates X[m]	Y[m]	Z[m]		Type Loadvalue
Area			-1.675	12.000	-2.975	PXX	0.00 [kN/m2]
			-1.675	0.000	-2.975		0.00 [kN/m2]
			-1.675	0.000	-0.175		25.75 [kN/m2]
			-1.675	12.000	-0.175		25.75 [kN/m2]
	QGRP 2	1.000			activated		100.00 percent
Area			1.675	12.000	-1.675	PXX	0.00 [kN/m2]
			1.675	0.000	-1.675		0.00 [kN/m2]
			1.675	0.000	-0.175		-13.79 [kN/m2]
			1.675	12.000	-0.175		-13.79 [kN/m2]
	QGRP 3	1.000			activated		100.00 percent
Area			1.675	0.000	-1.675	Pz	-2.04 [kN/m2]
			1.675	12.000	-1.675		-2.04 [kN/m2]
			1.675	12.000	-0.175		-2.04 [kN/m2]
			1.675	0.000	-0.175		-2.04 [kN/m2]
	QGRP 3				activated		100.00 percent
Area			-1.675	0.000	-2.975	Pz	-2.04 [kN/m2]
			-1.675	12.000	-2.975		-2.04 [kN/m2]
			-1.675	12.000	-0.175		-2.04 [kN/m2]
			-1.675	0.000	-0.175		-2.04 [kN/m2]
	QGRP 2				activated		100.00 percent
Area			-1.675	0.000	0.000	PXX	-3.27 [kN/m2]
			-1.675	0.000	-2.975		-3.27 [kN/m2]
			-1.675	12.000	-2.975		-3.27 [kN/m2]
			-1.675	12.000	0.000		-3.27 [kN/m2]
	QGRP 2		(--)		activated		94.12 percent
Area			1.675	0.000	0.000	PXX	-1.92 [kN/m2]
			1.675	0.000	-1.675		-1.92 [kN/m2]
			1.675	12.000	-1.675		-1.92 [kN/m2]
			1.675	12.000	0.000		-1.92 [kN/m2]
	QGRP 3		(--)		activated		89.55 percent

Load Case 2017 ΣΕΙΣΜΟΣ -0.3EX-1.0EY-0.3EZ

Factor forces and moments 1.000
Factor dead weight DL-XX -0.144
Factor dead weight DL-YY -0.480
Factor dead weight DL-ZZ 0.767
Loads partially copied from load case 3 with factor 1.000
Loads partially copied from load case 5 with factor 0.200
Loads partially copied from load case 14 with factor 0.300

Meshfree Loading

Kind	Referenceto	Projection W[m]	Coordinates X[m]	Y[m]	Z[m]		Type Loadvalue
Area			-1.675	12.000	-2.975	PXX	0.00 [kN/m2]
			-1.675	0.000	-2.975		0.00 [kN/m2]
			-1.675	0.000	-0.175		25.75 [kN/m2]
			-1.675	12.000	-0.175		25.75 [kN/m2]
	QGRP 2	1.000			activated		100.00 percent
Area			1.675	12.000	-1.675	PXX	0.00 [kN/m2]
			1.675	0.000	-1.675		0.00 [kN/m2]
			1.675	0.000	-0.175		-13.79 [kN/m2]
			1.675	12.000	-0.175		-13.79 [kN/m2]
	QGRP 3	1.000			activated		100.00 percent

ΤΑΦΡΟΣ Τ1 (3.00x2.80x1.50)m
ΣΥΝΔΥΑΣΜΕΝΕΣ ΣΕΙΣΜΙΚΕΣ ΦΟΡΤΙΣΕΙΣ(QH=1.50)

Meshfree Loading

Kind	Referenceto	Projection W[m]	Coordinates X[m]	Y[m]	Z[m]	Type	Loadvalue
Area			1.675	0.000	-1.675	Pz	-2.04 [kN/m2]
			1.675	12.000	-1.675		-2.04 [kN/m2]
			1.675	12.000	-0.175		-2.04 [kN/m2]
			1.675	0.000	-0.175		-2.04 [kN/m2]
	QGRP	3			activated		100.00 percent
Area			-1.675	0.000	-2.975	Pz	-2.04 [kN/m2]
			-1.675	12.000	-2.975		-2.04 [kN/m2]
			-1.675	12.000	-0.175		-2.04 [kN/m2]
			-1.675	0.000	-0.175		-2.04 [kN/m2]
	QGRP	2			activated		100.00 percent
Area			-1.675	0.000	0.000	PXX	-3.27 [kN/m2]
			-1.675	0.000	-2.975		-3.27 [kN/m2]
			-1.675	12.000	-2.975		-3.27 [kN/m2]
			-1.675	12.000	0.000		-3.27 [kN/m2]
	QGRP	2		(--)	activated		94.12 percent
Area			1.675	0.000	0.000	PXX	-1.92 [kN/m2]
			1.675	0.000	-1.675		-1.92 [kN/m2]
			1.675	12.000	-1.675		-1.92 [kN/m2]
			1.675	12.000	0.000		-1.92 [kN/m2]
	QGRP	3		(--)	activated		89.55 percent

Load Case 2018 ΣΕΙΣΜΟΣ -0.3EX+1.0EY-0.3EZ

Factor forces and moments		1.000
Factor dead weight	DL-XX	-0.144
Factor dead weight	DL-YY	0.480
Factor dead weight	DL-ZZ	0.767
Loads partially copied from load case	3 with factor	1.000
Loads partially copied from load case	5 with factor	0.200
Loads partially copied from load case	14 with factor	0.300

Meshfree Loading

Kind	Referenceto	Projection W[m]	Coordinates X[m]	Y[m]	Z[m]	Type	Loadvalue
Area			-1.675	12.000	-2.975	PXX	0.00 [kN/m2]
			-1.675	0.000	-2.975		0.00 [kN/m2]
			-1.675	0.000	-0.175		25.75 [kN/m2]
			-1.675	12.000	-0.175		25.75 [kN/m2]
	QGRP	2 1.000			activated		100.00 percent
Area			1.675	12.000	-1.675	PXX	0.00 [kN/m2]
			1.675	0.000	-1.675		0.00 [kN/m2]
			1.675	0.000	-0.175		-13.79 [kN/m2]
			1.675	12.000	-0.175		-13.79 [kN/m2]
	QGRP	3 1.000			activated		100.00 percent
Area			1.675	0.000	-1.675	Pz	-2.04 [kN/m2]
			1.675	12.000	-1.675		-2.04 [kN/m2]
			1.675	12.000	-0.175		-2.04 [kN/m2]
			1.675	0.000	-0.175		-2.04 [kN/m2]
	QGRP	3			activated		100.00 percent
Area			-1.675	0.000	-2.975	Pz	-2.04 [kN/m2]
			-1.675	12.000	-2.975		-2.04 [kN/m2]
			-1.675	12.000	-0.175		-2.04 [kN/m2]
			-1.675	0.000	-0.175		-2.04 [kN/m2]
	QGRP	2			activated		100.00 percent
Area			-1.675	0.000	0.000	PXX	-3.27 [kN/m2]
			-1.675	0.000	-2.975		-3.27 [kN/m2]
			-1.675	12.000	-2.975		-3.27 [kN/m2]
			-1.675	12.000	0.000		-3.27 [kN/m2]
	QGRP	2		(--)	activated		94.12 percent
Area			1.675	0.000	0.000	PXX	-1.92 [kN/m2]
			1.675	0.000	-1.675		-1.92 [kN/m2]
			1.675	12.000	-1.675		-1.92 [kN/m2]
			1.675	12.000	0.000		-1.92 [kN/m2]
	QGRP	3		(--)	activated		89.55 percent

Load Case 2021 ΣΕΙΣΜΟΣ +0.3EX+0.3EY+1.0EZ

Factor forces and moments		1.000
Factor dead weight	DL-XX	0.144
Factor dead weight	DL-YY	0.144
Factor dead weight	DL-ZZ	1.778
Loads partially copied from load case	3 with factor	1.000
Loads partially copied from load case	5 with factor	0.200
Loads partially copied from load case	13 with factor	0.300

ΤΑΦΡΟΣ Τ1 (3.00x2.80x1.50)m
ΣΥΝΔΥΑΣΜΕΝΕΣ ΣΕΙΣΜΙΚΕΣ ΦΟΡΤΙΣΕΙΣ(QH=1.50)

Meshfree Loading

Kind	Referenceto	Projection W[m]	Coordinates X[m]	Y[m]	Z[m]	Type	Loadvalue
Area			-1.675	12.000	-2.975	PXX	0.00 [kN/m2]
			-1.675	0.000	-2.975		0.00 [kN/m2]
			-1.675	0.000	-0.175		25.75 [kN/m2]
			-1.675	12.000	-0.175		25.75 [kN/m2]
	QGRP	2 1.000			activated		100.00 percent
Area			1.675	12.000	-1.675	PXX	0.00 [kN/m2]
			1.675	0.000	-1.675		0.00 [kN/m2]
			1.675	0.000	-0.175		-13.79 [kN/m2]
			1.675	12.000	-0.175		-13.79 [kN/m2]
	QGRP	3 1.000			activated		100.00 percent
Area			1.675	0.000	-1.675	Pz	-2.04 [kN/m2]
			1.675	12.000	-1.675		-2.04 [kN/m2]
			1.675	12.000	-0.175		-2.04 [kN/m2]
			1.675	0.000	-0.175		-2.04 [kN/m2]
	QGRP	3			activated		100.00 percent
Area			-1.675	0.000	-2.975	Pz	-2.04 [kN/m2]
			-1.675	12.000	-2.975		-2.04 [kN/m2]
			-1.675	12.000	-0.175		-2.04 [kN/m2]
			-1.675	0.000	-0.175		-2.04 [kN/m2]
	QGRP	2			activated		100.00 percent
Area			-1.675	0.000	0.000	PXX	3.27 [kN/m2]
			-1.675	0.000	-2.975		3.27 [kN/m2]
			-1.675	12.000	-2.975		3.27 [kN/m2]
			-1.675	12.000	0.000		3.27 [kN/m2]
	QGRP	2		(--)	activated		94.12 percent
Area			1.675	0.000	0.000	PXX	1.92 [kN/m2]
			1.675	0.000	-1.675		1.92 [kN/m2]
			1.675	12.000	-1.675		1.92 [kN/m2]
			1.675	12.000	0.000		1.92 [kN/m2]
	QGRP	3		(--)	activated		89.55 percent

Load Case 2022 ΣΕΙΣΜΟΣ +0.3EX-0.3EY+1.0EZ

Factor forces and moments		1.000
Factor dead weight	DL-XX	0.144
Factor dead weight	DL-YY	-0.144
Factor dead weight	DL-ZZ	1.778
Loads partially copied from load case	3 with factor	1.000
Loads partially copied from load case	5 with factor	0.200
Loads partially copied from load case	13 with factor	0.300

Meshfree Loading

Kind	Referenceto	Projection W[m]	Coordinates X[m]	Y[m]	Z[m]	Type	Loadvalue
Area			-1.675	12.000	-2.975	PXX	0.00 [kN/m2]
			-1.675	0.000	-2.975		0.00 [kN/m2]
			-1.675	0.000	-0.175		25.75 [kN/m2]
			-1.675	12.000	-0.175		25.75 [kN/m2]
	QGRP	2 1.000			activated		100.00 percent
Area			1.675	12.000	-1.675	PXX	0.00 [kN/m2]
			1.675	0.000	-1.675		0.00 [kN/m2]
			1.675	0.000	-0.175		-13.79 [kN/m2]
			1.675	12.000	-0.175		-13.79 [kN/m2]
	QGRP	3 1.000			activated		100.00 percent
Area			1.675	0.000	-1.675	Pz	-2.04 [kN/m2]
			1.675	12.000	-1.675		-2.04 [kN/m2]
			1.675	12.000	-0.175		-2.04 [kN/m2]
			1.675	0.000	-0.175		-2.04 [kN/m2]
	QGRP	3			activated		100.00 percent
Area			-1.675	0.000	-2.975	Pz	-2.04 [kN/m2]
			-1.675	12.000	-2.975		-2.04 [kN/m2]
			-1.675	12.000	-0.175		-2.04 [kN/m2]
			-1.675	0.000	-0.175		-2.04 [kN/m2]
	QGRP	2			activated		100.00 percent
Area			-1.675	0.000	0.000	PXX	3.27 [kN/m2]
			-1.675	0.000	-2.975		3.27 [kN/m2]
			-1.675	12.000	-2.975		3.27 [kN/m2]
			-1.675	12.000	0.000		3.27 [kN/m2]
	QGRP	2		(--)	activated		94.12 percent
Area			1.675	0.000	0.000	PXX	1.92 [kN/m2]
			1.675	0.000	-1.675		1.92 [kN/m2]
			1.675	12.000	-1.675		1.92 [kN/m2]
			1.675	12.000	0.000		1.92 [kN/m2]
	QGRP	3		(--)	activated		89.55 percent

Load Case 2023 ΣΕΙΣΜΟΣ +0.3EX-0.3EY-1.0EZ

ΤΑΦΡΟΣ Τ1 (3.00x2.80x1.50)m
ΣΥΝΔΥΑΣΜΕΝΕΣ ΣΕΙΣΜΙΚΕΣ ΦΟΡΤΙΣΕΙΣ(QH=1.50)

Load Case 2023 ΣΕΙΣΜΟΣ +0.3EX-0.3EY-1.0EZ

Factor forces and moments 1.000
Factor dead weight DL-XX 0.144
Factor dead weight DL-YY -0.144
Factor dead weight DL-ZZ 0.222
Loads partially copied from load case 3 with factor 1.000
Loads partially copied from load case 5 with factor 0.200
Loads partially copied from load case 13 with factor 0.300

Meshfree Loading

Kind	Referenceto	Projection W[m]	Coordinates X[m]	Y[m]	Z[m]		Type Loadvalue
Area			-1.675	12.000	-2.975	PXX	0.00 [kN/m2]
			-1.675	0.000	-2.975		0.00 [kN/m2]
			-1.675	0.000	-0.175		25.75 [kN/m2]
			-1.675	12.000	-0.175		25.75 [kN/m2]
	QGRP 2	1.000			activated		100.00 percent
Area			1.675	12.000	-1.675	PXX	0.00 [kN/m2]
			1.675	0.000	-1.675		0.00 [kN/m2]
			1.675	0.000	-0.175		-13.79 [kN/m2]
			1.675	12.000	-0.175		-13.79 [kN/m2]
	QGRP 3	1.000			activated		100.00 percent
Area			1.675	0.000	-1.675	Pz	-2.04 [kN/m2]
			1.675	12.000	-1.675		-2.04 [kN/m2]
			1.675	12.000	-0.175		-2.04 [kN/m2]
			1.675	0.000	-0.175		-2.04 [kN/m2]
	QGRP 3				activated		100.00 percent
Area			-1.675	0.000	-2.975	Pz	-2.04 [kN/m2]
			-1.675	12.000	-2.975		-2.04 [kN/m2]
			-1.675	12.000	-0.175		-2.04 [kN/m2]
			-1.675	0.000	-0.175		-2.04 [kN/m2]
	QGRP 2				activated		100.00 percent
Area			-1.675	0.000	0.000	PXX	3.27 [kN/m2]
			-1.675	0.000	-2.975		3.27 [kN/m2]
			-1.675	12.000	-2.975		3.27 [kN/m2]
			-1.675	12.000	0.000		3.27 [kN/m2]
	QGRP 2		(--)		activated		94.12 percent
Area			1.675	0.000	0.000	PXX	1.92 [kN/m2]
			1.675	0.000	-1.675		1.92 [kN/m2]
			1.675	12.000	-1.675		1.92 [kN/m2]
			1.675	12.000	0.000		1.92 [kN/m2]
	QGRP 3		(--)		activated		89.55 percent

Load Case 2024 ΣΕΙΣΜΟΣ +0.3EX+0.3EY-1.0EZ

Factor forces and moments 1.000
Factor dead weight DL-XX 0.144
Factor dead weight DL-YY 0.144
Factor dead weight DL-ZZ 0.222
Loads partially copied from load case 3 with factor 1.000
Loads partially copied from load case 5 with factor 0.200
Loads partially copied from load case 13 with factor 0.300

Meshfree Loading

Kind	Referenceto	Projection W[m]	Coordinates X[m]	Y[m]	Z[m]		Type Loadvalue
Area			-1.675	12.000	-2.975	PXX	0.00 [kN/m2]
			-1.675	0.000	-2.975		0.00 [kN/m2]
			-1.675	0.000	-0.175		25.75 [kN/m2]
			-1.675	12.000	-0.175		25.75 [kN/m2]
	QGRP 2	1.000			activated		100.00 percent
Area			1.675	12.000	-1.675	PXX	0.00 [kN/m2]
			1.675	0.000	-1.675		0.00 [kN/m2]
			1.675	0.000	-0.175		-13.79 [kN/m2]
			1.675	12.000	-0.175		-13.79 [kN/m2]
	QGRP 3	1.000			activated		100.00 percent
Area			1.675	0.000	-1.675	Pz	-2.04 [kN/m2]
			1.675	12.000	-1.675		-2.04 [kN/m2]
			1.675	12.000	-0.175		-2.04 [kN/m2]
			1.675	0.000	-0.175		-2.04 [kN/m2]
	QGRP 3				activated		100.00 percent
Area			-1.675	0.000	-2.975	Pz	-2.04 [kN/m2]
			-1.675	12.000	-2.975		-2.04 [kN/m2]
			-1.675	12.000	-0.175		-2.04 [kN/m2]
			-1.675	0.000	-0.175		-2.04 [kN/m2]
	QGRP 2				activated		100.00 percent
Area			-1.675	0.000	0.000	PXX	3.27 [kN/m2]
			-1.675	0.000	-2.975		3.27 [kN/m2]
			-1.675	12.000	-2.975		3.27 [kN/m2]
			-1.675	12.000	0.000		3.27 [kN/m2]
	QGRP 2		(--)		activated		94.12 percent
Area			1.675	0.000	0.000	PXX	1.92 [kN/m2]

ΤΑΦΡΟΣ Τ1 (3.00x2.80x1.50)m
ΣΥΝΔΥΑΣΜΕΝΕΣ ΣΕΙΣΜΙΚΕΣ ΦΟΡΤΙΣΕΙΣ(QH=1.50)

Meshfree Loading

Kind	Referenceto	Projection W[m]	Coordinates X[m]	Y[m]	Z[m]		Type Loadvalue
			1.675	0.000	-1.675		1.92 [kN/m2]
			1.675	12.000	-1.675		1.92 [kN/m2]
			1.675	12.000	0.000		1.92 [kN/m2]
	QGRP 3		(--)		activated		89.55 percent

Load Case 2025 ΣΕΙΣΜΟΣ -0.3EX+0.3EY+1.0EZ

Factor forces and moments 1.000
Factor dead weight DL-XX -0.144
Factor dead weight DL-YY 0.144
Factor dead weight DL-ZZ 1.778
Loads partially copied from load case 3 with factor 1.000
Loads partially copied from load case 5 with factor 0.200
Loads partially copied from load case 14 with factor 0.300

Meshfree Loading

Kind	Referenceto	Projection W[m]	Coordinates X[m]	Y[m]	Z[m]		Type Loadvalue
Area			-1.675	12.000	-2.975	PXX	0.00 [kN/m2]
			-1.675	0.000	-2.975		0.00 [kN/m2]
			-1.675	0.000	-0.175		25.75 [kN/m2]
			-1.675	12.000	-0.175		25.75 [kN/m2]
	QGRP 2	1.000			activated		100.00 percent
Area			1.675	12.000	-1.675	PXX	0.00 [kN/m2]
			1.675	0.000	-1.675		0.00 [kN/m2]
			1.675	0.000	-0.175		-13.79 [kN/m2]
			1.675	12.000	-0.175		-13.79 [kN/m2]
	QGRP 3	1.000			activated		100.00 percent
Area			1.675	0.000	-1.675	Pz	-2.04 [kN/m2]
			1.675	12.000	-1.675		-2.04 [kN/m2]
			1.675	12.000	-0.175		-2.04 [kN/m2]
			1.675	0.000	-0.175		-2.04 [kN/m2]
	QGRP 3				activated		100.00 percent
Area			-1.675	0.000	-2.975	Pz	-2.04 [kN/m2]
			-1.675	12.000	-2.975		-2.04 [kN/m2]
			-1.675	12.000	-0.175		-2.04 [kN/m2]
			-1.675	0.000	-0.175		-2.04 [kN/m2]
	QGRP 2				activated		100.00 percent
Area			-1.675	0.000	0.000	PXX	-3.27 [kN/m2]
			-1.675	0.000	-2.975		-3.27 [kN/m2]
			-1.675	12.000	-2.975		-3.27 [kN/m2]
			-1.675	12.000	0.000		-3.27 [kN/m2]
	QGRP 2		(--)		activated		94.12 percent
Area			1.675	0.000	0.000	PXX	-1.92 [kN/m2]
			1.675	0.000	-1.675		-1.92 [kN/m2]
			1.675	12.000	-1.675		-1.92 [kN/m2]
			1.675	12.000	0.000		-1.92 [kN/m2]
	QGRP 3		(--)		activated		89.55 percent

Load Case 2026 ΣΕΙΣΜΟΣ -0.3EX-0.3EY+1.0EZ

Factor forces and moments 1.000
Factor dead weight DL-XX -0.144
Factor dead weight DL-YY -0.144
Factor dead weight DL-ZZ 1.778
Loads partially copied from load case 3 with factor 1.000
Loads partially copied from load case 5 with factor 0.200
Loads partially copied from load case 14 with factor 0.300

Meshfree Loading

Kind	Referenceto	Projection W[m]	Coordinates X[m]	Y[m]	Z[m]		Type Loadvalue
Area			-1.675	12.000	-2.975	PXX	0.00 [kN/m2]
			-1.675	0.000	-2.975		0.00 [kN/m2]
			-1.675	0.000	-0.175		25.75 [kN/m2]
			-1.675	12.000	-0.175		25.75 [kN/m2]
	QGRP 2	1.000			activated		100.00 percent
Area			1.675	12.000	-1.675	PXX	0.00 [kN/m2]
			1.675	0.000	-1.675		0.00 [kN/m2]
			1.675	0.000	-0.175		-13.79 [kN/m2]
			1.675	12.000	-0.175		-13.79 [kN/m2]
	QGRP 3	1.000			activated		100.00 percent
Area			1.675	0.000	-1.675	Pz	-2.04 [kN/m2]
			1.675	12.000	-1.675		-2.04 [kN/m2]
			1.675	12.000	-0.175		-2.04 [kN/m2]
			1.675	0.000	-0.175		-2.04 [kN/m2]
	QGRP 3				activated		100.00 percent
Area			-1.675	0.000	-2.975	Pz	-2.04 [kN/m2]
			-1.675	12.000	-2.975		-2.04 [kN/m2]
			-1.675	12.000	-0.175		-2.04 [kN/m2]

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ΤΑΦΡΟΣ Τ1 (3.00x2.80x1.50)m
ΣΥΝΔΥΑΣΜΕΝΕΣ ΣΕΙΣΜΙΚΕΣ ΦΟΡΤΙΣΕΙΣ(QH=1.50)

Meshfree Loading

Kind	Referenceto	Projection W[m]	Coordinates X[m]	Y[m]	Z[m]	Type	Loadvalue
			-1.675	0.000	-0.175		-2.04 [kN/m2]
	QGRP 2			activated			100.00 percent
Area			-1.675	0.000	0.000	PXX	-3.27 [kN/m2]
			-1.675	0.000	-2.975		-3.27 [kN/m2]
			-1.675	12.000	-2.975		-3.27 [kN/m2]
			-1.675	12.000	0.000		-3.27 [kN/m2]
	QGRP 2		(--)		activated		94.12 percent
Area			1.675	0.000	0.000	PXX	-1.92 [kN/m2]
			1.675	0.000	-1.675		-1.92 [kN/m2]
			1.675	12.000	-1.675		-1.92 [kN/m2]
			1.675	12.000	0.000		-1.92 [kN/m2]
	QGRP 3		(--)		activated		89.55 percent

Load Case 2027 ΣΕΙΣΜΟΣ -0.3EX-0.3EY-1.0EZ

Factor forces and moments		1.000		
Factor dead weight	DL-XX	-0.144		
Factor dead weight	DL-YY	-0.144		
Factor dead weight	DL-ZZ	0.222		
Loads partially copied from load case		3 with factor	1.000	
Loads partially copied from load case		5 with factor	0.200	
Loads partially copied from load case		14 with factor	0.300	

Meshfree Loading

Kind	Referenceto	Projection W[m]	Coordinates X[m]	Y[m]	Z[m]	Type	Loadvalue
Area			-1.675	12.000	-2.975	PXX	0.00 [kN/m2]
			-1.675	0.000	-2.975		0.00 [kN/m2]
			-1.675	0.000	-0.175		25.75 [kN/m2]
			-1.675	12.000	-0.175		25.75 [kN/m2]
	QGRP 2	1.000			activated		100.00 percent
Area			1.675	12.000	-1.675	PXX	0.00 [kN/m2]
			1.675	0.000	-1.675		0.00 [kN/m2]
			1.675	0.000	-0.175		-13.79 [kN/m2]
			1.675	12.000	-0.175		-13.79 [kN/m2]
	QGRP 3	1.000			activated		100.00 percent
Area			1.675	0.000	-1.675	Pz	-2.04 [kN/m2]
			1.675	12.000	-1.675		-2.04 [kN/m2]
			1.675	12.000	-0.175		-2.04 [kN/m2]
			1.675	0.000	-0.175		-2.04 [kN/m2]
	QGRP 2				activated		100.00 percent
Area			-1.675	0.000	-2.975	Pz	-2.04 [kN/m2]
			-1.675	12.000	-2.975		-2.04 [kN/m2]
			-1.675	12.000	-0.175		-2.04 [kN/m2]
			-1.675	0.000	-0.175		-2.04 [kN/m2]
	QGRP 2				activated		100.00 percent
Area			-1.675	0.000	0.000	PXX	-3.27 [kN/m2]
			-1.675	0.000	-2.975		-3.27 [kN/m2]
			-1.675	12.000	-2.975		-3.27 [kN/m2]
			-1.675	12.000	0.000		-3.27 [kN/m2]
	QGRP 2		(--)		activated		94.12 percent
Area			1.675	0.000	0.000	PXX	-1.92 [kN/m2]
			1.675	0.000	-1.675		-1.92 [kN/m2]
			1.675	12.000	-1.675		-1.92 [kN/m2]
			1.675	12.000	0.000		-1.92 [kN/m2]
	QGRP 3		(--)		activated		89.55 percent

Load Case 2028 ΣΕΙΣΜΟΣ -0.3EX+0.3EY-1.0EZ

Factor forces and moments		1.000		
Factor dead weight	DL-XX	-0.144		
Factor dead weight	DL-YY	0.144		
Factor dead weight	DL-ZZ	0.222		
Loads partially copied from load case		3 with factor	1.000	
Loads partially copied from load case		5 with factor	0.200	
Loads partially copied from load case		14 with factor	0.300	

Meshfree Loading

Kind	Referenceto	Projection W[m]	Coordinates X[m]	Y[m]	Z[m]	Type	Loadvalue
Area			-1.675	12.000	-2.975	PXX	0.00 [kN/m2]
			-1.675	0.000	-2.975		0.00 [kN/m2]
			-1.675	0.000	-0.175		25.75 [kN/m2]
			-1.675	12.000	-0.175		25.75 [kN/m2]
	QGRP 2	1.000			activated		100.00 percent
Area			1.675	12.000	-1.675	PXX	0.00 [kN/m2]
			1.675	0.000	-1.675		0.00 [kN/m2]
			1.675	0.000	-0.175		-13.79 [kN/m2]
			1.675	12.000	-0.175		-13.79 [kN/m2]
	QGRP 3	1.000			activated		100.00 percent

ΤΑΦΡΟΣ Τ1 (3.00x2.80x1.50)m
ΣΥΝΔΥΑΣΜΕΝΕΣ ΣΕΙΣΜΙΚΕΣ ΦΟΡΤΙΣΕΙΣ(QH=1.50)

Meshfree Loading

Kind	Referenceto	Projection W[m]	Coordinates X[m]	Y[m]	Z[m]	Type	Loadvalue
Area			1.675	0.000	-1.675	Pz	-2.04 [kN/m2]
			1.675	12.000	-1.675		-2.04 [kN/m2]
			1.675	12.000	-0.175		-2.04 [kN/m2]
			1.675	0.000	-0.175		-2.04 [kN/m2]
	QGRP 3				activated		100.00 percent
Area			-1.675	0.000	-2.975	Pz	-2.04 [kN/m2]
			-1.675	12.000	-2.975		-2.04 [kN/m2]
			-1.675	12.000	-0.175		-2.04 [kN/m2]
			-1.675	0.000	-0.175		-2.04 [kN/m2]
	QGRP 2				activated		100.00 percent
Area			-1.675	0.000	0.000	PXX	-3.27 [kN/m2]
			-1.675	0.000	-2.975		-3.27 [kN/m2]
			-1.675	12.000	-2.975		-3.27 [kN/m2]
			-1.675	12.000	0.000		-3.27 [kN/m2]
	QGRP 2		(--)		activated		94.12 percent
Area			1.675	0.000	0.000	PXX	-1.92 [kN/m2]
			1.675	0.000	-1.675		-1.92 [kN/m2]
			1.675	12.000	-1.675		-1.92 [kN/m2]
			1.675	12.000	0.000		-1.92 [kN/m2]
	QGRP 3		(--)		activated		89.55 percent

ΤΑΦΡΟΣ Τ1 (3.00x2.80x1.50)m
ΕΠΙΛΥΣΗ ΣΕΙΣΜΙΚΩΝ ΦΟΡΤΙΩΝ (Q=1.50)

Analysis parameters
Calculation with nonlinear material properties

Nonlinear material properties are used for:
Springelements[CRAC,YIEL,MUE,GAP], pilebedding, QUAD-bedding
Only linear material properties are used for:
QUAD- and BRIQ-elements
Truss-, cable-, Beam-, pile- und boundaryelements
Beamelements

Sum of Loads

LC	Title	PXX[kN]	PYY[kN]	PZZ[kN]
2001	ΣΕΙΣΜΟΣ +1.0EX+0.3EY+0.3	1224.3	121.0	1035.9

Iteration sequence

Iteration	1	Residual	5.557	energy	11.6413	Step	1-1	f= 1.000
Update nonlinear stiffness								
Iteration	2	Residual	0.414	energy	17.0823	Step	2-1	f= 1.084
Iteration	3	Residual	0.010	energy	16.6796	Step	3-1	f= 1.003
Iteration	4	Residual	0.000	energy	16.6793	Step	4-1	f= 1.003
Iteration	5	Residual	0.000	energy	16.6793	Step	5-1	f= 0.995

Statistic nonlinear effects:

Statistic nonlinear effects of spring elements: no of elem.:	**443**
Number of longitudinal springs:	**443**
Number of torsional springs:	**0**
No. of longitudinal springs with activated gap:	-
No. of longitudinal springs cracked:	260
No. of longitudinal springs yielding:	-
" in the nonlinear part of the stress strain curve:	-
" in the nonlinear part of the spring worklaw curve:	-
No. of transvers springs with activated friction:	-
No. of transvers springs with activated cohasion:	-
" in the nonlinear part of the spring worklaw curve:	-

Statistic nonlinear QUAD bedding: no. of checked elements:	**375**
Number of elements failed under tension :	0
Number of elements with activated yielding:	0
Number of elements nonlinear in friction:	0
Number of elements nonlinear incl.cohasion:	0

ΤΑΦΡΟΣ Τ1 (3.00x2.80x1.50)m
ΕΠΙΛΥΣΗ ΣΕΙΣΜΙΚΩΝ ΦΟΡΤΙΩΝ (Q=1.50)

Analysis parameters
Calculation with nonlinear material properties

Nonlinear material properties are used for:
Springelements[CRAC,YIEL,MUE,GAP], pilebedding, QUAD-bedding
Only linear material properties are used for:
QUAD- and BRIQ-elements
Truss-, cable-, Beam-, pile- und boundaryelements
Beamelements

Sum of Loads

LC	Title	PXX[kN]	PYY[kN]	PZZ[kN]
2002	ΣΕΙΣΜΟΣ +1.0EX-0.3EY+0.3	1224.3	-121.0	1035.9

Iteration sequence

Iteration	1	Residual	5.556	energy	11.6413	Step	1-1	f= 1.000
Update nonlinear stiffness								
Iteration	2	Residual	0.414	energy	17.0825	Step	2-1	f= 1.084
Iteration	3	Residual	0.010	energy	16.6798	Step	3-1	f= 1.003
Iteration	4	Residual	0.000	energy	16.6795	Step	4-1	f= 1.003
Iteration	5	Residual	0.000	energy	16.6795	Step	5-1	f= 0.995

Statistic nonlinear effects:

Statistic nonlinear effects of spring elements: no of elem.:	**443**
Number of longitudinal springs:	**443**
Number of torsional springs:	**0**
No. of longitudinal springs with activated gap:	-
No. of longitudinal springs cracked:	260
No. of longitudinal springs yielding:	-
" in the nonlinear part of the stress strain curve:	-
" in the nonlinear part of the spring worklaw curve:	-
No. of transvers springs with activated friction:	-
No. of transvers springs with activated cohasion:	-
" in the nonlinear part of the spring worklaw curve:	-

Statistic nonlinear QUAD bedding: no. of checked elements:	**375**
Number of elements failed under tension :	0
Number of elements with activated yielding:	0
Number of elements nonlinear in friction:	0
Number of elements nonlinear incl.cohasion:	0

ΤΑΦΡΟΣ Τ1 (3.00x2.80x1.50)m
ΕΠΙΛΥΣΗ ΣΕΙΣΜΙΚΩΝ ΦΟΡΤΙΩΝ (Q=1.50)

Analysis parameters
Calculation with nonlinear material properties

Nonlinear material properties are used for:
Springelements[CRAC,YIEL,MUE,GAP], pilebedding, QUAD-bedding
Only linear material properties are used for:
QUAD- and BRIQ-elements
Truss-, cable-, Beam-, pile- und boundaryelements
Beamelements

Sum of Loads

LC	Title	PXX[kN]	PYY[kN]	PZZ[kN]
2003	ΣΕΙΣΜΟΣ +1.0EX-0.3EY-0.3	1224.3	-121.0	644.0

Iteration sequence

```
Iteration  1 Residual        6.192  energy   5.6837  Step  1-1 f=  1.000

Update nonlinear stiffness
Iteration  2 Residual        1.194  energy  12.6120  Step  2-1 f=  1.203
Iteration  3 Residual        0.067  energy  11.4605  Step  3-1 f=  1.004
Iteration  4 Residual        0.001  energy  11.4625  Step  4-1 f=  1.012
Iteration  5 Residual        0.000  energy  11.4625  Step  5-1 f=  0.998
Update nonlinear stiffness
Iteration  6 Residual        0.000  energy  11.4625  Step  6-1 f=  0.996
```

Statistic nonlinear effects:

```
Statistic nonlinear effects of spring elements: no of elem.:     443
                              Number of longitudinal springs:     443
                              Number of torsional    springs:       0
        No. of longitudinal springs with activated      gap:       -
        No. of longitudinal springs                  cracked:     260
        No. of longitudinal springs                yielding:       -
         " in the nonlinear part of the stress strain curve:       -
        " in the nonlinear part of the spring worklaw curve:       -
        No. of transvers springs with activated    friction:       -
        No. of transvers springs with activated    cohasion:       -
        " in the nonlinear part of the spring worklaw curve:       -

Statistic nonlinear QUAD bedding:   no. of checked elements:     375
                Number of elements failed under tension   :       0
                Number of elements with activated yielding:       0
                Number of elements nonlinear in   friction:       0
                Number of elements nonlinear incl.cohasion:       0
```


ΤΑΦΡΟΣ Τ1 (3.00x2.80x1.50)m
ΕΠΙΛΥΣΗ ΣΕΙΣΜΙΚΩΝ ΦΟΡΤΙΩΝ (Q=1.50)

Analysis parameters
Calculation with nonlinear material properties

Nonlinear material properties are used for:
Springelements[CRAC,YIEL,MUE,GAP], pilebedding, QUAD-bedding
Only linear material properties are used for:
QUAD- and BRIQ-elements
Truss-, cable-, Beam-, pile- und boundaryelements
Beamelements

Sum of Loads

LC	Title	PXX[kN]	PYY[kN]	PZZ[kN]
2004	ΣΕΙΣΜΟΣ +1.0EX+0.3EY-0.3	1224.3	121.0	644.0

Iteration sequence

```
Iteration  1 Residual        6.193  energy   5.6837  Step  1-1 f=  1.000

Update nonlinear stiffness
Iteration  2 Residual        1.194  energy  12.6118  Step  2-1 f=  1.203
Iteration  3 Residual        0.070  energy  11.4603  Step  3-1 f=  1.004
Iteration  4 Residual        0.001  energy  11.4623  Step  4-1 f=  1.012
Iteration  5 Residual        0.000  energy  11.4623  Step  5-1 f=  0.999
Update nonlinear stiffness
Iteration  6 Residual        0.000  energy  11.4623  Step  6-1 f=  0.996
```

Statistic nonlinear effects:

```
Statistic nonlinear effects of spring elements: no of elem.:     443
                              Number of longitudinal springs:     443
                              Number of torsional    springs:       0
        No. of longitudinal springs with activated      gap:       -
        No. of longitudinal springs                  cracked:     260
        No. of longitudinal springs                yielding:       -
         " in the nonlinear part of the stress strain curve:       -
        " in the nonlinear part of the spring worklaw curve:       -
        No. of transvers springs with activated    friction:       -
        No. of transvers springs with activated    cohasion:       -
        " in the nonlinear part of the spring worklaw curve:       -

Statistic nonlinear QUAD bedding:   no. of checked elements:     375
                Number of elements failed under tension   :       0
                Number of elements with activated yielding:       0
                Number of elements nonlinear in   friction:       0
                Number of elements nonlinear incl.cohasion:       0
```

ΤΑΦΡΟΣ Τ1 (3.00x2.80x1.50)m
ΕΠΙΛΥΣΗ ΣΕΙΣΜΙΚΩΝ ΦΟΡΤΙΩΝ (Q=1.50)

Analysis parameters
Calculation with nonlinear material properties

Nonlinear material properties are used for:
Springelements[CRAC,YIEL,MUE,GAP], pilebedding, QUAD-bedding
Only linear material properties are used for:
QUAD- and BRIQ-elements
Truss-, cable-, Beam-, pile- und boundaryelements
Beamelements

Sum of Loads

LC	Title	PXX[kN]	PYY[kN]	PZZ[kN]
2011	ΣΕΙΣΜΟΣ +0.3EX+1.0EY+0.3	605.5	403.2	1035.9

Iteration sequence

Iteration	1	Residual	2.623	energy	13.9140	Step	1-1	f= 1.000
Update nonlinear stiffness								
Iteration	2	Residual	10.617	energy	15.2741	Step	2-1	f= 1.017
Iteration	3	Residual	10.617	energy	14.9850	Step	2-2	f= 0.787
Iteration	4	Residual	2.709	energy	15.0339	Step	3-1	f= 0.788
Iteration	5	Residual	0.374	energy	15.0236	Step	3-2	f= 0.789
Update nonlinear stiffness								
Iteration	6	Residual	0.042	energy	15.0871	Step	4-1	f= 0.789
Iteration	7	Residual	0.002	energy	15.0949	Step	5-1	f= 0.891
Iteration	8	Residual	0.000	energy	15.0954	Step	6-1	f= 0.947

Statistic nonlinear effects:

Statistic nonlinear effects of spring elements: no of elem.:	**443**
Number of longitudinal springs:	**443**
Number of torsional springs:	**0**
No. of longitudinal springs with activated gap:	-
No. of longitudinal springs cracked:	260
No. of longitudinal springs yielding:	-
" in the nonlinear part of the stress strain curve:	-
" in the nonlinear part of the spring worklaw curve:	-
No. of transvers springs with activated friction:	-
No. of transvers springs with activated cohasion:	-
" in the nonlinear part of the spring worklaw curve:	-
Statistic nonlinear QUAD bedding: no. of checked elements:	**375**
Number of elements failed under tension :	0
Number of elements with activated yielding:	0
Number of elements nonlinear in friction:	0
Number of elements nonlinear incl.cohasion:	0

ΤΑΦΡΟΣ Τ1 (3.00x2.80x1.50)m
ΕΠΙΛΥΣΗ ΣΕΙΣΜΙΚΩΝ ΦΟΡΤΙΩΝ (Q=1.50)

Analysis parameters
Calculation with nonlinear material properties

Nonlinear material properties are used for:
Springelements[CRAC,YIEL,MUE,GAP], pilebedding, QUAD-bedding
Only linear material properties are used for:
QUAD- and BRIQ-elements
Truss-, cable-, Beam-, pile- und boundaryelements
Beamelements

Sum of Loads

LC	Title	PXX[kN]	PYY[kN]	PZZ[kN]
2012	ΣΕΙΣΜΟΣ +0.3EX-1.0EY+0.3	605.5	-403.2	1035.9

Iteration sequence

Iteration	1	Residual	2.624	energy	13.9140	Step	1-1	f= 1.000
Update nonlinear stiffness								
Iteration	2	Residual	10.368	energy	15.2741	Step	2-1	f= 1.017
Iteration	3	Residual	10.368	energy	14.9853	Step	2-2	f= 0.788
Iteration	4	Residual	2.717	energy	15.0342	Step	3-1	f= 0.788
Iteration	5	Residual	0.420	energy	15.0239	Step	3-2	f= 0.789
Update nonlinear stiffness								
Iteration	6	Residual	0.047	energy	15.0873	Step	4-1	f= 0.789
Iteration	7	Residual	0.003	energy	15.0951	Step	5-1	f= 0.891
Iteration	8	Residual	0.000	energy	15.0956	Step	6-1	f= 0.947

Statistic nonlinear effects:

Statistic nonlinear effects of spring elements: no of elem.:	**443**
Number of longitudinal springs:	**443**
Number of torsional springs:	**0**
No. of longitudinal springs with activated gap:	-
No. of longitudinal springs cracked:	260
No. of longitudinal springs yielding:	-
" in the nonlinear part of the stress strain curve:	-
" in the nonlinear part of the spring worklaw curve:	-
No. of transvers springs with activated friction:	-
No. of transvers springs with activated cohasion:	-
" in the nonlinear part of the spring worklaw curve:	-
Statistic nonlinear QUAD bedding: no. of checked elements:	**375**
Number of elements failed under tension :	0
Number of elements with activated yielding:	0
Number of elements nonlinear in friction:	0
Number of elements nonlinear incl.cohasion:	0

ΤΑΦΡΟΣ Τ1 (3.00x2.80x1.50)m
ΕΠΙΛΥΣΗ ΣΕΙΣΜΙΚΩΝ ΦΟΡΤΙΩΝ (Q=1.50)

Analysis parameters
Calculation with nonlinear material properties

Nonlinear material properties are used for:
Springelements[CRAC,YIEL,MUE,GAP], pilebedding, QUAD-bedding
Only linear material properties are used for:
QUAD- and BRIQ-elements
Truss-, cable-, Beam-, pile- und boundaryelements
Beamelements

Sum of Loads

LC	Title	PXX[kN]	PYY[kN]	PZZ[kN]
2013	ΣΕΙΣΜΟΣ +0.3EX-1.0EY-0.3	605.5	-403.2	644.0

Iteration sequence

Iteration	1	Residual	3.250	energy	7.9419	Step	1-1	f= 1.000
Update nonlinear stiffness								
Iteration	2	Residual	0.083	energy	9.5323	Step	2-1	f= 1.034
Iteration	3	Residual	0.002	energy	9.4854	Step	3-1	f= 1.003
Iteration	4	Residual	0.000	energy	9.4854	Step	4-1	f= 1.002

Statistic nonlinear effects:

Statistic nonlinear effects of spring elements: no of elem.:	**443**
Number of longitudinal springs:	**443**
Number of torsional springs:	**0**
No. of longitudinal springs with activated gap:	-
No. of longitudinal springs cracked:	260
No. of longitudinal springs yielding:	-
" in the nonlinear part of the stress strain curve:	-
" in the nonlinear part of the spring worklaw curve:	-
No. of transvers springs with activated friction:	-
No. of transvers springs with activated cohasion:	-
" in the nonlinear part of the spring worklaw curve:	-
Statistic nonlinear QUAD bedding: no. of checked elements:	**375**
Number of elements failed under tension :	0
Number of elements with activated yielding:	0
Number of elements nonlinear in friction:	0
Number of elements nonlinear incl.cohasion:	0

ΤΑΦΡΟΣ Τ1 (3.00x2.80x1.50)m
ΕΠΙΛΥΣΗ ΣΕΙΣΜΙΚΩΝ ΦΟΡΤΙΩΝ (Q=1.50)

Analysis parameters
Calculation with nonlinear material properties

Nonlinear material properties are used for:
Springelements[CRAC,YIEL,MUE,GAP], pilebedding, QUAD-bedding
Only linear material properties are used for:
QUAD- and BRIQ-elements
Truss-, cable-, Beam-, pile- und boundaryelements
Beamelements

Sum of Loads

LC	Title	PXX[kN]	PYY[kN]	PZZ[kN]
2014	ΣΕΙΣΜΟΣ +0.3EX+1.0EY-0.3	605.5	403.2	644.0

Iteration sequence

Iteration	1	Residual	3.250	energy	7.9419	Step	1-1	f= 1.000
Update nonlinear stiffness								
Iteration	2	Residual	0.083	energy	9.5320	Step	2-1	f= 1.034
Iteration	3	Residual	0.002	energy	9.4851	Step	3-1	f= 1.003
Iteration	4	Residual	0.000	energy	9.4851	Step	4-1	f= 1.002

Statistic nonlinear effects:

Statistic nonlinear effects of spring elements: no of elem.:	**443**
Number of longitudinal springs:	**443**
Number of torsional springs:	**0**
No. of longitudinal springs with activated gap:	-
No. of longitudinal springs cracked:	260
No. of longitudinal springs yielding:	-
" in the nonlinear part of the stress strain curve:	-
" in the nonlinear part of the spring worklaw curve:	-
No. of transvers springs with activated friction:	-
No. of transvers springs with activated cohasion:	-
" in the nonlinear part of the spring worklaw curve:	-
Statistic nonlinear QUAD bedding: no. of checked elements:	**375**
Number of elements failed under tension :	0
Number of elements with activated yielding:	0
Number of elements nonlinear in friction:	0
Number of elements nonlinear incl.cohasion:	0

ΤΑΦΡΟΣ Τ1 (3.00x2.80x1.50)m
ΕΠΙΛΥΣΗ ΣΕΙΣΜΙΚΩΝ ΦΟΡΤΙΩΝ (Q=1.50)

Analysis parameters
Calculation with nonlinear material properties

Nonlinear material properties are used for:
Springelements[CRAC,YIEL,MUE,GAP], pilebedding, QUAD-bedding
Only linear material properties are used for:
QUAD- and BRIQ-elements
Truss-, cable-, Beam-, pile- und boundaryelements
Beamelements

Sum of Loads

LC	Title	PXX[kN]	PYY[kN]	PZZ[kN]
2021	ΣΕΙΣΜΟΣ +0.3EX+0.3EY+1.0	605.5	121.0	1493.2

Iteration sequence

Iteration	1 Residual	1.795	energy	21.0285	Step	1-1 f=	1.000
Update nonlinear stiffness							
Iteration	2 Residual	7.392	energy	21.9627	Step	2-1 f=	1.011
Iteration	3 Residual	7.392	energy	21.7942	Step	2-2 f=	0.820
Iteration	4 Residual	2.262	energy	21.8416	Step	3-1 f=	0.822
Iteration	5 Residual	0.274	energy	21.8303	Step	3-2 f=	0.761
Update nonlinear stiffness							
Iteration	6 Residual	0.035	energy	21.8703	Step	4-1 f=	0.761
Iteration	7 Residual	0.002	energy	21.8759	Step	5-1 f=	0.876
Iteration	8 Residual	0.000	energy	21.8763	Step	6-1 f=	0.939

Statistic nonlinear effects:

Statistic nonlinear effects of spring elements: no of elem.:	**443**
Number of longitudinal springs:	**443**
Number of torsional springs:	**0**
No. of longitudinal springs with activated gap:	-
No. of longitudinal springs cracked:	260
No. of longitudinal springs yielding:	-
" in the nonlinear part of the stress strain curve:	-
" in the nonlinear part of the spring worklaw curve:	-
No. of transvers springs with activated friction:	-
No. of transvers springs with activated cohasion:	-
" in the nonlinear part of the spring worklaw curve:	-
Statistic nonlinear QUAD bedding: no. of checked elements:	**375**
Number of elements failed under tension :	0
Number of elements with activated yielding:	0
Number of elements nonlinear in friction:	0
Number of elements nonlinear incl.cohasion:	0

ΤΑΦΡΟΣ Τ1 (3.00x2.80x1.50)m
ΕΠΙΛΥΣΗ ΣΕΙΣΜΙΚΩΝ ΦΟΡΤΙΩΝ (Q=1.50)

Analysis parameters
Calculation with nonlinear material properties

Nonlinear material properties are used for:
Springelements[CRAC,YIEL,MUE,GAP], pilebedding, QUAD-bedding
Only linear material properties are used for:
QUAD- and BRIQ-elements
Truss-, cable-, Beam-, pile- und boundaryelements
Beamelements

Sum of Loads

LC	Title	PXX[kN]	PYY[kN]	PZZ[kN]
2022	ΣΕΙΣΜΟΣ +0.3EX-0.3EY+1.0	605.5	-121.0	1493.2

Iteration sequence

Iteration	1 Residual	1.793	energy	21.0285	Step	1-1 f=	1.000
Update nonlinear stiffness							
Iteration	2 Residual	7.318	energy	21.9627	Step	2-1 f=	1.011
Iteration	3 Residual	7.318	energy	21.7943	Step	2-2 f=	0.820
Iteration	4 Residual	2.262	energy	21.8417	Step	3-1 f=	0.822
Iteration	5 Residual	0.288	energy	21.8304	Step	3-2 f=	0.761
Update nonlinear stiffness							
Iteration	6 Residual	0.037	energy	21.8703	Step	4-1 f=	0.761
Iteration	7 Residual	0.002	energy	21.8759	Step	5-1 f=	0.876
Iteration	8 Residual	0.000	energy	21.8763	Step	6-1 f=	0.939

Statistic nonlinear effects:

Statistic nonlinear effects of spring elements: no of elem.:	**443**
Number of longitudinal springs:	**443**
Number of torsional springs:	**0**
No. of longitudinal springs with activated gap:	-
No. of longitudinal springs cracked:	260
No. of longitudinal springs yielding:	-
" in the nonlinear part of the stress strain curve:	-
" in the nonlinear part of the spring worklaw curve:	-
No. of transvers springs with activated friction:	-
No. of transvers springs with activated cohasion:	-
" in the nonlinear part of the spring worklaw curve:	-
Statistic nonlinear QUAD bedding: no. of checked elements:	**375**
Number of elements failed under tension :	0
Number of elements with activated yielding:	0
Number of elements nonlinear in friction:	0
Number of elements nonlinear incl.cohasion:	0

ΤΑΦΡΟΣ Τ1 (3.00x2.80x1.50)m
ΕΠΙΛΥΣΗ ΣΕΙΣΜΙΚΩΝ ΦΟΡΤΙΩΝ (Q=1.50)

Analysis parameters
Calculation with nonlinear material properties

Nonlinear material properties are used for:
Springelements[CRAC,YIEL,MUE,GAP], pilebedding, QUAD-bedding
Only linear material properties are used for:
QUAD- and BRIQ-elements
Truss-, cable-, Beam-, pile- und boundaryelements
Beamelements

Sum of Loads

LC	Title	PXX[kN]	PYY[kN]	PZZ[kN]
2023	ΣΕΙΣΜΟΣ +0.3EX-0.3EY-1.0	605.5	-121.0	186.8

Iteration sequence

Iteration	1	Residual	3.903	energy	1.1215	Step 1-1	f= 1.000
Update nonlinear stiffness							
Iteration	2	Residual	1.422	energy	3.9379	Step 2-1	f= 1.376
Iteration	3	Residual	0.494	energy	3.2906	Step 2-2	f= 0.770
Iteration	4	Residual	0.199	energy	3.2171	Step 3-1	f= 0.758
Iteration	5	Residual	0.074	energy	3.2105	Step 4-1	f= 1.180
Update nonlinear stiffness							
Iteration	6	Residual	0.060	energy	3.2225	Step 5-1	f= 1.775
Iteration	7	Residual	0.035	energy	3.2183	Step 5-2	f= 0.649
Iteration	8	Residual	0.007	energy	3.2178	Step 6-1	f= 0.643
Iteration	9	Residual	0.001	energy	3.2177	Step 7-1	f= 0.796
Iteration	10	Residual	0.000	energy	3.2177	Step 8-1	f= 0.894

Statistic nonlinear effects:

Statistic nonlinear effects of spring elements: no of elem.:	**443**
Number of longitudinal springs:	**443**
Number of torsional springs:	**0**
No. of longitudinal springs with activated gap:	-
No. of longitudinal springs cracked:	260
No. of longitudinal springs yielding:	-
" in the nonlinear part of the stress strain curve:	-
" in the nonlinear part of the spring worklaw curve:	-
No. of transvers springs with activated friction:	-
No. of transvers springs with activated cohasion:	-
" in the nonlinear part of the spring worklaw curve:	-
Statistic nonlinear QUAD bedding: no. of checked elements:	**375**
Number of elements failed under tension :	154
Number of elements with activated yielding:	0
Number of elements nonlinear in friction:	0
Number of elements nonlinear incl.cohasion:	0

ΤΑΦΡΟΣ Τ1 (3.00x2.80x1.50)m
ΕΠΙΛΥΣΗ ΣΕΙΣΜΙΚΩΝ ΦΟΡΤΙΩΝ (Q=1.50)

Analysis parameters
Calculation with nonlinear material properties

Nonlinear material properties are used for:
Springelements[CRAC,YIEL,MUE,GAP], pilebedding, QUAD-bedding
Only linear material properties are used for:
QUAD- and BRIQ-elements
Truss-, cable-, Beam-, pile- und boundaryelements
Beamelements

Sum of Loads

LC	Title	PXX[kN]	PYY[kN]	PZZ[kN]
2024	ΣΕΙΣΜΟΣ +0.3EX+0.3EY-1.0	605.5	121.0	186.8

Iteration sequence

Iteration	1	Residual	3.903	energy	1.1215	Step 1-1	f= 1.000
Update nonlinear stiffness							
Iteration	2	Residual	1.422	energy	3.9378	Step 2-1	f= 1.376
Iteration	3	Residual	0.499	energy	3.2905	Step 2-2	f= 0.770
Iteration	4	Residual	0.202	energy	3.2171	Step 3-1	f= 0.759
Iteration	5	Residual	0.075	energy	3.2106	Step 4-1	f= 1.181
Update nonlinear stiffness							
Iteration	6	Residual	0.068	energy	3.2226	Step 5-1	f= 1.779
Iteration	7	Residual	0.042	energy	3.2184	Step 5-2	f= 0.649
Iteration	8	Residual	0.008	energy	3.2179	Step 6-1	f= 0.643
Iteration	9	Residual	0.001	energy	3.2178	Step 7-1	f= 0.793
Iteration	10	Residual	0.000	energy	3.2178	Step 8-1	f= 0.884

Statistic nonlinear effects:

Statistic nonlinear effects of spring elements: no of elem.:	**443**
Number of longitudinal springs:	**443**
Number of torsional springs:	**0**
No. of longitudinal springs with activated gap:	-
No. of longitudinal springs cracked:	260
No. of longitudinal springs yielding:	-
" in the nonlinear part of the stress strain curve:	-
" in the nonlinear part of the spring worklaw curve:	-
No. of transvers springs with activated friction:	-
No. of transvers springs with activated cohasion:	-
" in the nonlinear part of the spring worklaw curve:	-
Statistic nonlinear QUAD bedding: no. of checked elements:	**375**
Number of elements failed under tension :	154
Number of elements with activated yielding:	0
Number of elements nonlinear in friction:	0
Number of elements nonlinear incl.cohasion:	0

ΤΑΦΡΟΣ Τ1 (3.00x2.80x1.50)m
ΕΠΙΛΥΣΗ ΣΕΙΣΜΙΚΩΝ ΦΟΡΤΙΩΝ (Q=1.50)

Analysis parameters
Calculation with nonlinear material properties

Nonlinear material properties are used for:
Springelements[CRAC,YIEL,MUE,GAP], pilebedding, QUAD-bedding
Only linear material properties are used for:
QUAD- and BRIQ-elements
Truss-, cable-, Beam-, pile- und boundaryelements
Beamelements

Sum of Loads

LC	Title	PXX[kN]	PYY[kN]	PZZ[kN]
2005	ΣΕΙΣΜΟΣ -1.0EX+0.3EY+0.3	-543.8	121.0	1035.9

Iteration sequence

```
Iteration  1 Residual        4.572  energy  10.4029  Step  1-1 f=  1.000

Update nonlinear stiffness
Iteration  2 Residual        0.062  energy  10.8887  Step  2-1 f=  1.016
Iteration  3 Residual        0.000  energy  10.8817  Step  3-1 f=  1.001
Iteration  4 Residual        0.000  energy  10.8817  Step  4-1 f=  1.001
```

Statistic nonlinear effects:

```
Statistic nonlinear effects of spring elements: no of elem.:     443
                                Number of longitudinal springs:  443
                                Number of torsional    springs:    0
        No. of longitudinal springs with activated      gap:       -
        No. of longitudinal springs                  cracked:     183
        No. of longitudinal springs                yielding:       -
         " in the nonlinear part of the stress strain curve:       -
        " in the nonlinear part of the spring worklaw curve:       -
        No. of transvers springs with activated    friction:       -
        No. of transvers springs with activated    cohasion:       -
        " in the nonlinear part of the spring worklaw curve:       -

Statistic nonlinear QUAD bedding:   no. of checked elements:     375
                Number of elements failed under tension   :       0
                Number of elements with activated yielding:       0
                Number of elements nonlinear in   friction:       0
                Number of elements nonlinear incl.cohasion:       0
```


ΤΑΦΡΟΣ Τ1 (3.00x2.80x1.50)m
ΕΠΙΛΥΣΗ ΣΕΙΣΜΙΚΩΝ ΦΟΡΤΙΩΝ (Q=1.50)

Analysis parameters
Calculation with nonlinear material properties

Nonlinear material properties are used for:
Springelements[CRAC,YIEL,MUE,GAP], pilebedding, QUAD-bedding
Only linear material properties are used for:
QUAD- and BRIQ-elements
Truss-, cable-, Beam-, pile- und boundaryelements
Beamelements

Sum of Loads

LC	Title	PXX[kN]	PYY[kN]	PZZ[kN]
2006	ΣΕΙΣΜΟΣ -1.0EX-0.3EY+0.3	-543.8	-121.0	1035.9

Iteration sequence

```
Iteration  1 Residual        4.605  energy  10.4028  Step  1-1 f=  1.000

Update nonlinear stiffness
Iteration  2 Residual        0.062  energy  10.8887  Step  2-1 f=  1.016
Iteration  3 Residual        0.000  energy  10.8817  Step  3-1 f=  1.001
Iteration  4 Residual        0.000  energy  10.8817  Step  4-1 f=  1.001
```

Statistic nonlinear effects:

```
Statistic nonlinear effects of spring elements: no of elem.:     443
                                Number of longitudinal springs:  443
                                Number of torsional    springs:    0
        No. of longitudinal springs with activated      gap:       -
        No. of longitudinal springs                  cracked:     183
        No. of longitudinal springs                yielding:       -
         " in the nonlinear part of the stress strain curve:       -
        " in the nonlinear part of the spring worklaw curve:       -
        No. of transvers springs with activated    friction:       -
        No. of transvers springs with activated    cohasion:       -
        " in the nonlinear part of the spring worklaw curve:       -

Statistic nonlinear QUAD bedding:   no. of checked elements:     375
                Number of elements failed under tension   :       0
                Number of elements with activated yielding:       0
                Number of elements nonlinear in   friction:       0
                Number of elements nonlinear incl.cohasion:       0
```

ΤΑΦΡΟΣ Τ1 (3.00x2.80x1.50)m
ΕΠΙΛΥΣΗ ΣΕΙΣΜΙΚΩΝ ΦΟΡΤΙΩΝ (Q=1.50)

Analysis parameters
Calculation with nonlinear material properties

Nonlinear material properties are used for:
Springelements[CRAC,YIEL,MUE,GAP], pilebedding, QUAD-bedding
Only linear material properties are used for:
QUAD- and BRIQ-elements
Truss-, cable-, Beam-, pile- und boundaryelements
Beamelements

Sum of Loads

LC	Title	PXX[kN]	PYY[kN]	PZZ[kN]
2007	ΣΕΙΣΜΟΣ -1.0EX-0.3EY-0.3	-543.8	-121.0	644.0

Iteration sequence

Iteration	1 Residual	4.242	energy	4.4039	Step	1-1	f= 1.000
Update nonlinear stiffness							
Iteration	2 Residual	0.154	energy	4.9154	Step	2-1	f= 1.039
Iteration	3 Residual	0.001	energy	4.8971	Step	3-1	f= 1.002
Iteration	4 Residual	0.000	energy	4.8971	Step	4-1	f= 1.001

Statistic nonlinear effects:

Statistic nonlinear effects of spring elements: no of elem.:	**443**
Number of longitudinal springs:	**443**
Number of torsional springs:	**0**
No. of longitudinal springs with activated gap:	-
No. of longitudinal springs cracked:	183
No. of longitudinal springs yielding:	-
" in the nonlinear part of the stress strain curve:	-
" in the nonlinear part of the spring worklaw curve:	-
No. of transvers springs with activated friction:	-
No. of transvers springs with activated cohasion:	-
" in the nonlinear part of the spring worklaw curve:	-
Statistic nonlinear QUAD bedding: no. of checked elements:	**375**
Number of elements failed under tension :	0
Number of elements with activated yielding:	0
Number of elements nonlinear in friction:	0
Number of elements nonlinear incl.cohasion:	0

ΤΑΦΡΟΣ Τ1 (3.00x2.80x1.50)m
ΕΠΙΛΥΣΗ ΣΕΙΣΜΙΚΩΝ ΦΟΡΤΙΩΝ (Q=1.50)

Analysis parameters
Calculation with nonlinear material properties

Nonlinear material properties are used for:
Springelements[CRAC,YIEL,MUE,GAP], pilebedding, QUAD-bedding
Only linear material properties are used for:
QUAD- and BRIQ-elements
Truss-, cable-, Beam-, pile- und boundaryelements
Beamelements

Sum of Loads

LC	Title	PXX[kN]	PYY[kN]	PZZ[kN]
2008	ΣΕΙΣΜΟΣ -1.0EX+0.3EY-0.3	-543.8	121.0	644.0

Iteration sequence

Iteration	1 Residual	4.209	energy	4.4040	Step	1-1	f= 1.000
Update nonlinear stiffness							
Iteration	2 Residual	0.153	energy	4.9154	Step	2-1	f= 1.039
Iteration	3 Residual	0.001	energy	4.8971	Step	3-1	f= 1.002
Iteration	4 Residual	0.000	energy	4.8971	Step	4-1	f= 1.001

Statistic nonlinear effects:

Statistic nonlinear effects of spring elements: no of elem.:	**443**
Number of longitudinal springs:	**443**
Number of torsional springs:	**0**
No. of longitudinal springs with activated gap:	-
No. of longitudinal springs cracked:	183
No. of longitudinal springs yielding:	-
" in the nonlinear part of the stress strain curve:	-
" in the nonlinear part of the spring worklaw curve:	-
No. of transvers springs with activated friction:	-
No. of transvers springs with activated cohasion:	-
" in the nonlinear part of the spring worklaw curve:	-
Statistic nonlinear QUAD bedding: no. of checked elements:	**375**
Number of elements failed under tension :	0
Number of elements with activated yielding:	0
Number of elements nonlinear in friction:	0
Number of elements nonlinear incl.cohasion:	0

ΤΑΦΡΟΣ Τ1 (3.00x2.80x1.50)m
ΕΠΙΛΥΣΗ ΣΕΙΣΜΙΚΩΝ ΦΟΡΤΙΩΝ (Q=1.50)

Analysis parameters
Calculation with nonlinear material properties

Nonlinear material properties are used for:
Springelements[CRAC,YIEL,MUE,GAP], pilebedding, QUAD-bedding
Only linear material properties are used for:
QUAD- and BRIQ-elements
Truss-, cable-, Beam-, pile- und boundaryelements
Beamelements

Sum of Loads

LC	Title	PXX[kN]	PYY[kN]	PZZ[kN]
2015	ΣΕΙΣΜΟΣ -0.3EX+1.0EY+0.3	75.1	403.2	1035.9

Iteration sequence

Iteration 1	Residual	2.199	energy	13.5424	Step	1-1	f= 1.000
Update nonlinear stiffness							
Iteration 2	Residual	1.305	energy	13.6042	Step	2-1	f= 1.003
Iteration 3	Residual	1.305	energy	13.5941	Step	2-2	f= 0.837
Iteration 4	Residual	0.989	energy	13.5997	Step	3-1	f= 0.842
Iteration 5	Residual	0.526	energy	13.5971	Step	3-2	f= 0.537
Iteration 6	Residual	0.254	energy	13.5961	Step	3-3	f= 0.359
Iteration 7	Residual	0.261	energy	13.5957	Step	3-4	f= 0.288
Update nonlinear stiffness							
Iteration 8	Residual	0.138	energy	13.5991	Step	4-1	f= 0.223
Iteration 9	Residual	0.043	energy	13.6016	Step	5-1	f= 0.470
Iteration 10	Residual	0.008	energy	13.6026	Step	6-1	f= 0.683
Iteration 11	Residual	0.001	energy	13.6027	Step	7-1	f= 0.823
Iteration 12	Residual	0.000	energy	13.6028	Step	8-1	f= 0.905

Statistic nonlinear effects:

Statistic nonlinear effects of spring elements: no of elem.:	**443**
Number of longitudinal springs:	**443**
Number of torsional springs:	**0**
No. of longitudinal springs with activated gap:	-
No. of longitudinal springs cracked:	270
No. of longitudinal springs yielding:	-
" in the nonlinear part of the stress strain curve:	-
" in the nonlinear part of the spring worklaw curve:	-
No. of transvers springs with activated friction:	-
No. of transvers springs with activated cohasion:	-
" in the nonlinear part of the spring worklaw curve:	-

Statistic nonlinear QUAD bedding: no. of checked elements:	**375**
Number of elements failed under tension :	0
Number of elements with activated yielding:	0
Number of elements nonlinear in friction:	0
Number of elements nonlinear incl.cohasion:	0

ΤΑΦΡΟΣ Τ1 (3.00x2.80x1.50)m
ΕΠΙΛΥΣΗ ΣΕΙΣΜΙΚΩΝ ΦΟΡΤΙΩΝ (Q=1.50)

Analysis parameters
Calculation with nonlinear material properties

Nonlinear material properties are used for:
Springelements[CRAC,YIEL,MUE,GAP], pilebedding, QUAD-bedding
Only linear material properties are used for:
QUAD- and BRIQ-elements
Truss-, cable-, Beam-, pile- und boundaryelements
Beamelements

Sum of Loads

LC	Title	PXX[kN]	PYY[kN]	PZZ[kN]
2016	ΣΕΙΣΜΟΣ -0.3EX-1.0EY+0.3	75.1	-403.2	1035.9

Iteration sequence

Iteration 1	Residual	2.309	energy	13.5424	Step	1-1	f= 1.000
Update nonlinear stiffness							
Iteration 2	Residual	1.305	energy	13.6042	Step	2-1	f= 1.003
Iteration 3	Residual	1.305	energy	13.5941	Step	2-2	f= 0.837
Iteration 4	Residual	0.988	energy	13.5997	Step	3-1	f= 0.842
Iteration 5	Residual	0.525	energy	13.5971	Step	3-2	f= 0.537
Iteration 6	Residual	0.252	energy	13.5961	Step	3-3	f= 0.359
Iteration 7	Residual	0.275	energy	13.5957	Step	3-4	f= 0.288
Update nonlinear stiffness							
Iteration 8	Residual	0.145	energy	13.5991	Step	4-1	f= 0.223
Iteration 9	Residual	0.046	energy	13.6016	Step	5-1	f= 0.471
Iteration 10	Residual	0.008	energy	13.6026	Step	6-1	f= 0.683
Iteration 11	Residual	0.001	energy	13.6027	Step	7-1	f= 0.823
Iteration 12	Residual	0.000	energy	13.6028	Step	8-1	f= 0.905

Statistic nonlinear effects:

Statistic nonlinear effects of spring elements: no of elem.:	**443**
Number of longitudinal springs:	**443**
Number of torsional springs:	**0**
No. of longitudinal springs with activated gap:	-
No. of longitudinal springs cracked:	270
No. of longitudinal springs yielding:	-
" in the nonlinear part of the stress strain curve:	-
" in the nonlinear part of the spring worklaw curve:	-
No. of transvers springs with activated friction:	-
No. of transvers springs with activated cohasion:	-
" in the nonlinear part of the spring worklaw curve:	-

Statistic nonlinear QUAD bedding: no. of checked elements:	**375**
Number of elements failed under tension :	0
Number of elements with activated yielding:	0
Number of elements nonlinear in friction:	0
Number of elements nonlinear incl.cohasion:	0

ΤΑΦΡΟΣ Τ1 (3.00x2.80x1.50)m
ΕΠΙΛΥΣΗ ΣΕΙΣΜΙΚΩΝ ΦΟΡΤΙΩΝ (Q=1.50)

Analysis parameters
Calculation with nonlinear material properties

Nonlinear material properties are used for:
Springelements[CRAC,YIEL,MUE,GAP], pilebedding, QUAD-bedding
Only linear material properties are used for:
QUAD- and BRIQ-elements
Truss-, cable-, Beam-, pile- und boundaryelements
Beamelements

Sum of Loads

LC	Title	PXX[kN]	PYY[kN]	PZZ[kN]
2017	ΣΕΙΣΜΟΣ -0.3EX-1.0EY-0.3	75.1	-403.2	644.0

Iteration sequence

Iteration	1 Residual	1.946	energy	7.5579	Step	1-1	f= 1.000
Update nonlinear stiffness							
Iteration	2 Residual	0.330	energy	7.6226	Step	2-1	f= 1.004
Iteration	3 Residual	0.106	energy	7.6223	Step	3-1	f= 0.987
Iteration	4 Residual	0.054	energy	7.6224	Step	3-2	f= 0.686
Iteration	5 Residual	0.011	energy	7.6223	Step	4-1	f= 0.678
Update nonlinear stiffness							
Iteration	6 Residual	0.002	energy	7.6223	Step	5-1	f= 0.722
Iteration	7 Residual	0.000	energy	7.6223	Step	6-1	f= 0.850

Statistic nonlinear effects:

Statistic nonlinear effects of spring elements: no of elem.:	**443**
Number of longitudinal springs:	**443**
Number of torsional springs:	**0**
No. of longitudinal springs with activated gap:	-
No. of longitudinal springs cracked:	326
No. of longitudinal springs yielding:	-
" in the nonlinear part of the stress strain curve:	-
" in the nonlinear part of the spring worklaw curve:	-
No. of transvers springs with activated friction:	-
No. of transvers springs with activated cohasion:	-
" in the nonlinear part of the spring worklaw curve:	-

Statistic nonlinear QUAD bedding: no. of checked elements:	**375**
Number of elements failed under tension :	0
Number of elements with activated yielding:	0
Number of elements nonlinear in friction:	0
Number of elements nonlinear incl.cohasion:	0

ΤΑΦΡΟΣ Τ1 (3.00x2.80x1.50)m
ΕΠΙΛΥΣΗ ΣΕΙΣΜΙΚΩΝ ΦΟΡΤΙΩΝ (Q=1.50)

Analysis parameters
Calculation with nonlinear material properties

Nonlinear material properties are used for:
Springelements[CRAC,YIEL,MUE,GAP], pilebedding, QUAD-bedding
Only linear material properties are used for:
QUAD- and BRIQ-elements
Truss-, cable-, Beam-, pile- und boundaryelements
Beamelements

Sum of Loads

LC	Title	PXX[kN]	PYY[kN]	PZZ[kN]
2018	ΣΕΙΣΜΟΣ -0.3EX+1.0EY-0.3	75.1	403.2	644.0

Iteration sequence

Iteration	1 Residual	1.837	energy	7.5580	Step	1-1	f= 1.000
Update nonlinear stiffness							
Iteration	2 Residual	0.330	energy	7.6226	Step	2-1	f= 1.004
Iteration	3 Residual	0.105	energy	7.6223	Step	3-1	f= 0.987
Iteration	4 Residual	0.054	energy	7.6224	Step	3-2	f= 0.686
Iteration	5 Residual	0.011	energy	7.6223	Step	4-1	f= 0.678
Update nonlinear stiffness							
Iteration	6 Residual	0.002	energy	7.6223	Step	5-1	f= 0.721
Iteration	7 Residual	0.000	energy	7.6223	Step	6-1	f= 0.850

Statistic nonlinear effects:

Statistic nonlinear effects of spring elements: no of elem.:	**443**
Number of longitudinal springs:	**443**
Number of torsional springs:	**0**
No. of longitudinal springs with activated gap:	-
No. of longitudinal springs cracked:	326
No. of longitudinal springs yielding:	-
" in the nonlinear part of the stress strain curve:	-
" in the nonlinear part of the spring worklaw curve:	-
No. of transvers springs with activated friction:	-
No. of transvers springs with activated cohasion:	-
" in the nonlinear part of the spring worklaw curve:	-

Statistic nonlinear QUAD bedding: no. of checked elements:	**375**
Number of elements failed under tension :	0
Number of elements with activated yielding:	0
Number of elements nonlinear in friction:	0
Number of elements nonlinear incl.cohasion:	0

ΤΑΦΡΟΣ Τ1 (3.00x2.80x1.50)m
ΕΠΙΛΥΣΗ ΣΕΙΣΜΙΚΩΝ ΦΟΡΤΙΩΝ (Q=1.50)

Analysis parameters
Calculation with nonlinear material properties

Nonlinear material properties are used for:
Springelements[CRAC,YIEL,MUE,GAP], pilebedding, QUAD-bedding
Only linear material properties are used for:
QUAD- and BRIQ-elements
Truss-, cable-, Beam-, pile- und boundaryelements
Beamelements

Sum of Loads

LC	Title	PXX[kN]	PYY[kN]	PZZ[kN]
2025	ΣΕΙΣΜΟΣ -0.3EX+0.3EY+1.0	75.1	121.0	1493.2

Iteration sequence
Iteration 1 Residual 2.661 energy 20.6714 Step 1-1 f= 1.000

Update nonlinear stiffness
Iteration 2 Residual 0.037 energy 20.7576 Step 2-1 f= 1.002
Iteration 3 Residual 0.003 energy 20.7570 Step 3-1 f= 0.997
Iteration 4 Residual 0.000 energy 20.7570 Step 4-1 f= 0.968

Statistic nonlinear effects:

Statistic nonlinear effects of spring elements: no of elem.: 443
Number of longitudinal springs: 443
Number of torsional springs: 0
No. of longitudinal springs with activated gap: -
No. of longitudinal springs cracked: 217
No. of longitudinal springs yielding: -
" in the nonlinear part of the stress strain curve: -
" in the nonlinear part of the spring worklaw curve: -
No. of transvers springs with activated friction: -
No. of transvers springs with activated cohasion: -
" in the nonlinear part of the spring worklaw curve: -

Statistic nonlinear QUAD bedding: no. of checked elements: 375
Number of elements failed under tension : 0
Number of elements with activated yielding: 0
Number of elements nonlinear in friction: 0
Number of elements nonlinear incl.cohasion: 0

ΤΑΦΡΟΣ Τ1 (3.00x2.80x1.50)m
ΕΠΙΛΥΣΗ ΣΕΙΣΜΙΚΩΝ ΦΟΡΤΙΩΝ (Q=1.50)

Analysis parameters
Calculation with nonlinear material properties

Nonlinear material properties are used for:
Springelements[CRAC,YIEL,MUE,GAP], pilebedding, QUAD-bedding
Only linear material properties are used for:
QUAD- and BRIQ-elements
Truss-, cable-, Beam-, pile- und boundaryelements
Beamelements

Sum of Loads

LC	Title	PXX[kN]	PYY[kN]	PZZ[kN]
2026	ΣΕΙΣΜΟΣ -0.3EX-0.3EY+1.0	75.1	-121.0	1493.2

Iteration sequence
Iteration 1 Residual 2.694 energy 20.6714 Step 1-1 f= 1.000

Update nonlinear stiffness
Iteration 2 Residual 0.051 energy 20.7576 Step 2-1 f= 1.002
Iteration 3 Residual 0.005 energy 20.7570 Step 3-1 f= 0.997
Iteration 4 Residual 0.000 energy 20.7570 Step 4-1 f= 0.956
Iteration 5 Residual 0.000 energy 20.7570 Step 5-1 f= 0.876

Statistic nonlinear effects:

Statistic nonlinear effects of spring elements: no of elem.: 443
Number of longitudinal springs: 443
Number of torsional springs: 0
No. of longitudinal springs with activated gap: -
No. of longitudinal springs cracked: 217
No. of longitudinal springs yielding: -
" in the nonlinear part of the stress strain curve: -
" in the nonlinear part of the spring worklaw curve: -
No. of transvers springs with activated friction: -
No. of transvers springs with activated cohasion: -
" in the nonlinear part of the spring worklaw curve: -

Statistic nonlinear QUAD bedding: no. of checked elements: 375
Number of elements failed under tension : 0
Number of elements with activated yielding: 0
Number of elements nonlinear in friction: 0
Number of elements nonlinear incl.cohasion: 0

ΤΑΦΡΟΣ Τ1 (3.00x2.80x1.50)m
ΕΠΙΛΥΣΗ ΣΕΙΣΜΙΚΩΝ ΦΟΡΤΙΩΝ (Q=1.50)

Analysis parameters
Calculation with nonlinear material properties

Nonlinear material properties are used for:
Springelements[CRAC,YIEL,MUE,GAP], pilebedding, QUAD-bedding
Only linear material properties are used for:
QUAD- and BRIQ-elements
Truss-, cable-, Beam-, pile- und boundaryelements
Beamelements

Sum of Loads

LC	Title	PXX[kN]	PYY[kN]	PZZ[kN]
2027	ΣΕΙΣΜΟΣ -0.3EX-0.3EY-1.0	75.1	-121.0	186.8

Iteration sequence

```
Iteration  1 Residual        1.485  energy 723.1413  Step  1-1 f=  1.000

Update nonlinear stiffness
Iteration  2 Residual        7.426  energy 983.3980  Step  2-1 f=  1.051
Iteration  3 Residual        7.426  energy 819.3253  Step  2-2 f=  0.370
Iteration  4 Residual        1.136  energy 867.7944  Step  3-1 f=  0.447
Iteration  5 Residual        0.526  energy 857.1689  Step  3-2 f=  0.781
Update nonlinear stiffness
Iteration  6 Residual        1.093  energy 908.8729  Step  4-1 f=  0.732
Iteration  7 Residual        0.073  energy 916.6089  Step  5-1 f=  0.835
Iteration  8 Residual        0.004  energy 917.3376  Step  6-1 f=  0.916
Iteration  9 Residual        0.000  energy 917.3719  Step  7-1 f=  0.960
Iteration 10 Residual        0.000  energy 917.3727  Step  8-1 f=  0.982
```

Statistic nonlinear effects:

```
Statistic nonlinear effects of spring elements: no of elem.:     443
                                Number of longitudinal springs:  443
                                Number of torsional    springs:    0
        No. of longitudinal springs with activated      gap:       -
        No. of longitudinal springs                  cracked:     260
        No. of longitudinal springs                yielding:       -
         " in the nonlinear part of the stress strain curve:       -
        " in the nonlinear part of the spring worklaw curve:       -
        No. of transvers springs with activated    friction:       -
        No. of transvers springs with activated    cohasion:       -
        " in the nonlinear part of the spring worklaw curve:       -

Statistic nonlinear QUAD bedding:   no. of checked elements:     375
                Number of elements failed under tension   :       0
                Number of elements with activated yielding:       0
                Number of elements nonlinear in   friction:       0
                Number of elements nonlinear incl.cohasion:       0
```


ΤΑΦΡΟΣ Τ1 (3.00x2.80x1.50)m
ΕΠΙΛΥΣΗ ΣΕΙΣΜΙΚΩΝ ΦΟΡΤΙΩΝ (Q=1.50)

Analysis parameters
Calculation with nonlinear material properties

Nonlinear material properties are used for:
Springelements[CRAC,YIEL,MUE,GAP], pilebedding, QUAD-bedding
Only linear material properties are used for:
QUAD- and BRIQ-elements
Truss-, cable-, Beam-, pile- und boundaryelements
Beamelements

Sum of Loads

LC	Title	PXX[kN]	PYY[kN]	PZZ[kN]
2028	ΣΕΙΣΜΟΣ -0.3EX+0.3EY-1.0	75.1	121.0	186.8

Iteration sequence

```
Iteration  1 Residual        1.452  energy 723.1505  Step  1-1 f=  1.000

Update nonlinear stiffness
Iteration  2 Residual        7.787  energy 983.4037  Step  2-1 f=  1.051
Iteration  3 Residual        7.787  energy 819.2447  Step  2-2 f=  0.369
Iteration  4 Residual        1.268  energy 867.7166  Step  3-1 f=  0.447
Iteration  5 Residual        0.602  energy 857.0258  Step  3-2 f=  0.779
Update nonlinear stiffness
Iteration  6 Residual        0.110  energy 906.1754  Step  4-1 f=  0.668
Iteration  7 Residual        0.010  energy 916.2610  Step  5-1 f=  0.819
Iteration  8 Residual        0.000  energy 917.3030  Step  6-1 f=  0.907
Iteration  9 Residual        0.000  energy 917.3576  Step  7-1 f=  0.955
Iteration 10 Residual        0.000  energy 917.3591  Step  8-1 f=  0.980
```

Statistic nonlinear effects:

```
Statistic nonlinear effects of spring elements: no of elem.:     443
                                Number of longitudinal springs:  443
                                Number of torsional    springs:    0
        No. of longitudinal springs with activated      gap:       -
        No. of longitudinal springs                  cracked:     260
        No. of longitudinal springs                yielding:       -
         " in the nonlinear part of the stress strain curve:       -
        " in the nonlinear part of the spring worklaw curve:       -
        No. of transvers springs with activated    friction:       -
        No. of transvers springs with activated    cohasion:       -
        " in the nonlinear part of the spring worklaw curve:       -

Statistic nonlinear QUAD bedding:   no. of checked elements:     375
                Number of elements failed under tension   :       0
                Number of elements with activated yielding:       0
                Number of elements nonlinear in   friction:       0
                Number of elements nonlinear incl.cohasion:       0
```

ΤΑΦΡΟΣ T1 (3.00x2.80x1.50)m
ΔΙΑΣΤΑΣΙΟΛΟΓΗΣΗ ULS-SEISMIKA QH=1.50/QV=1.00

Design according to EN 1992-1-1:2004(EC2)
Loadcases have been calculated in the Ultimate Limit State
In BEMESS no additional load safety factor is applied.

Load Cases for the Design

Loadcase 2001 ΣΕΙΣΜΟΣ +1.0EX+0.3EY+0.3 + Bedding stresses for punching design
Loadcase 2002 ΣΕΙΣΜΟΣ +1.0EX-0.3EY+0.3 + Bedding stresses for punching design
Loadcase 2003 ΣΕΙΣΜΟΣ +1.0EX-0.3EY-0.3 + Bedding stresses for punching design
Loadcase 2004 ΣΕΙΣΜΟΣ +1.0EX+0.3EY-0.3 + Bedding stresses for punching design
Loadcase 2005 ΣΕΙΣΜΟΣ -1.0EX+0.3EY+0.3 + Bedding stresses for punching design
Loadcase 2006 ΣΕΙΣΜΟΣ -1.0EX-0.3EY+0.3 + Bedding stresses for punching design
Loadcase 2007 ΣΕΙΣΜΟΣ -1.0EX-0.3EY-0.3 + Bedding stresses for punching design
Loadcase 2008 ΣΕΙΣΜΟΣ -1.0EX+0.3EY-0.3 + Bedding stresses for punching design
Loadcase 2011 ΣΕΙΣΜΟΣ +0.3EX+1.0EY+0.3 + Bedding stresses for punching design
Loadcase 2012 ΣΕΙΣΜΟΣ +0.3EX-1.0EY+0.3 + Bedding stresses for punching design
Loadcase 2013 ΣΕΙΣΜΟΣ +0.3EX-1.0EY-0.3 + Bedding stresses for punching design
Loadcase 2014 ΣΕΙΣΜΟΣ +0.3EX+1.0EY-0.3 + Bedding stresses for punching design
Loadcase 2015 ΣΕΙΣΜΟΣ -0.3EX+1.0EY+0.3 + Bedding stresses for punching design
Loadcase 2016 ΣΕΙΣΜΟΣ -0.3EX-1.0EY+0.3 + Bedding stresses for punching design
Loadcase 2017 ΣΕΙΣΜΟΣ -0.3EX-1.0EY-0.3 + Bedding stresses for punching design
Loadcase 2018 ΣΕΙΣΜΟΣ -0.3EX+1.0EY-0.3 + Bedding stresses for punching design
Loadcase 2021 ΣΕΙΣΜΟΣ +0.3EX+0.3EY+1.0 + Bedding stresses for punching design
Loadcase 2022 ΣΕΙΣΜΟΣ +0.3EX-0.3EY+1.0 + Bedding stresses for punching design
Loadcase 2023 ΣΕΙΣΜΟΣ +0.3EX-0.3EY-1.0 + Bedding stresses for punching design
Loadcase 2024 ΣΕΙΣΜΟΣ +0.3EX+0.3EY-1.0 + Bedding stresses for punching design
Loadcase 2025 ΣΕΙΣΜΟΣ -0.3EX+0.3EY+1.0 + Bedding stresses for punching design
Loadcase 2026 ΣΕΙΣΜΟΣ -0.3EX-0.3EY+1.0 + Bedding stresses for punching design
Loadcase 2027 ΣΕΙΣΜΟΣ -0.3EX-0.3EY-1.0 + Bedding stresses for punching design
Loadcase 2028 ΣΕΙΣΜΟΣ -0.3EX+0.3EY-1.0 + Bedding stresses for punching design

Material (EN 1992-1-1:2004(EC2))

Mat	f-ck [MPa]	f-cr [MPa]	f-yk [MPa]	f-tk [MPa]	f-ctm [MPa]	N [-]	minQ [-]	type
1	25.0	21.2			2.565	6.4	0.20	mainly static
2	25.0	21.2			2.565	6.4	0.20	mainly static
10			500.0	545.0				
11	25.0	21.2			2.565	6.4	0.20	mainly static
22	25.0	21.2			2.565	6.4	0.20	mainly static

Minimum reinforcement: 0.00 p.c. of stat. req. section

Reduction of FC in case of transvers tension = 20.0 [o/o]

Material-safety-factors:

Mat	concr SC1	SC2	steel SS1	SS2
1	1.50	1.50		
2	1.50	1.50		
10			1.15	1.15
11	1.50	1.50		
22	1.50	1.50		

At direct supports from the face of the support up to 1.0*d the shear force is reduced.
The maximum shear capacity is checked at the face of the support without reduction.

The punching design has been switched off and must be done separately.
Outside the punching area, the normal slab shear design may increase the,
longitudinal reinforcement up to 0.20% [input CTRL...RO_V].

Geometry (axial covers)

No	he-upper [mm]	hi-upper [mm]	he-lower [mm]	hi-lower [mm]	Elem. height [mm]	
1	60	72	80	92	As saved	
2	50	62	50	62	As saved	

Selection of elements

	from	to	inc	group	GEOMETRY
Element	1001	1999	1	-	1
Element	2001	2999	1	-	2
Element	3001	3999	1	-	2
Element	4001	4999	1	-	2

Reinforcement is saved in the data base file
Number of stored reinforcement-distribution: 3

ΤΑΦΡΟΣ T1 (3.00x2.80x1.50)m
ΔΙΑΣΤΑΣΙΟΛΟΓΗΣΗ ULS-SEISMIKA QH=1.50/QV=1.00

REINFORCEMENT ACC. TO EN 1992-1-1:2004(EC2) in [cm2/m] upper/lower
General load safety factor - as defined in BEMESS: Gamma-f = 1.00
Shear: stresses VEd/d and VRd,ct/d with d=effective depth = h-hm
Shear index 2m = minimum shear reinforcement

Grp	ELEM No	LC No	MAT No	GEO No	h [m]	Reinforcement main	Reinforcement cross	dphi dir	dphi deg	Shr zon	VEd/d [MPa]	Ass [cm2/m2]
			MBW								VRd,ct/d	
1	1001	maximum		0.35				0		1	0.117	
						9.01	1.80	0			0.465	
1	1002	maximum		0.35				0		1	0.146	
						8.53	1.71	0			0.484	
1	1003	maximum		0.35				0		1	0.148	
						8.41	1.71	0			0.489	
1	1004	maximum		0.35				0		1	0.143	
						8.49	1.75	0			0.489	
1	1005	maximum		0.35				0		1	0.139	
						8.55	1.78	0			0.489	
1	1006	maximum		0.35				0		1	0.136	
						8.55	1.80	0			0.488	
1	1007	maximum		0.35				0		1	0.134	
						8.55	1.80	0			0.488	
1	1008	maximum		0.35				0		1	0.133	
						8.55	1.79	0			0.488	
1	1009	maximum		0.35				0		1	0.132	
						8.55	1.78	0			0.487	
1	1010	maximum		0.35				0		1	0.132	
						8.55	1.77	0			0.487	
1	1011	maximum		0.35				0		1	0.131	
						8.55	1.76	0			0.487	
1	1012	maximum		0.35				0		1	0.131	
						8.54	1.75	0			0.487	
1	1013	maximum		0.35				0		1	0.130	
						8.54	1.74	0			0.487	
1	1014	maximum		0.35				0		1	0.131	
						8.54	1.73	0			0.487	
1	1015	maximum		0.35				0		1	0.131	
						8.54	1.73	0			0.487	
1	1016	maximum		0.35				0		1	0.132	
						8.54	1.73	0			0.487	
1	1017	maximum		0.35				0		1	0.132	
						8.55	1.75	0			0.487	
1	1018	maximum		0.35				0		1	0.133	
						8.56	1.76	0			0.488	
1	1019	maximum		0.35				0		1	0.134	
						8.58	1.78	0			0.488	
1	1020	maximum		0.35				0		1	0.136	
						8.59	1.78	0			0.489	
1	1021	maximum		0.35				0		1	0.138	
						8.58	1.78	0			0.490	
1	1022	maximum		0.35				0		1	0.142	
						8.53	1.74	0			0.490	
1	1023	maximum		0.35				0		1	0.148	
						8.44	1.70	0			0.489	
1	1024	maximum		0.35				0		1	0.146	
						8.56	1.71	0			0.484	
1	1025	maximum		0.35				0		1	0.117	
						9.04	1.81	0			0.466	
1	1026	maximum		0.35				0		1	0.095	
						8.38	1.68	0			0.470	
1	1027	maximum		0.35				0		1	0.105	
						7.98	1.60	0			0.482	
1	1028	maximum		0.35				0		1	0.111	
						7.64	1.62	0			0.488	
1	1029	maximum		0.35				0		1	0.111	
						7.58	1.65	0			0.488	
1	1030	maximum		0.35				0		1	0.108	
						7.61	1.67	0			0.487	
1	1031	maximum		0.35				0		1	0.106	
						7.65	1.68	0			0.486	
1	1032	maximum		0.35				0		1	0.105	
						7.68	1.68	0			0.486	
1	1033	maximum		0.35				0		1	0.104	
						7.69	1.67	0			0.485	
1	1034	maximum		0.35				0		1	0.103	
						7.70	1.66	0			0.485	
1	1035	maximum		0.35				0		1	0.103	
						7.69	1.65	0			0.485	
1	1036	maximum		0.35				0		1	0.102	
						7.69	1.64	0			0.485	
1	1037	maximum		0.35				0		1	0.102	
						7.68	1.63	0			0.484	

ΤΑΦΡΟΣ T1 (3.00x2.80x1.50)m
ΔΙΑΣΤΑΣΙΟΛΟΓΗΣΗ ULS-SEISMIKA QH=1.50/QV=1.00

REINFORCEMENT ACC. TO EN 1992-1-1:2004(EC2) in [cm2/m] upper/lower
General load safety factor - as defined in BEMESS: Gamma-f = 1.00
Shear: stresses VEd/d and VRd,ct/d with d=effective depth = h-hm
Shear index 2m = minimum shear reinforcement

Grp	ELEM No	LC No	MAT No	GEO No	h [m]	Reinforcement main	Reinforcement cross	dphi dir	dphi deg	Shr zon	VEd/d [MPa] VRd,ct/d	Ass [cm2/m2]
		MBW										
1	1038	maximum		0.35			0		1	0.102		
						7.67	1.62	0			0.484	
1	1039	maximum		0.35			0		1	0.102		
						7.67	1.61	0			0.484	
1	1040	maximum		0.35			0		1	0.102		
						7.66	1.60	0			0.484	
1	1041	maximum		0.35			0		1	0.103		
						7.67	1.61	0			0.485	
1	1042	maximum		0.35			0		1	0.103		
						7.69	1.63	0			0.485	
1	1043	maximum		0.35			0		1	0.104		
						7.69	1.64	0			0.485	
1	1044	maximum		0.35			0		1	0.105		
						7.69	1.65	0			0.485	
1	1045	maximum		0.35			0		1	0.106		
						7.67	1.66	0			0.486	
1	1046	maximum		0.35			0		1	0.107		
						7.64	1.66	0			0.487	
1	1047	maximum		0.35			0		1	0.110		
						7.62	1.64	0			0.488	
1	1048	maximum		0.35			0		1	0.111		
						7.68	1.62	0			0.488	
1	1049	maximum		0.35			0		1	0.104		
						8.02	1.60	0			0.483	
1	1050	maximum		0.35			0		1	0.095		
						8.42	1.68	0			0.470	
1	1051	maximum		0.35			0.01	0		1	0.075	
						7.47	1.49	0			0.477	
1	1052	maximum		0.35			0		1	0.079		
						7.25	1.45	0			0.483	
1	1053	maximum		0.35			0		1	0.084		
						6.96	1.41	0			0.487	
1	1054	maximum		0.35			0		1	0.086		
						6.84	1.53	0			0.489	
1	1055	maximum		0.35			0		1	0.086		
						6.83	1.58	0			0.488	
1	1056	maximum		0.35			0		1	0.085		
						6.86	1.58	0			0.487	
1	1057	maximum		0.35			0		1	0.084		
						6.88	1.58	0			0.486	
1	1058	maximum		0.35			0		1	0.083		
						6.89	1.57	0			0.486	
1	1059	maximum		0.35			0		1	0.083		
						6.90	1.55	0			0.485	
1	1060	maximum		0.35			0		1	0.082		
						6.89	1.54	0			0.485	
1	1061	maximum		0.35			0		1	0.082		
						6.88	1.53	0			0.485	
1	1062	maximum		0.35			0		1	0.082		
						6.88	1.51	0			0.485	
1	1063	maximum		0.35			0		1	0.082		
						6.87	1.50	0			0.485	
1	1064	maximum		0.35			0		1	0.082		
						6.86	1.49	0			0.485	
1	1065	maximum		0.35			0		1	0.082		
						6.86	1.49	0			0.485	
1	1066	maximum		0.35			0		1	0.083		
						6.87	1.50	0			0.485	
1	1067	maximum		0.35			0		1	0.083		
						6.88	1.51	0			0.485	
1	1068	maximum		0.35			0		1	0.083		
						6.89	1.53	0			0.485	
1	1069	maximum		0.35			0		1	0.084		
						6.89	1.55	0			0.486	
1	1070	maximum		0.35			0		1	0.084		
						6.88	1.56	0			0.487	
1	1071	maximum		0.35			0		1	0.085		
						6.87	1.56	0			0.488	
1	1072	maximum		0.35			0		1	0.085		
						6.89	1.53	0			0.489	
1	1073	maximum		0.35			0		1	0.083		
						7.01	1.41	0			0.488	
1	1074	maximum		0.35			0		1	0.078		
						7.29	1.46	0			0.484	

ΤΑΦΡΟΣ T1 (3.00x2.80x1.50)m
ΔΙΑΣΤΑΣΙΟΛΟΓΗΣΗ ULS-SEISMIKA QH=1.50/QV=1.00

REINFORCEMENT ACC. TO EN 1992-1-1:2004(EC2) in [cm2/m] upper/lower
General load safety factor - as defined in BEMESS: Gamma-f = 1.00
Shear: stresses VEd/d and VRd,ct/d with d=effective depth = h-hm
Shear index 2m = minimum shear reinforcement

Grp	ELEM No	LC No	MAT No	GEO No	h [m]	Reinforcement main	Reinforcement cross	dphi dir	dphi deg	Shr zon	VEd/d [MPa] VRd,ct/d	Ass [cm2/m2]
		MBW										
1	1075	maximum		0.35			0.01	0		1	0.075	
						7.51	1.50	0			0.478	
1	1076	maximum		0.35		0.01	0.03	0		1	0.066	
						6.63	1.33	0			0.481	
1	1077	maximum		0.35		0.01	0.03	0		1	0.055	
						6.48	1.30	0			0.483	
1	1078	maximum		0.35			0.01	0		1	0.058	
						6.31	1.26	0			0.487	
1	1079	maximum		0.35				0		1	0.060	
						6.22	1.41	0			0.488	
1	1080	maximum		0.35				0		1	0.061	
						6.20	1.49	0			0.488	
1	1081	maximum		0.35				0		1	0.061	
						6.21	1.50	0			0.488	
1	1082	maximum		0.35				0		1	0.062	
						6.22	1.49	0			0.487	
1	1083	maximum		0.35				0		1	0.062	
						6.22	1.48	0			0.486	
1	1084	maximum		0.35				0		1	0.062	
						6.21	1.46	0			0.486	
1	1085	maximum		0.35				0		1	0.062	
						6.21	1.45	0			0.485	
1	1086	maximum		0.35				0		1	0.062	
						6.20	1.43	0			0.485	
1	1087	maximum		0.35				0		1	0.062	
						6.19	1.42	0			0.485	
1	1088	maximum		0.35				0		1	0.062	
						6.18	1.42	0			0.485	
1	1089	maximum		0.35				0		1	0.062	
						6.17	1.41	0			0.485	
1	1090	maximum		0.35				0		1	0.062	
						6.16	1.40	0			0.485	
1	1091	maximum		0.35				0		1	0.062	
						6.18	1.40	0			0.485	
1	1092	maximum		0.35				0		1	0.062	
						6.20	1.42	0			0.485	
1	1093	maximum		0.35				0		1	0.062	
						6.21	1.44	0			0.486	
1	1094	maximum		0.35				0		1	0.062	
						6.22	1.46	0			0.486	
1	1095	maximum		0.35				0		1	0.061	
						6.23	1.47	0			0.487	
1	1096	maximum		0.35				0		1	0.060	
						6.24	1.47	0			0.488	
1	1097	maximum		0.35				0		1	0.059	
						6.28	1.40	0			0.489	
1	1098	maximum		0.35			0.01	0		1	0.057	
						6.37	1.27	0			0.487	
1	1099	maximum		0.35		0.01	0.03	0		1	0.054	
						6.54	1.31	0			0.484	
1	1100	maximum		0.35		0.01	0.03	0		1	0.066	
						6.68	1.34	0			0.482	
1	1101	maximum		0.35			0.02	0		1	0.063	
						6.17	1.23	0			0.483	
1	1102	maximum		0.35		0.01	0.03	0		1	0.036	
						5.87	1.17	0			0.477	
1	1103	maximum		0.35			0.02	0		1	0.035	
						5.76	1.15	0			0.483	
1	1104	maximum		0.35				0		1	0.034	
						5.75	1.31	0			0.488	
1	1105	maximum		0.35				0		1	0.036	
						5.74	1.41	0			0.488	
1	1106	maximum		0.35				0		1	0.039	
						5.73	1.43	0			0.488	
1	1107	maximum		0.35				0		1	0.040	
						5.72	1.43	0			0.487	
1	1108	maximum		0.35				0		1	0.042	
						5.70	1.41	0			0.486	
1	1109	maximum		0.35				0		1	0.042	
						5.69	1.40	0			0.486	
1	1110	maximum		0.35				0		1	0.042	
						5.67	1.39	0			0.486	
1	1111	maximum		0.35				0		1	0.042	
						5.66	1.38	0			0.485	

ΤΑΦΡΟΣ Τ1 (3.00x2.80x1.50)m
ΔΙΑΣΤΑΣΙΟΛΟΓΗΣΗ ULS-SEISMIKA QH=1.50/QV=1.00

REINFORCEMENT ACC. TO EN 1992-1-1:2004(EC2) in [cm2/m] upper/lower
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Shear index 2m = minimum shear reinforcement

Grp	ELEM No	LC No	MAT No	GEO No	h [m]	Reinforcement main	Reinforcement cross	dphi dir	dphi deg	Shr zon	VEd/d [MPa]	Ass [cm2/m2]
		MBW									VRd,ct/d	
1	1112	maximum			0.35			0		1	0.043	
						5.65	1.37	0			0.485	
1	1113	maximum			0.35			0		1	0.043	
						5.64	1.36	0			0.485	
1	1114	maximum			0.35			0		1	0.043	
						5.63	1.35	0			0.485	
1	1115	maximum			0.35			0		1	0.043	
						5.63	1.34	0			0.485	
1	1116	maximum			0.35			0		1	0.043	
						5.64	1.34	0			0.485	
1	1117	maximum			0.35			0		1	0.043	
						5.67	1.35	0			0.485	
1	1118	maximum			0.35			0		1	0.042	
						5.69	1.37	0			0.486	
1	1119	maximum			0.35			0		1	0.041	
						5.72	1.39	0			0.486	
1	1120	maximum			0.35			0		1	0.039	
						5.74	1.40	0			0.487	
1	1121	maximum			0.35			0		1	0.036	
						5.77	1.38	0			0.488	
1	1122	maximum			0.35			0		1	0.033	
						5.80	1.29	0			0.488	
1	1123	maximum			0.35		0.02	0		1	0.032	
						5.83	1.17	0			0.484	
1	1124	maximum			0.35	0.01	0.03	0		1	0.033	
						5.97	1.19	0			0.477	
1	1125	maximum			0.35		0.02	0		1	0.063	
						6.27	1.25	0			0.485	
1	1126	maximum			0.35			0		1	0.065	
						5.96	1.19	0			0.483	
1	1127	maximum			0.35			0		1	0.031	
						5.63	1.13	0			0.469	
1	1128	maximum			0.35			0		1	0.032	
						5.40	1.08	0			0.470	
1	1129	maximum			0.35			0		1	0.033	
						5.46	1.26	0			0.482	
1	1130	maximum			0.35			0		1	0.032	
						5.46	1.36	0			0.488	
1	1131	maximum			0.35			0		1	0.032	
						5.43	1.38	0			0.488	
1	1132	maximum			0.35			0		1	0.031	
						5.40	1.38	0			0.487	
1	1133	maximum			0.35			0		1	0.031	
						5.37	1.37	0			0.487	
1	1134	maximum			0.35			0		1	0.031	
						5.34	1.37	0			0.486	
1	1135	maximum			0.35			0		1	0.031	
						5.33	1.36	0			0.486	
1	1136	maximum			0.35			0		1	0.031	
						5.31	1.36	0			0.486	
1	1137	maximum			0.35			0		1	0.031	
						5.30	1.35	0			0.486	
1	1138	maximum			0.35			0		1	0.030	
						5.30	1.35	0			0.485	
1	1139	maximum			0.35			0		1	0.031	
						5.29	1.35	0			0.485	
1	1140	maximum			0.35			0		1	0.031	
						5.29	1.34	0			0.485	
1	1141	maximum			0.35			0		1	0.031	
						5.29	1.33	0			0.485	
1	1142	maximum			0.35			0		1	0.031	
						5.31	1.32	0			0.485	
1	1143	maximum			0.35			0		1	0.031	
						5.34	1.33	0			0.485	
1	1144	maximum			0.35			0		1	0.031	
						5.38	1.34	0			0.486	
1	1145	maximum			0.35			0		1	0.032	
						5.43	1.34	0			0.486	
1	1146	maximum			0.35			0		1	0.032	
						5.48	1.32	0			0.488	
1	1147	maximum			0.35			0		1	0.033	
						5.51	1.23	0			0.488	
1	1148	maximum			0.35			0		1	0.032	
						5.49	1.10	0			0.471	

ΤΑΦΡΟΣ Τ1 (3.00x2.80x1.50)m
ΔΙΑΣΤΑΣΙΟΛΟΓΗΣΗ ULS-SEISMIKA QH=1.50/QV=1.00

REINFORCEMENT ACC. TO EN 1992-1-1:2004(EC2) in [cm2/m] upper/lower
General load safety factor - as defined in BEMESS: Gamma-f = 1.00
Shear: stresses VEd/d and VRd,ct/d with d=effective depth = h-hm
Shear index 2m = minimum shear reinforcement

Grp	ELEM No	LC No	MAT No	GEO No	h [m]	Reinforcement main	Reinforcement cross	dphi dir	dphi deg	Shr zon	VEd/d [MPa]	Ass [cm2/m2]
		MBW									VRd,ct/d	
1	1149	maximum			0.35			0		1	0.031	
						5.78	1.16	0			0.470	
1	1150	maximum			0.35			0		1	0.064	
						6.09	1.22	0			0.485	
1	1151	maximum			0.35			0		1	0.086	
						5.78	1.16	0			0.479	
1	1152	maximum			0.35			0		1	0.062	
						5.55	1.11	0			0.475	
1	1153	maximum			0.35			0		1	0.061	
						5.38	1.12	0			0.486	
1	1154	maximum			0.35			0		1	0.060	
						5.41	1.24	0			0.487	
1	1155	maximum			0.35			0		1	0.059	
						5.38	1.33	0			0.487	
1	1156	maximum			0.35			0		1	0.059	
						5.32	1.36	0			0.487	
1	1157	maximum			0.35			0		1	0.058	
						5.27	1.37	0			0.486	
1	1158	maximum			0.35			0		1	0.058	
						5.23	1.38	0			0.486	
1	1159	maximum			0.35			0		1	0.058	
						5.21	1.38	0			0.486	
1	1160	maximum			0.35			0		1	0.057	
						5.19	1.38	0			0.487	
1	1161	maximum			0.35			0		1	0.057	
						5.18	1.39	0			0.487	
1	1162	maximum			0.35			0		1	0.057	
						5.17	1.39	0			0.487	
1	1163	maximum			0.35			0		1	0.056	
						5.17	1.39	0			0.487	
1	1164	maximum			0.35			0		1	0.057	
						5.17	1.39	0			0.486	
1	1165	maximum			0.35			0		1	0.057	
						5.18	1.38	0			0.486	
1	1166	maximum			0.35			0		1	0.057	
						5.19	1.38	0			0.487	
1	1167	maximum			0.35			0		1	0.058	
						5.20	1.37	0			0.487	
1	1168	maximum			0.35			0		1	0.058	
						5.22	1.35	0			0.485	
1	1169	maximum			0.35			0		1	0.058	
						5.25	1.33	0			0.486	
1	1170	maximum			0.35			0		1	0.059	
						5.30	1.31	0			0.486	
1	1171	maximum			0.35			0		1	0.059	
						5.38	1.28	0			0.486	
1	1172	maximum			0.35			0		1	0.060	
						5.46	1.25	0			0.487	
1	1173	maximum			0.35			0		1	0.061	
						5.58	1.21	0			0.487	
1	1174	maximum			0.35			0		1	0.063	
						5.78	1.16	0			0.478	
1	1175	maximum			0.35			0		1	0.084	
						5.98	1.20	0			0.481	
2	2001	maximum			0.35			0		1	0.211	
						1.36	6.81	0			0.445	
2	2002	maximum			0.35	0.02		0		1	0.181	
						0.86	4.29	0			0.443	
2	2003	maximum			0.35	0.04	0.01	0		1	0.140	
						0.48	2.38	0			0.441	
2	2004	maximum			0.35	0.07	0.01	0		1	0.096	
						0.24	1.18	0			0.438	
2	2005	maximum			0.35	0.07	0.04	0		1	0.054	
						0.10	0.51	0			0.436	
2	2006	maximum			0.35	0.06	0.02	0		1	0.025	
						0.07	0.12	0			0.434	
2	2007	maximum			0.35			0		1	0.258	
						1.23	6.14	0			0.452	
2	2008	maximum			0.35	0.01		0		1	0.182	
						0.81	4.05	0			0.446	
2	2009	maximum			0.35	0.07	0.01	0		1	0.127	
						0.48	2.39	0			0.442	
2	2010	maximum			0.35	0.11	0.03	0		1	0.082	
						0.24	1.18	0			0.439	

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ΤΑΦΡΟΣ Τ1 (3.00x2.80x1.50)m
ΔΙΑΣΤΑΣΙΟΛΟΓΗΣΗ ULS-SEISMIKA QH=1.50/QV=1.00

REINFORCEMENT ACC. TO EN 1992-1-1:2004(EC2) in [cm2/m] upper/lower
General load safety factor - as defined in BEMESS: Gamma-f = 1.00
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Shear index 2m = minimum shear reinforcement

Grp	ELEM No	LC No	MAT No	GEO No	h [m]	Reinforcement main	Reinforcement cross	dphi dir	dphi deg	Shr zon	VEd/d [MPa]	Ass [cm2/m2]
		MBW									VRd,ct/d	
2	2011	maximum		0.35		0.14	0.06	0		1	0.044	
						0.12	0.51	0			0.436	
2	2012	maximum		0.35		0.15	0.03	0		1	0.018	
						0.10	0.12	0			0.434	
2	2013	maximum		0.35				0		1	0.272	
						1.23	6.17	0			0.452	
2	2014	maximum		0.35				0		1	0.195	
						0.81	3.80	0			0.448	
2	2015	maximum		0.35		0.07	0.01	0		1	0.135	
						0.51	2.27	0			0.444	
2	2016	maximum		0.35		0.13	0.03	0		1	0.087	
						0.26	1.16	0			0.440	
2	2017	maximum		0.35		0.15	0.06	0		1	0.047	
						0.17	0.53	0			0.436	
2	2018	maximum		0.35		0.20	0.04	0		1	0.019	
						0.15	0.12	0			0.434	
2	2019	maximum		0.35				0		1	0.268	
						1.27	6.35	0			0.451	
2	2020	maximum		0.35				0		1	0.199	
						0.76	3.75	0			0.448	
2	2021	maximum		0.35		0.06	0.01	0		1	0.139	
						0.52	2.18	0			0.444	
2	2022	maximum		0.35		0.13	0.03	0		1	0.089	
						0.31	1.10	0			0.440	
2	2023	maximum		0.35		0.13	0.07	0		1	0.048	
						0.22	0.51	0			0.436	
2	2024	maximum		0.35		0.23	0.05	0		1	0.018	
						0.22	0.14	0			0.434	
2	2025	maximum		0.35				0		1	0.262	
						1.28	6.40	0			0.450	
2	2026	maximum		0.35				0		1	0.198	
						0.77	3.82	0			0.447	
2	2027	maximum		0.35		0.06	0.01	0		1	0.140	
						0.50	2.17	0			0.443	
2	2028	maximum		0.35		0.14	0.03	0		1	0.091	
						0.32	1.07	0			0.440	
2	2029	maximum		0.35		0.12	0.08	0		1	0.049	
						0.25	0.48	0			0.436	
2	2030	maximum		0.35		0.24	0.06	0		1	0.018	
						0.27	0.13	0			0.434	
2	2031	maximum		0.35				0		1	0.258	
						1.28	6.41	0			0.449	
2	2032	maximum		0.35				0		1	0.196	
						0.77	3.87	0			0.446	
2	2033	maximum		0.35		0.06	0.01	0		1	0.140	
						0.48	2.18	0			0.443	
2	2034	maximum		0.35		0.15	0.04	0		1	0.091	
						0.31	1.06	0			0.440	
2	2035	maximum		0.35		0.14	0.09	0		1	0.050	
						0.26	0.46	0			0.436	
2	2036	maximum		0.35		0.22	0.07	0		1	0.018	
						0.30	0.12	0			0.434	
2	2037	maximum		0.35				0		1	0.256	
						1.28	6.40	0			0.449	
2	2038	maximum		0.35				0		1	0.195	
						0.78	3.89	0			0.446	
2	2039	maximum		0.35		0.07	0.01	0		1	0.140	
						0.48	2.20	0			0.443	
2	2040	maximum		0.35		0.16	0.05	0		1	0.091	
						0.31	1.06	0			0.439	
2	2041	maximum		0.35		0.15	0.10	0		1	0.050	
						0.26	0.45	0			0.436	
2	2042	maximum		0.35		0.21	0.08	0		1	0.018	
						0.32	0.13	0			0.434	
2	2043	maximum		0.35				0		1	0.255	
						1.28	6.39	0			0.449	
2	2044	maximum		0.35				0		1	0.194	
						0.78	3.89	0			0.446	
2	2045	maximum		0.35		0.08	0.02	0		1	0.139	
						0.48	2.22	0			0.443	
2	2046	maximum		0.35		0.17	0.05	0		1	0.091	
						0.31	1.07	0			0.439	
2	2047	maximum		0.35		0.17	0.11	0		1	0.049	
						0.26	0.47	0			0.436	

ΤΑΦΡΟΣ Τ1 (3.00x2.80x1.50)m
ΔΙΑΣΤΑΣΙΟΛΟΓΗΣΗ ULS-SEISMIKA QH=1.50/QV=1.00

REINFORCEMENT ACC. TO EN 1992-1-1:2004(EC2) in [cm2/m] upper/lower
General load safety factor - as defined in BEMESS: Gamma-f = 1.00
Shear: stresses VEd/d and VRd,ct/d with d=effective depth = h-hm
Shear index 2m = minimum shear reinforcement

Grp	ELEM No	LC No	MAT No	GEO No	h [m]	Reinforcement main	Reinforcement cross	dphi dir	dphi deg	Shr zon	VEd/d [MPa]	Ass [cm2/m2]
		MBW									VRd,ct/d	
2	2048	maximum		0.35		0.21	0.08	0		1	0.018	
						0.32	0.14	0			0.434	
2	2049	maximum		0.35				0		1	0.254	
						1.27	6.37	0			0.449	
2	2050	maximum		0.35				0		1	0.193	
						0.78	3.89	0			0.446	
2	2051	maximum		0.35		0.08	0.02	0		1	0.138	
						0.48	2.22	0			0.442	
2	2052	maximum		0.35		0.18	0.05	0		1	0.091	
						0.31	1.08	0			0.439	
2	2053	maximum		0.35		0.18	0.12	0		1	0.049	
						0.26	0.48	0			0.436	
2	2054	maximum		0.35		0.21	0.09	0		1	0.018	
						0.30	0.14	0			0.434	
2	2055	maximum		0.35				0		1	0.254	
						1.27	6.36	0			0.449	
2	2056	maximum		0.35				0		1	0.192	
						0.78	3.88	0			0.446	
2	2057	maximum		0.35		0.08	0.02	0		1	0.138	
						0.47	2.22	0			0.442	
2	2058	maximum		0.35		0.18	0.05	0		1	0.090	
						0.31	1.08	0			0.439	
2	2059	maximum		0.35		0.19	0.12	0		1	0.049	
						0.26	0.48	0			0.436	
2	2060	maximum		0.35		0.21	0.10	0		1	0.018	
						0.27	0.15	0			0.434	
2	2061	maximum		0.35				0		1	0.253	
						1.27	6.35	0			0.449	
2	2062	maximum		0.35				0		1	0.192	
						0.78	3.88	0			0.446	
2	2063	maximum		0.35		0.08	0.02	0		1	0.138	
						0.47	2.22	0			0.442	
2	2064	maximum		0.35		0.19	0.05	0		1	0.090	
						0.31	1.09	0			0.439	
2	2065	maximum		0.35		0.18	0.12	0		1	0.049	
						0.26	0.48	0			0.436	
2	2066	maximum		0.35		0.21	0.11	0		1	0.018	
						0.27	0.15	0			0.434	
2	2067	maximum		0.35				0		1	0.253	
						1.27	6.35	0			0.449	
2	2068	maximum		0.35				0		1	0.192	
						0.77	3.87	0			0.445	
2	2069	maximum		0.35		0.08	0.02	0		1	0.138	
						0.47	2.22	0			0.442	
2	2070	maximum		0.35		0.19	0.05	0		1	0.090	
						0.31	1.09	0			0.439	
2	2071	maximum		0.35		0.18	0.12	0		1	0.049	
						0.27	0.48	0			0.436	
2	2072	maximum		0.35		0.21	0.11	0		1	0.018	
						0.27	0.14	0			0.434	
2	2073	maximum		0.35				0		1	0.253	
						1.27	6.34	0			0.449	
2	2074	maximum		0.35				0		1	0.192	
						0.77	3.87	0			0.445	
2	2075	maximum		0.35		0.07	0.01	0		1	0.138	
						0.47	2.22	0			0.442	
2	2076	maximum		0.35		0.19	0.04	0		1	0.090	
						0.31	1.09	0			0.439	
2	2077	maximum		0.35		0.18	0.12	0		1	0.049	
						0.27	0.48	0			0.436	
2	2078	maximum		0.35		0.21	0.10	0		1	0.018	
						0.28	0.14	0			0.434	
2	2079	maximum		0.35				0		1	0.253	
						1.27	6.34	0			0.449	
2	2080	maximum		0.35				0		1	0.192	
						0.77	3.87	0			0.446	
2	2081	maximum		0.35		0.08	0.02	0		1	0.138	
						0.47	2.22	0			0.442	
2	2082	maximum		0.35		0.19	0.05	0		1	0.090	
						0.32	1.09	0			0.439	
2	2083	maximum		0.35		0.18	0.12	0		1	0.049	
						0.27	0.48	0			0.436	
2	2084	maximum		0.35		0.21	0.11	0		1	0.018	
						0.29	0.14	0			0.434	

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ΤΑΦΡΟΣ Τ1 (3.00x2.80x1.50)m
ΔΙΑΣΤΑΣΙΟΛΟΓΗΣΗ ULS-SEISMIKA QH=1.50/QV=1.00

REINFORCEMENT ACC. TO EN 1992-1-1:2004(EC2) in [cm2/m] upper/lower
General load safety factor - as defined in BEMESS: Gamma-f = 1.00
Shear: stresses VEd/d and VRd,ct/d with d=effective depth = h-hm
Shear index 2m = minimum shear reinforcement

Grp	ELEM No	LC No	MAT No	GEO No	h [m]	Reinforcement main	Reinforcement cross	dphi dir	dphi deg	Shr zon	VEd/d [MPa]	Ass [cm2/m2]
		MBW									VRd,ct/d	
2	2085	maximum		0.35				0		1	0.253	
						1.27	6.34	0			0.449	
2	2086	maximum		0.35				0		1	0.192	
						0.77	3.87	0			0.446	
2	2087	maximum		0.35		0.08	0.02	0		1	0.138	
						0.47	2.22	0			0.442	
2	2088	maximum		0.35		0.19	0.05	0		1	0.090	
						0.32	1.09	0			0.439	
2	2089	maximum		0.35		0.18	0.12	0		1	0.049	
						0.28	0.48	0			0.436	
2	2090	maximum		0.35		0.21	0.11	0		1	0.018	
						0.29	0.13	0			0.434	
2	2091	maximum		0.35				0		1	0.254	
						1.27	6.35	0			0.449	
2	2092	maximum		0.35				0		1	0.193	
						0.77	3.87	0			0.446	
2	2093	maximum		0.35		0.08	0.02	0		1	0.138	
						0.47	2.22	0			0.442	
2	2094	maximum		0.35		0.18	0.05	0		1	0.090	
						0.32	1.08	0			0.439	
2	2095	maximum		0.35		0.19	0.12	0		1	0.049	
						0.28	0.47	0			0.436	
2	2096	maximum		0.35		0.21	0.10	0		1	0.018	
						0.29	0.13	0			0.434	
2	2097	maximum		0.35				0		1	0.254	
						1.27	6.37	0			0.449	
2	2098	maximum		0.35				0		1	0.193	
						0.78	3.88	0			0.446	
2	2099	maximum		0.35		0.08	0.02	0		1	0.138	
						0.47	2.22	0			0.442	
2	2100	maximum		0.35		0.18	0.05	0		1	0.091	
						0.32	1.08	0			0.439	
2	2101	maximum		0.35		0.18	0.12	0		1	0.049	
						0.27	0.47	0			0.436	
2	2102	maximum		0.35		0.21	0.09	0		1	0.018	
						0.30	0.13	0			0.434	
2	2103	maximum		0.35				0		1	0.255	
						1.28	6.39	0			0.449	
2	2104	maximum		0.35				0		1	0.194	
						0.78	3.89	0			0.446	
2	2105	maximum		0.35		0.08	0.02	0		1	0.139	
						0.47	2.21	0			0.443	
2	2106	maximum		0.35		0.17	0.05	0		1	0.091	
						0.32	1.08	0			0.439	
2	2107	maximum		0.35		0.17	0.11	0		1	0.050	
						0.27	0.47	0			0.436	
2	2108	maximum		0.35		0.21	0.08	0		1	0.018	
						0.32	0.13	0			0.434	
2	2109	maximum		0.35				0		1	0.256	
						1.28	6.40	0			0.449	
2	2110	maximum		0.35				0		1	0.195	
						0.78	3.89	0			0.446	
2	2111	maximum		0.35		0.07	0.01	0		1	0.140	
						0.48	2.21	0			0.443	
2	2112	maximum		0.35		0.16	0.05	0		1	0.091	
						0.32	1.07	0			0.439	
2	2113	maximum		0.35		0.15	0.10	0		1	0.050	
						0.27	0.47	0			0.436	
2	2114	maximum		0.35		0.21	0.08	0		1	0.018	
						0.33	0.13	0			0.434	
2	2115	maximum		0.35				0		1	0.259	
						1.28	6.42	0			0.449	
2	2116	maximum		0.35				0		1	0.196	
						0.77	3.87	0			0.446	
2	2117	maximum		0.35		0.06	0.01	0		1	0.140	
						0.49	2.19	0			0.443	
2	2118	maximum		0.35		0.15	0.04	0		1	0.091	
						0.33	1.07	0			0.440	
2	2119	maximum		0.35		0.14	0.09	0		1	0.050	
						0.27	0.47	0			0.436	
2	2120	maximum		0.35		0.21	0.07	0		1	0.018	
						0.31	0.13	0			0.434	
2	2121	maximum		0.35				0		1	0.262	
						1.28	6.41	0			0.450	

ΤΑΦΡΟΣ Τ1 (3.00x2.80x1.50)m
ΔΙΑΣΤΑΣΙΟΛΟΓΗΣΗ ULS-SEISMIKA QH=1.50/QV=1.00

REINFORCEMENT ACC. TO EN 1992-1-1:2004(EC2) in [cm2/m] upper/lower
General load safety factor - as defined in BEMESS: Gamma-f = 1.00
Shear: stresses VEd/d and VRd,ct/d with d=effective depth = h-hm
Shear index 2m = minimum shear reinforcement

Grp	ELEM No	LC No	MAT No	GEO No	h [m]	Reinforcement main	Reinforcement cross	dphi dir	dphi deg	Shr zon	VEd/d [MPa]	Ass [cm2/m2]
		MBW									VRd,ct/d	
2	2122	maximum		0.35				0		1	0.198	
						0.77	3.83	0			0.447	
2	2123	maximum		0.35		0.06	0.01	0		1	0.141	
						0.51	2.18	0			0.443	
2	2124	maximum		0.35		0.14	0.03	0		1	0.091	
						0.33	1.08	0			0.440	
2	2125	maximum		0.35		0.12	0.08	0		1	0.049	
						0.26	0.49	0			0.436	
2	2126	maximum		0.35		0.23	0.06	0		1	0.018	
						0.28	0.14	0			0.434	
2	2127	maximum		0.35				0		1	0.268	
						1.27	6.37	0			0.451	
2	2128	maximum		0.35				0		1	0.199	
						0.77	3.77	0			0.448	
2	2129	maximum		0.35		0.06	0.01	0		1	0.139	
						0.53	2.20	0			0.444	
2	2130	maximum		0.35		0.13	0.03	0		1	0.090	
						0.33	1.12	0			0.440	
2	2131	maximum		0.35		0.12	0.07	0		1	0.049	
						0.23	0.52	0			0.436	
2	2132	maximum		0.35		0.23	0.05	0		1	0.018	
						0.22	0.15	0			0.434	
2	2133	maximum		0.35				0		1	0.272	
						1.24	6.18	0			0.452	
2	2134	maximum		0.35				0		1	0.195	
						0.82	3.82	0			0.448	
2	2135	maximum		0.35		0.07	0.01	0		1	0.135	
						0.52	2.29	0			0.444	
2	2136	maximum		0.35		0.13	0.03	0		1	0.087	
						0.27	1.18	0			0.440	
2	2137	maximum		0.35		0.14	0.06	0		1	0.047	
						0.17	0.54	0			0.436	
2	2138	maximum		0.35		0.19	0.04	0		1	0.019	
						0.15	0.12	0			0.434	
2	2139	maximum		0.35				0		1	0.258	
						1.23	6.17	0			0.452	
2	2140	maximum		0.35		0.01		0		1	0.182	
						0.82	4.08	0			0.446	
2	2141	maximum		0.35		0.07	0.01	0		1	0.127	
						0.48	2.41	0			0.442	
2	2142	maximum		0.35		0.11	0.03	0		1	0.082	
						0.24	1.20	0			0.439	
2	2143	maximum		0.35		0.14	0.06	0		1	0.045	
						0.12	0.52	0			0.436	
2	2144	maximum		0.35		0.14	0.03	0		1	0.018	
						0.10	0.12	0			0.434	
2	2145	maximum		0.35				0		1	0.211	
						1.37	6.83	0			0.445	
2	2146	maximum		0.35		0.02		0		1	0.181	
						0.86	4.31	0			0.443	
2	2147	maximum		0.35		0.04	0.01	0		1	0.140	
						0.48	2.40	0			0.441	
2	2148	maximum		0.35		0.07	0.01	0		1	0.096	
						0.24	1.18	0			0.438	
2	2149	maximum		0.35		0.07	0.04	0		1	0.054	
						0.10	0.50	0			0.436	
2	2150	maximum		0.35		0.06	0.02	0		1	0.025	
						0.07	0.12	0			0.434	
3	3001	maximum		0.35				0		1	0.241	
						0.80	3.98	0			0.439	
3	3002	maximum		0.35				0		1	0.221	
						0.92	3.68	0			0.444	
3	3003	maximum		0.35				0		1	0.224	
						1.06	3.82	0			0.443	
3	3004	maximum		0.35				0		1	0.217	
						1.04	3.87	0			0.441	
3	3005	maximum		0.35				0		1	0.211	
						1.03	3.84	0			0.441	
3	3006	maximum		0.35				0		1	0.208	
						1.02	3.80	0			0.440	
3	3007	maximum		0.35				0		1	0.207	
						1.01	3.76	0			0.440	
3	3008	maximum		0.35				0		1	0.206	
						1.00	3.73	0			0.440	

ΤΑΦΡΟΣ Τ1 (3.00x2.80x1.50)m
ΔΙΑΣΤΑΣΙΟΛΟΓΗΣΗ ULS-SEISMIKA QH=1.50/QV=1.00

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Grp	ELEM No	LC No	MAT No	GEO No	h [m]	Reinforcement main	Reinforcement cross	dphi dir	dphi deg	Shr zon	VEd/d [MPa] VRd,ct/d	Ass [cm2/m2]
		MBW										
3	3009	maximum		0.35				0		1	0.206	
						1.00	3.70	0			0.440	
3	3010	maximum		0.35				0		1	0.206	
						0.99	3.68	0			0.440	
3	3011	maximum		0.35				0		1	0.206	
						0.99	3.66	0			0.440	
3	3012	maximum		0.35				0		1	0.205	
						0.99	3.65	0			0.440	
3	3013	maximum		0.35				0		1	0.205	
						1.00	3.66	0			0.440	
3	3014	maximum		0.35				0		1	0.205	
						1.01	3.67	0			0.440	
3	3015	maximum		0.35				0		1	0.205	
						1.02	3.68	0			0.440	
3	3016	maximum		0.35				0		1	0.204	
						1.03	3.70	0			0.440	
3	3017	maximum		0.35				0		1	0.204	
						1.05	3.73	0			0.440	
3	3018	maximum		0.35				0		1	0.204	
						1.06	3.77	0			0.440	
3	3019	maximum		0.35				0		1	0.204	
						1.09	3.82	0			0.440	
3	3020	maximum		0.35				0		1	0.205	
						1.11	3.89	0			0.440	
3	3021	maximum		0.35				0		1	0.208	
						1.15	3.97	0			0.441	
3	3022	maximum		0.35				0		1	0.214	
						1.19	4.04	0			0.441	
3	3023	maximum		0.35				0		1	0.224	
						1.24	4.05	0			0.443	
3	3024	maximum		0.35				0		1	0.223	
						1.12	3.97	0			0.444	
3	3025	maximum		0.35				0		1	0.261	
						0.86	4.28	0			0.439	
3	3026	maximum		0.35		0.04	0.01	0		1	0.197	
						0.47	2.35	0			0.437	
3	3027	maximum		0.35		0.04	0.01	0		1	0.160	
						0.63	2.17	0			0.439	
3	3028	maximum		0.35		0.02		0		1	0.169	
						0.81	2.22	0			0.440	
3	3029	maximum		0.35		0.01		0		1	0.167	
						0.85	2.32	0			0.439	
3	3030	maximum		0.35				0		1	0.164	
						0.83	2.33	0			0.438	
3	3031	maximum		0.35				0		1	0.162	
						0.80	2.31	0			0.438	
3	3032	maximum		0.35				0		1	0.161	
						0.77	2.27	0			0.438	
3	3033	maximum		0.35				0		1	0.160	
						0.74	2.23	0			0.438	
3	3034	maximum		0.35				0		1	0.160	
						0.71	2.20	0			0.438	
3	3035	maximum		0.35				0		1	0.160	
						0.69	2.18	0			0.438	
3	3036	maximum		0.35				0		1	0.160	
						0.68	2.16	0			0.438	
3	3037	maximum		0.35				0		1	0.160	
						0.66	2.14	0			0.438	
3	3038	maximum		0.35				0		1	0.160	
						0.67	2.15	0			0.438	
3	3039	maximum		0.35				0		1	0.159	
						0.69	2.16	0			0.438	
3	3040	maximum		0.35				0		1	0.159	
						0.71	2.18	0			0.438	
3	3041	maximum		0.35				0		1	0.159	
						0.73	2.21	0			0.438	
3	3042	maximum		0.35				0		1	0.159	
						0.76	2.24	0			0.438	
3	3043	maximum		0.35				0		1	0.159	
						0.80	2.29	0			0.438	
3	3044	maximum		0.35				0		1	0.160	
						0.86	2.35	0			0.438	
3	3045	maximum		0.35				0		1	0.161	
						0.91	2.42	0			0.438	

ΤΑΦΡΟΣ Τ1 (3.00x2.80x1.50)m
ΔΙΑΣΤΑΣΙΟΛΟΓΗΣΗ ULS-SEISMIKA QH=1.50/QV=1.00

REINFORCEMENT ACC. TO EN 1992-1-1:2004(EC2) in [cm2/m] upper/lower
General load safety factor - as defined in BEMESS: Gamma-f = 1.00
Shear: stresses VEd/d and VRd,ct/d with d=effective depth = h-hm
Shear index 2m = minimum shear reinforcement

Grp	ELEM No	LC No	MAT No	GEO No	h [m]	Reinforcement main	Reinforcement cross	dphi dir	dphi deg	Shr zon	VEd/d [MPa] VRd,ct/d	Ass [cm2/m2]
		MBW										
3	3046	maximum		0.35				0		1	0.163	
						0.98	2.48	0			0.438	
3	3047	maximum		0.35		0.01		0		1	0.166	
						1.04	2.51	0			0.439	
3	3048	maximum		0.35		0.02		0		1	0.169	
						1.04	2.47	0			0.440	
3	3049	maximum		0.35		0.04	0.01	0		1	0.160	
						0.88	2.48	0			0.439	
3	3050	maximum		0.35		0.05	0.01	0		1	0.220	
						0.54	2.68	0			0.437	
3	3051	maximum		0.35		0.09	0.02	0		1	0.139	
						0.29	1.14	0			0.435	
3	3052	maximum		0.35		0.13	0.03	0		1	0.107	
						0.45	1.09	0			0.435	
3	3053	maximum		0.35		0.14	0.03	0		1	0.115	
						0.60	1.10	0			0.436	
3	3054	maximum		0.35		0.14	0.03	0		1	0.116	
						0.68	1.17	0			0.436	
3	3055	maximum		0.35		0.13	0.03	0		1	0.115	
						0.68	1.20	0			0.435	
3	3056	maximum		0.35		0.13	0.03	0		1	0.114	
						0.64	1.18	0			0.435	
3	3057	maximum		0.35		0.12	0.02	0		1	0.113	
						0.58	1.14	0			0.435	
3	3058	maximum		0.35		0.11	0.02	0		1	0.112	
						0.53	1.11	0			0.435	
3	3059	maximum		0.35		0.10	0.02	0		1	0.112	
						0.49	1.08	0			0.435	
3	3060	maximum		0.35		0.07	0.01	0		1	0.111	
						0.46	1.05	0			0.435	
3	3061	maximum		0.35		0.06	0.01	0		1	0.111	
						0.43	1.03	0			0.435	
3	3062	maximum		0.35		0.04	0.01	0		1	0.111	
						0.41	1.01	0			0.435	
3	3063	maximum		0.35		0.02		0		1	0.111	
						0.41	1.02	0			0.435	
3	3064	maximum		0.35		0.04	0.01	0		1	0.111	
						0.43	1.04	0			0.435	
3	3065	maximum		0.35		0.06	0.01	0		1	0.111	
						0.46	1.06	0			0.435	
3	3066	maximum		0.35		0.07	0.01	0		1	0.111	
						0.50	1.08	0			0.435	
3	3067	maximum		0.35		0.10	0.02	0		1	0.111	
						0.55	1.12	0			0.435	
3	3068	maximum		0.35		0.11	0.02	0		1	0.112	
						0.61	1.16	0			0.435	
3	3069	maximum		0.35		0.12	0.02	0		1	0.112	
						0.68	1.22	0			0.435	
3	3070	maximum		0.35		0.13	0.03	0		1	0.113	
						0.77	1.28	0			0.435	
3	3071	maximum		0.35		0.13	0.03	0		1	0.114	
						0.85	1.33	0			0.435	
3	3072	maximum		0.35		0.14	0.03	0		1	0.116	
						0.90	1.35	0			0.436	
3	3073	maximum		0.35		0.14	0.03	0		1	0.116	
						0.87	1.33	0			0.436	
3	3074	maximum		0.35		0.17	0.03	0		1	0.107	
						0.88	1.66	0			0.435	
3	3075	maximum		0.35		0.21	0.04	0		1	0.164	
						0.63	1.78	0			0.435	
3	3076	maximum		0.35		0.13	0.03	0		1	0.081	
						0.20	0.38	0			0.434	
3	3077	maximum		0.35		0.24	0.05	0		1	0.064	
						0.36	0.45	0			0.434	
3	3078	maximum		0.35		0.27	0.05	0		1	0.068	
						0.51	0.44	0			0.434	
3	3079	maximum		0.35		0.26	0.05	0		1	0.066	
						0.61	0.46	0			0.434	
3	3080	maximum		0.35		0.26	0.05	0		1	0.064	
						0.61	0.43	0			0.435	
3	3081	maximum		0.35		0.26	0.05	0		1	0.063	
						0.55	0.41	0			0.435	
3	3082	maximum		0.35		0.25	0.05	0		1	0.062	
						0.47	0.38	0			0.435	

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ΤΑΦΡΟΣ Τ1 (3.00x2.80x1.50)m
ΔΙΑΣΤΑΣΙΟΛΟΓΗΣΗ ULS-SEISMIKA QH=1.50/QV=1.00

REINFORCEMENT ACC. TO EN 1992-1-1:2004(EC2) in [cm2/m] upper/lower
General load safety factor - as defined in BEMESS: Gamma-f = 1.00
Shear: stresses VEd/d and VRd,ct/d with d=effective depth = h-hm
Shear index 2m = minimum shear reinforcement

Grp	ELEM No	LC No	MAT No	GEO No	h [m]	Reinforcement main	Reinforcement cross	dphi dir	dphi deg	Shr zon	VEd/d [MPa] VRd,ct/d	Ass [cm2/m2]
		MBW										
3	3083	maximum		0.35	0.24	0.05	0		1	0.061		
					0.40	0.37	0				0.435	
3	3084	maximum		0.35	0.22	0.05	0		1	0.061		
					0.34	0.34	0				0.433	
3	3085	maximum		0.35	0.19	0.04	0		1	0.061		
					0.31	0.32	0				0.433	
3	3086	maximum		0.35	0.14	0.03	0		1	0.060		
					0.27	0.30	0				0.433	
3	3087	maximum		0.35	0.11	0.03	0		1	0.060		
					0.24	0.29	0				0.433	
3	3088	maximum		0.35	0.09	0.02	0		1	0.060		
					0.21	0.29	0				0.433	
3	3089	maximum		0.35	0.11	0.03	0		1	0.060		
					0.24	0.31	0				0.433	
3	3090	maximum		0.35	0.14	0.03	0		1	0.061		
					0.29	0.32	0				0.433	
3	3091	maximum		0.35	0.19	0.04	0		1	0.061		
					0.32	0.34	0				0.433	
3	3092	maximum		0.35	0.22	0.05	0		1	0.061		
					0.37	0.36	0				0.433	
3	3093	maximum		0.35	0.24	0.05	0		1	0.062		
					0.44	0.39	0				0.435	
3	3094	maximum		0.35	0.25	0.05	0		1	0.063		
					0.53	0.43	0				0.435	
3	3095	maximum		0.35	0.26	0.05	0		1	0.065		
					0.63	0.47	0				0.435	
3	3096	maximum		0.35	0.26	0.05	0		1	0.069		
					0.73	0.51	0				0.435	
3	3097	maximum		0.35	0.27	0.05	0		1	0.073		
					0.78	0.53	0				0.434	
3	3098	maximum		0.35	0.28	0.06	0		1	0.080		
					0.72	0.54	0				0.434	
3	3099	maximum		0.35	0.29	0.13	0		1	0.079		
					0.71	0.69	0				0.434	
3	3100	maximum		0.35	0.30	0.08	0		1	0.134		
					0.47	0.66	0				0.434	

Explanations shear state Shr zon:
1 = check without necessary shear reinforcement
2 = shear reinforcement required
m = minimum shear reinforcement

ΤΑΦΡΟΣ Τ1 (3.00x2.80x1.50)m
ΠΕΡΙΒΑΛΛΟΥΣΑ ΟΠΛΙΣΜΩΝ ΣΤΑΤΙΚΩΝ-ΣΕΙΣΜΙΚΩΝ

Maximum of reinforcement-distributions
The reinforcement maximum was build out of the numbers of reinforcement-distributions:
1 , 3
and stored as new reinforcement-distribution 100 .

ΤΑΦΡΟΣ Τ1 (3.00x2.80x1.50)m

6. ΕΛΕΓΧΟΣ ΣΕΙΣΜΙΚΩΝ ΦΟΡΤΙΣΕΩΝ ΑΣΤΟΧΙΑΣ (Q=1.00)

ΤΑΦΡΟΣ Τ1 (3.00x2.80x1.50)m
ΔΙΑΣΤΑΣΙΟΛΟΓΗΣΗ ULS-SEISMIKA QH=1.00/QV=1.00

Load Case 2101 ΣΕΙΣΜΟΣ +1.0EX+0.3EY+0.3EZ

Factor forces and moments		1.000	
Factor dead weight	DL-XX	0.720	
Factor dead weight	DL-YY	0.216	
Factor dead weight	DL-ZZ	1.233	
Loads partially copied from load case		3 with factor	1.000
Loads partially copied from load case		5 with factor	0.200
Loads partially copied from load case		13 with factor	1.000

Meshfree Loading

Kind	Referenceto	Projection W[m]	Coordinates X[m]	Y[m]	Z[m]	Type	Loadvalue
Area			-1.675	12.000	-2.975	PXX	0.00 [kN/m2]
			-1.675	0.000	-2.975		0.00 [kN/m2]
			-1.675	0.000	-0.175		25.75 [kN/m2]
			-1.675	12.000	-0.175		25.75 [kN/m2]
	QGRP 2	1.000			activated		100.00 percent
Area			1.675	12.000	-1.675	PXX	0.00 [kN/m2]
			1.675	0.000	-1.675		0.00 [kN/m2]
			1.675	0.000	-0.175		-13.79 [kN/m2]
			1.675	12.000	-0.175		-13.79 [kN/m2]
	QGRP 3	1.000			activated		100.00 percent
Area			1.675	0.000	-1.675	Pz	-2.04 [kN/m2]
			1.675	12.000	-1.675		-2.04 [kN/m2]
			1.675	12.000	-0.175		-2.04 [kN/m2]
			1.675	0.000	-0.175		-2.04 [kN/m2]
	QGRP 3				activated		100.00 percent
Area			-1.675	0.000	-2.975	Pz	-2.04 [kN/m2]
			-1.675	12.000	-2.975		-2.04 [kN/m2]
			-1.675	12.000	-0.175		-2.04 [kN/m2]
			-1.675	0.000	-0.175		-2.04 [kN/m2]
	QGRP 2				activated		100.00 percent
Area			-1.675	0.000	0.000	PXX	10.89 [kN/m2]
			-1.675	0.000	-2.975		10.89 [kN/m2]
			-1.675	12.000	-2.975		10.89 [kN/m2]
			-1.675	12.000	0.000		10.89 [kN/m2]
	QGRP 2		(--)		activated		94.12 percent
Area			1.675	0.000	0.000	PXX	6.39 [kN/m2]
			1.675	0.000	-1.675		6.39 [kN/m2]
			1.675	12.000	-1.675		6.39 [kN/m2]
			1.675	12.000	0.000		6.39 [kN/m2]
	QGRP 3		(--)		activated		89.55 percent

Load Case 2102 ΣΕΙΣΜΟΣ +1.0EX-0.3EY+0.3EZ

Factor forces and moments		1.000	
Factor dead weight	DL-XX	0.720	
Factor dead weight	DL-YY	-0.216	
Factor dead weight	DL-ZZ	1.233	
Loads partially copied from load case		3 with factor	1.000
Loads partially copied from load case		5 with factor	0.200
Loads partially copied from load case		13 with factor	1.000

Meshfree Loading

Kind	Referenceto	Projection W[m]	Coordinates X[m]	Y[m]	Z[m]	Type	Loadvalue
Area			-1.675	12.000	-2.975	PXX	0.00 [kN/m2]
			-1.675	0.000	-2.975		0.00 [kN/m2]
			-1.675	0.000	-0.175		25.75 [kN/m2]
			-1.675	12.000	-0.175		25.75 [kN/m2]
	QGRP 2	1.000			activated		100.00 percent
Area			1.675	12.000	-1.675	PXX	0.00 [kN/m2]
			1.675	0.000	-1.675		0.00 [kN/m2]
			1.675	0.000	-0.175		-13.79 [kN/m2]
			1.675	12.000	-0.175		-13.79 [kN/m2]
	QGRP 3	1.000			activated		100.00 percent
Area			1.675	0.000	-1.675	Pz	-2.04 [kN/m2]
			1.675	12.000	-1.675		-2.04 [kN/m2]
			1.675	12.000	-0.175		-2.04 [kN/m2]
			1.675	0.000	-0.175		-2.04 [kN/m2]
	QGRP 3				activated		100.00 percent
Area			-1.675	0.000	-2.975	Pz	-2.04 [kN/m2]
			-1.675	12.000	-2.975		-2.04 [kN/m2]
			-1.675	12.000	-0.175		-2.04 [kN/m2]
			-1.675	0.000	-0.175		-2.04 [kN/m2]
	QGRP 2				activated		100.00 percent
Area			-1.675	0.000	0.000	PXX	10.89 [kN/m2]
			-1.675	0.000	-2.975		10.89 [kN/m2]
			-1.675	12.000	-2.975		10.89 [kN/m2]
			-1.675	12.000	0.000		10.89 [kN/m2]
	QGRP 2		(--)		activated		94.12 percent
Area			1.675	0.000	0.000	PXX	6.39 [kN/m2]

ΤΑΦΡΟΣ Τ1 (3.00x2.80x1.50)m
ΔΙΑΣΤΑΣΙΟΛΟΓΗΣΗ ULS-SEISMIKA QH=1.00/QV=1.00

Meshfree Loading

Kind	Referenceto	Projection W[m]	Coordinates X[m]	Y[m]	Z[m]	Type	Loadvalue
			1.675	0.000	-1.675		6.39 [kN/m2]
			1.675	12.000	-1.675		6.39 [kN/m2]
			1.675	12.000	0.000		6.39 [kN/m2]
	QGRP 3		(--)		activated		89.55 percent

Load Case 2103 ΣΕΙΣΜΟΣ +1.0EX-0.3EY-0.3EZ

Factor forces and moments 1.000
Factor dead weight DL-XX 0.720
Factor dead weight DL-YY -0.216
Factor dead weight DL-ZZ 0.767
Loads partially copied from load case 3 with factor 1.000
Loads partially copied from load case 5 with factor 0.200
Loads partially copied from load case 13 with factor 1.000

Meshfree Loading

Kind	Referenceto	Projection W[m]	Coordinates X[m]	Y[m]	Z[m]	Type	Loadvalue
Area			-1.675	12.000	-2.975	PXX	0.00 [kN/m2]
			-1.675	0.000	-2.975		0.00 [kN/m2]
			-1.675	0.000	-0.175		25.75 [kN/m2]
			-1.675	12.000	-0.175		25.75 [kN/m2]
	QGRP 2	1.000			activated		100.00 percent
Area			1.675	12.000	-1.675	PXX	0.00 [kN/m2]
			1.675	0.000	-1.675		0.00 [kN/m2]
			1.675	0.000	-0.175		-13.79 [kN/m2]
			1.675	12.000	-0.175		-13.79 [kN/m2]
	QGRP 3	1.000			activated		100.00 percent
Area			1.675	0.000	-1.675	Pz	-2.04 [kN/m2]
			1.675	12.000	-1.675		-2.04 [kN/m2]
			1.675	12.000	-0.175		-2.04 [kN/m2]
			1.675	0.000	-0.175		-2.04 [kN/m2]
	QGRP 3				activated		100.00 percent
Area			-1.675	0.000	-2.975	Pz	-2.04 [kN/m2]
			-1.675	12.000	-2.975		-2.04 [kN/m2]
			-1.675	12.000	-0.175		-2.04 [kN/m2]
			-1.675	0.000	-0.175		-2.04 [kN/m2]
	QGRP 2				activated		100.00 percent
Area			-1.675	0.000	0.000	PXX	10.89 [kN/m2]
			-1.675	0.000	-2.975		10.89 [kN/m2]
			-1.675	12.000	-2.975		10.89 [kN/m2]
			-1.675	12.000	0.000		10.89 [kN/m2]
	QGRP 2		(--)		activated		94.12 percent
Area			1.675	0.000	0.000	PXX	6.39 [kN/m2]
			1.675	0.000	-1.675		6.39 [kN/m2]
			1.675	12.000	-1.675		6.39 [kN/m2]
			1.675	12.000	0.000		6.39 [kN/m2]
	QGRP 3		(--)		activated		89.55 percent

Load Case 2104 ΣΕΙΣΜΟΣ +1.0EX+0.3EY-0.3EZ

Factor forces and moments 1.000
Factor dead weight DL-XX 0.720
Factor dead weight DL-YY 0.216
Factor dead weight DL-ZZ 0.767
Loads partially copied from load case 3 with factor 1.000
Loads partially copied from load case 5 with factor 0.200
Loads partially copied from load case 13 with factor 1.000

Meshfree Loading

Kind	Referenceto	Projection W[m]	Coordinates X[m]	Y[m]	Z[m]	Type	Loadvalue
Area			-1.675	12.000	-2.975	PXX	0.00 [kN/m2]
			-1.675	0.000	-2.975		0.00 [kN/m2]
			-1.675	0.000	-0.175		25.75 [kN/m2]
			-1.675	12.000	-0.175		25.75 [kN/m2]
	QGRP 2	1.000			activated		100.00 percent
Area			1.675	12.000	-1.675	PXX	0.00 [kN/m2]
			1.675	0.000	-1.675		0.00 [kN/m2]
			1.675	0.000	-0.175		-13.79 [kN/m2]
			1.675	12.000	-0.175		-13.79 [kN/m2]
	QGRP 3	1.000			activated		100.00 percent
Area			1.675	0.000	-1.675	Pz	-2.04 [kN/m2]
			1.675	12.000	-1.675		-2.04 [kN/m2]
			1.675	12.000	-0.175		-2.04 [kN/m2]
			1.675	0.000	-0.175		-2.04 [kN/m2]
	QGRP 3				activated		100.00 percent
Area			-1.675	0.000	-2.975	Pz	-2.04 [kN/m2]
			-1.675	12.000	-2.975		-2.04 [kN/m2]
			-1.675	12.000	-0.175		-2.04 [kN/m2]

ΤΑΦΡΟΣ Τ1 (3.00x2.80x1.50)m
ΔΙΑΣΤΑΣΙΟΛΟΓΗΣΗ ULS-SEISMIKA QH=1.00/QV=1.00

Meshfree Loading

Kind	Referenceto	Projection W[m]	Coordinates X[m]	Y[m]	Z[m]	Type	Loadvalue
			-1.675	0.000	-0.175		-2.04 [kN/m2]
	QGRP 2				activated		100.00 percent
Area			-1.675	0.000	0.000	PXX	10.89 [kN/m2]
			-1.675	0.000	-2.975		10.89 [kN/m2]
			-1.675	12.000	-2.975		10.89 [kN/m2]
			-1.675	12.000	0.000		10.89 [kN/m2]
	QGRP 2		(--)		activated		94.12 percent
Area			1.675	0.000	0.000	PXX	6.39 [kN/m2]
			1.675	0.000	-1.675		6.39 [kN/m2]
			1.675	12.000	-1.675		6.39 [kN/m2]
			1.675	12.000	0.000		6.39 [kN/m2]
	QGRP 3		(--)		activated		89.55 percent

Load Case 2105 ΣΕΙΣΜΟΣ -1.0EX+0.3EY+0.3EZ

Factor forces and moments 1.000
Factor dead weight DL-XX -0.720
Factor dead weight DL-YY 0.216
Factor dead weight DL-ZZ 1.233
Loads partially copied from load case 3 with factor 1.000
Loads partially copied from load case 5 with factor 0.200
Loads partially copied from load case 14 with factor 1.000

Meshfree Loading

Kind	Referenceto	Projection W[m]	Coordinates X[m]	Y[m]	Z[m]	Type	Loadvalue
Area			-1.675	12.000	-2.975	PXX	0.00 [kN/m2]
			-1.675	0.000	-2.975		0.00 [kN/m2]
			-1.675	0.000	-0.175		25.75 [kN/m2]
			-1.675	12.000	-0.175		25.75 [kN/m2]
	QGRP 2	1.000			activated		100.00 percent
Area			1.675	12.000	-1.675	PXX	0.00 [kN/m2]
			1.675	0.000	-1.675		0.00 [kN/m2]
			1.675	0.000	-0.175		-13.79 [kN/m2]
			1.675	12.000	-0.175		-13.79 [kN/m2]
	QGRP 3	1.000			activated		100.00 percent
Area			1.675	0.000	-1.675	Pz	-2.04 [kN/m2]
			1.675	12.000	-1.675		-2.04 [kN/m2]
			1.675	12.000	-0.175		-2.04 [kN/m2]
			1.675	0.000	-0.175		-2.04 [kN/m2]
	QGRP 3				activated		100.00 percent
Area			-1.675	0.000	-2.975	Pz	-2.04 [kN/m2]
			-1.675	12.000	-2.975		-2.04 [kN/m2]
			-1.675	12.000	-0.175		-2.04 [kN/m2]
			-1.675	0.000	-0.175		-2.04 [kN/m2]
	QGRP 2				activated		100.00 percent
Area			-1.675	0.000	0.000	PXX	-10.89 [kN/m2]
			-1.675	0.000	-2.975		-10.89 [kN/m2]
			-1.675	12.000	-2.975		-10.89 [kN/m2]
			-1.675	12.000	0.000		-10.89 [kN/m2]
	QGRP 2		(--)		activated		94.12 percent
Area			1.675	0.000	0.000	PXX	-6.39 [kN/m2]
			1.675	0.000	-1.675		-6.39 [kN/m2]
			1.675	12.000	-1.675		-6.39 [kN/m2]
			1.675	12.000	0.000		-6.39 [kN/m2]
	QGRP 3		(--)		activated		89.55 percent

Load Case 2106 ΣΕΙΣΜΟΣ -1.0EX-0.3EY+0.3EZ

Factor forces and moments 1.000
Factor dead weight DL-XX -0.720
Factor dead weight DL-YY -0.216
Factor dead weight DL-ZZ 1.233
Loads partially copied from load case 3 with factor 1.000
Loads partially copied from load case 5 with factor 0.200
Loads partially copied from load case 14 with factor 1.000

Meshfree Loading

Kind	Referenceto	Projection W[m]	Coordinates X[m]	Y[m]	Z[m]	Type	Loadvalue
Area			-1.675	12.000	-2.975	PXX	0.00 [kN/m2]
			-1.675	0.000	-2.975		0.00 [kN/m2]
			-1.675	0.000	-0.175		25.75 [kN/m2]
			-1.675	12.000	-0.175		25.75 [kN/m2]
	QGRP 2	1.000			activated		100.00 percent
Area			1.675	12.000	-1.675	PXX	0.00 [kN/m2]
			1.675	0.000	-1.675		0.00 [kN/m2]
			1.675	0.000	-0.175		-13.79 [kN/m2]
			1.675	12.000	-0.175		-13.79 [kN/m2]
	QGRP 3	1.000			activated		100.00 percent

ΤΑΦΡΟΣ Τ1 (3.00x2.80x1.50)m
ΔΙΑΣΤΑΣΙΟΛΟΓΗΣΗ ULS-SEISMIKA QH=1.00/QV=1.00

Meshfree Loading

Kind	Referenceto	Projection W[m]	Coordinates X[m]	Y[m]	Z[m]	Type	Loadvalue
Area			1.675	0.000	-1.675	Pz	-2.04 [kN/m2]
			1.675	12.000	-1.675		-2.04 [kN/m2]
			1.675	12.000	-0.175		-2.04 [kN/m2]
			1.675	0.000	-0.175		-2.04 [kN/m2]
	QGRP	3			activated		100.00 percent
Area			-1.675	0.000	-2.975	Pz	-2.04 [kN/m2]
			-1.675	12.000	-2.975		-2.04 [kN/m2]
			-1.675	12.000	-0.175		-2.04 [kN/m2]
			-1.675	0.000	-0.175		-2.04 [kN/m2]
	QGRP	2			activated		100.00 percent
Area			-1.675	0.000	0.000	PXX	-10.89 [kN/m2]
			-1.675	0.000	-2.975		-10.89 [kN/m2]
			-1.675	12.000	-2.975		-10.89 [kN/m2]
			-1.675	12.000	0.000		-10.89 [kN/m2]
	QGRP	2		(--)	activated		94.12 percent
Area			1.675	0.000	0.000	PXX	-6.39 [kN/m2]
			1.675	0.000	-1.675		-6.39 [kN/m2]
			1.675	12.000	-1.675		-6.39 [kN/m2]
			1.675	12.000	0.000		-6.39 [kN/m2]
	QGRP	3		(--)	activated		89.55 percent

Load Case 2107 ΣΕΙΣΜΟΣ -1.0EX-0.3EY-0.3EZ

Factor forces and moments		1.000
Factor dead weight	DL-XX	-0.720
Factor dead weight	DL-YY	-0.216
Factor dead weight	DL-ZZ	0.767
Loads partially copied from load case	3 with factor	1.000
Loads partially copied from load case	5 with factor	0.200
Loads partially copied from load case	14 with factor	1.000

Meshfree Loading

Kind	Referenceto	Projection W[m]	Coordinates X[m]	Y[m]	Z[m]	Type	Loadvalue
Area			-1.675	12.000	-2.975	PXX	0.00 [kN/m2]
			-1.675	0.000	-2.975		0.00 [kN/m2]
			-1.675	0.000	-0.175		25.75 [kN/m2]
			-1.675	12.000	-0.175		25.75 [kN/m2]
	QGRP	2 1.000			activated		100.00 percent
Area			1.675	12.000	-1.675	PXX	0.00 [kN/m2]
			1.675	0.000	-1.675		0.00 [kN/m2]
			1.675	0.000	-0.175		-13.79 [kN/m2]
			1.675	12.000	-0.175		-13.79 [kN/m2]
	QGRP	3 1.000			activated		100.00 percent
Area			1.675	0.000	-1.675	Pz	-2.04 [kN/m2]
			1.675	12.000	-1.675		-2.04 [kN/m2]
			1.675	12.000	-0.175		-2.04 [kN/m2]
			1.675	0.000	-0.175		-2.04 [kN/m2]
	QGRP	3			activated		100.00 percent
Area			-1.675	0.000	-2.975	Pz	-2.04 [kN/m2]
			-1.675	12.000	-2.975		-2.04 [kN/m2]
			-1.675	12.000	-0.175		-2.04 [kN/m2]
			-1.675	0.000	-0.175		-2.04 [kN/m2]
	QGRP	2			activated		100.00 percent
Area			-1.675	0.000	0.000	PXX	-10.89 [kN/m2]
			-1.675	0.000	-2.975		-10.89 [kN/m2]
			-1.675	12.000	-2.975		-10.89 [kN/m2]
			-1.675	12.000	0.000		-10.89 [kN/m2]
	QGRP	2		(--)	activated		94.12 percent
Area			1.675	0.000	0.000	PXX	-6.39 [kN/m2]
			1.675	0.000	-1.675		-6.39 [kN/m2]
			1.675	12.000	-1.675		-6.39 [kN/m2]
			1.675	12.000	0.000		-6.39 [kN/m2]
	QGRP	3		(--)	activated		89.55 percent

Load Case 2108 ΣΕΙΣΜΟΣ -1.0EX+0.3EY-0.3EZ

Factor forces and moments		1.000
Factor dead weight	DL-XX	-0.720
Factor dead weight	DL-YY	0.216
Factor dead weight	DL-ZZ	0.767
Loads partially copied from load case	3 with factor	1.000
Loads partially copied from load case	5 with factor	0.200
Loads partially copied from load case	14 with factor	1.000

ΤΑΦΡΟΣ Τ1 (3.00x2.80x1.50)m
ΔΙΑΣΤΑΣΙΟΛΟΓΗΣΗ ULS-SEISMIKA QH=1.00/QV=1.00

Meshfree Loading

Kind	Referenceto	Projection W[m]	Coordinates X[m]	Y[m]	Z[m]	Type	Loadvalue
Area			-1.675	12.000	-2.975	PXX	0.00 [kN/m2]
			-1.675	0.000	-2.975		0.00 [kN/m2]
			-1.675	0.000	-0.175		25.75 [kN/m2]
			-1.675	12.000	-0.175		25.75 [kN/m2]
	QGRP	2 1.000			activated		100.00 percent
Area			1.675	12.000	-1.675	PXX	0.00 [kN/m2]
			1.675	0.000	-1.675		0.00 [kN/m2]
			1.675	0.000	-0.175		-13.79 [kN/m2]
			1.675	12.000	-0.175		-13.79 [kN/m2]
	QGRP	3 1.000			activated		100.00 percent
Area			1.675	0.000	-1.675	Pz	-2.04 [kN/m2]
			1.675	12.000	-1.675		-2.04 [kN/m2]
			1.675	12.000	-0.175		-2.04 [kN/m2]
			1.675	0.000	-0.175		-2.04 [kN/m2]
	QGRP	3			activated		100.00 percent
Area			-1.675	0.000	-2.975	Pz	-2.04 [kN/m2]
			-1.675	12.000	-2.975		-2.04 [kN/m2]
			-1.675	12.000	-0.175		-2.04 [kN/m2]
			-1.675	0.000	-0.175		-2.04 [kN/m2]
	QGRP	2			activated		100.00 percent
Area			-1.675	0.000	0.000	PXX	-10.89 [kN/m2]
			-1.675	0.000	-2.975		-10.89 [kN/m2]
			-1.675	12.000	-2.975		-10.89 [kN/m2]
			-1.675	12.000	0.000		-10.89 [kN/m2]
	QGRP	2		(--)	activated		94.12 percent
Area			1.675	0.000	0.000	PXX	-6.39 [kN/m2]
			1.675	0.000	-1.675		-6.39 [kN/m2]
			1.675	12.000	-1.675		-6.39 [kN/m2]
			1.675	12.000	0.000		-6.39 [kN/m2]
	QGRP	3		(--)	activated		89.55 percent

Load Case 2111 ΣΕΙΣΜΟΣ +0.3EX+1.0EY+0.3EZ

Factor forces and moments		1.000
Factor dead weight	DL-XX	0.216
Factor dead weight	DL-YY	0.720
Factor dead weight	DL-ZZ	1.233
Loads partially copied from load case	3 with factor	1.000
Loads partially copied from load case	5 with factor	0.200
Loads partially copied from load case	13 with factor	0.300

Meshfree Loading

Kind	Referenceto	Projection W[m]	Coordinates X[m]	Y[m]	Z[m]	Type	Loadvalue
Area			-1.675	12.000	-2.975	PXX	0.00 [kN/m2]
			-1.675	0.000	-2.975		0.00 [kN/m2]
			-1.675	0.000	-0.175		25.75 [kN/m2]
			-1.675	12.000	-0.175		25.75 [kN/m2]
	QGRP	2 1.000			activated		100.00 percent
Area			1.675	12.000	-1.675	PXX	0.00 [kN/m2]
			1.675	0.000	-1.675		0.00 [kN/m2]
			1.675	0.000	-0.175		-13.79 [kN/m2]
			1.675	12.000	-0.175		-13.79 [kN/m2]
	QGRP	3 1.000			activated		100.00 percent
Area			1.675	0.000	-1.675	Pz	-2.04 [kN/m2]
			1.675	12.000	-1.675		-2.04 [kN/m2]
			1.675	12.000	-0.175		-2.04 [kN/m2]
			1.675	0.000	-0.175		-2.04 [kN/m2]
	QGRP	3			activated		100.00 percent
Area			-1.675	0.000	-2.975	Pz	-2.04 [kN/m2]
			-1.675	12.000	-2.975		-2.04 [kN/m2]
			-1.675	12.000	-0.175		-2.04 [kN/m2]
			-1.675	0.000	-0.175		-2.04 [kN/m2]
	QGRP	2			activated		100.00 percent
Area			-1.675	0.000	0.000	PXX	3.27 [kN/m2]
			-1.675	0.000	-2.975		3.27 [kN/m2]
			-1.675	12.000	-2.975		3.27 [kN/m2]
			-1.675	12.000	0.000		3.27 [kN/m2]
	QGRP	2		(--)	activated		94.12 percent
Area			1.675	0.000	0.000	PXX	1.92 [kN/m2]
			1.675	0.000	-1.675		1.92 [kN/m2]
			1.675	12.000	-1.675		1.92 [kN/m2]
			1.675	12.000	0.000		1.92 [kN/m2]
	QGRP	3		(--)	activated		89.55 percent

Load Case 2112 ΣΕΙΣΜΟΣ +0.3EX-1.0EY+0.3EZ

ΤΑΦΡΟΣ Τ1 (3.00x2.80x1.50)m
ΔΙΑΣΤΑΣΙΟΛΟΓΗΣΗ ULS-SEISMIKA QH=1.00/QV=1.00

Load Case 2112 ΣΕΙΣΜΟΣ +0.3ΕΧ-1.0ΕΥ+0.3ΕΖ

Factor forces and moments		1.000
Factor dead weight	DL-XX	0.216
Factor dead weight	DL-YY	-0.720
Factor dead weight	DL-ZZ	1.233
Loads partially copied from load case		3 with factor 1.000
Loads partially copied from load case		5 with factor 0.200
Loads partially copied from load case		13 with factor 0.300

Meshfree Loading

Kind	Referenceto	Projection W[m]	Coordinates X[m]	Y[m]	Z[m]		Type Loadvalue
Area			-1.675	12.000	-2.975	PXX	0.00 [kN/m2]
			-1.675	0.000	-2.975		0.00 [kN/m2]
			-1.675	0.000	-0.175		25.75 [kN/m2]
			-1.675	12.000	-0.175		25.75 [kN/m2]
	QGRP 2	1.000			activated		100.00 percent
Area			1.675	12.000	-1.675	PXX	0.00 [kN/m2]
			1.675	0.000	-1.675		0.00 [kN/m2]
			1.675	0.000	-0.175		-13.79 [kN/m2]
			1.675	12.000	-0.175		-13.79 [kN/m2]
	QGRP 3	1.000			activated		100.00 percent
Area			1.675	0.000	-1.675	Pz	-2.04 [kN/m2]
			1.675	12.000	-1.675		-2.04 [kN/m2]
			1.675	12.000	-0.175		-2.04 [kN/m2]
			1.675	0.000	-0.175		-2.04 [kN/m2]
	QGRP 3				activated		100.00 percent
Area			-1.675	0.000	-2.975	Pz	-2.04 [kN/m2]
			-1.675	12.000	-2.975		-2.04 [kN/m2]
			-1.675	12.000	-0.175		-2.04 [kN/m2]
			-1.675	0.000	-0.175		-2.04 [kN/m2]
	QGRP 2				activated		100.00 percent
Area			-1.675	0.000	0.000	PXX	3.27 [kN/m2]
			-1.675	0.000	-2.975		3.27 [kN/m2]
			-1.675	12.000	-2.975		3.27 [kN/m2]
			-1.675	12.000	0.000		3.27 [kN/m2]
	QGRP 2		(--)		activated		94.12 percent
Area			1.675	0.000	0.000	PXX	1.92 [kN/m2]
			1.675	0.000	-1.675		1.92 [kN/m2]
			1.675	12.000	-1.675		1.92 [kN/m2]
			1.675	12.000	0.000		1.92 [kN/m2]
	QGRP 3		(--)		activated		89.55 percent

Load Case 2113 ΣΕΙΣΜΟΣ +0.3ΕΧ-1.0ΕΥ-0.3ΕΖ

Factor forces and moments		1.000
Factor dead weight	DL-XX	0.216
Factor dead weight	DL-YY	-0.720
Factor dead weight	DL-ZZ	0.767
Loads partially copied from load case		3 with factor 1.000
Loads partially copied from load case		5 with factor 0.200
Loads partially copied from load case		13 with factor 0.300

Meshfree Loading

Kind	Referenceto	Projection W[m]	Coordinates X[m]	Y[m]	Z[m]		Type Loadvalue
Area			-1.675	12.000	-2.975	PXX	0.00 [kN/m2]
			-1.675	0.000	-2.975		0.00 [kN/m2]
			-1.675	0.000	-0.175		25.75 [kN/m2]
			-1.675	12.000	-0.175		25.75 [kN/m2]
	QGRP 2	1.000			activated		100.00 percent
Area			1.675	12.000	-1.675	PXX	0.00 [kN/m2]
			1.675	0.000	-1.675		0.00 [kN/m2]
			1.675	0.000	-0.175		-13.79 [kN/m2]
			1.675	12.000	-0.175		-13.79 [kN/m2]
	QGRP 3	1.000			activated		100.00 percent
Area			1.675	0.000	-1.675	Pz	-2.04 [kN/m2]
			1.675	12.000	-1.675		-2.04 [kN/m2]
			1.675	12.000	-0.175		-2.04 [kN/m2]
			1.675	0.000	-0.175		-2.04 [kN/m2]
	QGRP 3				activated		100.00 percent
Area			-1.675	0.000	-2.975	Pz	-2.04 [kN/m2]
			-1.675	12.000	-2.975		-2.04 [kN/m2]
			-1.675	12.000	-0.175		-2.04 [kN/m2]
			-1.675	0.000	-0.175		-2.04 [kN/m2]
	QGRP 2				activated		100.00 percent
Area			-1.675	0.000	0.000	PXX	3.27 [kN/m2]
			-1.675	0.000	-2.975		3.27 [kN/m2]
			-1.675	12.000	-2.975		3.27 [kN/m2]
			-1.675	12.000	0.000		3.27 [kN/m2]
	QGRP 2		(--)		activated		94.12 percent
Area			1.675	0.000	0.000	PXX	1.92 [kN/m2]

ΤΑΦΡΟΣ Τ1 (3.00x2.80x1.50)m
ΔΙΑΣΤΑΣΙΟΛΟΓΗΣΗ ULS-SEISMIKA QH=1.00/QV=1.00

Meshfree Loading

Kind	Referenceto	Projection W[m]	Coordinates X[m]	Y[m]	Z[m]		Type Loadvalue
			1.675	0.000	-1.675		1.92 [kN/m2]
			1.675	12.000	-1.675		1.92 [kN/m2]
			1.675	12.000	0.000		1.92 [kN/m2]
	QGRP 3		(--)		activated		89.55 percent

Load Case 2114 ΣΕΙΣΜΟΣ +0.3ΕΧ+1.0ΕΥ-0.3ΕΖ

Factor forces and moments		1.000
Factor dead weight	DL-XX	0.216
Factor dead weight	DL-YY	0.720
Factor dead weight	DL-ZZ	0.767
Loads partially copied from load case		3 with factor 1.000
Loads partially copied from load case		5 with factor 0.200
Loads partially copied from load case		13 with factor 0.300

Meshfree Loading

Kind	Referenceto	Projection W[m]	Coordinates X[m]	Y[m]	Z[m]		Type Loadvalue
Area			-1.675	12.000	-2.975	PXX	0.00 [kN/m2]
			-1.675	0.000	-2.975		0.00 [kN/m2]
			-1.675	0.000	-0.175		25.75 [kN/m2]
			-1.675	12.000	-0.175		25.75 [kN/m2]
	QGRP 2	1.000			activated		100.00 percent
Area			1.675	12.000	-1.675	PXX	0.00 [kN/m2]
			1.675	0.000	-1.675		0.00 [kN/m2]
			1.675	0.000	-0.175		-13.79 [kN/m2]
			1.675	12.000	-0.175		-13.79 [kN/m2]
	QGRP 3	1.000			activated		100.00 percent
Area			1.675	0.000	-1.675	Pz	-2.04 [kN/m2]
			1.675	12.000	-1.675		-2.04 [kN/m2]
			1.675	12.000	-0.175		-2.04 [kN/m2]
			1.675	0.000	-0.175		-2.04 [kN/m2]
	QGRP 3				activated		100.00 percent
Area			-1.675	0.000	-2.975	Pz	-2.04 [kN/m2]
			-1.675	12.000	-2.975		-2.04 [kN/m2]
			-1.675	12.000	-0.175		-2.04 [kN/m2]
			-1.675	0.000	-0.175		-2.04 [kN/m2]
	QGRP 2				activated		100.00 percent
Area			-1.675	0.000	0.000	PXX	3.27 [kN/m2]
			-1.675	0.000	-2.975		3.27 [kN/m2]
			-1.675	12.000	-2.975		3.27 [kN/m2]
			-1.675	12.000	0.000		3.27 [kN/m2]
	QGRP 2		(--)		activated		94.12 percent
Area			1.675	0.000	0.000	PXX	1.92 [kN/m2]
			1.675	0.000	-1.675		1.92 [kN/m2]
			1.675	12.000	-1.675		1.92 [kN/m2]
			1.675	12.000	0.000		1.92 [kN/m2]
	QGRP 3		(--)		activated		89.55 percent

Load Case 2115 ΣΕΙΣΜΟΣ -0.3ΕΧ+1.0ΕΥ+0.3ΕΖ

Factor forces and moments		1.000
Factor dead weight	DL-XX	-0.216
Factor dead weight	DL-YY	0.720
Factor dead weight	DL-ZZ	1.233
Loads partially copied from load case		3 with factor 1.000
Loads partially copied from load case		5 with factor 0.200
Loads partially copied from load case		14 with factor 0.300

Meshfree Loading

Kind	Referenceto	Projection W[m]	Coordinates X[m]	Y[m]	Z[m]		Type Loadvalue
Area			-1.675	12.000	-2.975	PXX	0.00 [kN/m2]
			-1.675	0.000	-2.975		0.00 [kN/m2]
			-1.675	0.000	-0.175		25.75 [kN/m2]
			-1.675	12.000	-0.175		25.75 [kN/m2]
	QGRP 2	1.000			activated		100.00 percent
Area			1.675	12.000	-1.675	PXX	0.00 [kN/m2]
			1.675	0.000	-1.675		0.00 [kN/m2]
			1.675	0.000	-0.175		-13.79 [kN/m2]
			1.675	12.000	-0.175		-13.79 [kN/m2]
	QGRP 3	1.000			activated		100.00 percent
Area			1.675	0.000	-1.675	Pz	-2.04 [kN/m2]
			1.675	12.000	-1.675		-2.04 [kN/m2]
			1.675	12.000	-0.175		-2.04 [kN/m2]
			1.675	0.000	-0.175		-2.04 [kN/m2]
	QGRP 3				activated		100.00 percent
Area			-1.675	0.000	-2.975	Pz	-2.04 [kN/m2]
			-1.675	12.000	-2.975		-2.04 [kN/m2]
			-1.675	12.000	-0.175		-2.04 [kN/m2]

ΤΑΦΡΟΣ Τ1 (3.00x2.80x1.50)m
ΔΙΑΣΤΑΣΙΟΛΟΓΗΣΗ ULS-SEISMIKA QH=1.00/QV=1.00

Meshfree Loading

Kind	Referenceto	Projection W[m]	Coordinates X[m]	Y[m]	Z[m]	Type	Loadvalue
			-1.675	0.000	-0.175		-2.04 [kN/m2]
	QGRP 2			activated			100.00 percent
Area			-1.675	0.000	0.000	PXX	-3.27 [kN/m2]
			-1.675	0.000	-2.975		-3.27 [kN/m2]
			-1.675	12.000	-2.975		-3.27 [kN/m2]
			-1.675	12.000	0.000		-3.27 [kN/m2]
	QGRP 2		(--)		activated		94.12 percent
Area			1.675	0.000	0.000	PXX	-1.92 [kN/m2]
			1.675	0.000	-1.675		-1.92 [kN/m2]
			1.675	12.000	-1.675		-1.92 [kN/m2]
			1.675	12.000	0.000		-1.92 [kN/m2]
	QGRP 3		(--)		activated		89.55 percent

Load Case 2116 ΣΕΙΣΜΟΣ -0.3EX-1.0EY+0.3EZ

Factor forces and moments		1.000		
Factor dead weight	DL-XX	-0.216		
Factor dead weight	DL-YY	-0.720		
Factor dead weight	DL-ZZ	1.233		
Loads partially copied from load case		3 with factor	1.000	
Loads partially copied from load case		5 with factor	0.200	
Loads partially copied from load case		14 with factor	0.300	

Meshfree Loading

Kind	Referenceto	Projection W[m]	Coordinates X[m]	Y[m]	Z[m]	Type	Loadvalue
Area			-1.675	12.000	-2.975	PXX	0.00 [kN/m2]
			-1.675	0.000	-2.975		0.00 [kN/m2]
			-1.675	0.000	-0.175		25.75 [kN/m2]
			-1.675	12.000	-0.175		25.75 [kN/m2]
	QGRP 2	1.000			activated		100.00 percent
Area			1.675	12.000	-1.675	PXX	0.00 [kN/m2]
			1.675	0.000	-1.675		0.00 [kN/m2]
			1.675	0.000	-0.175		-13.79 [kN/m2]
			1.675	12.000	-0.175		-13.79 [kN/m2]
	QGRP 3	1.000			activated		100.00 percent
Area			1.675	0.000	-1.675	Pz	-2.04 [kN/m2]
			1.675	12.000	-1.675		-2.04 [kN/m2]
			1.675	12.000	-0.175		-2.04 [kN/m2]
			1.675	0.000	-0.175		-2.04 [kN/m2]
	QGRP 3				activated		100.00 percent
Area			-1.675	0.000	-2.975	Pz	-2.04 [kN/m2]
			-1.675	12.000	-2.975		-2.04 [kN/m2]
			-1.675	12.000	-0.175		-2.04 [kN/m2]
			-1.675	0.000	-0.175		-2.04 [kN/m2]
	QGRP 2				activated		100.00 percent
Area			-1.675	0.000	0.000	PXX	-3.27 [kN/m2]
			-1.675	0.000	-2.975		-3.27 [kN/m2]
			-1.675	12.000	-2.975		-3.27 [kN/m2]
			-1.675	12.000	0.000		-3.27 [kN/m2]
	QGRP 2		(--)		activated		94.12 percent
Area			1.675	0.000	0.000	PXX	-1.92 [kN/m2]
			1.675	0.000	-1.675		-1.92 [kN/m2]
			1.675	12.000	-1.675		-1.92 [kN/m2]
			1.675	12.000	0.000		-1.92 [kN/m2]
	QGRP 3		(--)		activated		89.55 percent

Load Case 2117 ΣΕΙΣΜΟΣ -0.3EX-1.0EY-0.3EZ

Factor forces and moments		1.000		
Factor dead weight	DL-XX	-0.216		
Factor dead weight	DL-YY	-0.720		
Factor dead weight	DL-ZZ	0.767		
Loads partially copied from load case		3 with factor	1.000	
Loads partially copied from load case		5 with factor	0.200	
Loads partially copied from load case		14 with factor	0.300	

Meshfree Loading

Kind	Referenceto	Projection W[m]	Coordinates X[m]	Y[m]	Z[m]	Type	Loadvalue
Area			-1.675	12.000	-2.975	PXX	0.00 [kN/m2]
			-1.675	0.000	-2.975		0.00 [kN/m2]
			-1.675	0.000	-0.175		25.75 [kN/m2]
			-1.675	12.000	-0.175		25.75 [kN/m2]
	QGRP 2	1.000			activated		100.00 percent
Area			1.675	12.000	-1.675	PXX	0.00 [kN/m2]
			1.675	0.000	-1.675		0.00 [kN/m2]
			1.675	0.000	-0.175		-13.79 [kN/m2]
			1.675	12.000	-0.175		-13.79 [kN/m2]
	QGRP 3	1.000			activated		100.00 percent

ΤΑΦΡΟΣ Τ1 (3.00x2.80x1.50)m
ΔΙΑΣΤΑΣΙΟΛΟΓΗΣΗ ULS-SEISMIKA QH=1.00/QV=1.00

Meshfree Loading

Kind	Referenceto	Projection W[m]	Coordinates X[m]	Y[m]	Z[m]	Type	Loadvalue
Area			1.675	0.000	-1.675	Pz	-2.04 [kN/m2]
			1.675	12.000	-1.675		-2.04 [kN/m2]
			1.675	12.000	-0.175		-2.04 [kN/m2]
			1.675	0.000	-0.175		-2.04 [kN/m2]
	QGRP 3				activated		100.00 percent
Area			-1.675	0.000	-2.975	Pz	-2.04 [kN/m2]
			-1.675	12.000	-2.975		-2.04 [kN/m2]
			-1.675	12.000	-0.175		-2.04 [kN/m2]
			-1.675	0.000	-0.175		-2.04 [kN/m2]
	QGRP 2				activated		100.00 percent
Area			-1.675	0.000	0.000	PXX	-3.27 [kN/m2]
			-1.675	0.000	-2.975		-3.27 [kN/m2]
			-1.675	12.000	-2.975		-3.27 [kN/m2]
			-1.675	12.000	0.000		-3.27 [kN/m2]
	QGRP 2		(--)		activated		94.12 percent
Area			1.675	0.000	0.000	PXX	-1.92 [kN/m2]
			1.675	0.000	-1.675		-1.92 [kN/m2]
			1.675	12.000	-1.675		-1.92 [kN/m2]
			1.675	12.000	0.000		-1.92 [kN/m2]
	QGRP 3		(--)		activated		89.55 percent

Load Case 2118 ΣΕΙΣΜΟΣ -0.3EX+1.0EY-0.3EZ

Factor forces and moments		1.000		
Factor dead weight	DL-XX	-0.216		
Factor dead weight	DL-YY	0.720		
Factor dead weight	DL-ZZ	0.767		
Loads partially copied from load case		3 with factor	1.000	
Loads partially copied from load case		5 with factor	0.200	
Loads partially copied from load case		14 with factor	0.300	

Meshfree Loading

Kind	Referenceto	Projection W[m]	Coordinates X[m]	Y[m]	Z[m]	Type	Loadvalue
Area			-1.675	12.000	-2.975	PXX	0.00 [kN/m2]
			-1.675	0.000	-2.975		0.00 [kN/m2]
			-1.675	0.000	-0.175		25.75 [kN/m2]
			-1.675	12.000	-0.175		25.75 [kN/m2]
	QGRP 2	1.000			activated		100.00 percent
Area			1.675	12.000	-1.675	PXX	0.00 [kN/m2]
			1.675	0.000	-1.675		0.00 [kN/m2]
			1.675	0.000	-0.175		-13.79 [kN/m2]
			1.675	12.000	-0.175		-13.79 [kN/m2]
	QGRP 3	1.000			activated		100.00 percent
Area			1.675	0.000	-1.675	Pz	-2.04 [kN/m2]
			1.675	12.000	-1.675		-2.04 [kN/m2]
			1.675	12.000	-0.175		-2.04 [kN/m2]
			1.675	0.000	-0.175		-2.04 [kN/m2]
	QGRP 3				activated		100.00 percent
Area			-1.675	0.000	-2.975	Pz	-2.04 [kN/m2]
			-1.675	12.000	-2.975		-2.04 [kN/m2]
			-1.675	12.000	-0.175		-2.04 [kN/m2]
			-1.675	0.000	-0.175		-2.04 [kN/m2]
	QGRP 2				activated		100.00 percent
Area			-1.675	0.000	0.000	PXX	-3.27 [kN/m2]
			-1.675	0.000	-2.975		-3.27 [kN/m2]
			-1.675	12.000	-2.975		-3.27 [kN/m2]
			-1.675	12.000	0.000		-3.27 [kN/m2]
	QGRP 2		(--)		activated		94.12 percent
Area			1.675	0.000	0.000	PXX	-1.92 [kN/m2]
			1.675	0.000	-1.675		-1.92 [kN/m2]
			1.675	12.000	-1.675		-1.92 [kN/m2]
			1.675	12.000	0.000		-1.92 [kN/m2]
	QGRP 3		(--)		activated		89.55 percent

Load Case 2121 ΣΕΙΣΜΟΣ +0.3EX+0.3EY+1.0EZ

Factor forces and moments		1.000		
Factor dead weight	DL-XX	0.216		
Factor dead weight	DL-YY	0.216		
Factor dead weight	DL-ZZ	1.778		
Loads partially copied from load case		3 with factor	1.000	
Loads partially copied from load case		5 with factor	0.200	
Loads partially copied from load case		13 with factor	0.300	

ΤΑΦΡΟΣ Τ1 (3.00x2.80x1.50)m
ΔΙΑΣΤΑΣΙΟΛΟΓΗΣΗ ULS-SEISMIKA QH=1.00/QV=1.00

Meshfree Loading

Kind	Referenceto		Projection W[m]	Coordinates X[m]	Y[m]	Z[m]		Type Loadvalue
Area				-1.675	12.000	-2.975	PXX	0.00 [kN/m2]
				-1.675	0.000	-2.975		0.00 [kN/m2]
				-1.675	0.000	-0.175		25.75 [kN/m2]
				-1.675	12.000	-0.175		25.75 [kN/m2]
	QGRP	2	1.000			activated		100.00 percent
Area				1.675	12.000	-1.675	PXX	0.00 [kN/m2]
				1.675	0.000	-1.675		0.00 [kN/m2]
				1.675	0.000	-0.175		-13.79 [kN/m2]
				1.675	12.000	-0.175		-13.79 [kN/m2]
	QGRP	3	1.000			activated		100.00 percent
Area				1.675	0.000	-1.675	Pz	-2.04 [kN/m2]
				1.675	12.000	-1.675		-2.04 [kN/m2]
				1.675	12.000	-0.175		-2.04 [kN/m2]
				1.675	0.000	-0.175		-2.04 [kN/m2]
	QGRP	3				activated		100.00 percent
Area				-1.675	0.000	-2.975	Pz	-2.04 [kN/m2]
				-1.675	12.000	-2.975		-2.04 [kN/m2]
				-1.675	12.000	-0.175		-2.04 [kN/m2]
				-1.675	0.000	-0.175		-2.04 [kN/m2]
	QGRP	2				activated		100.00 percent
Area				-1.675	0.000	0.000	PXX	3.27 [kN/m2]
				-1.675	0.000	-2.975		3.27 [kN/m2]
				-1.675	12.000	-2.975		3.27 [kN/m2]
				-1.675	12.000	0.000		3.27 [kN/m2]
	QGRP	2		(--)		activated		94.12 percent
Area				1.675	0.000	0.000	PXX	1.92 [kN/m2]
				1.675	0.000	-1.675		1.92 [kN/m2]
				1.675	12.000	-1.675		1.92 [kN/m2]
				1.675	12.000	0.000		1.92 [kN/m2]
	QGRP	3		(--)		activated		89.55 percent

Load Case 2122 ΣΕΙΣΜΟΣ +0.3ΕΧ-0.3ΕΥ+1.0ΕΖ

Factor forces and moments		1.000
Factor dead weight	DL-XX	0.216
Factor dead weight	DL-YY	-0.216
Factor dead weight	DL-ZZ	1.778
Loads partially copied from load case		3 with factor 1.000
Loads partially copied from load case		5 with factor 0.200
Loads partially copied from load case		13 with factor 0.300

Meshfree Loading

Kind	Referenceto		Projection W[m]	Coordinates X[m]	Y[m]	Z[m]		Type Loadvalue
Area				-1.675	12.000	-2.975	PXX	0.00 [kN/m2]
				-1.675	0.000	-2.975		0.00 [kN/m2]
				-1.675	0.000	-0.175		25.75 [kN/m2]
				-1.675	12.000	-0.175		25.75 [kN/m2]
	QGRP	2	1.000			activated		100.00 percent
Area				1.675	12.000	-1.675	PXX	0.00 [kN/m2]
				1.675	0.000	-1.675		0.00 [kN/m2]
				1.675	0.000	-0.175		-13.79 [kN/m2]
				1.675	12.000	-0.175		-13.79 [kN/m2]
	QGRP	3	1.000			activated		100.00 percent
Area				1.675	0.000	-1.675	Pz	-2.04 [kN/m2]
				1.675	12.000	-1.675		-2.04 [kN/m2]
				1.675	12.000	-0.175		-2.04 [kN/m2]
				1.675	0.000	-0.175		-2.04 [kN/m2]
	QGRP	3				activated		100.00 percent
Area				-1.675	0.000	-2.975	Pz	-2.04 [kN/m2]
				-1.675	12.000	-2.975		-2.04 [kN/m2]
				-1.675	12.000	-0.175		-2.04 [kN/m2]
				-1.675	0.000	-0.175		-2.04 [kN/m2]
	QGRP	2				activated		100.00 percent
Area				-1.675	0.000	0.000	PXX	3.27 [kN/m2]
				-1.675	0.000	-2.975		3.27 [kN/m2]
				-1.675	12.000	-2.975		3.27 [kN/m2]
				-1.675	12.000	0.000		3.27 [kN/m2]
	QGRP	2		(--)		activated		94.12 percent
Area				1.675	0.000	0.000	PXX	1.92 [kN/m2]
				1.675	0.000	-1.675		1.92 [kN/m2]
				1.675	12.000	-1.675		1.92 [kN/m2]
				1.675	12.000	0.000		1.92 [kN/m2]
	QGRP	3		(--)		activated		89.55 percent

Load Case 2123 ΣΕΙΣΜΟΣ +0.3ΕΧ-0.3ΕΥ-1.0ΕΖ

ΤΑΦΡΟΣ Τ1 (3.00x2.80x1.50)m
ΔΙΑΣΤΑΣΙΟΛΟΓΗΣΗ ULS-SEISMIKA QH=1.00/QV=1.00

Load Case 2123 ΣΕΙΣΜΟΣ +0.3ΕΧ-0.3ΕΥ-1.0ΕΖ

Factor forces and moments		1.000
Factor dead weight	DL-XX	0.216
Factor dead weight	DL-YY	-0.216
Factor dead weight	DL-ZZ	0.222
Loads partially copied from load case		3 with factor 1.000
Loads partially copied from load case		5 with factor 0.200
Loads partially copied from load case		13 with factor 0.300

Meshfree Loading

Kind	Referenceto		Projection W[m]	Coordinates X[m]	Y[m]	Z[m]		Type Loadvalue
Area				-1.675	12.000	-2.975	PXX	0.00 [kN/m2]
				-1.675	0.000	-2.975		0.00 [kN/m2]
				-1.675	0.000	-0.175		25.75 [kN/m2]
				-1.675	12.000	-0.175		25.75 [kN/m2]
	QGRP	2	1.000			activated		100.00 percent
Area				1.675	12.000	-1.675	PXX	0.00 [kN/m2]
				1.675	0.000	-1.675		0.00 [kN/m2]
				1.675	0.000	-0.175		-13.79 [kN/m2]
				1.675	12.000	-0.175		-13.79 [kN/m2]
	QGRP	3	1.000			activated		100.00 percent
Area				1.675	0.000	-1.675	Pz	-2.04 [kN/m2]
				1.675	12.000	-1.675		-2.04 [kN/m2]
				1.675	12.000	-0.175		-2.04 [kN/m2]
				1.675	0.000	-0.175		-2.04 [kN/m2]
	QGRP	3				activated		100.00 percent
Area				-1.675	0.000	-2.975	Pz	-2.04 [kN/m2]
				-1.675	12.000	-2.975		-2.04 [kN/m2]
				-1.675	12.000	-0.175		-2.04 [kN/m2]
				-1.675	0.000	-0.175		-2.04 [kN/m2]
	QGRP	2				activated		100.00 percent
Area				-1.675	0.000	0.000	PXX	3.27 [kN/m2]
				-1.675	0.000	-2.975		3.27 [kN/m2]
				-1.675	12.000	-2.975		3.27 [kN/m2]
				-1.675	12.000	0.000		3.27 [kN/m2]
	QGRP	2		(--)		activated		94.12 percent
Area				1.675	0.000	0.000	PXX	1.92 [kN/m2]

Load Case 2124 ΣΕΙΣΜΟΣ +0.3ΕΧ+0.3ΕΥ-1.0ΕΖ

Factor forces and moments		1.000
Factor dead weight	DL-XX	0.216
Factor dead weight	DL-YY	0.216
Factor dead weight	DL-ZZ	0.222
Loads partially copied from load case		3 with factor 1.000
Loads partially copied from load case		5 with factor 0.200
Loads partially copied from load case		13 with factor 0.300

Meshfree Loading

Kind	Referenceto		Projection W[m]	Coordinates X[m]	Y[m]	Z[m]		Type Loadvalue
Area				-1.675	12.000	-2.975	PXX	0.00 [kN/m2]
				-1.675	0.000	-2.975		0.00 [kN/m2]
				-1.675	0.000	-0.175		25.75 [kN/m2]
				-1.675	12.000	-0.175		25.75 [kN/m2]
	QGRP	2	1.000			activated		100.00 percent
Area				1.675	12.000	-1.675	PXX	0.00 [kN/m2]
				1.675	0.000	-1.675		0.00 [kN/m2]
				1.675	0.000	-0.175		-13.79 [kN/m2]
				1.675	12.000	-0.175		-13.79 [kN/m2]
	QGRP	3	1.000			activated		100.00 percent
Area				1.675	0.000	-1.675	Pz	-2.04 [kN/m2]
				1.675	12.000	-1.675		-2.04 [kN/m2]
				1.675	12.000	-0.175		-2.04 [kN/m2]
				1.675	0.000	-0.175		-2.04 [kN/m2]
	QGRP	3				activated		100.00 percent
Area				-1.675	0.000	-2.975	Pz	-2.04 [kN/m2]
				-1.675	12.000	-2.975		-2.04 [kN/m2]
				-1.675	12.000	-0.175		-2.04 [kN/m2]
				-1.675	0.000	-0.175		-2.04 [kN/m2]
	QGRP	2				activated		100.00 percent
Area				-1.675	0.000	0.000	PXX	3.27 [kN/m2]
				-1.675	0.000	-2.975		3.27 [kN/m2]
				-1.675	12.000	-2.975		3.27 [kN/m2]
				-1.675	12.000	0.000		3.27 [kN/m2]
	QGRP	2		(--)		activated		94.12 percent
Area				1.675	0.000	0.000	PXX	1.92 [kN/m2]

ΤΑΦΡΟΣ Τ1 (3.00x2.80x1.50)m
ΔΙΑΣΤΑΣΙΟΛΟΓΗΣΗ ULS-SEISMIKA QH=1.00/QV=1.00

Meshfree Loading

Kind	Referenceto	Projection W[m]	Coordinates X[m]	Y[m]	Z[m]	Type	Loadvalue
			1.675	0.000	-1.675		1.92 [kN/m2]
			1.675	12.000	-1.675		1.92 [kN/m2]
			1.675	12.000	0.000		1.92 [kN/m2]
	QGRP 3		(--)		activated		89.55 percent

Load Case 2125 ΣΕΙΣΜΟΣ -0.3EX+0.3EY+1.0EZ

Factor forces and moments		1.000
Factor dead weight	DL-XX	-0.216
Factor dead weight	DL-YY	0.216
Factor dead weight	DL-ZZ	1.778
Loads partially copied from load case		3 with factor 1.000
Loads partially copied from load case		5 with factor 0.200
Loads partially copied from load case		14 with factor 0.300

Meshfree Loading

Kind	Referenceto	Projection W[m]	Coordinates X[m]	Y[m]	Z[m]	Type	Loadvalue
Area			-1.675	12.000	-2.975	PXX	0.00 [kN/m2]
			-1.675	0.000	-2.975		0.00 [kN/m2]
			-1.675	0.000	-0.175		25.75 [kN/m2]
			-1.675	12.000	-0.175		25.75 [kN/m2]
	QGRP 2	1.000			activated		100.00 percent
Area			1.675	12.000	-1.675	PXX	0.00 [kN/m2]
			1.675	0.000	-1.675		0.00 [kN/m2]
			1.675	0.000	-0.175		-13.79 [kN/m2]
			1.675	12.000	-0.175		-13.79 [kN/m2]
	QGRP 3	1.000			activated		100.00 percent
Area			1.675	0.000	-1.675	Pz	-2.04 [kN/m2]
			1.675	12.000	-1.675		-2.04 [kN/m2]
			1.675	12.000	-0.175		-2.04 [kN/m2]
			1.675	0.000	-0.175		-2.04 [kN/m2]
	QGRP 3				activated		100.00 percent
Area			-1.675	0.000	-2.975	Pz	-2.04 [kN/m2]
			-1.675	12.000	-2.975		-2.04 [kN/m2]
			-1.675	12.000	-0.175		-2.04 [kN/m2]
			-1.675	0.000	-0.175		-2.04 [kN/m2]
	QGRP 2				activated		100.00 percent
Area			-1.675	0.000	0.000	PXX	-3.27 [kN/m2]
			-1.675	0.000	-2.975		-3.27 [kN/m2]
			-1.675	12.000	-2.975		-3.27 [kN/m2]
			-1.675	12.000	0.000		-3.27 [kN/m2]
	QGRP 2		(--)		activated		94.12 percent
Area			1.675	0.000	0.000	PXX	-1.92 [kN/m2]
			1.675	0.000	-1.675		-1.92 [kN/m2]
			1.675	12.000	-1.675		-1.92 [kN/m2]
			1.675	12.000	0.000		-1.92 [kN/m2]
	QGRP 3		(--)		activated		89.55 percent

Load Case 2126 ΣΕΙΣΜΟΣ -0.3EX-0.3EY+1.0EZ

Factor forces and moments		1.000
Factor dead weight	DL-XX	-0.216
Factor dead weight	DL-YY	-0.216
Factor dead weight	DL-ZZ	1.778
Loads partially copied from load case		3 with factor 1.000
Loads partially copied from load case		5 with factor 0.200
Loads partially copied from load case		14 with factor 0.300

Meshfree Loading

Kind	Referenceto	Projection W[m]	Coordinates X[m]	Y[m]	Z[m]	Type	Loadvalue
Area			-1.675	12.000	-2.975	PXX	0.00 [kN/m2]
			-1.675	0.000	-2.975		0.00 [kN/m2]
			-1.675	0.000	-0.175		25.75 [kN/m2]
			-1.675	12.000	-0.175		25.75 [kN/m2]
	QGRP 2	1.000			activated		100.00 percent
Area			1.675	12.000	-1.675	PXX	0.00 [kN/m2]
			1.675	0.000	-1.675		0.00 [kN/m2]
			1.675	0.000	-0.175		-13.79 [kN/m2]
			1.675	12.000	-0.175		-13.79 [kN/m2]
	QGRP 3	1.000			activated		100.00 percent
Area			1.675	0.000	-1.675	Pz	-2.04 [kN/m2]
			1.675	12.000	-1.675		-2.04 [kN/m2]
			1.675	12.000	-0.175		-2.04 [kN/m2]
			1.675	0.000	-0.175		-2.04 [kN/m2]
	QGRP 3				activated		100.00 percent
Area			-1.675	0.000	-2.975	Pz	-2.04 [kN/m2]
			-1.675	12.000	-2.975		-2.04 [kN/m2]
			-1.675	12.000	-0.175		-2.04 [kN/m2]

ΤΑΦΡΟΣ Τ1 (3.00x2.80x1.50)m
ΔΙΑΣΤΑΣΙΟΛΟΓΗΣΗ ULS-SEISMIKA QH=1.00/QV=1.00

Meshfree Loading

Kind	Referenceto	Projection W[m]	Coordinates X[m]	Y[m]	Z[m]	Type	Loadvalue
			-1.675	0.000	-0.175		-2.04 [kN/m2]
	QGRP 2				activated		100.00 percent
Area			-1.675	0.000	0.000	PXX	-3.27 [kN/m2]
			-1.675	0.000	-2.975		-3.27 [kN/m2]
			-1.675	12.000	-2.975		-3.27 [kN/m2]
			-1.675	12.000	0.000		-3.27 [kN/m2]
	QGRP 2		(--)		activated		94.12 percent
Area			1.675	0.000	0.000	PXX	-1.92 [kN/m2]
			1.675	0.000	-1.675		-1.92 [kN/m2]
			1.675	12.000	-1.675		-1.92 [kN/m2]
			1.675	12.000	0.000		-1.92 [kN/m2]
	QGRP 3		(--)		activated		89.55 percent

Load Case 2127 ΣΕΙΣΜΟΣ -0.3EX-0.3EY-1.0EZ

Factor forces and moments		1.000
Factor dead weight	DL-XX	-0.216
Factor dead weight	DL-YY	-0.216
Factor dead weight	DL-ZZ	0.222
Loads partially copied from load case		3 with factor 1.000
Loads partially copied from load case		5 with factor 0.200
Loads partially copied from load case		14 with factor 0.300

Meshfree Loading

Kind	Referenceto	Projection W[m]	Coordinates X[m]	Y[m]	Z[m]	Type	Loadvalue
Area			-1.675	12.000	-2.975	PXX	0.00 [kN/m2]
			-1.675	0.000	-2.975		0.00 [kN/m2]
			-1.675	0.000	-0.175		25.75 [kN/m2]
			-1.675	12.000	-0.175		25.75 [kN/m2]
	QGRP 2	1.000			activated		100.00 percent
Area			1.675	12.000	-1.675	PXX	0.00 [kN/m2]
			1.675	0.000	-1.675		0.00 [kN/m2]
			1.675	0.000	-0.175		-13.79 [kN/m2]
			1.675	12.000	-0.175		-13.79 [kN/m2]
	QGRP 3	1.000			activated		100.00 percent
Area			1.675	0.000	-1.675	Pz	-2.04 [kN/m2]
			1.675	12.000	-1.675		-2.04 [kN/m2]
			1.675	12.000	-0.175		-2.04 [kN/m2]
			1.675	0.000	-0.175		-2.04 [kN/m2]
	QGRP 3				activated		100.00 percent
Area			-1.675	0.000	-2.975	Pz	-2.04 [kN/m2]
			-1.675	12.000	-2.975		-2.04 [kN/m2]
			-1.675	12.000	-0.175		-2.04 [kN/m2]
			-1.675	0.000	-0.175		-2.04 [kN/m2]
	QGRP 2				activated		100.00 percent
Area			-1.675	0.000	0.000	PXX	-3.27 [kN/m2]
			-1.675	0.000	-2.975		-3.27 [kN/m2]
			-1.675	12.000	-2.975		-3.27 [kN/m2]
			-1.675	12.000	0.000		-3.27 [kN/m2]
	QGRP 2		(--)		activated		94.12 percent
Area			1.675	0.000	0.000	PXX	-1.92 [kN/m2]
			1.675	0.000	-1.675		-1.92 [kN/m2]
			1.675	12.000	-1.675		-1.92 [kN/m2]
			1.675	12.000	0.000		-1.92 [kN/m2]
	QGRP 3		(--)		activated		89.55 percent

Load Case 2128 ΣΕΙΣΜΟΣ -0.3EX+0.3EY-1.0EZ

Factor forces and moments		1.000
Factor dead weight	DL-XX	-0.216
Factor dead weight	DL-YY	0.216
Factor dead weight	DL-ZZ	0.222
Loads partially copied from load case		3 with factor 1.000
Loads partially copied from load case		5 with factor 0.200
Loads partially copied from load case		14 with factor 0.300

Meshfree Loading

Kind	Referenceto	Projection W[m]	Coordinates X[m]	Y[m]	Z[m]	Type	Loadvalue
Area			-1.675	12.000	-2.975	PXX	0.00 [kN/m2]
			-1.675	0.000	-2.975		0.00 [kN/m2]
			-1.675	0.000	-0.175		25.75 [kN/m2]
			-1.675	12.000	-0.175		25.75 [kN/m2]
	QGRP 2	1.000			activated		100.00 percent
Area			1.675	12.000	-1.675	PXX	0.00 [kN/m2]
			1.675	0.000	-1.675		0.00 [kN/m2]
			1.675	0.000	-0.175		-13.79 [kN/m2]
			1.675	12.000	-0.175		-13.79 [kN/m2]
	QGRP 3	1.000			activated		100.00 percent

ΤΑΦΡΟΣ Τ1 (3.00x2.80x1.50)m
ΔΙΑΣΤΑΣΙΟΛΟΓΗΣΗ ULS-SEISMIKA QH=1.00/QV=1.00

Meshfree Loading

Kind	Referenceto	Projection W[m]	Coordinates X[m]	Y[m]	Z[m]	Type	Loadvalue
Area			1.675	0.000	-1.675	Pz	-2.04 [kN/m2]
			1.675	12.000	-1.675		-2.04 [kN/m2]
			1.675	12.000	-0.175		-2.04 [kN/m2]
			1.675	0.000	-0.175		-2.04 [kN/m2]
	QGRP	3			activated		100.00 percent
Area			-1.675	0.000	-2.975	Pz	-2.04 [kN/m2]
			-1.675	12.000	-2.975		-2.04 [kN/m2]
			-1.675	12.000	-0.175		-2.04 [kN/m2]
			-1.675	0.000	-0.175		-2.04 [kN/m2]
	QGRP	2			activated		100.00 percent
Area			-1.675	0.000	0.000	PXX	-3.27 [kN/m2]
			-1.675	0.000	-2.975		-3.27 [kN/m2]
			-1.675	12.000	-2.975		-3.27 [kN/m2]
			-1.675	12.000	0.000		-3.27 [kN/m2]
	QGRP	2	(--)		activated		94.12 percent
Area			1.675	0.000	0.000	PXX	-1.92 [kN/m2]
			1.675	0.000	-1.675		-1.92 [kN/m2]
			1.675	12.000	-1.675		-1.92 [kN/m2]
			1.675	12.000	0.000		-1.92 [kN/m2]
	QGRP	3	(--)		activated		89.55 percent

ΤΑΦΡΟΣ Τ1 (3.00x2.80x1.50)m
ΕΠΙΛΥΣΗ ΣΕΙΣΜΙΚΩΝ ΦΟΡΤΙΩΝ (Q=1.00)

Analysis parameters
Calculation with nonlinear material properties

Nonlinear material properties are used for:
Springelements[CRAC,YIEL,MUE,GAP], pilebedding, QUAD-bedding
Only linear material properties are used for:
QUAD- and BRIQ-elements
Truss-, cable-, Beam-, pile- und boundaryelements
Beamelements

Sum of Loads

LC	Title	PXX[kN]	PYY[kN]	PZZ[kN]
2101	ΣΕΙΣΜΟΣ +1.0EX+0.3EY+0.3	1425.9	181.4	1035.9

Iteration sequence

```
Iteration  1 Residual        6.025  energy  12.5940  Step  1-1 f=  1.000

Update nonlinear stiffness
Iteration  2 Residual        0.556  energy  19.4449  Step  2-1 f=  1.102
Iteration  3 Residual        0.013  energy  18.8339  Step  3-1 f=  1.003
Iteration  4 Residual        0.000  energy  18.8335  Step  4-1 f=  1.003
Iteration  5 Residual        0.000  energy  18.8335  Step  5-1 f=  0.995
```

Statistic nonlinear effects:

Statistic nonlinear effects of spring elements: no of elem.: 443
Number of longitudinal springs: 443
Number of torsional springs: 0

```
No. of longitudinal springs with activated      gap:       -
No. of longitudinal springs                  cracked:     260
No. of longitudinal springs                 yielding:       -
 " in the nonlinear part of the stress strain curve:       -
" in the nonlinear part of the spring worklaw curve:       -
No. of transvers springs with activated    friction:       -
No. of transvers springs with activated    cohasion:       -
" in the nonlinear part of the spring worklaw curve:       -
```

Statistic nonlinear QUAD bedding: no. of checked elements: 375

```
Number of elements failed under tension   :       0
Number of elements with activated yielding:       0
Number of elements nonlinear in   friction:       0
Number of elements nonlinear incl.cohasion:       0
```

ΤΑΦΡΟΣ Τ1 (3.00x2.80x1.50)m
ΕΠΙΛΥΣΗ ΣΕΙΣΜΙΚΩΝ ΦΟΡΤΙΩΝ (Q=1.00)

Analysis parameters
Calculation with nonlinear material properties

Nonlinear material properties are used for:
Springelements[CRAC,YIEL,MUE,GAP], pilebedding, QUAD-bedding
Only linear material properties are used for:
QUAD- and BRIQ-elements
Truss-, cable-, Beam-, pile- und boundaryelements
Beamelements

Sum of Loads

LC	Title	PXX[kN]	PYY[kN]	PZZ[kN]
2102	ΣΕΙΣΜΟΣ +1.0EX-0.3EY+0.3	1425.9	-181.4	1035.9

Iteration sequence

```
Iteration  1 Residual        6.023  energy  12.5940  Step  1-1 f=  1.000

Update nonlinear stiffness
Iteration  2 Residual        0.556  energy  19.4453  Step  2-1 f=  1.102
Iteration  3 Residual        0.013  energy  18.8342  Step  3-1 f=  1.003
Iteration  4 Residual        0.000  energy  18.8338  Step  4-1 f=  1.003
Iteration  5 Residual        0.000  energy  18.8338  Step  5-1 f=  0.995
```

Statistic nonlinear effects:

```
Statistic nonlinear effects of spring elements: no of elem.:     443
                              Number of longitudinal springs:     443
                              Number of torsional    springs:       0
        No. of longitudinal springs with activated      gap:       -
        No. of longitudinal springs                 cracked:     260
        No. of longitudinal springs                yielding:       -
         " in the nonlinear part of the stress strain curve:       -
        " in the nonlinear part of the spring worklaw curve:       -
        No. of transvers springs with activated    friction:       -
        No. of transvers springs with activated    cohasion:       -
        " in the nonlinear part of the spring worklaw curve:       -

Statistic nonlinear QUAD bedding:   no. of checked elements:     375
                 Number of elements failed under tension   :       0
                 Number of elements with activated yielding:       0
                 Number of elements nonlinear in   friction:       0
                 Number of elements nonlinear incl.cohasion:       0
```


ΤΑΦΡΟΣ Τ1 (3.00x2.80x1.50)m
ΕΠΙΛΥΣΗ ΣΕΙΣΜΙΚΩΝ ΦΟΡΤΙΩΝ (Q=1.00)

Analysis parameters
Calculation with nonlinear material properties

Nonlinear material properties are used for:
Springelements[CRAC,YIEL,MUE,GAP], pilebedding, QUAD-bedding
Only linear material properties are used for:
QUAD- and BRIQ-elements
Truss-, cable-, Beam-, pile- und boundaryelements
Beamelements

Sum of Loads

LC	Title	PXX[kN]	PYY[kN]	PZZ[kN]
2103	ΣΕΙΣΜΟΣ +1.0EX-0.3EY-0.3	1425.9	-181.4	644.0

Iteration sequence

```
Iteration  1 Residual        6.658  energy   6.6262  Step  1-1 f=  1.000

Update nonlinear stiffness
Iteration  2 Residual        1.441  energy  15.2434  Step  2-1 f=  1.227
Iteration  3 Residual        0.164  energy  13.6986  Step  2-2 f=  0.821
Iteration  4 Residual        0.012  energy  13.6762  Step  3-1 f=  0.818
Iteration  5 Residual        0.001  energy  13.6740  Step  4-1 f=  0.908
Update nonlinear stiffness
Iteration  6 Residual        0.000  energy  13.6738  Step  5-1 f=  0.960
```

Statistic nonlinear effects:

```
Statistic nonlinear effects of spring elements: no of elem.:     443
                              Number of longitudinal springs:     443
                              Number of torsional    springs:       0
        No. of longitudinal springs with activated      gap:       -
        No. of longitudinal springs                 cracked:     260
        No. of longitudinal springs                yielding:       -
         " in the nonlinear part of the stress strain curve:       -
        " in the nonlinear part of the spring worklaw curve:       -
        No. of transvers springs with activated    friction:       -
        No. of transvers springs with activated    cohasion:       -
        " in the nonlinear part of the spring worklaw curve:       -

Statistic nonlinear QUAD bedding:   no. of checked elements:     375
                 Number of elements failed under tension   :      15
                 Number of elements with activated yielding:       0
                 Number of elements nonlinear in   friction:       0
                 Number of elements nonlinear incl.cohasion:       0
```

ΤΑΦΡΟΣ Τ1 (3.00x2.80x1.50)m
ΕΠΙΛΥΣΗ ΣΕΙΣΜΙΚΩΝ ΦΟΡΤΙΩΝ (Q=1.00)

Analysis parameters
Calculation with nonlinear material properties

Nonlinear material properties are used for:
Springelements[CRAC,YIEL,MUE,GAP], pilebedding, QUAD-bedding
Only linear material properties are used for:
QUAD- and BRIQ-elements
Truss-, cable-, Beam-, pile- und boundaryelements
Beamelements

Sum of Loads

LC	Title	PXX[kN]	PYY[kN]	PZZ[kN]
2104	ΣΕΙΣΜΟΣ +1.0EX+0.3EY-0.3	1425.9	181.4	644.0

Iteration sequence

Iteration 1	Residual	6.660	energy	6.6262	Step	1-1	f= 1.000
Update nonlinear stiffness							
Iteration 2	Residual	1.441	energy	15.2430	Step	2-1	f= 1.227
Iteration 3	Residual	0.165	energy	13.6987	Step	2-2	f= 0.821
Iteration 4	Residual	0.012	energy	13.6760	Step	3-1	f= 0.818
Iteration 5	Residual	0.001	energy	13.6737	Step	4-1	f= 0.908
Update nonlinear stiffness							
Iteration 6	Residual	0.000	energy	13.6735	Step	5-1	f= 0.961

Statistic nonlinear effects:

Statistic nonlinear effects of spring elements: no of elem.:	**443**
Number of longitudinal springs:	**443**
Number of torsional springs:	**0**
No. of longitudinal springs with activated gap:	-
No. of longitudinal springs cracked:	260
No. of longitudinal springs yielding:	-
" in the nonlinear part of the stress strain curve:	-
" in the nonlinear part of the spring worklaw curve:	-
No. of transvers springs with activated friction:	-
No. of transvers springs with activated cohasion:	-
" in the nonlinear part of the spring worklaw curve:	-
Statistic nonlinear QUAD bedding: no. of checked elements:	**375**
Number of elements failed under tension :	15
Number of elements with activated yielding:	0
Number of elements nonlinear in friction:	0
Number of elements nonlinear incl.cohasion:	0

ΤΑΦΡΟΣ Τ1 (3.00x2.80x1.50)m
ΕΠΙΛΥΣΗ ΣΕΙΣΜΙΚΩΝ ΦΟΡΤΙΩΝ (Q=1.00)

Analysis parameters
Calculation with nonlinear material properties

Nonlinear material properties are used for:
Springelements[CRAC,YIEL,MUE,GAP], pilebedding, QUAD-bedding
Only linear material properties are used for:
QUAD- and BRIQ-elements
Truss-, cable-, Beam-, pile- und boundaryelements
Beamelements

Sum of Loads

LC	Title	PXX[kN]	PYY[kN]	PZZ[kN]
2111	ΣΕΙΣΜΟΣ +0.3EX+1.0EY+0.3	666.0	604.8	1035.9

Iteration sequence

Iteration 1	Residual	2.838	energy	18.6618	Step	1-1	f= 1.000
Update nonlinear stiffness							
Iteration 2	Residual	10.681	energy	20.1495	Step	2-1	f= 1.015
Iteration 3	Residual	10.681	energy	19.9457	Step	2-2	f= 0.863
Iteration 4	Residual	3.192	energy	19.9809	Step	3-1	f= 0.863
Iteration 5	Residual	0.666	energy	19.9738	Step	3-2	f= 0.796
Update nonlinear stiffness							
Iteration 6	Residual	0.072	energy	20.0125	Step	4-1	f= 0.796
Iteration 7	Residual	0.004	energy	20.0171	Step	5-1	f= 0.895
Iteration 8	Residual	0.000	energy	20.0173	Step	6-1	f= 0.950

Statistic nonlinear effects:

Statistic nonlinear effects of spring elements: no of elem.:	**443**
Number of longitudinal springs:	**443**
Number of torsional springs:	**0**
No. of longitudinal springs with activated gap:	-
No. of longitudinal springs cracked:	260
No. of longitudinal springs yielding:	-
" in the nonlinear part of the stress strain curve:	-
" in the nonlinear part of the spring worklaw curve:	-
No. of transvers springs with activated friction:	-
No. of transvers springs with activated cohasion:	-
" in the nonlinear part of the spring worklaw curve:	-
Statistic nonlinear QUAD bedding: no. of checked elements:	**375**
Number of elements failed under tension :	0
Number of elements with activated yielding:	0
Number of elements nonlinear in friction:	0
Number of elements nonlinear incl.cohasion:	0

ΤΑΦΡΟΣ Τ1 (3.00x2.80x1.50)m
ΕΠΙΛΥΣΗ ΣΕΙΣΜΙΚΩΝ ΦΟΡΤΙΩΝ (Q=1.00)

Analysis parameters
Calculation with nonlinear material properties

Nonlinear material properties are used for:
Springelements[CRAC,YIEL,MUE,GAP], pilebedding, QUAD-bedding
Only linear material properties are used for:
QUAD- and BRIQ-elements
Truss-, cable-, Beam-, pile- und boundaryelements
Beamelements

Sum of Loads

LC	Title	PXX[kN]	PYY[kN]	PZZ[kN]
2112	ΣΕΙΣΜΟΣ +0.3EX-1.0EY+0.3	666.0	-604.8	1035.9

Iteration sequence

Iteration	1	Residual	2.838	energy	18.6618	Step	1-1	f= 1.000
Update nonlinear stiffness								
Iteration	2	Residual	9.199	energy	20.1495	Step	2-1	f= 1.015
Iteration	3	Residual	9.199	energy	19.9480	Step	2-2	f= 0.865
Iteration	4	Residual	1.760	energy	19.9830	Step	3-1	f= 0.865
Iteration	5	Residual	0.253	energy	19.9765	Step	3-2	f= 0.816
Update nonlinear stiffness								
Iteration	6	Residual	0.024	energy	20.0136	Step	4-1	f= 0.816
Iteration	7	Residual	0.001	energy	20.0175	Step	5-1	f= 0.906
Iteration	8	Residual	0.000	energy	20.0177	Step	6-1	f= 0.955

Statistic nonlinear effects:

Statistic nonlinear effects of spring elements: no of elem.:	**443**
Number of longitudinal springs:	**443**
Number of torsional springs:	**0**
No. of longitudinal springs with activated gap:	-
No. of longitudinal springs cracked:	260
No. of longitudinal springs yielding:	-
" in the nonlinear part of the stress strain curve:	-
" in the nonlinear part of the spring worklaw curve:	-
No. of transvers springs with activated friction:	-
No. of transvers springs with activated cohasion:	-
" in the nonlinear part of the spring worklaw curve:	-
Statistic nonlinear QUAD bedding: no. of checked elements:	**375**
Number of elements failed under tension :	0
Number of elements with activated yielding:	0
Number of elements nonlinear in friction:	0
Number of elements nonlinear incl.cohasion:	0

ΤΑΦΡΟΣ Τ1 (3.00x2.80x1.50)m
ΕΠΙΛΥΣΗ ΣΕΙΣΜΙΚΩΝ ΦΟΡΤΙΩΝ (Q=1.00)

Analysis parameters
Calculation with nonlinear material properties

Nonlinear material properties are used for:
Springelements[CRAC,YIEL,MUE,GAP], pilebedding, QUAD-bedding
Only linear material properties are used for:
QUAD- and BRIQ-elements
Truss-, cable-, Beam-, pile- und boundaryelements
Beamelements

Sum of Loads

LC	Title	PXX[kN]	PYY[kN]	PZZ[kN]
2113	ΣΕΙΣΜΟΣ +0.3EX-1.0EY-0.3	666.0	-604.8	644.0

Iteration sequence

Iteration	1	Residual	3.464	energy	12.6866	Step	1-1	f= 1.000
Update nonlinear stiffness								
Iteration	2	Residual	0.069	energy	14.4607	Step	2-1	f= 1.025
Iteration	3	Residual	0.002	energy	14.4246	Step	3-1	f= 1.003
Iteration	4	Residual	0.000	energy	14.4246	Step	4-1	f= 1.002

Statistic nonlinear effects:

Statistic nonlinear effects of spring elements: no of elem.:	**443**
Number of longitudinal springs:	**443**
Number of torsional springs:	**0**
No. of longitudinal springs with activated gap:	-
No. of longitudinal springs cracked:	260
No. of longitudinal springs yielding:	-
" in the nonlinear part of the stress strain curve:	-
" in the nonlinear part of the spring worklaw curve:	-
No. of transvers springs with activated friction:	-
No. of transvers springs with activated cohasion:	-
" in the nonlinear part of the spring worklaw curve:	-
Statistic nonlinear QUAD bedding: no. of checked elements:	**375**
Number of elements failed under tension :	0
Number of elements with activated yielding:	0
Number of elements nonlinear in friction:	0
Number of elements nonlinear incl.cohasion:	0

ΤΑΦΡΟΣ Τ1 (3.00x2.80x1.50)m
ΕΠΙΛΥΣΗ ΣΕΙΣΜΙΚΩΝ ΦΟΡΤΙΩΝ (Q=1.00)

Analysis parameters
Calculation with nonlinear material properties

Nonlinear material properties are used for:
Springelements[CRAC,YIEL,MUE,GAP], pilebedding, QUAD-bedding
Only linear material properties are used for:
QUAD- and BRIQ-elements
Truss-, cable-, Beam-, pile- und boundaryelements
Beamelements

Sum of Loads

LC	Title	PXX[kN]	PYY[kN]	PZZ[kN]
2114	ΣΕΙΣΜΟΣ +0.3EX+1.0EY-0.3	666.0	604.8	644.0

Iteration sequence

```
Iteration  1 Residual        3.464  energy  12.6866  Step  1-1 f=  1.000

Update nonlinear stiffness
Iteration  2 Residual        0.069  energy  14.4602  Step  2-1 f=  1.025
Iteration  3 Residual        0.002  energy  14.4241  Step  3-1 f=  1.003
Iteration  4 Residual        0.000  energy  14.4241  Step  4-1 f=  1.002
```

Statistic nonlinear effects:

```
Statistic nonlinear effects of spring elements: no of elem.:      443
                                Number of longitudinal springs:   443
                                Number of torsional    springs:     0
        No. of longitudinal springs with activated      gap:       -
        No. of longitudinal springs                  cracked:     260
        No. of longitudinal springs                 yielding:       -
         " in the nonlinear part of the stress strain curve:       -
        " in the nonlinear part of the spring worklaw curve:       -
        No. of transvers springs with activated    friction:       -
        No. of transvers springs with activated    cohasion:       -
        " in the nonlinear part of the spring worklaw curve:       -

Statistic nonlinear QUAD bedding:   no. of checked elements:      375
                Number of elements failed under tension   :        0
                Number of elements with activated yielding:        0
                Number of elements nonlinear in   friction:       0
                Number of elements nonlinear incl.cohasion:        0
```


ΤΑΦΡΟΣ Τ1 (3.00x2.80x1.50)m
ΕΠΙΛΥΣΗ ΣΕΙΣΜΙΚΩΝ ΦΟΡΤΙΩΝ (Q=1.00)

Analysis parameters
Calculation with nonlinear material properties

Nonlinear material properties are used for:
Springelements[CRAC,YIEL,MUE,GAP], pilebedding, QUAD-bedding
Only linear material properties are used for:
QUAD- and BRIQ-elements
Truss-, cable-, Beam-, pile- und boundaryelements
Beamelements

Sum of Loads

LC	Title	PXX[kN]	PYY[kN]	PZZ[kN]
2121	ΣΕΙΣΜΟΣ +0.3EX+0.3EY+1.0	666.0	181.4	1493.2

Iteration sequence

```
Iteration  1 Residual        1.974  energy  21.5333  Step  1-1 f=  1.000

Update nonlinear stiffness
Iteration  2 Residual        8.430  energy  22.6435  Step  2-1 f=  1.012
Iteration  3 Residual        8.430  energy  22.4334  Step  2-2 f=  0.811
Iteration  4 Residual        2.483  energy  22.4868  Step  3-1 f=  0.813
Iteration  5 Residual        0.311  energy  22.4743  Step  3-2 f=  0.767
Update nonlinear stiffness
Iteration  6 Residual        0.039  energy  22.5234  Step  4-1 f=  0.767
Iteration  7 Residual        0.002  energy  22.5302  Step  5-1 f=  0.879
Iteration  8 Residual        0.000  energy  22.5306  Step  6-1 f=  0.941
```

Statistic nonlinear effects:

```
Statistic nonlinear effects of spring elements: no of elem.:      443
                                Number of longitudinal springs:   443
                                Number of torsional    springs:     0
        No. of longitudinal springs with activated      gap:       -
        No. of longitudinal springs                  cracked:     260
        No. of longitudinal springs                 yielding:       -
         " in the nonlinear part of the stress strain curve:       -
        " in the nonlinear part of the spring worklaw curve:       -
        No. of transvers springs with activated    friction:       -
        No. of transvers springs with activated    cohasion:       -
        " in the nonlinear part of the spring worklaw curve:       -

Statistic nonlinear QUAD bedding:   no. of checked elements:      375
                Number of elements failed under tension   :        0
                Number of elements with activated yielding:        0
                Number of elements nonlinear in   friction:       0
                Number of elements nonlinear incl.cohasion:        0
```

ΤΑΦΡΟΣ Τ1 (3.00x2.80x1.50)m
ΕΠΙΛΥΣΗ ΣΕΙΣΜΙΚΩΝ ΦΟΡΤΙΩΝ (Q=1.00)

Analysis parameters
Calculation with nonlinear material properties

Nonlinear material properties are used for:
Springelements[CRAC,YIEL,MUE,GAP], pilebedding, QUAD-bedding
Only linear material properties are used for:
QUAD- and BRIQ-elements
Truss-, cable-, Beam-, pile- und boundaryelements
Beamelements

Sum of Loads

LC	Title	PXX[kN]	PYY[kN]	PZZ[kN]
2122	ΣΕΙΣΜΟΣ +0.3EX-0.3EY+1.0	666.0	-181.4	1493.2

Iteration sequence

Iteration	1	Residual	1.972	energy	21.5333	Step	1-1	f= 1.000
Update nonlinear stiffness								
Iteration	2	Residual	8.319	energy	22.6435	Step	2-1	f= 1.012
Iteration	3	Residual	8.319	energy	22.4335	Step	2-2	f= 0.811
Iteration	4	Residual	2.484	energy	22.4869	Step	3-1	f= 0.813
Iteration	5	Residual	0.332	energy	22.4744	Step	3-2	f= 0.767
Update nonlinear stiffness								
Iteration	6	Residual	0.041	energy	22.5235	Step	4-1	f= 0.767
Iteration	7	Residual	0.003	energy	22.5302	Step	5-1	f= 0.879
Iteration	8	Residual	0.000	energy	22.5307	Step	6-1	f= 0.941

Statistic nonlinear effects:

Statistic nonlinear effects of spring elements: no of elem.:	**443**
Number of longitudinal springs:	**443**
Number of torsional springs:	**0**
No. of longitudinal springs with activated gap:	-
No. of longitudinal springs cracked:	260
No. of longitudinal springs yielding:	-
" in the nonlinear part of the stress strain curve:	-
" in the nonlinear part of the spring worklaw curve:	-
No. of transvers springs with activated friction:	-
No. of transvers springs with activated cohasion:	-
" in the nonlinear part of the spring worklaw curve:	-
Statistic nonlinear QUAD bedding: no. of checked elements:	**375**
Number of elements failed under tension :	0
Number of elements with activated yielding:	0
Number of elements nonlinear in friction:	0
Number of elements nonlinear incl.cohasion:	0

ΤΑΦΡΟΣ Τ1 (3.00x2.80x1.50)m
ΕΠΙΛΥΣΗ ΣΕΙΣΜΙΚΩΝ ΦΟΡΤΙΩΝ (Q=1.00)

Analysis parameters
Calculation with nonlinear material properties

Nonlinear material properties are used for:
Springelements[CRAC,YIEL,MUE,GAP], pilebedding, QUAD-bedding
Only linear material properties are used for:
QUAD- and BRIQ-elements
Truss-, cable-, Beam-, pile- und boundaryelements
Beamelements

Sum of Loads

LC	Title	PXX[kN]	PYY[kN]	PZZ[kN]
2123	ΣΕΙΣΜΟΣ +0.3EX-0.3EY-1.0	666.0	-181.4	186.8

Iteration sequence

Iteration	1	Residual	4.053	energy	1.6162	Step	1-1	f= 1.000
Update nonlinear stiffness								
Iteration	2	Residual	1.069	energy	4.5004	Step	2-1	f= 1.275
Iteration	3	Residual	0.560	energy	4.0051	Step	2-2	f= 0.828
Iteration	4	Residual	0.251	energy	3.9315	Step	3-1	f= 0.820
Iteration	5	Residual	0.116	energy	3.9313	Step	4-1	f= 1.306
Update nonlinear stiffness								
Iteration	6	Residual	0.068	energy	3.9470	Step	5-1	f= 1.958
Iteration	7	Residual	0.038	energy	3.9405	Step	5-2	f= 0.585
Iteration	8	Residual	0.009	energy	3.9399	Step	6-1	f= 0.581
Iteration	9	Residual	0.001	energy	3.9397	Step	7-1	f= 0.763
Iteration	10	Residual	0.000	energy	3.9397	Step	8-1	f= 0.887

Statistic nonlinear effects:

Statistic nonlinear effects of spring elements: no of elem.:	**443**
Number of longitudinal springs:	**443**
Number of torsional springs:	**0**
No. of longitudinal springs with activated gap:	-
No. of longitudinal springs cracked:	260
No. of longitudinal springs yielding:	-
" in the nonlinear part of the stress strain curve:	-
" in the nonlinear part of the spring worklaw curve:	-
No. of transvers springs with activated friction:	-
No. of transvers springs with activated cohasion:	-
" in the nonlinear part of the spring worklaw curve:	-
Statistic nonlinear QUAD bedding: no. of checked elements:	**375**
Number of elements failed under tension :	156
Number of elements with activated yielding:	0
Number of elements nonlinear in friction:	0
Number of elements nonlinear incl.cohasion:	0

ΤΑΦΡΟΣ Τ1 (3.00x2.80x1.50)m
ΕΠΙΛΥΣΗ ΣΕΙΣΜΙΚΩΝ ΦΟΡΤΙΩΝ (Q=1.00)

Analysis parameters
Calculation with nonlinear material properties

Nonlinear material properties are used for:
Springelements[CRAC,YIEL,MUE,GAP], pilebedding, QUAD-bedding
Only linear material properties are used for:
QUAD- and BRIQ-elements
Truss-, cable-, Beam-, pile- und boundaryelements
Beamelements

Sum of Loads

LC	Title	PXX[kN]	PYY[kN]	PZZ[kN]
2124	ΣΕΙΣΜΟΣ +0.3EX+0.3EY-1.0	666.0	181.4	186.8

Iteration sequence

Iteration 1	Residual	4.053	energy	1.6162	Step	1-1	f= 1.000
Update nonlinear stiffness							
Iteration 2	Residual	1.069	energy	4.5002	Step	2-1	f= 1.275
Iteration 3	Residual	0.565	energy	4.0051	Step	2-2	f= 0.828
Iteration 4	Residual	0.254	energy	3.9315	Step	3-1	f= 0.820
Iteration 5	Residual	0.121	energy	3.9314	Step	4-1	f= 1.309
Update nonlinear stiffness							
Iteration 6	Residual	0.069	energy	3.9473	Step	5-1	f= 1.964
Iteration 7	Residual	0.037	energy	3.9407	Step	5-2	f= 0.584
Iteration 8	Residual	0.009	energy	3.9401	Step	6-1	f= 0.580
Iteration 9	Residual	0.001	energy	3.9399	Step	7-1	f= 0.760
Iteration 10	Residual	0.000	energy	3.9399	Step	8-1	f= 0.882

Statistic nonlinear effects:

Statistic nonlinear effects of spring elements: no of elem.:	**443**
Number of longitudinal springs:	**443**
Number of torsional springs:	**0**
No. of longitudinal springs with activated gap:	-
No. of longitudinal springs cracked:	260
No. of longitudinal springs yielding:	-
" in the nonlinear part of the stress strain curve:	-
" in the nonlinear part of the spring worklaw curve:	-
No. of transvers springs with activated friction:	-
No. of transvers springs with activated cohasion:	-
" in the nonlinear part of the spring worklaw curve:	-

Statistic nonlinear QUAD bedding: no. of checked elements:	**375**
Number of elements failed under tension :	156
Number of elements with activated yielding:	0
Number of elements nonlinear in friction:	0
Number of elements nonlinear incl.cohasion:	0

ΤΑΦΡΟΣ Τ1 (3.00x2.80x1.50)m
ΕΠΙΛΥΣΗ ΣΕΙΣΜΙΚΩΝ ΦΟΡΤΙΩΝ (Q=1.00)

Analysis parameters
Calculation with nonlinear material properties

Nonlinear material properties are used for:
Springelements[CRAC,YIEL,MUE,GAP], pilebedding, QUAD-bedding
Only linear material properties are used for:
QUAD- and BRIQ-elements
Truss-, cable-, Beam-, pile- und boundaryelements
Beamelements

Sum of Loads

LC	Title	PXX[kN]	PYY[kN]	PZZ[kN]
2105	ΣΕΙΣΜΟΣ -1.0EX+0.3EY+0.3	-745.4	181.4	1035.9

Iteration sequence

Iteration 1	Residual	5.108	energy	11.0377	Step	1-1	f= 1.000
Update nonlinear stiffness							
Iteration 2	Residual	0.116	energy	11.8628	Step	2-1	f= 1.025
Iteration 3	Residual	0.000	energy	11.8440	Step	3-1	f= 1.002
Iteration 4	Residual	0.000	energy	11.8440	Step	4-1	f= 1.001

Statistic nonlinear effects:

Statistic nonlinear effects of spring elements: no of elem.:	**443**
Number of longitudinal springs:	**443**
Number of torsional springs:	**0**
No. of longitudinal springs with activated gap:	-
No. of longitudinal springs cracked:	183
No. of longitudinal springs yielding:	-
" in the nonlinear part of the stress strain curve:	-
" in the nonlinear part of the spring worklaw curve:	-
No. of transvers springs with activated friction:	-
No. of transvers springs with activated cohasion:	-
" in the nonlinear part of the spring worklaw curve:	-

Statistic nonlinear QUAD bedding: no. of checked elements:	**375**
Number of elements failed under tension :	0
Number of elements with activated yielding:	0
Number of elements nonlinear in friction:	0
Number of elements nonlinear incl.cohasion:	0

ΤΑΦΡΟΣ Τ1 (3.00x2.80x1.50)m
ΕΠΙΛΥΣΗ ΣΕΙΣΜΙΚΩΝ ΦΟΡΤΙΩΝ (Q=1.00)

Analysis parameters
Calculation with nonlinear material properties

Nonlinear material properties are used for:
Springelements[CRAC,YIEL,MUE,GAP], pilebedding, QUAD-bedding
Only linear material properties are used for:
QUAD- and BRIQ-elements
Truss-, cable-, Beam-, pile- und boundaryelements
Beamelements

Sum of Loads

LC	Title	PXX[kN]	PYY[kN]	PZZ[kN]
2106	ΣΕΙΣΜΟΣ -1.0EX-0.3EY+0.3	-745.4	-181.4	1035.9

Iteration sequence

Iteration	1	Residual	5.158	energy	11.0376	Step	1-1	f= 1.000
Update nonlinear stiffness								
Iteration	2	Residual	0.116	energy	11.8628	Step	2-1	f= 1.025
Iteration	3	Residual	0.000	energy	11.8440	Step	3-1	f= 1.002
Iteration	4	Residual	0.000	energy	11.8440	Step	4-1	f= 1.001

Statistic nonlinear effects:

Statistic nonlinear effects of spring elements: no of elem.:	**443**
Number of longitudinal springs:	**443**
Number of torsional springs:	**0**
No. of longitudinal springs with activated gap:	-
No. of longitudinal springs cracked:	183
No. of longitudinal springs yielding:	-
" in the nonlinear part of the stress strain curve:	-
" in the nonlinear part of the spring worklaw curve:	-
No. of transvers springs with activated friction:	-
No. of transvers springs with activated cohasion:	-
" in the nonlinear part of the spring worklaw curve:	-

Statistic nonlinear QUAD bedding: no. of checked elements:	**375**
Number of elements failed under tension :	0
Number of elements with activated yielding:	0
Number of elements nonlinear in friction:	0
Number of elements nonlinear incl.cohasion:	0

ΤΑΦΡΟΣ Τ1 (3.00x2.80x1.50)m
ΕΠΙΛΥΣΗ ΣΕΙΣΜΙΚΩΝ ΦΟΡΤΙΩΝ (Q=1.00)

Analysis parameters
Calculation with nonlinear material properties

Nonlinear material properties are used for:
Springelements[CRAC,YIEL,MUE,GAP], pilebedding, QUAD-bedding
Only linear material properties are used for:
QUAD- and BRIQ-elements
Truss-, cable-, Beam-, pile- und boundaryelements
Beamelements

Sum of Loads

LC	Title	PXX[kN]	PYY[kN]	PZZ[kN]
2107	ΣΕΙΣΜΟΣ -1.0EX-0.3EY-0.3	-745.4	-181.4	644.0

Iteration sequence

Iteration	1	Residual	4.795	energy	5.0488	Step	1-1	f= 1.000
Update nonlinear stiffness								
Iteration	2	Residual	0.269	energy	5.9331	Step	2-1	f= 1.059
Iteration	3	Residual	0.001	energy	5.8854	Step	3-1	f= 1.002
Iteration	4	Residual	0.000	energy	5.8854	Step	4-1	f= 1.002

Statistic nonlinear effects:

Statistic nonlinear effects of spring elements: no of elem.:	**443**
Number of longitudinal springs:	**443**
Number of torsional springs:	**0**
No. of longitudinal springs with activated gap:	-
No. of longitudinal springs cracked:	183
No. of longitudinal springs yielding:	-
" in the nonlinear part of the stress strain curve:	-
" in the nonlinear part of the spring worklaw curve:	-
No. of transvers springs with activated friction:	-
No. of transvers springs with activated cohasion:	-
" in the nonlinear part of the spring worklaw curve:	-

Statistic nonlinear QUAD bedding: no. of checked elements:	**375**
Number of elements failed under tension :	0
Number of elements with activated yielding:	0
Number of elements nonlinear in friction:	0
Number of elements nonlinear incl.cohasion:	0

ΤΑΦΡΟΣ Τ1 (3.00x2.80x1.50)m
ΕΠΙΛΥΣΗ ΣΕΙΣΜΙΚΩΝ ΦΟΡΤΙΩΝ (Q=1.00)

Analysis parameters
Calculation with nonlinear material properties

Nonlinear material properties are used for:
Springelements[CRAC,YIEL,MUE,GAP], pilebedding, QUAD-bedding
Only linear material properties are used for:
QUAD- and BRIQ-elements
Truss-, cable-, Beam-, pile- und boundaryelements
Beamelements

Sum of Loads

LC	Title	PXX[kN]	PYY[kN]	PZZ[kN]
2108	ΣΕΙΣΜΟΣ -1.0EX+0.3EY-0.3	-745.4	181.4	644.0

Iteration sequence

Iteration 1 Residual 4.746 energy 5.0489 Step 1-1 f= 1.000

Update nonlinear stiffness
Iteration 2 Residual 0.267 energy 5.9331 Step 2-1 f= 1.059
Iteration 3 Residual 0.001 energy 5.8854 Step 3-1 f= 1.002
Iteration 4 Residual 0.000 energy 5.8854 Step 4-1 f= 1.002

Statistic nonlinear effects:

Statistic nonlinear effects of spring elements: no of elem.: 443
Number of longitudinal springs: 443
Number of torsional springs: 0
No. of longitudinal springs with activated gap: -
No. of longitudinal springs cracked: 183
No. of longitudinal springs yielding: -
" in the nonlinear part of the stress strain curve: -
" in the nonlinear part of the spring worklaw curve: -
No. of transvers springs with activated friction: -
No. of transvers springs with activated cohasion: -
" in the nonlinear part of the spring worklaw curve: -

Statistic nonlinear QUAD bedding: no. of checked elements: 375
Number of elements failed under tension : 0
Number of elements with activated yielding: 0
Number of elements nonlinear in friction: 0
Number of elements nonlinear incl.cohasion: 0

ΤΑΦΡΟΣ Τ1 (3.00x2.80x1.50)m
ΕΠΙΛΥΣΗ ΣΕΙΣΜΙΚΩΝ ΦΟΡΤΙΩΝ (Q=1.00)

Analysis parameters
Calculation with nonlinear material properties

Nonlinear material properties are used for:
Springelements[CRAC,YIEL,MUE,GAP], pilebedding, QUAD-bedding
Only linear material properties are used for:
QUAD- and BRIQ-elements
Truss-, cable-, Beam-, pile- und boundaryelements
Beamelements

Sum of Loads

LC	Title	PXX[kN]	PYY[kN]	PZZ[kN]
2115	ΣΕΙΣΜΟΣ -0.3EX+1.0EY+0.3	14.6	604.8	1035.9

Iteration sequence

Iteration 1 Residual 2.335 energy 18.1949 Step 1-1 f= 1.000

Update nonlinear stiffness
Iteration 2 Residual 2.165 energy 18.2656 Step 2-1 f= 1.002
Iteration 3 Residual 2.165 energy 18.2454 Step 2-2 f= 0.715
Iteration 4 Residual 1.297 energy 18.2541 Step 3-1 f= 0.720
Iteration 5 Residual 0.711 energy 18.2502 Step 3-2 f= 0.553
Iteration 6 Residual 0.447 energy 18.2488 Step 3-3 f= 0.387
Update nonlinear stiffness
Iteration 7 Residual 0.196 energy 18.2559 Step 4-1 f= 0.315
Iteration 8 Residual 0.050 energy 18.2601 Step 5-1 f= 0.561
Iteration 9 Residual 0.010 energy 18.2613 Step 6-1 f= 0.748
Iteration 10 Residual 0.002 energy 18.2615 Step 7-1 f= 0.865
Iteration 11 Residual 0.000 energy 18.2615 Step 8-1 f= 0.930

Statistic nonlinear effects:

Statistic nonlinear effects of spring elements: no of elem.: 443
Number of longitudinal springs: 443
Number of torsional springs: 0
No. of longitudinal springs with activated gap: -
No. of longitudinal springs cracked: 223
No. of longitudinal springs yielding: -
" in the nonlinear part of the stress strain curve: -
" in the nonlinear part of the spring worklaw curve: -
No. of transvers springs with activated friction: -
No. of transvers springs with activated cohasion: -
" in the nonlinear part of the spring worklaw curve: -

Statistic nonlinear QUAD bedding: no. of checked elements: 375
Number of elements failed under tension : 0
Number of elements with activated yielding: 0
Number of elements nonlinear in friction: 0
Number of elements nonlinear incl.cohasion: 0

ΤΑΦΡΟΣ Τ1 (3.00x2.80x1.50)m
ΕΠΙΛΥΣΗ ΣΕΙΣΜΙΚΩΝ ΦΟΡΤΙΩΝ (Q=1.00)

Analysis parameters
Calculation with nonlinear material properties

Nonlinear material properties are used for:
Springelements[CRAC,YIEL,MUE,GAP], pilebedding, QUAD-bedding
Only linear material properties are used for:
QUAD- and BRIQ-elements
Truss-, cable-, Beam-, pile- und boundaryelements
Beamelements

Sum of Loads

LC	Title	PXX[kN]	PYY[kN]	PZZ[kN]
2116	ΣΕΙΣΜΟΣ -0.3EX-1.0EY+0.3	14.6	-604.8	1035.9

Iteration sequence

Iteration	1	Residual	2.500	energy	18.1948	Step	1-1	f= 1.000
Update nonlinear stiffness								
Iteration	2	Residual	2.202	energy	18.2657	Step	2-1	f= 1.002
Iteration	3	Residual	2.202	energy	18.2449	Step	2-2	f= 0.706
Iteration	4	Residual	1.293	energy	18.2538	Step	3-1	f= 0.712
Iteration	5	Residual	0.711	energy	18.2498	Step	3-2	f= 0.555
Iteration	6	Residual	0.495	energy	18.2483	Step	3-3	f= 0.387
Update nonlinear stiffness								
Iteration	7	Residual	0.218	energy	18.2558	Step	4-1	f= 0.315
Iteration	8	Residual	0.055	energy	18.2601	Step	5-1	f= 0.561
Iteration	9	Residual	0.012	energy	18.2613	Step	6-1	f= 0.749
Iteration	10	Residual	0.002	energy	18.2615	Step	7-1	f= 0.866
Iteration	11	Residual	0.000	energy	18.2615	Step	8-1	f= 0.931

Statistic nonlinear effects:

Statistic nonlinear effects of spring elements: no of elem.:	**443**
Number of longitudinal springs:	**443**
Number of torsional springs:	**0**
No. of longitudinal springs with activated gap:	-
No. of longitudinal springs cracked:	223
No. of longitudinal springs yielding:	-
" in the nonlinear part of the stress strain curve:	-
" in the nonlinear part of the spring worklaw curve:	-
No. of transvers springs with activated friction:	-
No. of transvers springs with activated cohasion:	-
" in the nonlinear part of the spring worklaw curve:	-

Statistic nonlinear QUAD bedding: no. of checked elements:	**375**
Number of elements failed under tension :	0
Number of elements with activated yielding:	0
Number of elements nonlinear in friction:	0
Number of elements nonlinear incl.cohasion:	0

ΤΑΦΡΟΣ Τ1 (3.00x2.80x1.50)m
ΕΠΙΛΥΣΗ ΣΕΙΣΜΙΚΩΝ ΦΟΡΤΙΩΝ (Q=1.00)

Analysis parameters
Calculation with nonlinear material properties

Nonlinear material properties are used for:
Springelements[CRAC,YIEL,MUE,GAP], pilebedding, QUAD-bedding
Only linear material properties are used for:
QUAD- and BRIQ-elements
Truss-, cable-, Beam-, pile- und boundaryelements
Beamelements

Sum of Loads

LC	Title	PXX[kN]	PYY[kN]	PZZ[kN]
2117	ΣΕΙΣΜΟΣ -0.3EX-1.0EY-0.3	14.6	-604.8	644.0

Iteration sequence

Iteration	1	Residual	2.137	energy	12.2134	Step	1-1	f= 1.000
Update nonlinear stiffness								
Iteration	2	Residual	0.493	energy	12.2672	Step	2-1	f= 1.002
Iteration	3	Residual	0.220	energy	12.2666	Step	3-1	f= 0.904
Iteration	4	Residual	0.149	energy	12.2669	Step	3-2	f= 0.591
Iteration	5	Residual	0.053	energy	12.2668	Step	4-1	f= 0.506
Update nonlinear stiffness								
Iteration	6	Residual	0.017	energy	12.2668	Step	5-1	f= 0.457
Iteration	7	Residual	0.003	energy	12.2668	Step	6-1	f= 0.678
Iteration	8	Residual	0.000	energy	12.2668	Step	7-1	f= 0.832

Statistic nonlinear effects:

Statistic nonlinear effects of spring elements: no of elem.:	**443**
Number of longitudinal springs:	**443**
Number of torsional springs:	**0**
No. of longitudinal springs with activated gap:	-
No. of longitudinal springs cracked:	350
No. of longitudinal springs yielding:	-
" in the nonlinear part of the stress strain curve:	-
" in the nonlinear part of the spring worklaw curve:	-
No. of transvers springs with activated friction:	-
No. of transvers springs with activated cohasion:	-
" in the nonlinear part of the spring worklaw curve:	-

Statistic nonlinear QUAD bedding: no. of checked elements:	**375**
Number of elements failed under tension :	0
Number of elements with activated yielding:	0
Number of elements nonlinear in friction:	0
Number of elements nonlinear incl.cohasion:	0

ΤΑΦΡΟΣ Τ1 (3.00x2.80x1.50)m
ΕΠΙΛΥΣΗ ΣΕΙΣΜΙΚΩΝ ΦΟΡΤΙΩΝ (Q=1.00)

Analysis parameters
Calculation with nonlinear material properties

Nonlinear material properties are used for:
Springelements[CRAC,YIEL,MUE,GAP], pilebedding, QUAD-bedding
Only linear material properties are used for:
QUAD- and BRIQ-elements
Truss-, cable-, Beam-, pile- und boundaryelements
Beamelements

Sum of Loads

LC	Title	PXX[kN]	PYY[kN]	PZZ[kN]
2118	ΣΕΙΣΜΟΣ -0.3EX+1.0EY-0.3	14.6	604.8	644.0

Iteration sequence

Iteration	1	Residual	1.973	energy	12.2134	Step	1-1	f= 1.000
Update nonlinear stiffness								
Iteration	2	Residual	0.477	energy	12.2671	Step	2-1	f= 1.002
Iteration	3	Residual	0.157	energy	12.2667	Step	3-1	f= 0.905
Iteration	4	Residual	0.142	energy	12.2668	Step	3-2	f= 0.621
Iteration	5	Residual	0.045	energy	12.2668	Step	4-1	f= 0.532
Update nonlinear stiffness								
Iteration	6	Residual	0.011	energy	12.2668	Step	5-1	f= 0.574
Iteration	7	Residual	0.001	energy	12.2668	Step	6-1	f= 0.761
Iteration	8	Residual	0.000	energy	12.2668	Step	7-1	f= 0.880

Statistic nonlinear effects:

Statistic nonlinear effects of spring elements: no of elem.:	**443**
Number of longitudinal springs:	**443**
Number of torsional springs:	**0**
No. of longitudinal springs with activated gap:	-
No. of longitudinal springs cracked:	350
No. of longitudinal springs yielding:	-
" in the nonlinear part of the stress strain curve:	-
" in the nonlinear part of the spring worklaw curve:	-
No. of transvers springs with activated friction:	-
No. of transvers springs with activated cohasion:	-
" in the nonlinear part of the spring worklaw curve:	-
Statistic nonlinear QUAD bedding: no. of checked elements:	**375**
Number of elements failed under tension :	0
Number of elements with activated yielding:	0
Number of elements nonlinear in friction:	0
Number of elements nonlinear incl.cohasion:	0

ΤΑΦΡΟΣ Τ1 (3.00x2.80x1.50)m
ΕΠΙΛΥΣΗ ΣΕΙΣΜΙΚΩΝ ΦΟΡΤΙΩΝ (Q=1.00)

Analysis parameters
Calculation with nonlinear material properties

Nonlinear material properties are used for:
Springelements[CRAC,YIEL,MUE,GAP], pilebedding, QUAD-bedding
Only linear material properties are used for:
QUAD- and BRIQ-elements
Truss-, cable-, Beam-, pile- und boundaryelements
Beamelements

Sum of Loads

LC	Title	PXX[kN]	PYY[kN]	PZZ[kN]
2125	ΣΕΙΣΜΟΣ -0.3EX+0.3EY+1.0	14.6	181.4	1493.2

Iteration sequence

Iteration	1	Residual	2.816	energy	21.0738	Step	1-1	f= 1.000
Update nonlinear stiffness								
Iteration	2	Residual	0.398	energy	21.1608	Step	2-1	f= 1.002
Iteration	3	Residual	0.066	energy	21.1608	Step	3-1	f= 1.017
Iteration	4	Residual	0.003	energy	21.1609	Step	4-1	f= 1.180
Iteration	5	Residual	0.001	energy	21.1609	Step	5-1	f= 1.193

Statistic nonlinear effects:

Statistic nonlinear effects of spring elements: no of elem.:	**443**
Number of longitudinal springs:	**443**
Number of torsional springs:	**0**
No. of longitudinal springs with activated gap:	-
No. of longitudinal springs cracked:	222
No. of longitudinal springs yielding:	-
" in the nonlinear part of the stress strain curve:	-
" in the nonlinear part of the spring worklaw curve:	-
No. of transvers springs with activated friction:	-
No. of transvers springs with activated cohasion:	-
" in the nonlinear part of the spring worklaw curve:	-
Statistic nonlinear QUAD bedding: no. of checked elements:	**375**
Number of elements failed under tension :	0
Number of elements with activated yielding:	0
Number of elements nonlinear in friction:	0
Number of elements nonlinear incl.cohasion:	0

ΤΑΦΡΟΣ Τ1 (3.00x2.80x1.50)m
ΕΠΙΛΥΣΗ ΣΕΙΣΜΙΚΩΝ ΦΟΡΤΙΩΝ (Q=1.00)

Analysis parameters
Calculation with nonlinear material properties

Nonlinear material properties are used for:
Springelements[CRAC,YIEL,MUE,GAP], pilebedding, QUAD-bedding
Only linear material properties are used for:
QUAD- and BRIQ-elements
Truss-, cable-, Beam-, pile- und boundaryelements
Beamelements

Sum of Loads

LC	Title	PXX[kN]	PYY[kN]	PZZ[kN]
2126	ΣΕΙΣΜΟΣ -0.3EX-0.3EY+1.0	14.6	-181.4	1493.2

Iteration sequence

Iteration	1	Residual	2.866	energy	21.0738	Step	1-1	f= 1.000
Update nonlinear stiffness								
Iteration	2	Residual	0.398	energy	21.1608	Step	2-1	f= 1.002
Iteration	3	Residual	0.066	energy	21.1608	Step	3-1	f= 1.017
Iteration	4	Residual	0.003	energy	21.1609	Step	4-1	f= 1.180
Iteration	5	Residual	0.001	energy	21.1609	Step	5-1	f= 1.193

Statistic nonlinear effects:

Statistic nonlinear effects of spring elements: no of elem.:	**443**
Number of longitudinal springs:	**443**
Number of torsional springs:	**0**
No. of longitudinal springs with activated gap:	-
No. of longitudinal springs cracked:	222
No. of longitudinal springs yielding:	-
" in the nonlinear part of the stress strain curve:	-
" in the nonlinear part of the spring worklaw curve:	-
No. of transvers springs with activated friction:	-
No. of transvers springs with activated cohasion:	-
" in the nonlinear part of the spring worklaw curve:	-

Statistic nonlinear QUAD bedding: no. of checked elements:	**375**
Number of elements failed under tension :	0
Number of elements with activated yielding:	0
Number of elements nonlinear in friction:	0
Number of elements nonlinear incl.cohasion:	0

ΤΑΦΡΟΣ Τ1 (3.00x2.80x1.50)m
ΕΠΙΛΥΣΗ ΣΕΙΣΜΙΚΩΝ ΦΟΡΤΙΩΝ (Q=1.00)

Analysis parameters
Calculation with nonlinear material properties

Nonlinear material properties are used for:
Springelements[CRAC,YIEL,MUE,GAP], pilebedding, QUAD-bedding
Only linear material properties are used for:
QUAD- and BRIQ-elements
Truss-, cable-, Beam-, pile- und boundaryelements
Beamelements

Sum of Loads

LC	Title	PXX[kN]	PYY[kN]	PZZ[kN]
2127	ΣΕΙΣΜΟΣ -0.3EX-0.3EY-1.0	14.6	-181.4	186.8

Iteration sequence

Iteration	1	Residual	1.656	energy	1.1356	Step	1-1	f= 1.000
Update nonlinear stiffness								
Iteration	2	Residual	3.082	energy	1.2889	Step	2-1	f= 1.028
Iteration	3	Residual	3.082	energy	1.2205	Step	2-2	f= 0.554
Iteration	4	Residual	0.673	energy	1.2554	Step	3-1	f= 0.661
Iteration	5	Residual	0.294	energy	1.2430	Step	3-2	f= 0.646
Update nonlinear stiffness								
Iteration	6	Residual	1.593	energy	1.2741	Step	4-1	f= 0.510
Iteration	7	Residual	0.231	energy	1.2523	Step	4-2	f= 0.299
Iteration	8	Residual	1.307	energy	1.2702	Step	5-1	f= 0.418
Iteration	9	Residual	0.352	energy	1.2598	Step	5-2	f= 0.418
Iteration	10	Residual	0.407	energy	1.2676	Step	6-1	f= 0.453
Iteration	11	Residual	0.199	energy	1.2633	Step	6-2	f= 0.445
Update nonlinear stiffness								
Iteration	12	Residual	0.076	energy	1.2703	Step	7-1	f= 0.381
Iteration	13	Residual	0.016	energy	1.2738	Step	8-1	f= 0.618
Iteration	14	Residual	0.003	energy	1.2746	Step	9-1	f= 0.787
Iteration	15	Residual	0.000	energy	1.2747	Step	10-1	f= 0.888

Statistic nonlinear effects:

Statistic nonlinear effects of spring elements: no of elem.:	**443**
Number of longitudinal springs:	**443**
Number of torsional springs:	**0**
No. of longitudinal springs with activated gap:	-
No. of longitudinal springs cracked:	300
No. of longitudinal springs yielding:	-
" in the nonlinear part of the stress strain curve:	-
" in the nonlinear part of the spring worklaw curve:	-
No. of transvers springs with activated friction:	-
No. of transvers springs with activated cohasion:	-
" in the nonlinear part of the spring worklaw curve:	-

Statistic nonlinear QUAD bedding: no. of checked elements:	**375**
Number of elements failed under tension :	0
Number of elements with activated yielding:	0
Number of elements nonlinear in friction:	0
Number of elements nonlinear incl.cohasion:	0

ΤΑΦΡΟΣ T1 (3.00x2.80x1.50)m
ΕΠΙΛΥΣΗ ΣΕΙΣΜΙΚΩΝ ΦΟΡΤΙΩΝ (Q=1.00)

Analysis parameters
Calculation with nonlinear material properties

Nonlinear material properties are used for:
Springelements[CRAC,YIEL,MUE,GAP], pilebedding, QUAD-bedding
Only linear material properties are used for:
QUAD- and BRIQ-elements
Truss-, cable-, Beam-, pile- und boundaryelements
Beamelements

Sum of Loads

LC	Title	PXX[kN]	PYY[kN]	PZZ[kN]
2128	ΣΕΙΣΜΟΣ -0.3EX+0.3EY-1.0	14.6	181.4	186.8

Iteration sequence

Iteration 1	Residual	1.607	energy	1.1357	Step	1-1	f= 1.000
Update nonlinear stiffness							
Iteration 2	Residual	3.871	energy	1.2889	Step	2-1	f= 1.028
Iteration 3	Residual	3.871	energy	1.2204	Step	2-2	f= 0.553
Iteration 4	Residual	1.047	energy	1.2553	Step	3-1	f= 0.660
Iteration 5	Residual	0.436	energy	1.2430	Step	3-2	f= 0.648
Iteration 6	Residual	0.307	energy	1.2383	Step	3-3	f= 0.513
Update nonlinear stiffness							
Iteration 7	Residual	2.408	energy	1.2692	Step	4-1	f= 0.442
Iteration 8	Residual	0.659	energy	1.2499	Step	4-2	f= 0.374
Iteration 9	Residual	0.211	energy	1.2670	Step	5-1	f= 0.476
Iteration 10	Residual	0.153	energy	1.2729	Step	6-1	f= 0.624
Iteration 11	Residual	0.127	energy	1.2714	Step	6-2	f= 0.755
Iteration 12	Residual	0.191	energy	1.2748	Step	7-1	f= 0.750
Iteration 13	Residual	0.111	energy	1.2726	Step	7-2	f= 0.345
Update nonlinear stiffness							
Iteration 14	Residual	0.045	energy	1.2738	Step	8-1	f= 0.353
Iteration 15	Residual	0.010	energy	1.2745	Step	9-1	f= 0.595
Iteration 16	Residual	0.001	energy	1.2747	Step	10-1	f= 0.773
Iteration 17	Residual	0.000	energy	1.2747	Step	11-1	f= 0.882

Statistic nonlinear effects:

Statistic nonlinear effects of spring elements: no of elem.:	**443**
Number of longitudinal springs:	**443**
Number of torsional springs:	**0**
No. of longitudinal springs with activated gap:	-
No. of longitudinal springs cracked:	299
No. of longitudinal springs yielding:	-
" in the nonlinear part of the stress strain curve:	-
" in the nonlinear part of the spring worklaw curve:	-
No. of transvers springs with activated friction:	-
No. of transvers springs with activated cohasion:	-
" in the nonlinear part of the spring worklaw curve:	-
Statistic nonlinear QUAD bedding: no. of checked elements:	**375**
Number of elements failed under tension :	0
Number of elements with activated yielding:	0
Number of elements nonlinear in friction:	0
Number of elements nonlinear incl.cohasion:	0

ΤΑΦΡΟΣ T1 (3.00x2.80x1.50)m
ΔΙΑΣΤΑΣΙΟΛΟΓΗΣΗ ULS-SEISMIKA (QH=1.00)

Load Cases for the Design

Loadcase 2101	ΣΕΙΣΜΟΣ +1.0EX+0.3EY+0.3 + Bedding stresses for punching design
Loadcase 2102	ΣΕΙΣΜΟΣ +1.0EX-0.3EY+0.3 + Bedding stresses for punching design
Loadcase 2103	ΣΕΙΣΜΟΣ +1.0EX-0.3EY-0.3 + Bedding stresses for punching design
Loadcase 2104	ΣΕΙΣΜΟΣ +1.0EX+0.3EY-0.3 + Bedding stresses for punching design
Loadcase 2105	ΣΕΙΣΜΟΣ -1.0EX+0.3EY+0.3 + Bedding stresses for punching design
Loadcase 2106	ΣΕΙΣΜΟΣ -1.0EX-0.3EY+0.3 + Bedding stresses for punching design
Loadcase 2107	ΣΕΙΣΜΟΣ -1.0EX-0.3EY-0.3 + Bedding stresses for punching design
Loadcase 2108	ΣΕΙΣΜΟΣ -1.0EX+0.3EY-0.3 + Bedding stresses for punching design
Loadcase 2111	ΣΕΙΣΜΟΣ +0.3EX+1.0EY+0.3 + Bedding stresses for punching design
Loadcase 2112	ΣΕΙΣΜΟΣ +0.3EX-1.0EY+0.3 + Bedding stresses for punching design
Loadcase 2113	ΣΕΙΣΜΟΣ +0.3EX-1.0EY-0.3 + Bedding stresses for punching design
Loadcase 2114	ΣΕΙΣΜΟΣ +0.3EX+1.0EY-0.3 + Bedding stresses for punching design
Loadcase 2115	ΣΕΙΣΜΟΣ -0.3EX+1.0EY+0.3 + Bedding stresses for punching design
Loadcase 2116	ΣΕΙΣΜΟΣ -0.3EX-1.0EY+0.3 + Bedding stresses for punching design
Loadcase 2117	ΣΕΙΣΜΟΣ -0.3EX-1.0EY-0.3 + Bedding stresses for punching design
Loadcase 2118	ΣΕΙΣΜΟΣ -0.3EX+1.0EY-0.3 + Bedding stresses for punching design
Loadcase 2121	ΣΕΙΣΜΟΣ +0.3EX+0.3EY+1.0 + Bedding stresses for punching design
Loadcase 2122	ΣΕΙΣΜΟΣ +0.3EX-0.3EY+1.0 + Bedding stresses for punching design
Loadcase 2123	ΣΕΙΣΜΟΣ +0.3EX-0.3EY-1.0 + Bedding stresses for punching design
Loadcase 2124	ΣΕΙΣΜΟΣ +0.3EX+0.3EY-1.0 + Bedding stresses for punching design
Loadcase 2125	ΣΕΙΣΜΟΣ -0.3EX+0.3EY+1.0 + Bedding stresses for punching design
Loadcase 2126	ΣΕΙΣΜΟΣ -0.3EX-0.3EY+1.0 + Bedding stresses for punching design
Loadcase 2127	ΣΕΙΣΜΟΣ -0.3EX-0.3EY-1.0 + Bedding stresses for punching design
Loadcase 2128	ΣΕΙΣΜΟΣ -0.3EX+0.3EY-1.0 + Bedding stresses for punching design

Material (EN 1992-1-1:2004(EC2))

Mat	f-ck [MPa]	f-cr [MPa]	f-yk [MPa]	f-tk [MPa]	f-ctm [MPa]	N [-]	minQ [-]	type
B1	25.0	21.2	500.0	500.0	2.565	10.5	0.20	mainly static
Minimum reinforcement: 0.00 p.c. of stat. req. section								
B2	20.6	17.5	500.0	500.0	2.675	10.0	0.20	mainly static
Minimum reinforcement: 0.80 p.c. of stat. req. section								

Reduction of FC in case of transvers tension = 20.0 [o/o]

Material-safety-factors:

Mat	concr SC1	SC2	steel SS1	SS2
B1	1.88	1.88	1.15	1.15
B2	1.00	1.00	1.00	1.00

At direct supports from the face of the support up to 1.0*d the shear force is reduced.
The maximum shear capacity is checked at the face of the support without reduction.

The punching design has been switched off and must be done separately.
Outside the punching area, the normal slab shear design may increase the,
longitudinal reinforcement up to 0.20% [input CTRL...RO_V].

Geometry (axial covers)

No	he-upper [mm]	hi-upper [mm]	he-lower [mm]	hi-lower [mm]	Elem. height [mm]
1	60	72	80	92	As saved
2	50	62	50	62	As saved

Selection of elements

	from	to	inc	group	GEOMETRY
Element	1001	1999	1	-	1
Element	2001	2999	1	-	2
Element	3001	3999	1	-	2
Element	4001	4999	1	-	2

Reinforcement is saved in the data base file
Number of stored reinforcement-distribution: 4

REINFORCEMENT ACC. TO EN 1992-1-1:2004(EC2) in [cm2/m] upper/lower
General load safety factor - as defined in BEMESS: Gamma-f = 1.00
Shear: stresses VEd/d and VRd,ct/d with d=effective depth = h-hm
Shear index 2m = minimum shear reinforcement

Grp	ELEM No	LC No	MAT No	GEO No	h [m]	Reinforcement main	Reinforcement cross	dphi dir	deg	Shr zon	VEd/d [MPa] VRd,ct/d	Ass [cm2/m2]
1	1001	maximum			0.35			0		1	0.122	
						10.44	2.09	0			0.466	
1	1002	maximum			0.35			0		1	0.153	
						9.89	1.98	0			0.486	
1	1003	maximum			0.35			0		1	0.152	
						9.75	2.00	0			0.492	
1	1004	maximum			0.35			0		1	0.146	
						9.85	2.05	0			0.491	

ΤΑΦΡΟΣ T1 (3.00x2.80x1.50)m
ΔΙΑΣΤΑΣΙΟΛΟΓΗΣΗ ULS-SEISMIKA (QH=1.00)

REINFORCEMENT ACC. TO EN 1992-1-1:2004(EC2) in [cm2/m] upper/lower
General load safety factor - as defined in BEMESS: Gamma-f = 1.00
Shear: stresses VEd/d and VRd,ct/d with d=effective depth = h-hm
Shear index 2m = minimum shear reinforcement

Grp	ELEM No	LC No	MAT No	GEO No	h [m]	Reinforcement main	Reinforcement cross	dphi dir	dphi deg	Shr zon	VEd/d [MPa] VRd,ct/d	Ass [cm2/m2]
1	1005	maximum		0.35				0		1	0.141	
						9.91	2.08	0			0.489	
1	1006	maximum		0.35				0		1	0.138	
						9.91	2.10	0			0.488	
1	1007	maximum		0.35				0		1	0.136	
						9.91	2.10	0			0.488	
1	1008	maximum		0.35				0		1	0.135	
						9.91	2.09	0			0.487	
1	1009	maximum		0.35				0		1	0.134	
						9.91	2.08	0			0.487	
1	1010	maximum		0.35				0		1	0.133	
						9.91	2.06	0			0.487	
1	1011	maximum		0.35				0		1	0.132	
						9.90	2.05	0			0.487	
1	1012	maximum		0.35				0		1	0.131	
						9.90	2.03	0			0.487	
1	1013	maximum		0.35				0		1	0.131	
						9.90	2.02	0			0.487	
1	1014	maximum		0.35				0		1	0.131	
						9.89	2.01	0			0.487	
1	1015	maximum		0.35				0		1	0.132	
						9.90	2.01	0			0.487	
1	1016	maximum		0.35				0		1	0.133	
						9.90	2.02	0			0.487	
1	1017	maximum		0.35				0		1	0.134	
						9.91	2.04	0			0.487	
1	1018	maximum		0.35				0		1	0.135	
						9.92	2.05	0			0.487	
1	1019	maximum		0.35				0		1	0.136	
						9.94	2.07	0			0.488	
1	1020	maximum		0.35				0		1	0.138	
						9.96	2.08	0			0.488	
1	1021	maximum		0.35				0		1	0.141	
						9.96	2.07	0			0.489	
1	1022	maximum		0.35				0		1	0.146	
						9.89	2.04	0			0.491	
1	1023	maximum		0.35				0		1	0.151	
						9.78	1.99	0			0.492	
1	1024	maximum		0.35				0		1	0.152	
						9.92	1.98	0			0.487	
1	1025	maximum		0.35				0		1	0.122	
						10.48	2.10	0			0.466	
1	1026	maximum		0.35				0		1	0.100	
						9.80	1.96	0			0.471	
1	1027	maximum		0.35				0		1	0.110	
						9.34	1.87	0			0.486	
1	1028	maximum		0.35				0		1	0.117	
						8.95	1.91	0			0.492	
1	1029	maximum		0.35				0		1	0.116	
						8.87	1.95	0			0.492	
1	1030	maximum		0.35				0		1	0.112	
						8.91	1.97	0			0.491	
1	1031	maximum		0.35				0		1	0.108	
						8.95	1.99	0			0.490	
1	1032	maximum		0.35				0		1	0.107	
						8.98	1.98	0			0.489	
1	1033	maximum		0.35				0		1	0.105	
						8.99	1.97	0			0.488	
1	1034	maximum		0.35				0		1	0.105	
						9.00	1.96	0			0.488	
1	1035	maximum		0.35				0		1	0.104	
						8.99	1.94	0			0.488	
1	1036	maximum		0.35				0		1	0.104	
						8.98	1.93	0			0.488	
1	1037	maximum		0.35				0		1	0.103	
						8.97	1.91	0			0.488	
1	1038	maximum		0.35				0		1	0.103	
						8.96	1.90	0			0.488	
1	1039	maximum		0.35				0		1	0.103	
						8.96	1.89	0			0.488	
1	1040	maximum		0.35				0		1	0.104	
						8.95	1.88	0			0.488	
1	1041	maximum		0.35				0		1	0.104	
						8.97	1.90	0			0.488	

ΤΑΦΡΟΣ T1 (3.00x2.80x1.50)m
ΔΙΑΣΤΑΣΙΟΛΟΓΗΣΗ ULS-SEISMIKA (QH=1.00)

REINFORCEMENT ACC. TO EN 1992-1-1:2004(EC2) in [cm2/m] upper/lower
General load safety factor - as defined in BEMESS: Gamma-f = 1.00
Shear: stresses VEd/d and VRd,ct/d with d=effective depth = h-hm
Shear index 2m = minimum shear reinforcement

Grp	ELEM No	LC No	MAT No	GEO No	h [m]	Reinforcement main	Reinforcement cross	dphi dir	dphi deg	Shr zon	VEd/d [MPa] VRd,ct/d	Ass [cm2/m2]
1	1042	maximum		0.35				0		1	0.105	
						8.98	1.92	0			0.488	
1	1043	maximum		0.35				0		1	0.105	
						8.99	1.93	0			0.488	
1	1044	maximum		0.35				0		1	0.106	
						8.99	1.95	0			0.489	
1	1045	maximum		0.35				0		1	0.108	
						8.97	1.96	0			0.490	
1	1046	maximum		0.35				0		1	0.111	
						8.94	1.96	0			0.491	
1	1047	maximum		0.35				0		1	0.115	
						8.91	1.94	0			0.492	
1	1048	maximum		0.35				0		1	0.116	
						8.99	1.91	0			0.492	
1	1049	maximum		0.35				0		1	0.109	
						9.39	1.88	0			0.486	
1	1050	maximum		0.35				0		1	0.100	
						9.84	1.97	0			0.471	
1	1051	maximum		0.35		0.01	0.04	0		1	0.086	
						8.82	1.76	0			0.480	
1	1052	maximum		0.35		0.01	0.03	0		1	0.083	
						8.56	1.71	0			0.487	
1	1053	maximum		0.35				0		1	0.089	
						8.23	1.68	0			0.491	
1	1054	maximum		0.35				0		1	0.090	
						8.09	1.83	0			0.493	
1	1055	maximum		0.35				0		1	0.089	
						8.07	1.88	0			0.492	
1	1056	maximum		0.35				0		1	0.088	
						8.10	1.89	0			0.491	
1	1057	maximum		0.35				0		1	0.087	
						8.12	1.88	0			0.490	
1	1058	maximum		0.35				0		1	0.086	
						8.14	1.87	0			0.489	
1	1059	maximum		0.35				0		1	0.086	
						8.14	1.85	0			0.489	
1	1060	maximum		0.35				0		1	0.086	
						8.13	1.83	0			0.489	
1	1061	maximum		0.35				0		1	0.085	
						8.12	1.81	0			0.488	
1	1062	maximum		0.35				0		1	0.085	
						8.10	1.80	0			0.488	
1	1063	maximum		0.35				0		1	0.085	
						8.09	1.78	0			0.488	
1	1064	maximum		0.35				0		1	0.085	
						8.08	1.77	0			0.488	
1	1065	maximum		0.35				0		1	0.085	
						8.08	1.76	0			0.488	
1	1066	maximum		0.35				0		1	0.086	
						8.10	1.78	0			0.488	
1	1067	maximum		0.35				0		1	0.086	
						8.12	1.80	0			0.489	
1	1068	maximum		0.35				0		1	0.087	
						8.13	1.82	0			0.489	
1	1069	maximum		0.35				0		1	0.087	
						8.14	1.84	0			0.490	
1	1070	maximum		0.35				0		1	0.088	
						8.13	1.86	0			0.491	
1	1071	maximum		0.35				0		1	0.089	
						8.11	1.86	0			0.492	
1	1072	maximum		0.35				0		1	0.089	
						8.14	1.82	0			0.493	
1	1073	maximum		0.35				0		1	0.087	
						8.29	1.68	0			0.492	
1	1074	maximum		0.35		0.01	0.03	0		1	0.082	
						8.62	1.72	0			0.487	
1	1075	maximum		0.35		0.01	0.04	0		1	0.086	
						8.87	1.77	0			0.481	
1	1076	maximum		0.35		0.01	0.06	0		1	0.071	
						7.90	1.58	0			0.485	
1	1077	maximum		0.35		0.02	0.09	0		1	0.058	
						7.72	1.54	0			0.487	
1	1078	maximum		0.35		0.01	0.05	0		1	0.061	
						7.53	1.51	0			0.491	

ΤΑΦΡΟΣ T1 (3.00x2.80x1.50)m
ΔΙΑΣΤΑΣΙΟΛΟΓΗΣΗ ULS-SEISMIKA (QH=1.00)

REINFORCEMENT ACC. TO EN 1992-1-1:2004(EC2) in [cm2/m] upper/lower
General load safety factor - as defined in BEMESS: Gamma-f = 1.00
Shear: stresses VEd/d and VRd,ct/d with d=effective depth = h-hm
Shear index 2m = minimum shear reinforcement

Grp	ELEM No	LC No	MAT No	GEO No	h [m]	Reinforcement main	Reinforcement cross	dphi dir	dphi deg	Shr zon	VEd/d [MPa] VRd,ct/d	Ass [cm2/m2]
1	1079	maximum		0.35		0.01	0		1	0.063		
					7.42	1.69	0			0.493		
1	1080	maximum		0.35			0		1	0.063		
					7.39	1.79	0			0.493		
1	1081	maximum		0.35			0		1	0.064		
					7.39	1.81	0			0.492		
1	1082	maximum		0.35			0		1	0.065		
					7.40	1.80	0			0.491		
1	1083	maximum		0.35			0		1	0.065		
					7.40	1.78	0			0.490		
1	1084	maximum		0.35			0		1	0.065		
					7.39	1.76	0			0.489		
1	1085	maximum		0.35			0		1	0.065		
					7.38	1.74	0			0.489		
1	1086	maximum		0.35			0		1	0.065		
					7.36	1.72	0			0.489		
1	1087	maximum		0.35			0		1	0.065		
					7.34	1.71	0			0.489		
1	1088	maximum		0.35			0		1	0.065		
					7.33	1.69	0			0.489		
1	1089	maximum		0.35			0		1	0.065		
					7.32	1.68	0			0.489		
1	1090	maximum		0.35			0		1	0.065		
					7.32	1.67	0			0.489		
1	1091	maximum		0.35			0		1	0.065		
					7.35	1.68	0			0.489		
1	1092	maximum		0.35			0		1	0.065		
					7.37	1.70	0			0.489		
1	1093	maximum		0.35			0		1	0.065		
					7.39	1.73	0			0.489		
1	1094	maximum		0.35			0		1	0.065		
					7.41	1.75	0			0.490		
1	1095	maximum		0.35			0		1	0.064		
					7.42	1.77	0			0.491		
1	1096	maximum		0.35			0		1	0.063		
					7.43	1.76	0			0.492		
1	1097	maximum		0.35		0.01	0		1	0.061		
					7.48	1.68	0			0.493		
1	1098	maximum		0.35	0.01	0.05	0		1	0.060		
					7.59	1.52	0			0.492		
1	1099	maximum		0.35	0.02	0.09	0		1	0.056		
					7.79	1.56	0			0.488		
1	1100	maximum		0.35	0.01	0.06	0		1	0.070		
					7.96	1.59	0			0.486		
1	1101	maximum		0.35	0.01	0.05	0		1	0.069		
					7.36	1.47	0			0.488		
1	1102	maximum		0.35	0.02	0.08	0		1	0.038		
					6.99	1.40	0			0.479		
1	1103	maximum		0.35	0.01	0.04	0		1	0.036		
					6.91	1.38	0			0.487		
1	1104	maximum		0.35			0		1	0.036		
					6.89	1.59	0			0.492		
1	1105	maximum		0.35			0		1	0.038		
					6.87	1.71	0			0.493		
1	1106	maximum		0.35			0		1	0.041		
					6.86	1.74	0			0.492		
1	1107	maximum		0.35			0		1	0.043		
					6.84	1.73	0			0.491		
1	1108	maximum		0.35			0		1	0.044		
					6.82	1.71	0			0.490		
1	1109	maximum		0.35			0		1	0.045		
					6.80	1.69	0			0.490		
1	1110	maximum		0.35			0		1	0.045		
					6.78	1.67	0			0.490		
1	1111	maximum		0.35			0		1	0.045		
					6.76	1.66	0			0.490		
1	1112	maximum		0.35			0		1	0.045		
					6.75	1.65	0			0.489		
1	1113	maximum		0.35			0		1	0.045		
					6.73	1.64	0			0.489		
1	1114	maximum		0.35			0		1	0.045		
					6.72	1.63	0			0.489		
1	1115	maximum		0.35			0		1	0.045		
					6.72	1.62	0			0.489		

ΤΑΦΡΟΣ T1 (3.00x2.80x1.50)m
ΔΙΑΣΤΑΣΙΟΛΟΓΗΣΗ ULS-SEISMIKA (QH=1.00)

REINFORCEMENT ACC. TO EN 1992-1-1:2004(EC2) in [cm2/m] upper/lower
General load safety factor - as defined in BEMESS: Gamma-f = 1.00
Shear: stresses VEd/d and VRd,ct/d with d=effective depth = h-hm
Shear index 2m = minimum shear reinforcement

Grp	ELEM No	LC No	MAT No	GEO No	h [m]	Reinforcement main	Reinforcement cross	dphi dir	dphi deg	Shr zon	VEd/d [MPa] VRd,ct/d	Ass [cm2/m2]
1	1116	maximum		0.35				0		1	0.045	
					6.75	1.62	0			0.489		
1	1117	maximum		0.35				0		1	0.045	
					6.77	1.64	0			0.490		
1	1118	maximum		0.35				0		1	0.045	
					6.81	1.66	0			0.490		
1	1119	maximum		0.35				0		1	0.043	
					6.84	1.68	0			0.490		
1	1120	maximum		0.35				0		1	0.041	
					6.88	1.69	0			0.491		
1	1121	maximum		0.35				0		1	0.038	
					6.92	1.67	0			0.492		
1	1122	maximum		0.35				0		1	0.035	
					6.95	1.56	0			0.492		
1	1123	maximum		0.35	0.01	0.04	0			1	0.034	
					6.99	1.40	0			0.488		
1	1124	maximum		0.35	0.02	0.08	0			1	0.035	
					7.11	1.42	0			0.479		
1	1125	maximum		0.35	0.01	0.05	0			1	0.069	
					7.47	1.49	0			0.489		
1	1126	maximum		0.35		0.02	0			1	0.072	
					7.11	1.42	0			0.489		
1	1127	maximum		0.35				0		1	0.031	
					6.73	1.35	0			0.470		
1	1128	maximum		0.35				0		1	0.033	
					6.49	1.30	0			0.472		
1	1129	maximum		0.35				0		1	0.033	
					6.56	1.53	0			0.487		
1	1130	maximum		0.35				0		1	0.033	
					6.55	1.65	0			0.493		
1	1131	maximum		0.35				0		1	0.032	
					6.51	1.68	0			0.493		
1	1132	maximum		0.35				0		1	0.032	
					6.47	1.68	0			0.492		
1	1133	maximum		0.35				0		1	0.031	
					6.44	1.67	0			0.491		
1	1134	maximum		0.35				0		1	0.031	
					6.41	1.66	0			0.490		
1	1135	maximum		0.35				0		1	0.031	
					6.38	1.65	0			0.490		
1	1136	maximum		0.35				0		1	0.031	
					6.36	1.65	0			0.490		
1	1137	maximum		0.35				0		1	0.031	
					6.35	1.64	0			0.490		
1	1138	maximum		0.35				0		1	0.030	
					6.34	1.64	0			0.490		
1	1139	maximum		0.35				0		1	0.031	
					6.34	1.63	0			0.490		
1	1140	maximum		0.35				0		1	0.031	
					6.33	1.62	0			0.490		
1	1141	maximum		0.35				0		1	0.031	
					6.34	1.60	0			0.490		
1	1142	maximum		0.35				0		1	0.031	
					6.37	1.61	0			0.490		
1	1143	maximum		0.35				0		1	0.031	
					6.41	1.62	0			0.490		
1	1144	maximum		0.35				0		1	0.032	
					6.46	1.63	0			0.490		
1	1145	maximum		0.35				0		1	0.032	
					6.52	1.63	0			0.490		
1	1146	maximum		0.35				0		1	0.033	
					6.58	1.60	0			0.492		
1	1147	maximum		0.35				0		1	0.033	
					6.62	1.49	0			0.493		
1	1148	maximum		0.35				0		1	0.033	
					6.58	1.32	0			0.472		
1	1149	maximum		0.35				0		1	0.031	
					6.90	1.38	0			0.471		
1	1150	maximum		0.35		0.02	0			1	0.071	
					7.27	1.45	0			0.491		
1	1151	maximum		0.35				0		1	0.096	
					6.89	1.38	0			0.484		
1	1152	maximum		0.35				0		1	0.065	
					6.62	1.32	0			0.478		

ΤΑΦΡΟΣ T1 (3.00x2.80x1.50)m
ΔΙΑΣΤΑΣΙΟΛΟΓΗΣΗ ULS-SEISMIKA (QH=1.00)

REINFORCEMENT ACC. TO EN 1992-1-1:2004(EC2) in [cm2/m] upper/lower
General load safety factor - as defined in BEMESS: Gamma-f = 1.00
Shear: stresses VEd/d and VRd,ct/d with d=effective depth = h-hm
Shear index 2m = minimum shear reinforcement

Grp	ELEM No	LC No	MAT No	GEO No	h [m]	Reinforcement main	Reinforcement cross	dphi dir	dphi deg	Shr zon	VEd/d [MPa] VRd,ct/d	Ass [cm2/m2]
1	1153	maximum			0.35			0		1	0.062	
						6.41	1.35	0			0.490	
1	1154	maximum			0.35			0		1	0.061	
						6.47	1.51	0			0.492	
1	1155	maximum			0.35			0		1	0.060	
						6.43	1.61	0			0.492	
1	1156	maximum			0.35			0		1	0.060	
						6.37	1.65	0			0.492	
1	1157	maximum			0.35			0		1	0.059	
						6.31	1.67	0			0.491	
1	1158	maximum			0.35			0		1	0.058	
						6.26	1.67	0			0.491	
1	1159	maximum			0.35			0		1	0.058	
						6.23	1.68	0			0.492	
1	1160	maximum			0.35			0		1	0.058	
						6.21	1.68	0			0.492	
1	1161	maximum			0.35			0		1	0.057	
						6.19	1.69	0			0.492	
1	1162	maximum			0.35			0		1	0.057	
						6.19	1.69	0			0.490	
1	1163	maximum			0.35			0		1	0.056	
						6.18	1.69	0			0.490	
1	1164	maximum			0.35			0		1	0.057	
						6.19	1.68	0			0.490	
1	1165	maximum			0.35			0		1	0.057	
						6.19	1.68	0			0.490	
1	1166	maximum			0.35			0		1	0.058	
						6.20	1.67	0			0.490	
1	1167	maximum			0.35			0		1	0.058	
						6.21	1.65	0			0.491	
1	1168	maximum			0.35			0		1	0.058	
						6.24	1.63	0			0.490	
1	1169	maximum			0.35			0		1	0.059	
						6.27	1.62	0			0.490	
1	1170	maximum			0.35			0		1	0.060	
						6.35	1.60	0			0.490	
1	1171	maximum			0.35			0		1	0.060	
						6.43	1.56	0			0.491	
1	1172	maximum			0.35			0		1	0.061	
						6.51	1.50	0			0.492	
1	1173	maximum			0.35			0		1	0.062	
						6.65	1.46	0			0.491	
1	1174	maximum			0.35			0		1	0.068	
						6.89	1.38	0			0.481	
1	1175	maximum			0.35			0		1	0.094	
						7.12	1.42	0			0.487	
2	2001	maximum			0.35	0.03	0.01	0		1	0.226	
						1.61	8.06	0			0.445	
2	2002	maximum			0.35	0.09	0.02	0		1	0.195	
						1.03	5.13	0			0.443	
2	2003	maximum			0.35	0.13	0.04	0		1	0.152	
						0.58	2.88	0			0.441	
2	2004	maximum			0.35	0.09	0.11	0		1	0.105	
						0.28	1.42	0			0.438	
2	2005	maximum			0.35	0.09	0.10	0		1	0.059	
						0.12	0.60	0			0.436	
2	2006	maximum			0.35	0.07	0.04	0		1	0.028	
						0.09	0.14	0			0.434	
2	2007	maximum			0.35			0		1	0.277	
						1.46	7.29	0			0.452	
2	2008	maximum			0.35	0.14	0.03	0		1	0.196	
						0.97	4.84	0			0.446	
2	2009	maximum			0.35	0.21	0.09	0		1	0.138	
						0.58	2.88	0			0.442	
2	2010	maximum			0.35	0.15	0.16	0		1	0.090	
						0.29	1.44	0			0.439	
2	2011	maximum			0.35	0.17	0.13	0		1	0.049	
						0.16	0.63	0			0.436	
2	2012	maximum			0.35	0.18	0.06	0		1	0.020	
						0.17	0.14	0			0.434	
2	2013	maximum			0.35			0		1	0.292	
						1.46	7.30	0			0.453	
2	2014	maximum			0.35	0.09	0.02	0		1	0.210	
						0.97	4.55	0			0.448	

ΤΑΦΡΟΣ T1 (3.00x2.80x1.50)m
ΔΙΑΣΤΑΣΙΟΛΟΓΗΣΗ ULS-SEISMIKA (QH=1.00)

REINFORCEMENT ACC. TO EN 1992-1-1:2004(EC2) in [cm2/m] upper/lower
General load safety factor - as defined in BEMESS: Gamma-f = 1.00
Shear: stresses VEd/d and VRd,ct/d with d=effective depth = h-hm
Shear index 2m = minimum shear reinforcement

Grp	ELEM No	LC No	MAT No	GEO No	h [m]	Reinforcement main	Reinforcement cross	dphi dir	dphi deg	Shr zon	VEd/d [MPa] VRd,ct/d	Ass [cm2/m2]
2	2015	maximum			0.35	0.23	0.07	0		1	0.147	
						0.62	2.73	0			0.444	
2	2016	maximum			0.35	0.19	0.16	0		1	0.095	
						0.33	1.41	0			0.440	
2	2017	maximum			0.35	0.19	0.15	0		1	0.052	
						0.26	0.66	0			0.436	
2	2018	maximum			0.35	0.24	0.08	0		1	0.020	
						0.24	0.15	0			0.435	
2	2019	maximum			0.35			0		1	0.288	
						1.50	7.51	0			0.451	
2	2020	maximum			0.35	0.08	0.02	0		1	0.215	
						0.92	4.53	0			0.448	
2	2021	maximum			0.35	0.24	0.05	0		1	0.151	
						0.63	2.63	0			0.444	
2	2022	maximum			0.35	0.22	0.17	0		1	0.098	
						0.39	1.34	0			0.440	
2	2023	maximum			0.35	0.20	0.16	0		1	0.054	
						0.33	0.63	0			0.437	
2	2024	maximum			0.35	0.28	0.10	0		1	0.020	
						0.35	0.18	0			0.436	
2	2025	maximum			0.35			0		1	0.282	
						1.51	7.57	0			0.450	
2	2026	maximum			0.35	0.08	0.02	0		1	0.214	
						0.92	4.61	0			0.447	
2	2027	maximum			0.35	0.25	0.05	0		1	0.153	
						0.60	2.61	0			0.444	
2	2028	maximum			0.35	0.23	0.18	0		1	0.100	
						0.40	1.30	0			0.440	
2	2029	maximum			0.35	0.21	0.18	0		1	0.054	
						0.36	0.59	0			0.436	
2	2030	maximum			0.35	0.30	0.11	0		1	0.020	
						0.42	0.18	0			0.435	
2	2031	maximum			0.35			0		1	0.277	
						1.52	7.58	0			0.450	
2	2032	maximum			0.35	0.09	0.02	0		1	0.212	
						0.93	4.67	0			0.446	
2	2033	maximum			0.35	0.27	0.06	0		1	0.152	
						0.58	2.62	0			0.443	
2	2034	maximum			0.35	0.25	0.20	0		1	0.100	
						0.39	1.29	0			0.440	
2	2035	maximum			0.35	0.23	0.20	0		1	0.055	
						0.38	0.57	0			0.436	
2	2036	maximum			0.35	0.28	0.13	0		1	0.020	
						0.45	0.17	0			0.435	
2	2037	maximum			0.35			0		1	0.275	
						1.51	7.57	0			0.449	
2	2038	maximum			0.35	0.10	0.02	0		1	0.210	
						0.94	4.69	0			0.446	
2	2039	maximum			0.35	0.29	0.06	0		1	0.152	
						0.57	2.64	0			0.443	
2	2040	maximum			0.35	0.27	0.21	0		1	0.100	
						0.38	1.29	0			0.440	
2	2041	maximum			0.35	0.25	0.21	0		1	0.055	
						0.38	0.57	0			0.436	
2	2042	maximum			0.35	0.29	0.14	0		1	0.020	
						0.45	0.17	0			0.435	
2	2043	maximum			0.35			0		1	0.273	
						1.51	7.55	0			0.449	
2	2044	maximum			0.35	0.10	0.02	0		1	0.209	
						0.94	4.69	0			0.446	
2	2045	maximum			0.35	0.30	0.06	0		1	0.151	
						0.57	2.66	0			0.443	
2	2046	maximum			0.35	0.28	0.21	0		1	0.099	
						0.38	1.29	0			0.439	
2	2047	maximum			0.35	0.27	0.23	0		1	0.055	
						0.37	0.58	0			0.436	
2	2048	maximum			0.35	0.29	0.15	0		1	0.020	
						0.43	0.18	0			0.434	
2	2049	maximum			0.35			0		1	0.272	
						1.51	7.54	0			0.449	
2	2050	maximum			0.35	0.10	0.02	0		1	0.208	
						0.94	4.68	0			0.446	
2	2051	maximum			0.35	0.31	0.06	0		1	0.150	
						0.57	2.66	0			0.443	

ΤΑΦΡΟΣ T1 (3.00x2.80x1.50)m
ΔΙΑΣΤΑΣΙΟΛΟΓΗΣΗ ULS-SEISMIKA (QH=1.00)

REINFORCEMENT ACC. TO EN 1992-1-1:2004(EC2) in [cm2/m] upper/lower
General load safety factor - as defined in BEMESS: Gamma-f = 1.00
Shear: stresses VEd/d and VRd,ct/d with d=effective depth = h-hm
Shear index 2m = minimum shear reinforcement

Grp	ELEM No	LC No	MAT No	GEO No	h [m]	Reinforcement main	Reinforcement cross	dphi dir	dphi deg	Shr zon	VEd/d [MPa] VRd,ct/d	Ass [cm2/m2]
2	2052	maximum		0.35		0.30	0.22	0		1	0.099	
						0.38	1.30	0			0.439	
2	2053	maximum		0.35		0.28	0.23	0		1	0.055	
						0.36	0.59	0			0.436	
2	2054	maximum		0.35		0.29	0.16	0		1	0.020	
						0.40	0.19	0			0.434	
2	2055	maximum		0.35				0		1	0.272	
						1.50	7.52	0			0.449	
2	2056	maximum		0.35		0.10	0.02	0		1	0.208	
						0.94	4.68	0			0.446	
2	2057	maximum		0.35		0.32	0.06	0		1	0.150	
						0.56	2.66	0			0.442	
2	2058	maximum		0.35		0.32	0.22	0		1	0.099	
						0.38	1.31	0			0.439	
2	2059	maximum		0.35		0.29	0.24	0		1	0.054	
						0.34	0.60	0			0.436	
2	2060	maximum		0.35		0.30	0.18	0		1	0.020	
						0.38	0.19	0			0.433	
2	2061	maximum		0.35				0		1	0.272	
						1.50	7.51	0			0.449	
2	2062	maximum		0.35		0.09	0.02	0		1	0.207	
						0.93	4.67	0			0.446	
2	2063	maximum		0.35		0.35	0.07	0		1	0.150	
						0.56	2.66	0			0.442	
2	2064	maximum		0.35		0.32	0.21	0		1	0.099	
						0.37	1.32	0			0.439	
2	2065	maximum		0.35		0.30	0.24	0		1	0.054	
						0.33	0.60	0			0.436	
2	2066	maximum		0.35		0.30	0.18	0		1	0.020	
						0.35	0.19	0			0.433	
2	2067	maximum		0.35				0		1	0.271	
						1.50	7.50	0			0.449	
2	2068	maximum		0.35		0.08	0.02	0		1	0.207	
						0.93	4.66	0			0.446	
2	2069	maximum		0.35		0.35	0.07	0		1	0.149	
						0.56	2.66	0			0.442	
2	2070	maximum		0.35		0.32	0.21	0		1	0.098	
						0.38	1.32	0			0.439	
2	2071	maximum		0.35		0.32	0.24	0		1	0.054	
						0.33	0.60	0			0.436	
2	2072	maximum		0.35		0.30	0.17	0		1	0.020	
						0.34	0.19	0			0.433	
2	2073	maximum		0.35				0		1	0.271	
						1.50	7.49	0			0.449	
2	2074	maximum		0.35		0.07	0.01	0		1	0.207	
						0.93	4.66	0			0.445	
2	2075	maximum		0.35		0.34	0.07	0		1	0.149	
						0.56	2.66	0			0.442	
2	2076	maximum		0.35		0.32	0.19	0		1	0.098	
						0.38	1.32	0			0.439	
2	2077	maximum		0.35		0.31	0.24	0		1	0.054	
						0.34	0.60	0			0.436	
2	2078	maximum		0.35		0.30	0.17	0		1	0.020	
						0.35	0.19	0			0.433	
2	2079	maximum		0.35				0		1	0.272	
						1.50	7.49	0			0.449	
2	2080	maximum		0.35		0.08	0.02	0		1	0.207	
						0.93	4.66	0			0.446	
2	2081	maximum		0.35		0.35	0.07	0		1	0.149	
						0.56	2.66	0			0.442	
2	2082	maximum		0.35		0.32	0.21	0		1	0.098	
						0.39	1.32	0			0.439	
2	2083	maximum		0.35		0.31	0.24	0		1	0.054	
						0.34	0.60	0			0.436	
2	2084	maximum		0.35		0.31	0.17	0		1	0.020	
						0.36	0.19	0			0.433	
2	2085	maximum		0.35				0		1	0.272	
						1.50	7.50	0			0.449	
2	2086	maximum		0.35		0.09	0.02	0		1	0.207	
						0.93	4.66	0			0.446	
2	2087	maximum		0.35		0.35	0.07	0		1	0.150	
						0.56	2.66	0			0.442	
2	2088	maximum		0.35		0.32	0.21	0		1	0.099	
						0.39	1.32	0			0.439	

ΤΑΦΡΟΣ T1 (3.00x2.80x1.50)m
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REINFORCEMENT ACC. TO EN 1992-1-1:2004(EC2) in [cm2/m] upper/lower
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Grp	ELEM No	LC No	MAT No	GEO No	h [m]	Reinforcement main	Reinforcement cross	dphi dir	dphi deg	Shr zon	VEd/d [MPa] VRd,ct/d	Ass [cm2/m2]
2	2089	maximum		0.35		0.29	0.24	0		1	0.054	
						0.35	0.59	0			0.436	
2	2090	maximum		0.35		0.31	0.18	0		1	0.020	
						0.37	0.18	0			0.433	
2	2091	maximum		0.35				0		1	0.272	
						1.50	7.51	0			0.449	
2	2092	maximum		0.35		0.10	0.02	0		1	0.208	
						0.93	4.67	0			0.446	
2	2093	maximum		0.35		0.32	0.06	0		1	0.150	
						0.56	2.66	0			0.442	
2	2094	maximum		0.35		0.32	0.22	0		1	0.099	
						0.39	1.32	0			0.439	
2	2095	maximum		0.35		0.28	0.24	0		1	0.054	
						0.35	0.59	0			0.436	
2	2096	maximum		0.35		0.30	0.18	0		1	0.020	
						0.39	0.18	0			0.433	
2	2097	maximum		0.35				0		1	0.273	
						1.51	7.53	0			0.449	
2	2098	maximum		0.35		0.10	0.02	0		1	0.208	
						0.94	4.68	0			0.446	
2	2099	maximum		0.35		0.31	0.06	0		1	0.150	
						0.57	2.66	0			0.443	
2	2100	maximum		0.35		0.30	0.22	0		1	0.099	
						0.39	1.31	0			0.439	
2	2101	maximum		0.35		0.28	0.23	0		1	0.055	
						0.37	0.59	0			0.436	
2	2102	maximum		0.35		0.30	0.16	0		1	0.020	
						0.41	0.18	0			0.434	
2	2103	maximum		0.35				0		1	0.274	
						1.51	7.55	0			0.449	
2	2104	maximum		0.35		0.10	0.02	0		1	0.209	
						0.94	4.68	0			0.446	
2	2105	maximum		0.35		0.30	0.06	0		1	0.151	
						0.57	2.66	0			0.443	
2	2106	maximum		0.35		0.28	0.21	0		1	0.099	
						0.39	1.31	0			0.439	
2	2107	maximum		0.35		0.26	0.23	0		1	0.055	
						0.38	0.58	0			0.436	
2	2108	maximum		0.35		0.29	0.15	0		1	0.020	
						0.44	0.17	0			0.434	
2	2109	maximum		0.35				0		1	0.275	
						1.51	7.57	0			0.449	
2	2110	maximum		0.35		0.10	0.02	0		1	0.210	
						0.94	4.68	0			0.446	
2	2111	maximum		0.35		0.29	0.06	0		1	0.152	
						0.58	2.65	0			0.443	
2	2112	maximum		0.35		0.27	0.21	0		1	0.100	
						0.40	1.31	0			0.440	
2	2113	maximum		0.35		0.24	0.21	0		1	0.055	
						0.39	0.58	0			0.436	
2	2114	maximum		0.35		0.29	0.14	0		1	0.020	
						0.46	0.17	0			0.435	
2	2115	maximum		0.35				0		1	0.278	
						1.52	7.59	0			0.450	
2	2116	maximum		0.35		0.09	0.02	0		1	0.212	
						0.93	4.67	0			0.446	
2	2117	maximum		0.35		0.27	0.06	0		1	0.153	
						0.59	2.64	0			0.443	
2	2118	maximum		0.35		0.25	0.20	0		1	0.100	
						0.40	1.30	0			0.440	
2	2119	maximum		0.35		0.22	0.20	0		1	0.055	
						0.39	0.59	0			0.436	
2	2120	maximum		0.35		0.28	0.13	0		1	0.020	
						0.46	0.17	0			0.435	
2	2121	maximum		0.35				0		1	0.282	
						1.52	7.58	0			0.450	
2	2122	maximum		0.35		0.08	0.02	0		1	0.214	
						0.92	4.62	0			0.447	
2	2123	maximum		0.35		0.25	0.05	0		1	0.153	
						0.61	2.63	0			0.444	
2	2124	maximum		0.35		0.23	0.18	0		1	0.100	
						0.41	1.32	0			0.440	
2	2125	maximum		0.35		0.20	0.18	0		1	0.055	
						0.37	0.61	0			0.436	

ΤΑΦΡΟΣ T1 (3.00x2.80x1.50)m
ΔΙΑΣΤΑΣΙΟΛΟΓΗΣΗ ULS-SEISMIKA (QH=1.00)

REINFORCEMENT ACC. TO EN 1992-1-1:2004(EC2) in [cm2/m] upper/lower
General load safety factor - as defined in BEMESS: Gamma-f = 1.00
Shear: stresses VEd/d and VRd,ct/d with d=effective depth = h-hm
Shear index 2m = minimum shear reinforcement

Grp	ELEM No	LC No	MAT No	GEO No	h [m]	Reinforcement main	Reinforcement cross	dphi dir	dphi deg	Shr zon	VEd/d [MPa] VRd,ct/d	Ass [cm2/m2]
2	2126	maximum		0.35		0.28	0.11	0		1	0.020	
						0.42	0.18	0			0.435	
2	2127	maximum		0.35				0		1	0.288	
						1.51	7.53	0			0.451	
2	2128	maximum		0.35		0.08	0.02	0		1	0.215	
						0.93	4.56	0			0.448	
2	2129	maximum		0.35		0.24	0.05	0		1	0.152	
						0.64	2.65	0			0.444	
2	2130	maximum		0.35		0.22	0.17	0		1	0.098	
						0.40	1.36	0			0.440	
2	2131	maximum		0.35		0.20	0.16	0		1	0.054	
						0.34	0.64	0			0.437	
2	2132	maximum		0.35		0.27	0.10	0		1	0.020	
						0.35	0.19	0			0.436	
2	2133	maximum		0.35				0		1	0.293	
						1.46	7.32	0			0.453	
2	2134	maximum		0.35		0.09	0.02	0		1	0.211	
						0.98	4.58	0			0.448	
2	2135	maximum		0.35		0.23	0.07	0		1	0.147	
						0.63	2.76	0			0.444	
2	2136	maximum		0.35		0.19	0.16	0		1	0.095	
						0.34	1.43	0			0.440	
2	2137	maximum		0.35		0.18	0.15	0		1	0.052	
						0.26	0.67	0			0.436	
2	2138	maximum		0.35		0.23	0.08	0		1	0.020	
						0.25	0.16	0			0.435	
2	2139	maximum		0.35				0		1	0.278	
						1.46	7.32	0			0.452	
2	2140	maximum		0.35		0.14	0.03	0		1	0.197	
						0.97	4.87	0			0.446	
2	2141	maximum		0.35		0.21	0.09	0		1	0.138	
						0.58	2.90	0			0.442	
2	2142	maximum		0.35		0.15	0.16	0		1	0.090	
						0.29	1.46	0			0.439	
2	2143	maximum		0.35		0.16	0.13	0		1	0.049	
						0.16	0.65	0			0.436	
2	2144	maximum		0.35		0.18	0.06	0		1	0.020	
						0.17	0.14	0			0.434	
2	2145	maximum		0.35		0.03	0.01	0		1	0.225	
						1.62	8.09	0			0.445	
2	2146	maximum		0.35		0.09	0.02	0		1	0.195	
						1.03	5.15	0			0.443	
2	2147	maximum		0.35		0.13	0.04	0		1	0.152	
						0.58	2.90	0			0.441	
2	2148	maximum		0.35		0.09	0.11	0		1	0.105	
						0.29	1.43	0			0.438	
2	2149	maximum		0.35		0.08	0.10	0		1	0.059	
						0.12	0.60	0			0.436	
2	2150	maximum		0.35		0.07	0.04	0		1	0.028	
						0.09	0.14	0			0.434	
3	3001	maximum		0.35				0		1	0.268	
						0.96	4.79	0			0.439	
3	3002	maximum		0.35				0		1	0.244	
						1.13	4.43	0			0.444	
3	3003	maximum		0.35				0		1	0.247	
						1.29	4.61	0			0.444	
3	3004	maximum		0.35				0		1	0.238	
						1.27	4.66	0			0.442	
3	3005	maximum		0.35				0		1	0.232	
						1.26	4.63	0			0.441	
3	3006	maximum		0.35				0		1	0.229	
						1.24	4.58	0			0.441	
3	3007	maximum		0.35				0		1	0.227	
						1.24	4.54	0			0.440	
3	3008	maximum		0.35				0		1	0.226	
						1.23	4.50	0			0.440	
3	3009	maximum		0.35				0		1	0.226	
						1.23	4.46	0			0.440	
3	3010	maximum		0.35				0		1	0.226	
						1.22	4.44	0			0.440	
3	3011	maximum		0.35				0		1	0.226	
						1.22	4.42	0			0.440	
3	3012	maximum		0.35				0		1	0.226	
						1.22	4.41	0			0.440	

ΤΑΦΡΟΣ T1 (3.00x2.80x1.50)m
ΔΙΑΣΤΑΣΙΟΛΟΓΗΣΗ ULS-SEISMIKA (QH=1.00)

REINFORCEMENT ACC. TO EN 1992-1-1:2004(EC2) in [cm2/m] upper/lower
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Shear: stresses VEd/d and VRd,ct/d with d=effective depth = h-hm
Shear index 2m = minimum shear reinforcement

Grp	ELEM No	LC No	MAT No	GEO No	h [m]	Reinforcement main	Reinforcement cross	dphi dir	dphi deg	Shr zon	VEd/d [MPa] VRd,ct/d	Ass [cm2/m2]
3	3013	maximum		0.35				0		1	0.225	
						1.23	4.42	0			0.440	
3	3014	maximum		0.35				0		1	0.225	
						1.24	4.43	0			0.440	
3	3015	maximum		0.35				0		1	0.225	
						1.26	4.45	0			0.440	
3	3016	maximum		0.35				0		1	0.224	
						1.27	4.47	0			0.440	
3	3017	maximum		0.35				0		1	0.224	
						1.28	4.51	0			0.440	
3	3018	maximum		0.35				0		1	0.224	
						1.30	4.55	0			0.440	
3	3019	maximum		0.35				0		1	0.224	
						1.33	4.61	0			0.440	
3	3020	maximum		0.35				0		1	0.226	
						1.36	4.69	0			0.441	
3	3021	maximum		0.35				0		1	0.229	
						1.41	4.78	0			0.441	
3	3022	maximum		0.35				0		1	0.236	
						1.46	4.87	0			0.442	
3	3023	maximum		0.35				0		1	0.246	
						1.52	4.90	0			0.444	
3	3024	maximum		0.35				0		1	0.245	
						1.38	4.79	0			0.444	
3	3025	maximum		0.35				0		1	0.290	
						1.03	5.15	0			0.439	
3	3026	maximum		0.35		0.05	0.01	0		1	0.218	
						0.57	2.83	0			0.437	
3	3027	maximum		0.35		0.07	0.01	0		1	0.176	
						0.79	2.62	0			0.439	
3	3028	maximum		0.35		0.04	0.01	0		1	0.186	
						1.00	2.68	0			0.440	
3	3029	maximum		0.35		0.02		0		1	0.184	
						1.04	2.80	0			0.439	
3	3030	maximum		0.35		0.02		0		1	0.180	
						1.02	2.82	0			0.438	
3	3031	maximum		0.35		0.01		0		1	0.178	
						0.98	2.79	0			0.438	
3	3032	maximum		0.35		0.01		0		1	0.177	
						0.95	2.75	0			0.438	
3	3033	maximum		0.35				0		1	0.176	
						0.91	2.71	0			0.438	
3	3034	maximum		0.35				0		1	0.176	
						0.88	2.67	0			0.438	
3	3035	maximum		0.35				0		1	0.176	
						0.86	2.64	0			0.438	
3	3036	maximum		0.35				0		1	0.175	
						0.84	2.62	0			0.438	
3	3037	maximum		0.35				0		1	0.175	
						0.82	2.60	0			0.438	
3	3038	maximum		0.35				0		1	0.175	
						0.83	2.61	0			0.438	
3	3039	maximum		0.35				0		1	0.175	
						0.85	2.62	0			0.438	
3	3040	maximum		0.35				0		1	0.175	
						0.88	2.65	0			0.438	
3	3041	maximum		0.35				0		1	0.175	
						0.91	2.68	0			0.438	
3	3042	maximum		0.35				0		1	0.174	
						0.95	2.72	0			0.438	
3	3043	maximum		0.35				0		1	0.175	
						1.00	2.77	0			0.438	
3	3044	maximum		0.35		0.01		0		1	0.175	
						1.06	2.84	0			0.438	
3	3045	maximum		0.35		0.01		0		1	0.176	
						1.13	2.92	0			0.438	
3	3046	maximum		0.35		0.02		0		1	0.179	
						1.20	3.00	0			0.438	
3	3047	maximum		0.35		0.02		0		1	0.183	
						1.27	3.03	0			0.439	
3	3048	maximum		0.35		0.04	0.01	0		1	0.186	
						1.28	2.98	0			0.440	
3	3049	maximum		0.35		0.07	0.01	0		1	0.176	
						1.09	3.00	0			0.439	

ΤΑΦΡΟΣ Τ1 (3.00x2.80x1.50)m
ΔΙΑΣΤΑΣΙΟΛΟΓΗΣΗ ULS-SEISMIKA (QH=1.00)

REINFORCEMENT ACC. TO EN 1992-1-1:2004(EC2) in [cm2/m] upper/lower
General load safety factor - as defined in BEMESS: Gamma-f = 1.00
Shear: stresses VEd/d and VRd,ct/d with d=effective depth = h-hm
Shear index 2m = minimum shear reinforcement

Grp	ELEM No	LC No	MAT No	GEO No	h [m]	Reinforcement main	Reinforcement cross	dphi dir	dphi deg	Shr zon	VEd/d [MPa] VRd,ct/d	Ass [cm2/m2]
3	3050	maximum		0.35	0.08	0.02	0			1	0.243	
					0.65	3.22	0				0.437	
3	3051	maximum		0.35	0.14	0.03	0			1	0.153	
					0.36	1.38	0				0.435	
3	3052	maximum		0.35	0.20	0.04	0			1	0.118	
					0.60	1.32	0				0.435	
3	3053	maximum		0.35	0.21	0.04	0			1	0.126	
					0.74	1.34	0				0.436	
3	3054	maximum		0.35	0.21	0.04	0			1	0.127	
					0.84	1.42	0				0.436	
3	3055	maximum		0.35	0.20	0.04	0			1	0.126	
					0.84	1.46	0				0.435	
3	3056	maximum		0.35	0.20	0.04	0			1	0.125	
					0.79	1.44	0				0.435	
3	3057	maximum		0.35	0.18	0.04	0			1	0.124	
					0.73	1.40	0				0.435	
3	3058	maximum		0.35	0.16	0.03	0			1	0.123	
					0.67	1.35	0				0.435	
3	3059	maximum		0.35	0.14	0.03	0			1	0.123	
					0.62	1.32	0				0.435	
3	3060	maximum		0.35	0.11	0.02	0			1	0.122	
					0.57	1.29	0				0.435	
3	3061	maximum		0.35	0.08	0.02	0			1	0.122	
					0.54	1.26	0				0.435	
3	3062	maximum		0.35	0.05	0.01	0			1	0.122	
					0.51	1.24	0				0.435	
3	3063	maximum		0.35	0.02		0			1	0.122	
					0.51	1.25	0				0.435	
3	3064	maximum		0.35	0.05	0.01	0			1	0.122	
					0.54	1.27	0				0.435	
3	3065	maximum		0.35	0.08	0.02	0			1	0.122	
					0.58	1.29	0				0.435	
3	3066	maximum		0.35	0.11	0.02	0			1	0.122	
					0.62	1.33	0				0.435	
3	3067	maximum		0.35	0.14	0.03	0			1	0.122	
					0.68	1.37	0				0.435	
3	3068	maximum		0.35	0.16	0.03	0			1	0.122	
					0.76	1.42	0				0.435	
3	3069	maximum		0.35	0.18	0.04	0			1	0.123	
					0.85	1.49	0				0.435	
3	3070	maximum		0.35	0.20	0.04	0			1	0.124	
					0.95	1.56	0				0.435	
3	3071	maximum		0.35	0.20	0.04	0			1	0.126	
					1.05	1.62	0				0.435	
3	3072	maximum		0.35	0.21	0.04	0			1	0.128	
					1.11	1.64	0				0.436	
3	3073	maximum		0.35	0.21	0.04	0			1	0.128	
					1.07	1.61	0				0.436	
3	3074	maximum		0.35	0.27	0.05	0			1	0.118	
					1.08	2.00	0				0.436	
3	3075	maximum		0.35	0.26	0.05	0			1	0.181	
					0.77	2.14	0				0.435	
3	3076	maximum		0.35	0.17	0.03	0			1	0.089	
					0.25	0.46	0				0.434	
3	3077	maximum		0.35	0.33	0.07	0			1	0.071	
					0.45	0.54	0				0.434	
3	3078	maximum		0.35	0.40	0.08	0			1	0.075	
					0.63	0.54	0				0.435	
3	3079	maximum		0.35	0.42	0.08	0			1	0.073	
					0.76	0.57	0				0.436	
3	3080	maximum		0.35	0.41	0.08	0			1	0.071	
					0.75	0.54	0				0.436	
3	3081	maximum		0.35	0.40	0.08	0			1	0.070	
					0.68	0.52	0				0.436	
3	3082	maximum		0.35	0.37	0.07	0			1	0.069	
					0.59	0.49	0				0.436	
3	3083	maximum		0.35	0.35	0.07	0			1	0.068	
					0.52	0.46	0				0.436	
3	3084	maximum		0.35	0.32	0.07	0			1	0.067	
					0.48	0.43	0				0.435	
3	3085	maximum		0.35	0.28	0.07	0			1	0.067	
					0.43	0.40	0				0.434	
3	3086	maximum		0.35	0.21	0.05	0			1	0.067	
					0.39	0.38	0				0.433	

ΤΑΦΡΟΣ Τ1 (3.00x2.80x1.50)m
ΔΙΑΣΤΑΣΙΟΛΟΓΗΣΗ ULS-SEISMIKA (QH=1.00)

REINFORCEMENT ACC. TO EN 1992-1-1:2004(EC2) in [cm2/m] upper/lower
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Shear: stresses VEd/d and VRd,ct/d with d=effective depth = h-hm
Shear index 2m = minimum shear reinforcement

Grp	ELEM No	LC No	MAT No	GEO No	h [m]	Reinforcement main	Reinforcement cross	dphi dir	dphi deg	Shr zon	VEd/d [MPa] VRd,ct/d	Ass [cm2/m2]
3	3087	maximum		0.35	0.16	0.05	0			1	0.067	
					0.32	0.36	0				0.432	
3	3088	maximum		0.35	0.12	0.04	0			1	0.067	
					0.28	0.37	0				0.432	
3	3089	maximum		0.35	0.16	0.05	0			1	0.067	
					0.33	0.38	0				0.432	
3	3090	maximum		0.35	0.21	0.05	0			1	0.067	
					0.40	0.40	0				0.433	
3	3091	maximum		0.35	0.28	0.07	0			1	0.067	
					0.46	0.42	0				0.434	
3	3092	maximum		0.35	0.32	0.07	0			1	0.068	
					0.51	0.45	0				0.435	
3	3093	maximum		0.35	0.35	0.07	0			1	0.069	
					0.56	0.49	0				0.436	
3	3094	maximum		0.35	0.37	0.07	0			1	0.070	
					0.66	0.53	0				0.436	
3	3095	maximum		0.35	0.39	0.08	0			1	0.073	
					0.79	0.58	0				0.436	
3	3096	maximum		0.35	0.40	0.08	0			1	0.076	
					0.91	0.63	0				0.436	
3	3097	maximum		0.35	0.41	0.08	0			1	0.082	
					0.96	0.66	0				0.436	
3	3098	maximum		0.35	0.40	0.09	0			1	0.089	
					0.89	0.66	0				0.435	
3	3099	maximum		0.35	0.36	0.17	0			1	0.088	
					0.87	0.83	0				0.434	
3	3100	maximum		0.35	0.36	0.10	0			1	0.149	
					0.57	0.80	0				0.434	

Explanations shear state Shr zon:
1 = check without necessary shear reinforcement
2 = shear reinforcement required
m = minimum shear reinforcement

ΤΑΦΡΟΣ Τ1 (3.00x2.80x1.50)m

7. ΕΛΕΓΧΟΣ ΛΕΙΤΟΥΡΓΙΚΟΤΗΤΑΣ

ΤΑΦΡΟΣ Τ1 (3.00x2.80x1.50)m
ΣΥΝΔΥΑΣΜΟΙ S.L.S.

Combination rule Number 1
COMB.1 for S.L.S. - QUASI-PERMAN
Resulting loadcases type Design Combination
Loadcase selection

Number	factor	type	Title
1	1.00	permanent load grouped in actions	ΙΔΙΟ ΒΑΡΟΣ
2	1.00	Exclusive LC A 1	ΥΔΡΟΣΤΑΤΙΚΕΣ ΠΙΕΣΕΙΣ
3	1.00	Exclusive LC A 2	ΩΘΗΣΕΙΣ ΓΑΙΩΝ
6	0.50	Exclusive LC A 3	ΟΜΟΙΟΜΟΡΦΗ ΘΕΡΜΟΚΡ. ΔΤ=+
7	0.50	Exclusive LC A 3	ΟΜΟΙΟΜΟΡΦΗ ΘΕΡΜΟΚΡ. ΔΤ=-

Combination rule Number 2
comb.2 for S.L.S. - CHARACTERIST
Resulting loadcases type Design Combination
Loadcase selection

Number	factor	type	Title
1	1.00	permanent load grouped in actions	ΙΔΙΟ ΒΑΡΟΣ
2	1.00	Exclusive LC A 1	ΥΔΡΟΣΤΑΤΙΚΕΣ ΠΙΕΣΕΙΣ
3	1.00	Exclusive LC A 2	ΩΘΗΣΕΙΣ ΓΑΙΩΝ
6	0.60	Exclusive LC A 3	ΟΜΟΙΟΜΟΡΦΗ ΘΕΡΜΟΚΡ. ΔΤ=+
7	0.60	Exclusive LC A 3	ΟΜΟΙΟΜΟΡΦΗ ΘΕΡΜΟΚΡ. ΔΤ=-
5	1.00	Exclusive LC A 4	ΩΘΗΣΕΙΣ ΓΑΙΩΝ ΑΠΟ ΚΙΝΗΤΑ

Generated Loadcases

Number	Comb	Title
1101	1	MAX-MX QUAD SLS_01
1102	1	MIN-MX QUAD SLS_01
1103	1	MAX-MY QUAD SLS_01
1104	1	MIN-MY QUAD SLS_01
1105	1	MAX-MXY QUAD SLS_01
1106	1	MIN-MXY QUAD SLS_01
1101	1	MAX-MX QUAK SLS_01
1102	1	MIN-MX QUAK SLS_01
1103	1	MAX-MY QUAK SLS_01
1104	1	MIN-MY QUAK SLS_01
1105	1	MAX-MXY QUAK SLS_01
1106	1	MIN-MXY QUAK SLS_01
1107	1	MAX-VX QUAD SLS_01
1108	1	MIN-VX QUAD SLS_01
1107	1	MAX-VX QUAK SLS_01
1108	1	MIN-VX QUAK SLS_01
1109	1	MAX-VY QUAD SLS_01
1110	1	MIN-VY QUAD SLS_01
1109	1	MAX-VY QUAK SLS_01
1110	1	MIN-VY QUAK SLS_01
1111	1	MAX-NXX QUAD SLS_01
1112	1	MIN-NXX QUAD SLS_01
1113	1	MAX-NYY QUAD SLS_01
1114	1	MIN-NYY QUAD SLS_01
1115	1	MAX-NXY QUAD SLS_01
1116	1	MIN-NXY QUAD SLS_01
1111	1	MAX-NXX QUAK SLS_01
1112	1	MIN-NXX QUAK SLS_01
1113	1	MAX-NYY QUAK SLS_01
1114	1	MIN-NYY QUAK SLS_01
1115	1	MAX-NXY QUAK SLS_01
1116	1	MIN-NXY QUAK SLS_01
1121	2	MAX-MX QUAD SLS_01
1122	2	MIN-MX QUAD SLS_01
1123	2	MAX-MY QUAD SLS_01
1124	2	MIN-MY QUAD SLS_01
1125	2	MAX-MXY QUAD SLS_01
1126	2	MIN-MXY QUAD SLS_01
1121	2	MAX-MX QUAK SLS_01
1122	2	MIN-MX QUAK SLS_01
1123	2	MAX-MY QUAK SLS_01
1124	2	MIN-MY QUAK SLS_01
1125	2	MAX-MXY QUAK SLS_01
1126	2	MIN-MXY QUAK SLS_01
1127	2	MAX-VX QUAD SLS_01
1128	2	MIN-VX QUAD SLS_01
1127	2	MAX-VX QUAK SLS_01
1128	2	MIN-VX QUAK SLS_01
1129	2	MAX-VY QUAD SLS_01
1130	2	MIN-VY QUAD SLS_01
1129	2	MAX-VY QUAK SLS_01
1130	2	MIN-VY QUAK SLS_01
1131	2	MAX-NXX QUAD SLS_01
1132	2	MIN-NXX QUAD SLS_01
1133	2	MAX-NYY QUAD SLS_01

ΤΑΦΡΟΣ T1 (3.00x2.80x1.50)m
ΣΥΝΔΥΑΣΜΟΙ S.L.S.

Generated Loadcases

Number	Comb	Title
1134	2	MIN-NYY QUAD SLS_01
1135	2	MAX-NXY QUAD SLS_01
1136	2	MIN-NXY QUAD SLS_01
1131	2	MAX-NXX QUAK SLS_01
1132	2	MIN-NXX QUAK SLS_01
1133	2	MAX-NYY QUAK SLS_01
1134	2	MIN-NYY QUAK SLS_01
1135	2	MAX-NXY QUAK SLS_01
1136	2	MIN-NXY QUAK SLS_01

ΤΑΦΡΟΣ T1 (3.00x2.80x1.50)m

7.1 ΕΛΕΓΧΟΣ ΣΕ ΡΗΓΜΑΤΩΣΗ

ΤΑΦΡΟΣ T1 (3.00x2.80x1.50)m
CRACK CHECK (QUASI-PERMANENT COMBINATION)

Maximum of reinforcement-distributions
The reinforcement maximum was build out of the numbers of reinforcement-distributions:
100
and stored as new reinforcement-distribution 300 .

Design according to EN 1992-1-1:2004(EC2)
Loadcases have been calculated in the Ultimate Limit State
In BEMESS no additional load safety factor is applied.

Load Cases for the Design

Loadcase 1101 MAX-MX QUAK SLS_01
Loadcase 1102 MIN-MX QUAK SLS_01
Loadcase 1103 MAX-MY QUAK SLS_01
Loadcase 1104 MIN-MY QUAK SLS_01
Loadcase 1105 MAX-MXY QUAK SLS_01
Loadcase 1106 MIN-MXY QUAK SLS_01
Loadcase 1107 MAX-VX QUAK SLS_01
Loadcase 1108 MIN-VX QUAK SLS_01
Loadcase 1109 MAX-VY QUAK SLS_01
Loadcase 1110 MIN-VY QUAK SLS_01
Loadcase 1111 MAX-NXX QUAK SLS_01
Loadcase 1112 MIN-NXX QUAK SLS_01
Loadcase 1113 MAX-NYY QUAK SLS_01
Loadcase 1114 MIN-NYY QUAK SLS_01
Loadcase 1115 MAX-NXY QUAK SLS_01
Loadcase 1116 MIN-NXY QUAK SLS_01

Load Cases - with factors of dead load in per cent

LcNo	per cent	LcNo	per cent	LcNo	per cent	LcNo	per cent	LcNo	per cent
1101	100.0	1102	100.0	1103	100.0	1104	100.0	1105	100.0
1106	100.0	1107	100.0	1108	100.0	1109	100.0	1110	100.0
1111	100.0	1112	100.0	1113	100.0	1114	100.0	1115	100.0
1116	100.0								

Material (EN 1992-1-1:2004(EC2))

Mat	f-ck [MPa]	f-cr [MPa]	f-yk [MPa]	f-tk [MPa]	f-ctm [MPa]	N [-]	minQ [-]	type
1	25.0	21.2			2.565	6.4	0.20	mainly static
2	25.0	21.2			2.565	6.4	0.20	mainly static
10			500.0	545.0				
11	25.0	21.2			2.565	6.4	0.20	mainly static
22	25.0	21.2			2.565	6.4	0.20	mainly static

Minimum reinforcement: 0.00 p.c. of stat. req. section
A robustness minimum reinforcement has not been requested [MREI] and
has to be checked separately.
A minimum reinforcement has not been requested [MREI] and
has to be checked separately.

Reduction of FC in case of transvers tension = 20.0 [o/o]

At direct supports from the face of the support up to 1.0*d the shear force is reduced.
The maximum shear capacity is checked at the face of the support without reduction.

The punching design has been switched off and must be done separately.
Outside the punching area, the normal slab shear design may increase the,
longitudinal reinforcement up to 0.20% [input CTRL...RO_V].

Geometry (axial covers)

No	he-upper [mm]	hi-upper [mm]	he-lower [mm]	hi-lower [mm]	Elem. height [mm]
1	60	72	80	92	As saved
2	50	62	50	62	As saved

SERVICEABILITY LIMIT STATE CONTROL PARAMETERS

No	Code	dNW[mm]	wk[mm]	Beta	Beta1	Beta2	k1
1	EC2	12.0	0.30	1.7	1.0	0.5	0.8

Calculation of crack-width acc." EN 1992-1-1:2004[E] 7.3.4

Selection of elements

	from	to	inc	group	GEOMETRY
Element	1001	1999	1	-	1
Element	2001	2999	1	-	2
Element	3001	3999	1	-	2
Element	4001	4999	1	-	2

Maximum of stored and calculated reinforcement is saved
Number of stored reinforcement-distribution: 300
Punching design values were taken from reinforcement distribution no. 100

ΤΑΦΡΟΣ T1 (3.00x2.80x1.50)m
CRACK CHECK (QUASI-PERMANENT COMBINATION)

REINFORCEMENT ACC. TO EN 1992-1-1:2004(EC2) in [cm2/m] upper/lower
General load safety factor - as defined in BEMESS: Gamma-f = 1.00
Shear: stresses VEd/d and VRd,ct/d with d=effective depth = h-hm
Shear index 2m = minimum shear reinforcement

Grp	ELEM No	LC No	MAT No	GEO No	h [m]	Reinforcement main	Reinforcement cross	dir	dphi deg	Df No	Load fact	Crack-check	Shr zon	VEd/d [MPa] VRd,ct/d
			MBW											
1	1001	maximum		0.35		2.18	0.44	0		1			1	0.068
						9.01	1.80	0						0.457
1	1002	maximum		0.35		2.30	0.46	0		1			1	0.088
						8.53	1.71	0						0.462
1	1003	maximum		0.35		2.30	0.51	0		1			1	0.089
						8.41	1.71	0						0.463
1	1004	maximum		0.35		2.27	0.52	0		1			1	0.087
						8.58	1.87	0						0.466
1	1005	maximum		0.35		2.25	0.51	0		1			1	0.085
						8.62	1.92	0						0.466
1	1006	maximum		0.35		2.23	0.51	0		1			1	0.084
						8.62	1.92	0						0.466
1	1007	maximum		0.35		2.22	0.51	0		1			1	0.083
						8.60	1.91	0						0.466
1	1008	maximum		0.35		2.22	0.51	0		1			1	0.083
						8.59	1.90	0						0.465
1	1009	maximum		0.35		2.21	0.51	0		1			1	0.083
						8.57	1.89	0						0.465
1	1010	maximum		0.35		2.21	0.51	0		1			1	0.083
						8.56	1.88	0						0.465
1	1011	maximum		0.35		2.21	0.51	0		1			1	0.083
						8.56	1.87	0						0.465
1	1012	maximum		0.35		2.21	0.51	0		1			1	0.083
						8.55	1.87	0						0.465
1	1013	maximum		0.35		2.21	0.51	0		1			1	0.082
						8.55	1.87	0						0.465
1	1014	maximum		0.35		2.21	0.51	0		1			1	0.083
						8.55	1.87	0						0.465
1	1015	maximum		0.35		2.21	0.51	0		1			1	0.083
						8.56	1.87	0						0.465
1	1016	maximum		0.35		2.21	0.51	0		1			1	0.083
						8.56	1.88	0						0.465
1	1017	maximum		0.35		2.21	0.51	0		1			1	0.083
						8.57	1.89	0						0.465
1	1018	maximum		0.35		2.22	0.51	0		1			1	0.083
						8.59	1.90	0						0.465
1	1019	maximum		0.35		2.22	0.51	0		1			1	0.083
						8.60	1.91	0						0.466
1	1020	maximum		0.35		2.23	0.51	0		1			1	0.084
						8.62	1.92	0						0.466
1	1021	maximum		0.35		2.25	0.51	0		1			1	0.085
						8.62	1.92	0						0.466
1	1022	maximum		0.35		2.27	0.52	0		1			1	0.087
						8.58	1.87	0						0.466
1	1023	maximum		0.35		2.30	0.51	0		1			1	0.089
						8.44	1.70	0						0.464
1	1024	maximum		0.35		2.30	0.46	0		1			1	0.088
						8.56	1.71	0						0.462
1	1025	maximum		0.35		2.18	0.44	0		1			1	0.068
						9.04	1.81	0						0.457
1	1026	maximum		0.35		2.45	0.49	0		1			1	0.067
						8.38	1.68	0						0.457
1	1027	maximum		0.35		2.50	0.50	0		1			1	0.069
						7.98	1.60	0						0.460
1	1028	maximum		0.35		2.49	0.50	0		1			1	0.074
						7.64	1.62	0						0.461
1	1029	maximum		0.35		2.48	0.52	0		1			1	0.074
						7.58	1.65	0						0.461
1	1030	maximum		0.35		2.46	0.54	0		1			1	0.073
						7.61	1.67	0						0.461
1	1031	maximum		0.35		2.46	0.55	0		1			1	0.073
						7.65	1.68	0						0.461
1	1032	maximum		0.35		2.45	0.55	0		1			1	0.072
						7.68	1.68	0						0.460
1	1033	maximum		0.35		2.45	0.56	0		1			1	0.072
						7.69	1.67	0						0.460
1	1034	maximum		0.35		2.44	0.56	0		1			1	0.072
						7.70	1.66	0						0.460
1	1035	maximum		0.35		2.44	0.56	0		1			1	0.072
						7.69	1.65	0						0.460
1	1036	maximum		0.35		2.44	0.56	0		1			1	0.072
						7.69	1.64	0						0.460
1	1037	maximum		0.35		2.44	0.56	0		1			1	0.072
						7.68	1.63	0						0.460

ΤΑΦΡΟΣ T1 (3.00x2.80x1.50)m
CRACK CHECK (QUASI-PERMANENT COMBINATION)

REINFORCEMENT ACC. TO EN 1992-1-1:2004(EC2) in [cm2/m] upper/lower
General load safety factor - as defined in BEMESS: Gamma-f = 1.00
Shear: stresses VEd/d and VRd,ct/d with d=effective depth = h-hm
Shear index 2m = minimum shear reinforcement

Grp	ELEM No	LC No	MAT No	GEO No	h [m]	Reinforcement main	Reinforcement cross	dir	dphi deg	Df No	Load fact	Crack-check	Shr zon	VEd/d [MPa] VRd,ct/d
		MBW												
1	1038	maximum			0.35	2.44	0.56	0		1			1	0.072
						7.67	1.62	0						0.460
1	1039	maximum			0.35	2.44	0.56	0		1			1	0.072
						7.67	1.61	0						0.460
1	1040	maximum			0.35	2.44	0.56	0		1			1	0.072
						7.66	1.60	0						0.460
1	1041	maximum			0.35	2.44	0.56	0		1			1	0.072
						7.67	1.61	0						0.460
1	1042	maximum			0.35	2.44	0.56	0		1			1	0.072
						7.69	1.63	0						0.460
1	1043	maximum			0.35	2.45	0.56	0		1			1	0.072
						7.69	1.64	0						0.460
1	1044	maximum			0.35	2.45	0.55	0		1			1	0.072
						7.69	1.65	0						0.460
1	1045	maximum			0.35	2.46	0.55	0		1			1	0.073
						7.67	1.66	0						0.461
1	1046	maximum			0.35	2.46	0.54	0		1			1	0.073
						7.64	1.66	0						0.461
1	1047	maximum			0.35	2.48	0.52	0		1			1	0.074
						7.62	1.64	0						0.461
1	1048	maximum			0.35	2.49	0.50	0		1			1	0.074
						7.68	1.62	0						0.461
1	1049	maximum			0.35	2.50	0.50	0		1			1	0.069
						8.02	1.60	0						0.460
1	1050	maximum			0.35	2.45	0.49	0		1			1	0.067
						8.42	1.68	0						0.457
1	1051	maximum			0.35	2.42	0.48	0		1			1	0.060
						7.47	1.49	0						0.457
1	1052	maximum			0.35	2.44	0.49	0		1			1	0.055
						7.25	1.45	0						0.459
1	1053	maximum			0.35	2.45	0.49	0		1			1	0.058
						6.96	1.41	0						0.460
1	1054	maximum			0.35	2.45	0.49	0		1			1	0.059
						6.84	1.53	0						0.460
1	1055	maximum			0.35	2.44	0.51	0		1			1	0.059
						6.83	1.58	0						0.460
1	1056	maximum			0.35	2.43	0.53	0		1			1	0.059
						6.86	1.58	0						0.459
1	1057	maximum			0.35	2.43	0.54	0		1			1	0.059
						6.88	1.58	0						0.459
1	1058	maximum			0.35	2.43	0.55	0		1			1	0.059
						6.89	1.57	0						0.459
1	1059	maximum			0.35	2.43	0.55	0		1			1	0.059
						6.90	1.55	0						0.459
1	1060	maximum			0.35	2.43	0.55	0		1			1	0.059
						6.89	1.54	0						0.459
1	1061	maximum			0.35	2.43	0.55	0		1			1	0.058
						6.88	1.53	0						0.459
1	1062	maximum			0.35	2.43	0.55	0		1			1	0.058
						6.88	1.51	0						0.459
1	1063	maximum			0.35	2.43	0.55	0		1			1	0.058
						6.87	1.50	0						0.459
1	1064	maximum			0.35	2.43	0.55	0		1			1	0.058
						6.86	1.49	0						0.459
1	1065	maximum			0.35	2.43	0.55	0		1			1	0.058
						6.86	1.49	0						0.459
1	1066	maximum			0.35	2.43	0.55	0		1			1	0.059
						6.87	1.50	0						0.459
1	1067	maximum			0.35	2.43	0.55	0		1			1	0.059
						6.88	1.51	0						0.459
1	1068	maximum			0.35	2.43	0.55	0		1			1	0.059
						6.89	1.53	0						0.459
1	1069	maximum			0.35	2.43	0.54	0		1			1	0.059
						6.89	1.55	0						0.459
1	1070	maximum			0.35	2.43	0.53	0		1			1	0.059
						6.88	1.56	0						0.459
1	1071	maximum			0.35	2.44	0.51	0		1			1	0.059
						6.87	1.56	0						0.460
1	1072	maximum			0.35	2.45	0.49	0		1			1	0.059
						6.89	1.53	0						0.460
1	1073	maximum			0.35	2.45	0.49	0		1			1	0.058
						7.01	1.41	0						0.460
1	1074	maximum			0.35	2.44	0.49	0		1			1	0.055
						7.29	1.46	0						0.459

ΤΑΦΡΟΣ T1 (3.00x2.80x1.50)m
CRACK CHECK (QUASI-PERMANENT COMBINATION)

REINFORCEMENT ACC. TO EN 1992-1-1:2004(EC2) in [cm2/m] upper/lower
General load safety factor - as defined in BEMESS: Gamma-f = 1.00
Shear: stresses VEd/d and VRd,ct/d with d=effective depth = h-hm
Shear index 2m = minimum shear reinforcement

Grp	ELEM No	LC No	MAT No	GEO No	h [m]	Reinforcement main	Reinforcement cross	dir	dphi deg	Df No	Load fact	Crack-check	Shr zon	VEd/d [MPa] VRd,ct/d
		MBW												
1	1075	maximum			0.35	2.42	0.48	0		1			1	0.060
						7.51	1.50	0						0.457
1	1076	maximum			0.35	2.21	0.44	0		1			1	0.047
						6.63	1.33	0						0.456
1	1077	maximum			0.35	2.22	0.44	0		1			1	0.039
						6.48	1.30	0						0.457
1	1078	maximum			0.35	2.22	0.44	0		1			1	0.041
						6.31	1.26	0						0.458
1	1079	maximum			0.35	2.22	0.44	0		1			1	0.042
						6.22	1.41	0						0.458
1	1080	maximum			0.35	2.23	0.45	0		1			1	0.043
						6.20	1.49	0						0.458
1	1081	maximum			0.35	2.23	0.48	0		1			1	0.043
						6.21	1.50	0						0.458
1	1082	maximum			0.35	2.23	0.50	0		1			1	0.043
						6.22	1.49	0						0.458
1	1083	maximum			0.35	2.23	0.50	0		1			1	0.043
						6.22	1.48	0						0.458
1	1084	maximum			0.35	2.23	0.51	0		1			1	0.043
						6.21	1.46	0						0.458
1	1085	maximum			0.35	2.23	0.51	0		1			1	0.043
						6.21	1.45	0						0.458
1	1086	maximum			0.35	2.22	0.51	0		1			1	0.043
						6.20	1.43	0						0.458
1	1087	maximum			0.35	2.22	0.51	0		1			1	0.043
						6.19	1.42	0						0.458
1	1088	maximum			0.35	2.22	0.51	0		1			1	0.043
						6.18	1.42	0						0.458
1	1089	maximum			0.35	2.22	0.51	0		1			1	0.043
						6.17	1.41	0						0.458
1	1090	maximum			0.35	2.22	0.51	0		1			1	0.043
						6.16	1.40	0						0.458
1	1091	maximum			0.35	2.23	0.51	0		1			1	0.043
						6.18	1.40	0						0.458
1	1092	maximum			0.35	2.23	0.51	0		1			1	0.043
						6.20	1.42	0						0.458
1	1093	maximum			0.35	2.23	0.50	0		1			1	0.043
						6.21	1.44	0						0.458
1	1094	maximum			0.35	2.23	0.50	0		1			1	0.043
						6.22	1.46	0						0.458
1	1095	maximum			0.35	2.23	0.48	0		1			1	0.043
						6.23	1.47	0						0.458
1	1096	maximum			0.35	2.23	0.45	0		1			1	0.043
						6.24	1.47	0						0.458
1	1097	maximum			0.35	2.22	0.44	0		1			1	0.042
						6.28	1.40	0						0.458
1	1098	maximum			0.35	2.22	0.44	0		1			1	0.041
						6.37	1.27	0						0.458
1	1099	maximum			0.35	2.22	0.44	0		1			1	0.039
						6.54	1.31	0						0.457
1	1100	maximum			0.35	2.21	0.44	0		1			1	0.047
						6.68	1.34	0						0.456
1	1101	maximum			0.35	1.92	0.38	0		1			1	0.040
						6.17	1.23	0						0.455
1	1102	maximum			0.35	1.93	0.39	0		1			1	0.030
						5.87	1.17	0						0.456
1	1103	maximum			0.35	1.92	0.38	0		1			1	0.031
						5.76	1.15	0						0.457
1	1104	maximum			0.35	1.90	0.38	0		1			1	0.032
						5.75	1.31	0						0.457
1	1105	maximum			0.35	1.90	0.39	0		1			1	0.032
						5.74	1.41	0						0.457
1	1106	maximum			0.35	1.89	0.41	0		1			1	0.032
						5.73	1.43	0						0.457
1	1107	maximum			0.35	1.89	0.42	0		1			1	0.032
						5.72	1.43	0						0.457
1	1108	maximum			0.35	1.89	0.43	0		1			1	0.033
						5.70	1.41	0						0.457
1	1109	maximum			0.35	1.89	0.43	0		1			1	0.033
						5.69	1.40	0						0.456
1	1110	maximum			0.35	1.89	0.44	0		1			1	0.033
						5.67	1.39	0						0.456
1	1111	maximum			0.35	1.89	0.44	0		1			1	0.033
						5.66	1.38	0						0.456

ΤΑΦΡΟΣ T1 (3.00x2.80x1.50)m
CRACK CHECK (QUASI-PERMANENT COMBINATION)

REINFORCEMENT ACC. TO EN 1992-1-1:2004(EC2) in [cm2/m] upper/lower
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Shear: stresses VEd/d and VRd,ct/d with d=effective depth = h-hm
Shear index 2m = minimum shear reinforcement

Grp	ELEM No	LC No	MAT No	GEO No	h [m]	Reinforcement main	Reinforcement cross	dir	dphi deg	Df No	Load fact	Crack-check	Shr zon	VEd/d [MPa] VRd,ct/d
		MBW												
1	1112	maximum			0.35	1.89	0.44	0		1			1	0.033
						5.65	1.37	0						0.456
1	1113	maximum			0.35	1.89	0.44	0		1			1	0.033
						5.64	1.36	0						0.456
1	1114	maximum			0.35	1.89	0.44	0		1			1	0.033
						5.63	1.35	0						0.456
1	1115	maximum			0.35	1.89	0.44	0		1			1	0.033
						5.63	1.34	0						0.456
1	1116	maximum			0.35	1.89	0.44	0		1			1	0.033
						5.64	1.34	0						0.456
1	1117	maximum			0.35	1.89	0.43	0		1			1	0.033
						5.67	1.35	0						0.456
1	1118	maximum			0.35	1.89	0.43	0		1			1	0.033
						5.69	1.37	0						0.457
1	1119	maximum			0.35	1.89	0.42	0		1			1	0.032
						5.72	1.39	0						0.457
1	1120	maximum			0.35	1.89	0.41	0		1			1	0.032
						5.74	1.40	0						0.457
1	1121	maximum			0.35	1.90	0.39	0		1			1	0.032
						5.77	1.38	0						0.457
1	1122	maximum			0.35	1.90	0.38	0		1			1	0.032
						5.80	1.29	0						0.457
1	1123	maximum			0.35	1.92	0.38	0		1			1	0.031
						5.83	1.17	0						0.457
1	1124	maximum			0.35	1.93	0.39	0		1			1	0.030
						5.97	1.19	0						0.456
1	1125	maximum			0.35	1.92	0.38	0		1			1	0.040
						6.27	1.25	0						0.455
1	1126	maximum			0.35	1.55	0.31	0		1			1	0.049
						5.96	1.19	0						0.454
1	1127	maximum			0.35	1.55	0.31	0		1			1	0.034
						5.63	1.13	0						0.455
1	1128	maximum			0.35	1.53	0.31	0		1			1	0.035
						5.40	1.08	0						0.455
1	1129	maximum			0.35	1.51	0.30	0		1			1	0.035
						5.46	1.26	0						0.456
1	1130	maximum			0.35	1.49	0.32	0		1			1	0.036
						5.46	1.36	0						0.456
1	1131	maximum			0.35	1.49	0.33	0		1			1	0.036
						5.43	1.38	0						0.456
1	1132	maximum			0.35	1.48	0.34	0		1			1	0.037
						5.40	1.38	0						0.456
1	1133	maximum			0.35	1.48	0.34	0		1			1	0.037
						5.37	1.37	0						0.456
1	1134	maximum			0.35	1.48	0.35	0		1			1	0.037
						5.34	1.37	0						0.456
1	1135	maximum			0.35	1.48	0.35	0		1			1	0.037
						5.33	1.36	0						0.456
1	1136	maximum			0.35	1.48	0.35	0		1			1	0.037
						5.31	1.36	0						0.456
1	1137	maximum			0.35	1.47	0.35	0		1			1	0.037
						5.30	1.35	0						0.456
1	1138	maximum			0.35	1.47	0.35	0		1			1	0.037
						5.30	1.35	0						0.456
1	1139	maximum			0.35	1.47	0.35	0		1			1	0.037
						5.29	1.35	0						0.456
1	1140	maximum			0.35	1.48	0.35	0		1			1	0.037
						5.29	1.34	0						0.456
1	1141	maximum			0.35	1.48	0.35	0		1			1	0.037
						5.29	1.33	0						0.456
1	1142	maximum			0.35	1.48	0.35	0		1			1	0.037
						5.31	1.32	0						0.456
1	1143	maximum			0.35	1.48	0.34	0		1			1	0.037
						5.34	1.33	0						0.456
1	1144	maximum			0.35	1.48	0.34	0		1			1	0.037
						5.38	1.34	0						0.456
1	1145	maximum			0.35	1.49	0.33	0		1			1	0.036
						5.43	1.34	0						0.456
1	1146	maximum			0.35	1.49	0.32	0		1			1	0.036
						5.48	1.32	0						0.456
1	1147	maximum			0.35	1.51	0.30	0		1			1	0.035
						5.51	1.23	0						0.456
1	1148	maximum			0.35	1.53	0.31	0		1			1	0.035
						5.49	1.10	0						0.455

ΤΑΦΡΟΣ T1 (3.00x2.80x1.50)m
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Grp	ELEM No	LC No	MAT No	GEO No	h [m]	Reinforcement main	Reinforcement cross	dir	dphi deg	Df No	Load fact	Crack-check	Shr zon	VEd/d [MPa] VRd,ct/d
		MBW												
1	1149	maximum			0.35	1.55	0.31	0		1			1	0.034
						5.78	1.16	0						0.455
1	1150	maximum			0.35	1.55	0.31	0		1			1	0.049
						6.09	1.22	0						0.454
1	1151	maximum			0.35	1.09	0.22	0		1			1	0.053
						5.78	1.16	0						0.453
1	1152	maximum			0.35	1.13	0.24	0		1			1	0.040
						5.55	1.11	0						0.454
1	1153	maximum			0.35	1.11	0.25	0		1			1	0.040
						5.38	1.12	0						0.454
1	1154	maximum			0.35	1.09	0.25	0		1			1	0.041
						5.41	1.24	0						0.454
1	1155	maximum			0.35	1.07	0.25	0		1			1	0.041
						5.38	1.33	0						0.454
1	1156	maximum			0.35	1.06	0.25	0		1			1	0.042
						5.32	1.36	0						0.454
1	1157	maximum			0.35	1.05	0.25	0		1			1	0.042
						5.27	1.37	0						0.454
1	1158	maximum			0.35	1.04	0.25	0		1			1	0.043
						5.23	1.38	0						0.454
1	1159	maximum			0.35	1.04	0.25	0		1			1	0.043
						5.21	1.38	0						0.454
1	1160	maximum			0.35	1.04	0.25	0		1			1	0.043
						5.19	1.38	0						0.454
1	1161	maximum			0.35	1.04	0.25	0		1			1	0.043
						5.18	1.39	0						0.454
1	1162	maximum			0.35	1.04	0.25	0		1			1	0.043
						5.17	1.39	0						0.454
1	1163	maximum			0.35	1.04	0.25	0		1			1	0.043
						5.17	1.39	0						0.454
1	1164	maximum			0.35	1.04	0.25	0		1			1	0.043
						5.17	1.39	0						0.454
1	1165	maximum			0.35	1.04	0.25	0		1			1	0.043
						5.18	1.38	0						0.454
1	1166	maximum			0.35	1.04	0.25	0		1			1	0.043
						5.19	1.38	0						0.454
1	1167	maximum			0.35	1.04	0.25	0		1			1	0.043
						5.20	1.37	0						0.454
1	1168	maximum			0.35	1.04	0.25	0		1			1	0.043
						5.22	1.35	0						0.454
1	1169	maximum			0.35	1.05	0.25	0		1			1	0.042
						5.25	1.33	0						0.454
1	1170	maximum			0.35	1.06	0.25	0		1			1	0.042
						5.30	1.31	0						0.454
1	1171	maximum			0.35	1.07	0.25	0		1			1	0.041
						5.38	1.28	0						0.454
1	1172	maximum			0.35	1.09	0.25	0		1			1	0.041
						5.46	1.25	0						0.454
1	1173	maximum			0.35	1.11	0.25	0		1			1	0.040
						5.58	1.21	0						0.454
1	1174	maximum			0.35	1.13	0.24	0		1			1	0.040
						5.78	1.16	0						0.454
1	1175	maximum			0.35	1.09	0.22	0		1			1	0.053
						5.98	1.20	0						0.453
2	2001	maximum			0.35	0.14	0.69	0		1			1	0.092
						1.38	6.89	0						0.443
2	2002	maximum			0.35	0.07	0.35	0		1			1	0.068
						0.86	4.29	0						0.441
2	2003	maximum			0.35	0.04	0.13	0		1			1	0.044
						0.48	2.38	0						0.438
2	2004	maximum			0.35	0.07	0.01	0		1			1	0.024
						0.24	1.18	0						0.437
2	2005	maximum			0.35	0.07	0.04	0		1			1	0.009
						0.10	0.51	0						0.435
2	2006	maximum			0.35	0.06	0.02	0		1			1	0.002
						0.07	0.12	0						0.433
2	2007	maximum			0.35	0.17	0.84	0		1			1	0.104
						1.26	6.28	0						0.443
2	2008	maximum			0.35	0.08	0.39	0		1			1	0.065
						0.81	4.05	0						0.440
2	2009	maximum			0.35	0.07	0.13	0		1			1	0.039
						0.48	2.39	0						0.438
2	2010	maximum			0.35	0.11	0.03	0		1			1	0.019
						0.24	1.18	0						0.437

ΤΑΦΡΟΣ T1 (3.00x2.80x1.50)m
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Grp	ELEM No	LC No	MAT No	GEO No	h [m]	Reinforcement main	Reinforcement cross	dir	dphi deg	Df No	Load fact	Crack-check	Shr zon	VEd/d [MPa] VRd,ct/d
		MBW												
2	2011	maximum		0.35	0.14	0.06	0		1				1	0.007
					0.12	0.51	0							0.435
2	2012	maximum		0.35	0.15	0.03	0		1				1	0.001
					0.10	0.12	0							0.433
2	2013	maximum		0.35	0.19	0.85	0		1				1	0.108
					1.26	6.28	0							0.443
2	2014	maximum		0.35	0.08	0.41	0		1				1	0.070
					0.81	3.80	0							0.441
2	2015	maximum		0.35	0.07	0.14	0		1				1	0.041
					0.51	2.27	0							0.438
2	2016	maximum		0.35	0.13	0.03	0		1				1	0.021
					0.26	1.16	0							0.437
2	2017	maximum		0.35	0.15	0.06	0		1				1	0.007
					0.17	0.53	0							0.435
2	2018	maximum		0.35	0.20	0.04	0		1				1	0.001
					0.15	0.12	0							0.433
2	2019	maximum		0.35	0.20	0.85	0		1				1	0.107
					1.29	6.44	0							0.442
2	2020	maximum		0.35	0.10	0.41	0		1				1	0.071
					0.78	3.75	0							0.440
2	2021	maximum		0.35	0.06	0.14	0		1				1	0.042
					0.52	2.18	0							0.438
2	2022	maximum		0.35	0.13	0.03	0		1				1	0.021
					0.31	1.10	0							0.437
2	2023	maximum		0.35	0.13	0.07	0		1				1	0.008
					0.22	0.51	0							0.435
2	2024	maximum		0.35	0.23	0.05	0		1				1	0.001
					0.22	0.14	0							0.433
2	2025	maximum		0.35	0.20	0.84	0		1				1	0.105
					1.30	6.49	0							0.441
2	2026	maximum		0.35	0.11	0.40	0		1				1	0.071
					0.77	3.82	0							0.440
2	2027	maximum		0.35	0.06	0.14	0		1				1	0.043
					0.50	2.17	0							0.438
2	2028	maximum		0.35	0.14	0.03	0		1				1	0.022
					0.32	1.07	0							0.437
2	2029	maximum		0.35	0.12	0.08	0		1				1	0.008
					0.25	0.48	0							0.435
2	2030	maximum		0.35	0.24	0.06	0		1				1	0.001
					0.27	0.13	0							0.433
2	2031	maximum		0.35	0.20	0.83	0		1				1	0.104
					1.30	6.50	0							0.441
2	2032	maximum		0.35	0.11	0.40	0		1				1	0.070
					0.79	3.87	0							0.440
2	2033	maximum		0.35	0.06	0.14	0		1				1	0.043
					0.48	2.18	0							0.438
2	2034	maximum		0.35	0.15	0.04	0		1				1	0.022
					0.31	1.06	0							0.437
2	2035	maximum		0.35	0.14	0.09	0		1				1	0.008
					0.26	0.46	0							0.435
2	2036	maximum		0.35	0.22	0.07	0		1				1	0.001
					0.30	0.12	0							0.433
2	2037	maximum		0.35	0.20	0.82	0		1				1	0.104
					1.30	6.49	0							0.441
2	2038	maximum		0.35	0.11	0.40	0		1				1	0.070
					0.79	3.89	0							0.439
2	2039	maximum		0.35	0.07	0.14	0		1				1	0.042
					0.48	2.20	0							0.438
2	2040	maximum		0.35	0.16	0.05	0		1				1	0.022
					0.31	1.06	0							0.437
2	2041	maximum		0.35	0.15	0.10	0		1				1	0.008
					0.26	0.45	0							0.435
2	2042	maximum		0.35	0.21	0.08	0		1				1	0.001
					0.32	0.13	0							0.433
2	2043	maximum		0.35	0.19	0.82	0		1				1	0.104
					1.30	6.49	0							0.441
2	2044	maximum		0.35	0.10	0.40	0		1				1	0.070
					0.80	3.89	0							0.439
2	2045	maximum		0.35	0.08	0.14	0		1				1	0.042
					0.48	2.22	0							0.438
2	2046	maximum		0.35	0.17	0.05	0		1				1	0.022
					0.31	1.07	0							0.437
2	2047	maximum		0.35	0.17	0.11	0		1				1	0.008
					0.26	0.47	0							0.435

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Grp	ELEM No	LC No	MAT No	GEO No	h [m]	Reinforcement main	Reinforcement cross	dir	dphi deg	Df No	Load fact	Crack-check	Shr zon	VEd/d [MPa] VRd,ct/d
		MBW												
2	2048	maximum		0.35	0.21	0.08	0		1				1	0.001
					0.32	0.14	0							0.433
2	2049	maximum		0.35	0.19	0.82	0		1				1	0.104
					1.30	6.48	0							0.441
2	2050	maximum		0.35	0.10	0.33	0		1				1	0.070
					0.80	3.89	0							0.439
2	2051	maximum		0.35	0.08	0.08	0		1				1	0.042
					0.48	2.22	0							0.438
2	2052	maximum		0.35	0.18	0.05	0		1				1	0.022
					0.31	1.08	0							0.437
2	2053	maximum		0.35	0.18	0.12	0		1				1	0.008
					0.26	0.48	0							0.435
2	2054	maximum		0.35	0.21	0.09	0		1				1	0.001
					0.30	0.14	0							0.433
2	2055	maximum		0.35	0.19	0.81	0		1				1	0.103
					1.29	6.47	0							0.441
2	2056	maximum		0.35	0.10	0.39	0		1				1	0.069
					0.80	3.88	0							0.439
2	2057	maximum		0.35	0.08	0.08	0		1				1	0.042
					0.48	2.22	0							0.438
2	2058	maximum		0.35	0.18	0.05	0		1				1	0.022
					0.31	1.08	0							0.437
2	2059	maximum		0.35	0.19	0.12	0		1				1	0.008
					0.26	0.48	0							0.435
2	2060	maximum		0.35	0.21	0.10	0		1				1	0.001
					0.27	0.15	0							0.433
2	2061	maximum		0.35	0.19	0.81	0		1				1	0.103
					1.29	6.47	0							0.441
2	2062	maximum		0.35	0.10	0.39	0		1				1	0.069
					0.80	3.88	0							0.439
2	2063	maximum		0.35	0.08	0.13	0		1				1	0.042
					0.48	2.22	0							0.438
2	2064	maximum		0.35	0.19	0.05	0		1				1	0.022
					0.31	1.09	0							0.437
2	2065	maximum		0.35	0.18	0.12	0		1				1	0.008
					0.26	0.48	0							0.435
2	2066	maximum		0.35	0.21	0.11	0		1				1	0.001
					0.27	0.15	0							0.433
2	2067	maximum		0.35	0.19	0.81	0		1				1	0.103
					1.29	6.46	0							0.441
2	2068	maximum		0.35	0.10	0.39	0		1				1	0.069
					0.80	3.87	0							0.439
2	2069	maximum		0.35	0.08	0.13	0		1				1	0.042
					0.48	2.22	0							0.438
2	2070	maximum		0.35	0.19	0.05	0		1				1	0.022
					0.31	1.09	0							0.437
2	2071	maximum		0.35	0.18	0.12	0		1				1	0.008
					0.27	0.48	0							0.435
2	2072	maximum		0.35	0.21	0.11	0		1				1	0.001
					0.27	0.14	0							0.433
2	2073	maximum		0.35	0.19	0.81	0		1				1	0.103
					1.29	6.46	0							0.441
2	2074	maximum		0.35	0.10	0.39	0		1				1	0.069
					0.80	3.87	0							0.439
2	2075	maximum		0.35	0.07	0.13	0		1				1	0.042
					0.48	2.22	0							0.438
2	2076	maximum		0.35	0.19	0.04	0		1				1	0.022
					0.31	1.09	0							0.437
2	2077	maximum		0.35	0.18	0.12	0		1				1	0.008
					0.27	0.48	0							0.435
2	2078	maximum		0.35	0.21	0.10	0		1				1	0.001
					0.28	0.14	0							0.433
2	2079	maximum		0.35	0.19	0.81	0		1				1	0.103
					1.29	6.46	0							0.441
2	2080	maximum		0.35	0.10	0.39	0		1				1	0.069
					0.80	3.87	0							0.439
2	2081	maximum		0.35	0.08	0.13	0		1				1	0.042
					0.48	2.22	0							0.438
2	2082	maximum		0.35	0.19	0.05	0		1				1	0.022
					0.32	1.09	0							0.437
2	2083	maximum		0.35	0.18	0.12	0		1				1	0.008
					0.27	0.48	0							0.435
2	2084	maximum		0.35	0.21	0.11	0		1				1	0.001
					0.29	0.14	0							0.433

ΤΑΦΡΟΣ T1 (3.00x2.80x1.50)m
CRACK CHECK (QUASI-PERMANENT COMBINATION)

REINFORCEMENT ACC. TO EN 1992-1-1:2004(EC2) in [cm2/m] upper/lower
General load safety factor - as defined in BEMESS: Gamma-f = 1.00
Shear: stresses VEd/d and VRd,ct/d with d=effective depth = h-hm
Shear index 2m = minimum shear reinforcement

Grp	ELEM No	LC No	MAT No	GEO No	h [m]	Reinforcement main	Reinforcement cross	dir	dphi deg	Df No	Load fact	Crack-check	Shr zon	VEd/d [MPa] VRd,ct/d
		MBW												
2	2085	maximum			0.35	0.19	0.81	0		1			1	0.103
						1.29	6.47	0						0.441
2	2086	maximum			0.35	0.10	0.39	0		1			1	0.069
						0.80	3.87	0						0.439
2	2087	maximum			0.35	0.08	0.13	0		1			1	0.042
						0.48	2.22	0						0.438
2	2088	maximum			0.35	0.19	0.05	0		1			1	0.022
						0.32	1.09	0						0.437
2	2089	maximum			0.35	0.18	0.12	0		1			1	0.008
						0.28	0.48	0						0.435
2	2090	maximum			0.35	0.21	0.11	0		1			1	0.001
						0.29	0.13	0						0.433
2	2091	maximum			0.35	0.19	0.81	0		1			1	0.103
						1.29	6.47	0						0.441
2	2092	maximum			0.35	0.10	0.39	0		1			1	0.069
						0.80	3.87	0						0.439
2	2093	maximum			0.35	0.08	0.08	0		1			1	0.042
						0.48	2.22	0						0.438
2	2094	maximum			0.35	0.18	0.05	0		1			1	0.022
						0.32	1.08	0						0.437
2	2095	maximum			0.35	0.19	0.12	0		1			1	0.008
						0.28	0.47	0						0.435
2	2096	maximum			0.35	0.21	0.10	0		1			1	0.001
						0.29	0.13	0						0.433
2	2097	maximum			0.35	0.19	0.82	0		1			1	0.104
						1.30	6.48	0						0.441
2	2098	maximum			0.35	0.10	0.33	0		1			1	0.070
						0.80	3.88	0						0.439
2	2099	maximum			0.35	0.08	0.08	0		1			1	0.042
						0.48	2.22	0						0.438
2	2100	maximum			0.35	0.18	0.05	0		1			1	0.022
						0.32	1.08	0						0.437
2	2101	maximum			0.35	0.18	0.12	0		1			1	0.008
						0.27	0.47	0						0.435
2	2102	maximum			0.35	0.21	0.09	0		1			1	0.001
						0.30	0.13	0						0.433
2	2103	maximum			0.35	0.19	0.82	0		1			1	0.104
						1.30	6.49	0						0.441
2	2104	maximum			0.35	0.10	0.40	0		1			1	0.070
						0.80	3.89	0						0.439
2	2105	maximum			0.35	0.08	0.14	0		1			1	0.042
						0.48	2.21	0						0.438
2	2106	maximum			0.35	0.17	0.05	0		1			1	0.022
						0.32	1.08	0						0.437
2	2107	maximum			0.35	0.17	0.11	0		1			1	0.008
						0.27	0.47	0						0.435
2	2108	maximum			0.35	0.21	0.08	0		1			1	0.001
						0.32	0.13	0						0.433
2	2109	maximum			0.35	0.20	0.82	0		1			1	0.104
						1.30	6.49	0						0.441
2	2110	maximum			0.35	0.11	0.40	0		1			1	0.070
						0.79	3.89	0						0.439
2	2111	maximum			0.35	0.07	0.14	0		1			1	0.042
						0.48	2.21	0						0.438
2	2112	maximum			0.35	0.16	0.05	0		1			1	0.022
						0.32	1.07	0						0.437
2	2113	maximum			0.35	0.15	0.10	0		1			1	0.008
						0.27	0.47	0						0.435
2	2114	maximum			0.35	0.21	0.08	0		1			1	0.001
						0.33	0.13	0						0.433
2	2115	maximum			0.35	0.20	0.83	0		1			1	0.104
						1.30	6.50	0						0.441
2	2116	maximum			0.35	0.11	0.40	0		1			1	0.070
						0.79	3.87	0						0.440
2	2117	maximum			0.35	0.06	0.14	0		1			1	0.043
						0.49	2.19	0						0.438
2	2118	maximum			0.35	0.15	0.04	0		1			1	0.022
						0.33	1.07	0						0.437
2	2119	maximum			0.35	0.14	0.09	0		1			1	0.008
						0.27	0.47	0						0.435
2	2120	maximum			0.35	0.21	0.07	0		1			1	0.001
						0.31	0.13	0						0.433
2	2121	maximum			0.35	0.20	0.84	0		1			1	0.105
						1.30	6.49	0						0.441

ΤΑΦΡΟΣ T1 (3.00x2.80x1.50)m
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Grp	ELEM No	LC No	MAT No	GEO No	h [m]	Reinforcement main	Reinforcement cross	dir	dphi deg	Df No	Load fact	Crack-check	Shr zon	VEd/d [MPa] VRd,ct/d
		MBW												
2	2122	maximum			0.35	0.11	0.40	0		1			1	0.071
						0.77	3.83	0						0.440
2	2123	maximum			0.35	0.06	0.14	0		1			1	0.043
						0.51	2.18	0						0.438
2	2124	maximum			0.35	0.14	0.03	0		1			1	0.022
						0.33	1.08	0						0.437
2	2125	maximum			0.35	0.12	0.08	0		1			1	0.008
						0.26	0.49	0						0.435
2	2126	maximum			0.35	0.23	0.06	0		1			1	0.001
						0.28	0.14	0						0.433
2	2127	maximum			0.35	0.20	0.85	0		1			1	0.107
						1.29	6.44	0						0.442
2	2128	maximum			0.35	0.10	0.41	0		1			1	0.071
						0.78	3.77	0						0.440
2	2129	maximum			0.35	0.06	0.14	0		1			1	0.042
						0.53	2.20	0						0.438
2	2130	maximum			0.35	0.13	0.03	0		1			1	0.021
						0.33	1.12	0						0.437
2	2131	maximum			0.35	0.12	0.07	0		1			1	0.008
						0.23	0.52	0						0.435
2	2132	maximum			0.35	0.23	0.05	0		1			1	0.001
						0.22	0.15	0						0.433
2	2133	maximum			0.35	0.19	0.85	0		1			1	0.108
						1.26	6.28	0						0.443
2	2134	maximum			0.35	0.08	0.41	0		1			1	0.070
						0.82	3.82	0						0.441
2	2135	maximum			0.35	0.07	0.14	0		1			1	0.041
						0.52	2.29	0						0.438
2	2136	maximum			0.35	0.13	0.03	0		1			1	0.021
						0.27	1.18	0						0.437
2	2137	maximum			0.35	0.14	0.06	0		1			1	0.007
						0.17	0.54	0						0.435
2	2138	maximum			0.35	0.19	0.04	0		1			1	0.001
						0.15	0.12	0						0.433
2	2139	maximum			0.35	0.17	0.84	0		1			1	0.104
						1.26	6.28	0						0.443
2	2140	maximum			0.35	0.08	0.39	0		1			1	0.065
						0.82	4.08	0						0.440
2	2141	maximum			0.35	0.07	0.13	0		1			1	0.039
						0.48	2.41	0						0.438
2	2142	maximum			0.35	0.11	0.03	0		1			1	0.019
						0.24	1.20	0						0.437
2	2143	maximum			0.35	0.14	0.06	0		1			1	0.007
						0.12	0.52	0						0.435
2	2144	maximum			0.35	0.14	0.03	0		1			1	0.001
						0.10	0.12	0						0.433
2	2145	maximum			0.35	0.14	0.69	0		1			1	0.092
						1.38	6.89	0						0.443
2	2146	maximum			0.35	0.07	0.35	0		1			1	0.068
						0.86	4.31	0						0.441
2	2147	maximum			0.35	0.04	0.13	0		1			1	0.044
						0.48	2.40	0						0.438
2	2148	maximum			0.35	0.07	0.01	0		1			1	0.024
						0.24	1.18	0						0.437
2	2149	maximum			0.35	0.07	0.04	0		1			1	0.009
						0.10	0.50	0						0.435
2	2150	maximum			0.35	0.06	0.02	0		1			1	0.002
						0.07	0.12	0						0.433
3	3001	maximum			0.35	0.06	0.09	0		1			1	0.025
						0.80	3.98	0						0.438
3	3002	maximum			0.35	0.07	0.19	0		1			1	0.027
						0.92	3.68	0						0.437
3	3003	maximum			0.35	0.07	0.20	0		1			1	0.028
						1.06	3.82	0						0.437
3	3004	maximum			0.35	0.07	0.19	0		1			1	0.028
						1.04	3.87	0						0.437
3	3005	maximum			0.35	0.06	0.18	0		1			1	0.028
						1.03	3.84	0						0.436
3	3006	maximum			0.35	0.05	0.17	0		1			1	0.027
						1.02	3.80	0						0.436
3	3007	maximum			0.35	0.04	0.16	0		1			1	0.027
						1.01	3.76	0						0.436
3	3008	maximum			0.35	0.03	0.16	0		1			1	0.027
						1.00	3.73	0						0.436

ΤΑΦΡΟΣ T1 (3.00x2.80x1.50)m
CRACK CHECK (QUASI-PERMANENT COMBINATION)

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Grp	ELEM No	LC No	MAT No	GEO No	h [m]	Reinforcement main	Reinforcement cross	dir	dphi deg	Df No	Load fact	Crack-check	Shr zon	VEd/d [MPa] VRd,ct/d
		MBW												
3	3009	maximum			0.35	0.03	0.15	0		1			1	0.027
						1.00	3.70	0						0.436
3	3010	maximum			0.35	0.03	0.15	0		1			1	0.027
						0.99	3.68	0						0.437
3	3011	maximum			0.35	0.03	0.15	0		1			1	0.027
						0.99	3.66	0						0.437
3	3012	maximum			0.35	0.03	0.15	0		1			1	0.027
						0.99	3.65	0						0.437
3	3013	maximum			0.35	0.03	0.15	0		1			1	0.027
						1.00	3.66	0						0.436
3	3014	maximum			0.35	0.03	0.15	0		1			1	0.027
						1.01	3.67	0						0.437
3	3015	maximum			0.35	0.03	0.15	0		1			1	0.027
						1.02	3.68	0						0.437
3	3016	maximum			0.35	0.03	0.15	0		1			1	0.027
						1.03	3.70	0						0.437
3	3017	maximum			0.35	0.03	0.15	0		1			1	0.027
						1.05	3.73	0						0.436
3	3018	maximum			0.35	0.03	0.16	0		1			1	0.027
						1.06	3.77	0						0.436
3	3019	maximum			0.35	0.04	0.16	0		1			1	0.027
						1.09	3.82	0						0.436
3	3020	maximum			0.35	0.05	0.17	0		1			1	0.027
						1.11	3.89	0						0.436
3	3021	maximum			0.35	0.06	0.18	0		1			1	0.028
						1.15	3.97	0						0.436
3	3022	maximum			0.35	0.07	0.19	0		1			1	0.028
						1.19	4.04	0						0.437
3	3023	maximum			0.35	0.07	0.20	0		1			1	0.028
						1.24	4.05	0						0.437
3	3024	maximum			0.35	0.07	0.19	0		1			1	0.027
						1.12	3.97	0						0.437
3	3025	maximum			0.35	0.06	0.09	0		1			1	0.025
						0.86	4.28	0						0.438
3	3026	maximum			0.35	0.04	0.01	0		1			1	0.014
						0.47	2.35	0						0.437
3	3027	maximum			0.35	0.04	0.04	0		1			1	0.013
						0.63	2.17	0						0.435
3	3028	maximum			0.35	0.02	0.05	0		1			1	0.014
						0.81	2.22	0						0.435
3	3029	maximum			0.35	0.02	0.05	0		1			1	0.014
						0.85	2.32	0						0.435
3	3030	maximum			0.35	0.01	0.04	0		1			1	0.014
						0.83	2.33	0						0.436
3	3031	maximum			0.35	0.01	0.03	0		1			1	0.014
						0.80	2.31	0						0.435
3	3032	maximum			0.35			0		1			1	0.014
						0.77	2.27	0						0.435
3	3033	maximum			0.35			0		1			1	0.014
						0.74	2.23	0						0.435
3	3034	maximum			0.35		0.02	0		1			1	0.014
						0.71	2.20	0						0.435
3	3035	maximum			0.35		0.02	0		1			1	0.014
						0.69	2.18	0						0.435
3	3036	maximum			0.35		0.02	0		1			1	0.014
						0.68	2.16	0						0.435
3	3037	maximum			0.35		0.02	0		1			1	0.014
						0.66	2.14	0						0.435
3	3038	maximum			0.35		0.02	0		1			1	0.014
						0.67	2.15	0						0.435
3	3039	maximum			0.35		0.02	0		1			1	0.014
						0.69	2.16	0						0.435
3	3040	maximum			0.35		0.02	0		1			1	0.014
						0.71	2.18	0						0.435
3	3041	maximum			0.35		0.02	0		1			1	0.014
						0.73	2.21	0						0.435
3	3042	maximum			0.35		0.02	0		1			1	0.014
						0.76	2.24	0						0.435
3	3043	maximum			0.35			0		1			1	0.014
						0.80	2.29	0						0.435
3	3044	maximum			0.35			0		1			1	0.014
						0.86	2.35	0						0.435
3	3045	maximum			0.35	0.01	0.03	0		1			1	0.014
						0.91	2.42	0						0.435

ΤΑΦΡΟΣ T1 (3.00x2.80x1.50)m
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Grp	ELEM No	LC No	MAT No	GEO No	h [m]	Reinforcement main	Reinforcement cross	dir	dphi deg	Df No	Load fact	Crack-check	Shr zon	VEd/d [MPa] VRd,ct/d
		MBW												
3	3046	maximum			0.35	0.01	0.04	0		1			1	0.014
						0.98	2.48	0						0.436
3	3047	maximum			0.35	0.02	0.05	0		1			1	0.014
						1.04	2.51	0						0.435
3	3048	maximum			0.35	0.02	0.05	0		1			1	0.014
						1.04	2.47	0						0.435
3	3049	maximum			0.35	0.04	0.04	0		1			1	0.013
						0.88	2.48	0						0.435
3	3050	maximum			0.35	0.05	0.01	0		1			1	0.014
						0.54	2.68	0						0.437
3	3051	maximum			0.35	0.09	0.02	0		1			1	0.005
						0.29	1.14	0						0.435
3	3052	maximum			0.35	0.13	0.03	0		1			1	0.005
						0.45	1.09	0						0.435
3	3053	maximum			0.35	0.14	0.03	0		1			1	0.005
						0.60	1.10	0						0.435
3	3054	maximum			0.35	0.14	0.03	0		1			1	0.005
						0.68	1.17	0						0.435
3	3055	maximum			0.35	0.13	0.03	0		1			1	0.005
						0.68	1.20	0						0.435
3	3056	maximum			0.35	0.13	0.03	0		1			1	0.005
						0.64	1.18	0						0.434
3	3057	maximum			0.35	0.12	0.02	0		1			1	0.005
						0.58	1.14	0						0.434
3	3058	maximum			0.35	0.11	0.02	0		1			1	0.005
						0.53	1.11	0						0.434
3	3059	maximum			0.35	0.10	0.02	0		1			1	0.005
						0.49	1.08	0						0.434
3	3060	maximum			0.35	0.07	0.01	0		1			1	0.005
						0.46	1.05	0						0.434
3	3061	maximum			0.35	0.06	0.01	0		1			1	0.005
						0.43	1.03	0						0.434
3	3062	maximum			0.35	0.05	0.01	0		1			1	0.005
						0.41	1.01	0						0.434
3	3063	maximum			0.35	0.05	0.01	0		1			1	0.005
						0.41	1.02	0						0.434
3	3064	maximum			0.35	0.05	0.01	0		1			1	0.005
						0.43	1.04	0						0.434
3	3065	maximum			0.35	0.06	0.01	0		1			1	0.005
						0.46	1.06	0						0.434
3	3066	maximum			0.35	0.07	0.01	0		1			1	0.005
						0.50	1.08	0						0.434
3	3067	maximum			0.35	0.10	0.02	0		1			1	0.005
						0.55	1.12	0						0.434
3	3068	maximum			0.35	0.11	0.02	0		1			1	0.005
						0.61	1.16	0						0.434
3	3069	maximum			0.35	0.12	0.02	0		1			1	0.005
						0.68	1.22	0						0.434
3	3070	maximum			0.35	0.13	0.03	0		1			1	0.005
						0.77	1.28	0						0.434
3	3071	maximum			0.35	0.13	0.03	0		1			1	0.005
						0.85	1.33	0						0.435
3	3072	maximum			0.35	0.14	0.03	0		1			1	0.005
						0.90	1.35	0						0.435
3	3073	maximum			0.35	0.14	0.03	0		1			1	0.005
						0.87	1.33	0						0.435
3	3074	maximum			0.35	0.17	0.03	0		1			1	0.005
						0.88	1.66	0						0.435
3	3075	maximum			0.35	0.21	0.04	0		1			1	0.005
						0.63	1.78	0						0.435
3	3076	maximum			0.35	0.13	0.03	0		1			1	0.001
						0.20	0.38	0						0.433
3	3077	maximum			0.35	0.24	0.05	0		1			1	0.001
						0.36	0.45	0						0.433
3	3078	maximum			0.35	0.27	0.05	0		1			1	0.001
						0.51	0.44	0						0.433
3	3079	maximum			0.35	0.26	0.05	0		1			1	0.001
						0.61	0.46	0						0.434
3	3080	maximum			0.35	0.26	0.05	0		1			1	0.001
						0.61	0.43	0						0.434
3	3081	maximum			0.35	0.26	0.05	0		1			1	0.001
						0.55	0.41	0						0.433
3	3082	maximum			0.35	0.25	0.05	0		1			1	0.001
						0.47	0.38	0						0.433

ΤΑΦΡΟΣ T1 (3.00x2.80x1.50)m
CRACK CHECK (QUASI-PERMANENT COMBINATION)

REINFORCEMENT ACC. TO EN 1992-1-1:2004(EC2) in [cm2/m] upper/lower
General load safety factor - as defined in BEMESS: Gamma-f = 1.00
Shear: stresses VEd/d and VRd,ct/d with d=effective depth = h-hm
Shear index 2m = minimum shear reinforcement

Grp	ELEM No	LC No	MAT No MBW	GEO No	h [m]	Reinforcement main	Reinforcement cross	dphi dir	Df deg	Load No	Crack-fact	check	Shr zon	VEd/d [MPa] VRd,ct/d
3	3083		maximum		0.35	0.24	0.05	0		1			1	0.001
						0.40	0.37	0						0.433
3	3084		maximum		0.35	0.22	0.05	0		1			1	0.001
						0.34	0.34	0						0.433
3	3085		maximum		0.35	0.19	0.04	0		1			1	0.001
						0.31	0.32	0						0.433
3	3086		maximum		0.35	0.14	0.03	0		1			1	0.001
						0.27	0.30	0						0.433
3	3087		maximum		0.35	0.12	0.03	0		1			1	0.001
						0.24	0.29	0						0.433
3	3088		maximum		0.35	0.12	0.02	0		1			1	0.001
						0.21	0.29	0						0.433
3	3089		maximum		0.35	0.12	0.03	0		1			1	0.001
						0.24	0.31	0						0.433
3	3090		maximum		0.35	0.14	0.03	0		1			1	0.001
						0.29	0.32	0						0.433
3	3091		maximum		0.35	0.19	0.04	0		1			1	0.001
						0.32	0.34	0						0.433
3	3092		maximum		0.35	0.22	0.05	0		1			1	0.001
						0.37	0.36	0						0.433
3	3093		maximum		0.35	0.24	0.05	0		1			1	0.001
						0.44	0.39	0						0.433
3	3094		maximum		0.35	0.25	0.05	0		1			1	0.001
						0.53	0.43	0						0.433
3	3095		maximum		0.35	0.26	0.05	0		1			1	0.001
						0.63	0.47	0						0.433
3	3096		maximum		0.35	0.26	0.05	0		1			1	0.001
						0.73	0.51	0						0.434
3	3097		maximum		0.35	0.27	0.05	0		1			1	0.001
						0.78	0.53	0						0.434
3	3098		maximum		0.35	0.28	0.06	0		1			1	0.001
						0.72	0.54	0						0.433
3	3099		maximum		0.35	0.29	0.13	0		1			1	0.001
						0.71	0.69	0						0.433
3	3100		maximum		0.35	0.30	0.08	0		1			1	0.001
						0.47	0.66	0						0.433

Explanations shear state Shr zon:
1 = check without necessary shear reinforcement
2 = shear reinforcement required
m = minimum shear reinforcement

LIVE-LOAD DESIGN RESULTS ACCORDING TO EUROCODE 2

ELEM No	LC No		x [m]	wk [mm]	Reinf.(stat.) Asa	Asm	Asi	diameter [mm] da	dm	di	wk [mm]	Reinforcmt req. Asa	Asm	Asi
1001	1102	U	1.10	2.18	0.44			12	12	12	0.30	5.11	1.02	
	1104	U	1.10	2.18	0.44			12	12	12	0.30	5.11	1.02	
	1106	U	1.11	2.18	0.44			12	12	12	0.30	5.11	1.02	
	1108	U	0.36	2.18	0.44			12	12	12	0.30	2.58	0.52	
	1110	U	1.10	2.18	0.44			12	12	12	0.30	5.11	1.02	
	1111	U	1.11	2.18	0.44			12	12	12	0.30	5.11	1.02	
	1113	U	1.11	2.18	0.44			12	12	12	0.30	5.11	1.02	
	1116	U	1.11	2.18	0.44			12	12	12	0.30	5.11	1.02	
1002	1101	L	0.38	8.53	1.71			12	12	12	0.30	8.53	2.12	
	1102	U	1.11	2.30	0.46			12	12	12	0.30	5.22	1.59	
	1103	L	0.38	8.53	1.71			12	12	12	0.30	8.53	2.12	
	1104	U	1.11	2.30	0.46			12	12	12	0.30	5.22	1.59	
	1105	L	0.37	8.53	1.71			12	12	12	0.30	8.53	2.10	
	1106	U	1.11	2.30	0.46			12	12	12	0.30	5.27	1.62	
	1107	U	1.11	2.30	0.46			12	12	12	0.30	5.22	1.59	
	1108	L	0.38	8.53	1.71			12	12	12	0.30	8.53	2.12	
	1109	L	0.37	8.53	1.71			12	12	12	0.30	8.53	2.10	
	1110	U	1.11	2.30	0.46			12	12	12	0.30	5.27	1.62	
	1111	U	1.11	2.30	0.46			12	12	12	0.30	5.27	1.62	
	1112	L	0.37	8.53	1.71			12	12	12	0.30	8.53	2.10	
	1113	U	1.11	2.30	0.46			12	12	12	0.30	5.27	1.62	
	1114	L	0.37	8.53	1.71			12	12	12	0.30	8.53	2.10	
	1115	U	1.11	2.30	0.46			12	12	12	0.30	5.22	1.59	
	1116	L	0.38	8.53	1.71			12	12	12	0.30	8.53	2.12	
1003	1101	L	0.41	8.41	1.71			12	12	12	0.30	8.41	2.34	
	1102	U	1.11	2.30	0.51			12	12	12	0.30	5.21	1.80	
	1103	L	0.41	8.41	1.71			12	12	12	0.30	8.41	2.34	
	1104	U	1.11	2.30	0.51			12	12	12	0.30	5.21	1.80	
	1105	L	0.39	8.41	1.71			12	12	12	0.30	8.41	2.23	

ΤΑΦΡΟΣ T1 (3.00x2.80x1.50)m
CRACK CHECK (QUASI-PERMANENT COMBINATION)

LIVE-LOAD DESIGN RESULTS ACCORDING TO EUROCODE 2

ELEM No	LC No		x [m]	wk [mm]	Reinf.(stat.) Asa	Asm	Asi	diameter [mm] da	dm	di	wk [mm]	Reinforcmt req. Asa	Asm	Asi
	1106	U		1.11	2.30	0.51		12	12	12	0.30	5.20	1.84	
	1107	U		1.11	2.30	0.51		12	12	12	0.30	5.21	1.80	
	1108	L		0.41	8.41	1.71		12	12	12	0.30	8.41	2.34	
	1109	L		0.39	8.41	1.71		12	12	12	0.30	8.41	2.23	
	1110	U		1.11	2.30	0.51		12	12	12	0.30	5.20	1.84	
	1111	U		1.11	2.30	0.51		12	12	12	0.30	5.20	1.84	
	1112	L		0.39	8.41	1.71		12	12	12	0.30	8.41	2.23	
	1113	U		1.11	2.30	0.51		12	12	12	0.30	5.20	1.84	
	1114	L		0.39	8.41	1.71		12	12	12	0.30	8.41	2.23	
	1115	U		1.11	2.30	0.51		12	12	12	0.30	5.21	1.80	
	1116	L		0.41	8.41	1.71		12	12	12	0.30	8.41	2.34	
1004	1101	L		0.40	8.58	1.87		12	12	12	0.30	8.58	2.49	
	1102	U		1.11	2.27	0.52		12	12	12	0.30	5.20	1.82	
	1103	L		0.40	8.58	1.87		12	12	12	0.30	8.58	2.49	
	1104	U		1.11	2.27	0.52		12	12	12	0.30	5.20	1.82	
	1105	L		0.38	8.58	1.87		12	12	12	0.30	8.58	2.37	
	1106	U		1.10	2.27	0.52		12	12	12	0.30	5.19	1.88	
	1107	U		1.10	2.27	0.52		12	12	12	0.30	5.19	1.88	
	1108	L		0.38	8.58	1.87		12	12	12	0.30	8.58	2.37	
	1109	L		0.38	8.58	1.87		12	12	12	0.30	8.58	2.37	
	1110	U		1.10	2.27	0.52		12	12	12	0.30	5.19	1.88	
	1111	U		1.10	2.27	0.52		12	12	12	0.30	5.19	1.88	
	1112	L		0.38	8.58	1.87		12	12	12	0.30	8.58	2.37	
	1113	U		1.10	2.27	0.52		12	12	12	0.30	5.19	1.88	
	1114	L		0.38	8.58	1.87		12	12	12	0.30	8.58	2.37	
	1115	U		1.11	2.27	0.52		12	12	12	0.30	5.20	1.82	
	1116	L		0.40	8.58	1.87		12	12	12	0.30	8.58	2.49	
1005	1101	L		0.40	8.62	1.92		12	12	12	0.30	8.62	2.53	
	1102	U		1.11	2.25	0.51		12	12	12	0.30	5.13	1.78	
	1103	L		0.40	8.62	1.92		12	12	12	0.30	8.62	2.53	
	1104	U		1.11	2.25	0.51		12	12	12	0.30	5.13	1.78	
	1105	U		1.11	2.25	0.51		12	12	12	0.30	5.13	1.78	
	1106	L		0.40	8.62	1.92		12	12	12	0.30	8.62	2.53	
	1107	U		1.11	2.25	0.51		12	12	12	0.30	5.19	1.87	
	1108	L		0.38	8.62	1.92		12	12	12	0.30	8.62	2.39	
	1109	L		0.38	8.62	1.92		12	12	12	0.30	8.62	2.39	
	1110	U		1.11	2.25	0.51		12	12	12	0.30	5.19	1.87	
	1111	U		1.11	2.25	0.51		12	12	12	0.30	5.19	1.87	
	1112	L		0.38	8.62	1.92		12	12	12	0.30	8.62	2.39	
	1113	U		1.11	2.25	0.51		12	12	12	0.30	5.19	1.87	
	1114	L		0.38	8.62	1.92		12	12	12	0.30	8.62	2.39	
	1115	U		1.11	2.25	0.51		12	12	12	0.30	5.13	1.78	
	1116	L		0.40	8.62	1.92		12	12	12	0.30	8.62	2.53	
1006	1101	L		0.37	8.62	1.92		12	12	12	0.30	8.62	2.37	
	1102	U		1.11	2.23	0.51		12	12	12	0.30	5.13	1.86	
	1103	L		0.40	8.62	1.92		12	12	12	0.30	8.62	2.54	
	1104	U		1.11	2.23	0.51		12	12	12	0.30	5.15	1.75	
	1105	U		1.11	2.23	0.51		12	12	12	0.30	5.15	1.75	
	1106	L		0.40	8.62	1.92		12	12	12	0.30	8.62	2.54	
	1107	U		1.11	2.23	0.51		12	12	12	0.30	5.13	1.86	
	1108	L		0.37	8.62	1.92		12	12	12	0.30	8.62	2.37	
	1109	U		1.11	2.23	0.51		12	12	12	0.30	5.15	1.75	
	1110	L		0.40	8.62	1.92		12	12	12	0.30	8.62	2.54	
	1111	U		1.11	2.23	0.51		12	12	12	0.30	5.13	1.86	
	1112	L		0.37	8.62	1.92		12	12	12	0.30	8.62	2.37	
	1113	U		1.11	2.23	0.51		12	12	12	0.30	5.13	1.86	
	1114	L		0.37	8.62	1.92		12	12	12	0.30	8.62	2.37	
	1115	U		1.11	2.23	0.51		12	12	12	0.30	5.15	1.75	
	1116	L		0.40	8.62	1.92		12	12	12	0.30	8.62	2.54	
1007	1101	L		0.37	8.60	1.91		12	12	12	0.30	8.60	2.35	
	1102	U		1.11	2.22	0.51		12	12	12	0.30	5.15	1.86	
	1103	L		0.40	8.60	1.91		12	12	12	0.30	8.60	2.52	
	1104	U		1.11	2.22	0.51		12	12	12	0.30	5.10	1.71	
	1105	U		1.11	2.22	0.51		12	12	12	0.30	5.10	1.71	
	1106	L		0.40	8.60	1.91		12	12	12	0.30	8.60	2.52	
	1107	U		1.11	2.22	0.51		12	12	12	0.30	5.15	1.86	
	1108	L		0.37	8.60	1.91		12	12	12	0.30	8.60	2.35	
	1109	U		1.11	2.22	0.51		12	12	12	0.30	5.10	1.71	
	1110	L		0.40	8.60	1.91		12	12	12	0.30	8.60	2.52	
	1111	U		1.11	2.22	0.51		12	12	12	0.30	5.15	1.86	
	1112	L		0.37	8.60	1.91		12	12	12	0.30	8.60	2.35	
	1113	U		1.11	2.22	0.51		12	12	12	0.30	5.15	1.86	
	1114	L		0.37	8.60	1.91		12	12	12	0.30	8.60	2.35	
	1115	U		1.11	2.22	0.51		12	12	12	0.30	5.10	1.71	
	1116	L		0.40	8.60	1.91		12	12	12	0.30	8.60	2.52	
1008	1101	L		0.37	8.59	1.90		12	12	12	0.30	8.59	2.32	
	1102	U		1.11	2.22	0.51		12	12	12	0.30	5.14	1.86	
	1103	L		0.40	8.59	1.90		12	12	12	0.30	8.59	2.51	

ΤΑΦΡΟΣ T1 (3.00x2.80x1.50)m
CRACK CHECK (QUASI-PERMANENT COMBINATION)

LIVE-LOAD DESIGN RESULTS ACCORDING TO EUROCODE 2

ELEM No	LC No		x [m]	wk [mm]	Reinf.(stat.) Asa	Asm	Asi	diameter [mm] da	dm	di	wk [mm]	Reinforcmt req. Asa	Asm	Asi
	1104	U		1.11	2.22	0.51		12	12	12	0.30	5.14	1.69	
	1105	U		1.11	2.22	0.51		12	12	12	0.30	5.14	1.69	
	1106	L		0.40	8.59	1.90		12	12	12	0.30	8.59	2.51	
	1107	U		1.11	2.22	0.51		12	12	12	0.30	5.14	1.86	
	1108	L		0.37	8.59	1.90		12	12	12	0.30	8.59	2.32	
	1109	U		1.11	2.22	0.51		12	12	12	0.30	5.14	1.69	
	1110	L		0.40	8.59	1.90		12	12	12	0.30	8.59	2.51	
	1111	U		1.11	2.22	0.51		12	12	12	0.30	5.14	1.86	
	1112	L		0.37	8.59	1.90		12	12	12	0.30	8.59	2.32	
	1113	U		1.11	2.22	0.51		12	12	12	0.30	5.14	1.86	
	1114	L		0.37	8.59	1.90		12	12	12	0.30	8.59	2.32	
	1115	U		1.11	2.22	0.51		12	12	12	0.30	5.14	1.69	
	1116	L		0.40	8.59	1.90		12	12	12	0.30	8.59	2.51	
1009	1101	L		0.37	8.57	1.89		12	12	12	0.30	8.57	2.30	
	1102	U		1.11	2.21	0.51		12	12	12	0.30	5.13	1.86	
	1103	L		0.40	8.57	1.89		12	12	12	0.30	8.57	2.52	
	1104	U		1.10	2.21	0.51		12	12	12	0.30	5.13	1.68	
	1105	U		1.10	2.21	0.51		12	12	12	0.30	5.13	1.68	
	1106	L		0.40	8.57	1.89		12	12	12	0.30	8.57	2.52	
	1107	U		1.11	2.21	0.51		12	12	12	0.30	5.13	1.86	
	1108	L		0.37	8.57	1.89		12	12	12	0.30	8.57	2.30	
	1109	U		1.10	2.21	0.51		12	12	12	0.30	5.13	1.68	
	1110	L		0.40	8.57	1.89		12	12	12	0.30	8.57	2.52	
	1111	U		1.11	2.21	0.51		12	12	12	0.30	5.13	1.86	
	1112	L		0.37	8.57	1.89		12	12	12	0.30	8.57	2.30	
	1113	U		1.11	2.21	0.51		12	12	12	0.30	5.13	1.86	
	1114	L		0.37	8.57	1.89		12	12	12	0.30	8.57	2.30	
	1115	U		1.10	2.21	0.51		12	12	12	0.30	5.13	1.68	
	1116	L		0.40	8.57	1.89		12	12	12	0.30	8.57	2.52	
1010	1101	L		0.37	8.56	1.88		12	12	12	0.30	8.56	2.29	
	1102	U		1.11	2.21	0.51		12	12	12	0.30	5.13	1.85	
	1103	L		0.40	8.56	1.88		12	12	12	0.30	8.56	2.50	
	1104	U		1.10	2.21	0.51		12	12	12	0.30	5.13	1.67	
	1105	U		1.10	2.21	0.51		12	12	12	0.30	5.13	1.67	
	1106	L		0.40	8.56	1.88		12	12	12	0.30	8.56	2.50	
	1107	U		1.11	2.21	0.51		12	12	12	0.30	5.13	1.85	
	1108	L		0.37	8.56	1.88		12	12	12	0.30	8.56	2.29	
	1109	U		1.10	2.21	0.51		12	12	12	0.30	5.13	1.67	
	1110	L		0.40	8.56	1.88		12	12	12	0.30	8.56	2.50	
	1111	U		1.11	2.21	0.51		12	12	12	0.30	5.13	1.85	
	1112	L		0.37	8.56	1.88		12	12	12	0.30	8.56	2.29	
	1113	U		1.11	2.21	0.51		12	12	12	0.30	5.13	1.85	
	1114	L		0.37	8.56	1.88		12	12	12	0.30	8.56	2.29	
	1115	U		1.10	2.21	0.51		12	12	12	0.30	5.13	1.67	
	1116	L		0.40	8.56	1.88		12	12	12	0.30	8.56	2.50	
1011	1101	L		0.37	8.56	1.87		12	12	12	0.30	8.56	2.28	
	1102	U		1.11	2.21	0.51		12	12	12	0.30	5.13	1.85	
	1103	L		0.40	8.56	1.87		12	12	12	0.30	8.56	2.50	
	1104	U		1.10	2.21	0.51		12	12	12	0.30	5.13	1.67	
	1105	U		1.10	2.21	0.51		12	12	12	0.30	5.13	1.67	
	1106	L		0.40	8.56	1.87		12	12	12	0.30	8.56	2.50	
	1107	U		1.11	2.21	0.51		12	12	12	0.30	5.13	1.85	
	1108	L		0.37	8.56	1.87		12	12	12	0.30	8.56	2.28	
	1109	U		1.10	2.21	0.51		12	12	12	0.30	5.13	1.67	
	1110	L		0.40	8.56	1.87		12	12	12	0.30	8.56	2.50	
	1111	U		1.11	2.21	0.51		12	12	12	0.30	5.13	1.85	
	1112	L		0.37	8.56	1.87		12	12	12	0.30	8.56	2.28	
	1113	U		1.11	2.21	0.51		12	12	12	0.30	5.13	1.85	
	1114	L		0.37	8.56	1.87		12	12	12	0.30	8.56	2.28	
	1115	U		1.10	2.21	0.51		12	12	12	0.30	5.13	1.67	
	1116	L		0.40	8.56	1.87		12	12	12	0.30	8.56	2.50	
1012	1101	L		0.37	8.55	1.87		12	12	12	0.30	8.55	2.28	
	1102	U		1.11	2.21	0.51		12	12	12	0.30	5.13	1.85	
	1103	L		0.40	8.55	1.87		12	12	12	0.30	8.55	2.49	
	1104	U		1.10	2.21	0.51		12	12	12	0.30	5.13	1.67	
	1105	U		1.10	2.21	0.51		12	12	12	0.30	5.13	1.67	
	1106	L		0.40	8.55	1.87		12	12	12	0.30	8.55	2.49	
	1107	U		1.11	2.21	0.51		12	12	12	0.30	5.13	1.85	
	1108	L		0.37	8.55	1.87		12	12	12	0.30	8.55	2.28	
	1109	U		1.10	2.21	0.51		12	12	12	0.30	5.13	1.67	
	1110	L		0.40	8.55	1.87		12	12	12	0.30	8.55	2.49	
	1111	U		1.11	2.21	0.51		12	12	12	0.30	5.13	1.85	
	1112	L		0.37	8.55	1.87		12	12	12	0.30	8.55	2.28	
	1113	U		1.11	2.21	0.51		12	12	12	0.30	5.13	1.85	
	1114	L		0.37	8.55	1.87		12	12	12	0.30	8.55	2.28	
	1115	U		1.10	2.21	0.51		12	12	12	0.30	5.13	1.67	
	1116	L		0.40	8.55	1.87		12	12	12	0.30	8.55	2.49	
1013	1101	L		0.37	8.55	1.87		12	12	12	0.30	8.55	2.28	

ΤΑΦΡΟΣ T1 (3.00x2.80x1.50)m
CRACK CHECK (QUASI-PERMANENT COMBINATION)

LIVE-LOAD DESIGN RESULTS ACCORDING TO EUROCODE 2

ELEM No	LC No		x [m]	wk [mm]	Reinf.(stat.) Asa	Asm	Asi	diameter [mm] da	dm	di	wk [mm]	Reinforcmt req. Asa	Asm	Asi
	1102	U		1.11	2.21	0.51		12	12	12	0.30	5.12	1.85	
	1103	L		0.40	8.55	1.87		12	12	12	0.30	8.55	2.49	
	1104	U		1.10	2.21	0.51		12	12	12	0.30	5.12	1.65	
	1105	L		0.39	8.55	1.87		12	12	12	0.30	8.55	2.39	
	1106	U		1.10	2.21	0.51		12	12	12	0.30	5.12	1.65	
	1107	U		1.11	2.21	0.51		12	12	12	0.30	5.12	1.85	
	1108	L		0.37	8.55	1.87		12	12	12	0.30	8.55	2.28	
	1109	U		1.10	2.21	0.51		12	12	12	0.30	5.12	1.77	
	1110	L		0.37	8.55	1.87		12	12	12	0.30	8.55	2.28	
	1111	U		1.11	2.21	0.51		12	12	12	0.30	5.12	1.85	
	1112	L		0.37	8.55	1.87		12	12	12	0.30	8.55	2.28	
	1113	U		1.11	2.21	0.51		12	12	12	0.30	5.12	1.85	
	1114	L		0.37	8.55	1.87		12	12	12	0.30	8.55	2.28	
	1115	L		0.39	8.55	1.87		12	12	12	0.30	8.55	2.39	
	1116	U		1.10	2.21	0.51		12	12	12	0.30	5.12	1.65	
1014	1101	L		0.37	8.55	1.87		12	12	12	0.30	8.55	2.28	
	1102	U		1.11	2.21	0.51		12	12	12	0.30	5.13	1.85	
	1103	L		0.40	8.55	1.87		12	12	12	0.30	8.55	2.49	
	1104	U		1.10	2.21	0.51		12	12	12	0.30	5.13	1.67	
	1105	L		0.40	8.55	1.87		12	12	12	0.30	8.55	2.49	
	1106	U		1.10	2.21	0.51		12	12	12	0.30	5.13	1.67	
	1107	U		1.11	2.21	0.51		12	12	12	0.30	5.13	1.85	
	1108	L		0.37	8.55	1.87		12	12	12	0.30	8.55	2.28	
	1109	L		0.40	8.55	1.87		12	12	12	0.30	8.55	2.49	
	1110	U		1.10	2.21	0.51		12	12	12	0.30	5.13	1.67	
	1111	U		1.11	2.21	0.51		12	12	12	0.30	5.13	1.85	
	1112	L		0.37	8.55	1.87		12	12	12	0.30	8.55	2.28	
	1113	U		1.11	2.21	0.51		12	12	12	0.30	5.13	1.85	
	1114	L		0.37	8.55	1.87		12	12	12	0.30	8.55	2.28	
	1115	L		0.40	8.55	1.87		12	12	12	0.30	8.55	2.49	
	1116	U		1.10	2.21	0.51		12	12	12	0.30	5.13	1.67	
1015	1101	L		0.37	8.56	1.87		12	12	12	0.30	8.56	2.28	
	1102	U		1.11	2.21	0.51		12	12	12	0.30	5.13	1.85	
	1103	L		0.40	8.56	1.87		12	12	12	0.30	8.56	2.50	
	1104	U		1.10	2.21	0.51		12	12	12	0.30	5.13	1.67	
	1105	L		0.40	8.56	1.87		12	12	12	0.30	8.56	2.50	
	1106	U		1.10	2.21	0.51		12	12	12	0.30	5.13	1.67	
	1107	U		1.11	2.21	0.51		12	12	12	0.30	5.13	1.85	
	1108	L		0.37	8.56	1.87		12	12	12	0.30	8.56	2.28	
	1109	L		0.40	8.56	1.87		12	12	12	0.30	8.56	2.50	
	1110	U		1.10	2.21	0.51		12	12	12	0.30	5.13	1.67	
	1111	U		1.11	2.21	0.51		12	12	12	0.30	5.13	1.85	
	1112	L		0.37	8.56	1.87		12	12	12	0.30	8.56	2.28	
	1113	U		1.11	2.21	0.51		12	12	12	0.30	5.13	1.85	
	1114	L		0.37	8.56	1.87		12	12	12	0.30	8.56	2.28	
	1115	L		0.40	8.56	1.87		12	12	12	0.30	8.56	2.50	
	1116	U		1.10	2.21	0.51		12	12	12	0.30	5.13	1.67	
1016	1101	L		0.37	8.56	1.88		12	12	12	0.30	8.56	2.29	
	1102	U		1.11	2.21	0.51		12	12	12	0.30	5.13	1.85	
	1103	L		0.40	8.56	1.88		12	12	12	0.30	8.56	2.50	
	1104	U		1.10	2.21	0.51		12	12	12	0.30	5.13	1.67	
	1105	L		0.40	8.56	1.88		12	12	12	0.30	8.56	2.50	
	1106	U		1.10	2.21	0.51		12	12	12	0.30	5.13	1.67	
	1107	U		1.11	2.21	0.51		12	12	12	0.30	5.13	1.85	
	1108	L		0.37	8.56	1.88		12	12	12	0.30	8.56	2.29	
	1109	L		0.40	8.56	1.88		12	12	12	0.30	8.56	2.50	
	1110	U		1.10	2.21	0.51		12	12	12	0.30	5.13	1.67	
	1111	U		1.11	2.21	0.51		12	12	12	0.30	5.13	1.85	
	1112	L		0.37	8.56	1.88		12	12	12	0.30	8.56	2.29	
	1113	U		1.11	2.21	0.51		12	12	12	0.30	5.13	1.85	
	1114	L		0.37	8.56	1.88		12	12	12	0.30	8.56	2.29	
	1115	L		0.40	8.56	1.88		12	12	12	0.30	8.56	2.50	
	1116	U		1.10	2.21	0.51		12	12	12	0.30	5.13	1.67	
1017	1101	L		0.37	8.57	1.89		12	12	12	0.30	8.57	2.30	
	1102	U		1.11	2.21	0.51		12	12	12	0.30	5.13	1.86	
	1103	L		0.40	8.57	1.89		12	12	12	0.30	8.57	2.52	
	1104	U		1.10	2.21	0.51		12	12	12	0.30	5.13	1.68	
	1105	L		0.40	8.57	1.89		12	12	12	0.30	8.57	2.52	
	1106	U		1.10	2.21	0.51		12	12	12	0.30	5.13	1.68	
	1107	U		1.11	2.21	0.51		12	12	12	0.30	5.13	1.86	
	1108	L		0.37	8.57	1.89		12	12	12	0.30	8.57	2.30	
	1109	L		0.40	8.57	1.89		12	12	12	0.30	8.57	2.52	
	1110	U		1.10	2.21	0.51		12	12	12	0.30	5.13	1.68	
	1111	U		1.11	2.21	0.51		12	12	12	0.30	5.13	1.86	
	1112	L		0.37	8.57	1.89		12	12	12	0.30	8.57	2.30	
	1113	U		1.11	2.21	0.51		12	12	12	0.30	5.13	1.86	
	1114	L		0.37	8.57	1.89		12	12	12	0.30	8.57	2.30	
	1115	L		0.40	8.57	1.89		12	12	12	0.30	8.57	2.52	

ΤΑΦΡΟΣ T1 (3.00x2.80x1.50)m
CRACK CHECK (QUASI-PERMANENT COMBINATION)

LIVE-LOAD DESIGN RESULTS ACCORDING TO EUROCODE 2

ELEM No	LC No		x [m]	wk [mm]	Reinf.(stat.) Asa	Asm	Asi	diameter [mm] da	dm	di	wk [mm]	Reinforcmt req. Asa	Asm	Asi
	1116	U		1.10	2.21	0.51		12	12	12	0.30	5.13	1.68	
1018	1101	L		0.37	8.59	1.90		12	12	12	0.30	8.59	2.32	
	1102	U		1.11	2.22	0.51		12	12	12	0.30	5.14	1.86	
	1103	L		0.40	8.59	1.90		12	12	12	0.30	8.59	2.51	
	1104	U		1.11	2.22	0.51		12	12	12	0.30	5.14	1.69	
	1105	L		0.40	8.59	1.90		12	12	12	0.30	8.59	2.51	
	1106	U		1.11	2.22	0.51		12	12	12	0.30	5.14	1.69	
	1107	U		1.11	2.22	0.51		12	12	12	0.30	5.14	1.86	
	1108	L		0.37	8.59	1.90		12	12	12	0.30	8.59	2.32	
	1109	L		0.40	8.59	1.90		12	12	12	0.30	8.59	2.51	
	1110	U		1.11	2.22	0.51		12	12	12	0.30	5.14	1.69	
	1111	U		1.11	2.22	0.51		12	12	12	0.30	5.14	1.86	
	1112	L		0.37	8.59	1.90		12	12	12	0.30	8.59	2.32	
	1113	U		1.11	2.22	0.51		12	12	12	0.30	5.14	1.86	
	1114	L		0.37	8.59	1.90		12	12	12	0.30	8.59	2.32	
	1115	L		0.40	8.59	1.90		12	12	12	0.30	8.59	2.51	
	1116	U		1.11	2.22	0.51		12	12	12	0.30	5.14	1.69	
1019	1101	L		0.37	8.60	1.91		12	12	12	0.30	8.60	2.35	
	1102	U		1.11	2.22	0.51		12	12	12	0.30	5.15	1.86	
	1103	L		0.40	8.60	1.91		12	12	12	0.30	8.60	2.52	
	1104	U		1.11	2.22	0.51		12	12	12	0.30	5.10	1.71	
	1105	L		0.40	8.60	1.91		12	12	12	0.30	8.60	2.52	
	1106	U		1.11	2.22	0.51		12	12	12	0.30	5.10	1.71	
	1107	U		1.11	2.22	0.51		12	12	12	0.30	5.15	1.86	
	1108	L		0.37	8.60	1.91		12	12	12	0.30	8.60	2.35	
	1109	L		0.40	8.60	1.91		12	12	12	0.30	8.60	2.52	
	1110	U		1.11	2.22	0.51		12	12	12	0.30	5.10	1.71	
	1111	U		1.11	2.22	0.51		12	12	12	0.30	5.15	1.86	
	1112	L		0.37	8.60	1.91		12	12	12	0.30	8.60	2.35	
	1113	U		1.11	2.22	0.51		12	12	12	0.30	5.15	1.86	
	1114	L		0.37	8.60	1.91		12	12	12	0.30	8.60	2.35	
	1115	L		0.40	8.60	1.91		12	12	12	0.30	8.60	2.52	
	1116	U		1.11	2.22	0.51		12	12	12	0.30	5.10	1.71	
1020	1101	L		0.37	8.62	1.92		12	12	12	0.30	8.62	2.37	
	1102	U		1.11	2.23	0.51		12	12	12	0.30	5.13	1.86	
	1103	L		0.40	8.62	1.92		12	12	12	0.30	8.62	2.54	
	1104	U		1.11	2.23	0.51		12	12	12	0.30	5.15	1.75	
	1105	L		0.40	8.62	1.92		12	12	12	0.30	8.62	2.54	
	1106	U		1.11	2.23	0.51		12	12	12	0.30	5.15	1.75	
	1107	U		1.11	2.23	0.51		12	12	12	0.30	5.13	1.86	
	1108	L		0.37	8.62	1.92		12	12	12	0.30	8.62	2.37	
	1109	L		0.40	8.62	1.92		12	12	12	0.30	8.62	2.54	
	1110	U		1.11	2.23	0.51		12	12	12	0.30	5.15	1.75	
	1111	U		1.11	2.23	0.51		12	12	12	0.30	5.13	1.86	
	1112	L		0.37	8.62	1.92		12	12	12	0.30	8.62	2.37	
	1113	U		1.11	2.23	0.51		12	12	12	0.30	5.13	1.86	
	1114	L		0.37	8.62	1.92		12	12	12	0.30	8.62	2.37	
	1115	L		0.40	8.62	1.92		12	12	12	0.30	8.62	2.54	
	1116	U		1.11	2.23	0.51		12	12	12	0.30	5.15	1.75	
1021	1101	L		0.40	8.62	1.92		12	12	12	0.30	8.62	2.53	
	1102	U		1.11	2.25	0.51		12	12	12	0.30	5.13	1.78	
	1103	L		0.40	8.62	1.92		12	12	12	0.30	8.62	2.53	
	1104	U		1.11	2.25	0.51		12	12	12	0.30	5.13	1.78	
	1105	L		0.40	8.62	1.92		12	12	12	0.30	8.62	2.53	
	1106	U		1.11	2.25	0.51		12	12	12	0.30	5.13	1.78	
	1107	U		1.11	2.25	0.51		12	12	12	0.30	5.19	1.87	
	1108	L		0.38	8.62	1.92		12	12	12	0.30	8.62	2.39	
	1109	U		1.11	2.25	0.51		12	12	12	0.30	5.19	1.87	
	1110	L		0.38	8.62	1.92		12	12	12	0.30	8.62	2.39	
	1111	U		1.11	2.25	0.51		12	12	12	0.30	5.19	1.87	
	1112	L		0.38	8.62	1.92		12	12	12	0.30	8.62	2.39	
	1113	U		1.11	2.25	0.51		12	12	12	0.30	5.19	1.87	
	1114	L		0.38	8.62	1.92		12	12	12	0.30	8.62	2.39	
	1115	L		0.40	8.62	1.92		12	12	12	0.30	8.62	2.53	
	1116	U		1.11	2.25	0.51		12	12	12	0.30	5.13	1.78	
1022	1101	L		0.40	8.58	1.87		12	12	12	0.30	8.58	2.49	
	1102	U		1.11	2.27	0.52		12	12	12	0.30	5.20	1.82	
	1103	L		0.40	8.58	1.87		12	12	12	0.30	8.58	2.49	
	1104	U		1.11	2.27	0.52		12	12	12	0.30	5.20	1.82	
	1105	U		1.10	2.27	0.52		12	12	12	0.30	5.19	1.88	
	1106	L		0.38	8.58	1.87		12	12	12	0.30	8.58	2.37	
	1107	U		1.10	2.27	0.52		12	12	12	0.30	5.19	1.88	
	1108	L		0.38	8.58	1.87		12	12	12	0.30	8.58	2.37	
	1109	U		1.10	2.27	0.52		12	12	12	0.30	5.19	1.88	
	1110	L		0.38	8.58	1.87		12	12	12	0.30	8.58	2.37	
	1111	U		1.10	2.27	0.52		12	12	12	0.30	5.19	1.88	
	1112	L		0.38	8.58	1.87		12	12	12	0.30	8.58	2.37	
	1113	U		1.10	2.27	0.52		12	12	12	0.30	5.19	1.88	

ΤΑΦΡΟΣ T1 (3.00x2.80x1.50)m
CRACK CHECK (QUASI-PERMANENT COMBINATION)

LIVE-LOAD DESIGN RESULTS ACCORDING TO EUROCODE 2

ELEM No	LC No		x [m]	wk [mm]	Reinf.(stat.) Asa	Asm	Asi	diameter [mm] da	dm	di	wk [mm]	Reinforcmt req. Asa	Asm	Asi
	1114	L		0.38	8.58	1.87		12	12	12	0.30	8.58	2.37	
	1115	L		0.40	8.58	1.87		12	12	12	0.30	8.58	2.49	
	1116	U		1.11	2.27	0.52		12	12	12	0.30	5.20	1.82	
1023	1101	L		0.41	8.44	1.70		12	12	12	0.30	8.44	2.34	
	1102	U		1.11	2.30	0.51		12	12	12	0.30	5.21	1.80	
	1103	L		0.41	8.44	1.70		12	12	12	0.30	8.44	2.34	
	1104	U		1.11	2.30	0.51		12	12	12	0.30	5.21	1.80	
	1105	U		1.11	2.30	0.51		12	12	12	0.30	5.20	1.84	
	1106	L		0.40	8.44	1.70		12	12	12	0.30	8.44	2.23	
	1107	U		1.11	2.30	0.51		12	12	12	0.30	5.21	1.80	
	1108	L		0.41	8.44	1.70		12	12	12	0.30	8.44	2.34	
	1109	U		1.11	2.30	0.51		12	12	12	0.30	5.20	1.84	
	1110	L		0.40	8.44	1.70		12	12	12	0.30	8.44	2.23	
	1111	U		1.11	2.30	0.51		12	12	12	0.30	5.20	1.84	
	1112	L		0.40	8.44	1.70		12	12	12	0.30	8.44	2.23	
	1113	U		1.11	2.30	0.51		12	12	12	0.30	5.20	1.84	
	1114	L		0.40	8.44	1.70		12	12	12	0.30	8.44	2.23	
	1115	L		0.41	8.44	1.70		12	12	12	0.30	8.44	2.34	
	1116	U		1.11	2.30	0.51		12	12	12	0.30	5.21	1.80	
1024	1101	L		0.37	8.56	1.71		12	12	12	0.30	8.56	2.13	
	1102	U		1.11	2.30	0.46		12	12	12	0.30	5.22	1.59	
	1103	L		0.37	8.56	1.71		12	12	12	0.30	8.56	2.13	
	1104	U		1.11	2.30	0.46		12	12	12	0.30	5.22	1.59	
	1105	U		1.11	2.30	0.46		12	12	12	0.30	5.27	1.62	
	1106	L		0.37	8.56	1.71		12	12	12	0.30	8.56	2.09	
	1107	U		1.11	2.30	0.46		12	12	12	0.30	5.22	1.59	
	1108	L		0.37	8.56	1.71		12	12	12	0.30	8.56	2.13	
	1109	U		1.11	2.30	0.46		12	12	12	0.30	5.27	1.62	
	1110	L		0.37	8.56	1.71		12	12	12	0.30	8.56	2.09	
	1111	U		1.11	2.30	0.46		12	12	12	0.30	5.27	1.62	
	1112	L		0.37	8.56	1.71		12	12	12	0.30	8.56	2.09	
	1113	U		1.11	2.30	0.46		12	12	12	0.30	5.27	1.62	
	1114	L		0.37	8.56	1.71		12	12	12	0.30	8.56	2.09	
	1115	L		0.37	8.56	1.71		12	12	12	0.30	8.56	2.13	
	1116	U		1.11	2.30	0.46		12	12	12	0.30	5.22	1.59	
1025	1102	U		1.10	2.18	0.44		12	12	12	0.30	5.11	1.02	
	1104	U		1.10	2.18	0.44		12	12	12	0.30	5.11	1.02	
	1105	U		1.11	2.18	0.44		12	12	12	0.30	5.11	1.02	
	1108	U		0.36	2.18	0.44		12	12	12	0.30	2.58	0.52	
	1109	U		1.10	2.18	0.44		12	12	12	0.30	5.11	1.02	
	1111	U		1.11	2.18	0.44		12	12	12	0.30	5.11	1.02	
	1113	U		1.11	2.18	0.44		12	12	12	0.30	5.11	1.02	
	1115	U		1.11	2.18	0.44		12	12	12	0.30	5.11	1.02	
1026	1102	U		1.10	2.45	0.49		12	12	12	0.30	5.39	1.08	
	1104	U		1.10	2.45	0.49		12	12	12	0.30	5.39	1.08	
	1106	U		1.10	2.45	0.49		12	12	12	0.30	5.45	1.09	
	1107	U		1.10	2.45	0.49		12	12	12	0.30	5.39	1.08	
	1110	U		1.10	2.45	0.49		12	12	12	0.30	5.39	1.08	
	1111	U		1.10	2.45	0.49		12	12	12	0.30	5.45	1.09	
	1114	U		1.10	2.45	0.49		12	12	12	0.30	5.39	1.08	
	1116	U		1.10	2.45	0.49		12	12	12	0.30	5.45	1.09	
1027	1102	U		1.10	2.50	0.50		12	12	12	0.30	5.50	1.24	
	1104	U		1.10	2.50	0.50		12	12	12	0.30	5.50	1.24	
	1106	U		1.11	2.50	0.50		12	12	12	0.30	5.50	1.29	
	1107	U		1.10	2.50	0.50		12	12	12	0.30	5.50	1.24	
	1110	U		1.10	2.50	0.50		12	12	12	0.30	5.50	1.24	
	1111	U		1.11	2.50	0.50		12	12	12	0.30	5.50	1.29	
	1114	U		1.10	2.50	0.50		12	12	12	0.30	5.50	1.24	
	1116	U		1.11	2.50	0.50		12	12	12	0.30	5.50	1.29	
1028	1101	L		0.31	7.64	1.62		12	12	12	0.30	7.64	1.68	
	1102	U		1.10	2.49	0.50		12	12	12	0.30	5.49	1.61	
	1103	L		0.31	7.64	1.62		12	12	12	0.30	7.64	1.68	
	1104	U		1.10	2.49	0.50		12	12	12	0.30	5.49	1.61	
	1106	U		1.11	2.49	0.50		12	12	12	0.30	5.49	1.69	
	1107	U		1.10	2.49	0.50		12	12	12	0.30	5.49	1.61	
	1108	L		0.31	7.64	1.62		12	12	12	0.30	7.64	1.68	
	1110	U		1.11	2.49	0.50		12	12	12	0.30	5.49	1.69	
	1111	U		1.11	2.49	0.50		12	12	12	0.30	5.49	1.69	
	1113	U		1.11	2.49	0.50		12	12	12	0.30	5.49	1.69	
	1115	U		1.10	2.49	0.50		12	12	12	0.30	5.49	1.61	
	1116	L		0.31	7.64	1.62		12	12	12	0.30	7.64	1.68	
1029	1101	L		0.33	7.58	1.65		12	12	12	0.30	7.58	1.80	
	1102	U		1.10	2.48	0.52		12	12	12	0.30	5.46	1.78	
	1103	L		0.33	7.58	1.65		12	12	12	0.30	7.58	1.80	
	1104	U		1.10	2.48	0.52		12	12	12	0.30	5.46	1.78	
	1105	L		0.30	7.58	1.65		12	12	12	0.30	7.58	1.67	
	1106	U		1.11	2.48	0.52		12	12	12	0.30	5.45	1.88	
	1107	U		1.10	2.48	0.52		12	12	12	0.30	5.46	1.78	

ΤΑΦΡΟΣ T1 (3.00x2.80x1.50)m
CRACK CHECK (QUASI-PERMANENT COMBINATION)

LIVE-LOAD DESIGN RESULTS ACCORDING TO EUROCODE 2

ELEM No	LC No		x [m]	wk [mm]	Reinf.(stat.) Asa	Asm	Asi	diameter [mm] da	dm	di	wk [mm]	Reinforcmt req. Asa	Asm	Asi
	1108	L		0.33	7.58	1.65		12	12	12	0.30	7.58	1.80	
	1109	L		0.30	7.58	1.65		12	12	12	0.30	7.58	1.67	
	1110	U		1.11	2.48	0.52		12	12	12	0.30	5.45	1.88	
	1111	U		1.11	2.48	0.52		12	12	12	0.30	5.45	1.88	
	1112	L		0.30	7.58	1.65		12	12	12	0.30	7.58	1.67	
	1113	U		1.11	2.48	0.52		12	12	12	0.30	5.45	1.88	
	1114	L		0.30	7.58	1.65		12	12	12	0.30	7.58	1.67	
	1115	U		1.10	2.48	0.52		12	12	12	0.30	5.46	1.78	
	1116	L		0.33	7.58	1.65		12	12	12	0.30	7.58	1.80	
1030	1101	L		0.34	7.61	1.67		12	12	12	0.30	7.61	1.86	
	1102	U		1.10	2.46	0.54		12	12	12	0.30	5.42	1.84	
	1103	L		0.34	7.61	1.67		12	12	12	0.30	7.61	1.86	
	1104	U		1.10	2.46	0.54		12	12	12	0.30	5.42	1.84	
	1105	U		1.10	2.46	0.54		12	12	12	0.30	5.42	1.84	
	1106	L		0.34	7.61	1.67		12	12	12	0.30	7.61	1.86	
	1107	U		1.11	2.46	0.54		12	12	12	0.30	5.42	1.96	
	1108	L		0.31	7.61	1.67		12	12	12	0.30	7.61	1.70	
	1109	L		0.31	7.61	1.67		12	12	12	0.30	7.61	1.70	
	1110	U		1.11	2.46	0.54		12	12	12	0.30	5.42	1.96	
	1111	U		1.11	2.46	0.54		12	12	12	0.30	5.42	1.96	
	1112	L		0.31	7.61	1.67		12	12	12	0.30	7.61	1.70	
	1113	U		1.11	2.46	0.54		12	12	12	0.30	5.42	1.96	
	1114	L		0.31	7.61	1.67		12	12	12	0.30	7.61	1.70	
	1115	U		1.10	2.46	0.54		12	12	12	0.30	5.42	1.84	
	1116	L		0.34	7.61	1.67		12	12	12	0.30	7.61	1.86	
1031	1101	L		0.30	7.65	1.68		12	12	12	0.30	7.65	1.70	
	1102	U		1.11	2.46	0.55		12	12	12	0.30	5.45	1.99	
	1103	L		0.33	7.65	1.68		12	12	12	0.30	7.65	1.86	
	1104	U		1.10	2.46	0.55		12	12	12	0.30	5.40	1.85	
	1105	U		1.10	2.46	0.55		12	12	12	0.30	5.40	1.85	
	1106	L		0.33	7.65	1.68		12	12	12	0.30	7.65	1.86	
	1107	U		1.11	2.46	0.55		12	12	12	0.30	5.45	1.99	
	1108	L		0.30	7.65	1.68		12	12	12	0.30	7.65	1.70	
	1109	L		0.30	7.65	1.68		12	12	12	0.30	7.65	1.70	
	1110	U		1.11	2.46	0.55		12	12	12	0.30	5.45	1.99	
	1111	U		1.11	2.46	0.55		12	12	12	0.30	5.45	1.99	
	1112	L		0.30	7.65	1.68		12	12	12	0.30	7.65	1.70	
	1113	U		1.11	2.46	0.55		12	12	12	0.30	5.45	1.99	
	1114	L		0.30	7.65	1.68		12	12	12	0.30	7.65	1.70	
	1115	U		1.10	2.46	0.55		12	12	12	0.30	5.40	1.85	
	1116	L		0.33	7.65	1.68		12	12	12	0.30	7.65	1.86	
1032	1102	U		1.11	2.45	0.55		12	12	12	0.30	5.44	2.01	
	1103	L		0.33	7.68	1.68		12	12	12	0.30	7.68	1.86	
	1104	U		1.10	2.45	0.55		12	12	12	0.30	5.44	1.85	
	1105	U		1.10	2.45	0.55		12	12	12	0.30	5.44	1.85	
	1106	L		0.33	7.68	1.68		12	12	12	0.30	7.68	1.86	
	1107	U		1.11	2.45	0.55		12	12	12	0.30	5.44	2.01	
	1110	U		1.11	2.45	0.55		12	12	12	0.30	5.44	2.01	
	1111	U		1.11	2.45	0.55		12	12	12	0.30	5.44	2.01	
	1113	U		1.11	2.45	0.55		12	12	12	0.30	5.44	2.01	
	1115	U		1.10	2.45	0.55		12	12	12	0.30	5.44	1.85	
	1116	L		0.33	7.68	1.68		12	12	12	0.30	7.68	1.86	
1033	1102	U		1.11	2.45	0.56		12	12	12	0.30	5.43	2.02	
	1103	L		0.33	7.69	1.67		12	12	12	0.30	7.69	1.83	
	1104	U		1.10	2.45	0.56		12	12	12	0.30	5.43	1.84	
	1105	U		1.10	2.45	0.56		12	12	12	0.30	5.43	1.84	
	1106	L		0.33	7.69	1.67		12	12	12	0.30	7.69	1.83	
	1107	U		1.11	2.45	0.56		12	12	12	0.30	5.43	2.02	
	1110	U		0.57	2.45	0.56		12	12	12	0.30	3.56	1.05	
	1111	U		1.11	2.45	0.56		12	12	12	0.30	5.43	2.02	
	1113	U		1.11	2.45	0.56		12	12	12	0.30	5.43	2.02	
	1115	U		1.10	2.45	0.56		12	12	12	0.30	5.43	1.84	
	1116	L		0.33	7.69	1.67		12	12	12	0.30	7.69	1.83	
1034	1102	U		1.11	2.44	0.56		12	12	12	0.30	5.43	2.03	
	1103	L		0.33	7.70	1.66		12	12	12	0.30	7.70	1.82	
	1104	U		1.10	2.44	0.56		12	12	12	0.30	5.43	1.83	
	1105	U		1.10	2.44	0.56		12	12	12	0.30	5.43	1.83	
	1106	L		0.33	7.70	1.66		12	12	12	0.30	7.70	1.82	
	1107	U		1.11	2.44	0.56		12	12	12	0.30	5.43	2.03	
	1109	U		1.10	2.44	0.56		12	12	12	0.30	5.43	1.83	
	1110	L		0.33	7.70	1.66		12	12	12	0.30	7.70	1.82	
	1111	U		1.11	2.44	0.56		12	12	12	0.30	5.43	2.03	
	1113	U		1.11	2.44	0.56		12	12	12	0.30	5.43	2.03	
	1115	U		1.10	2.44	0.56		12	12	12	0.30	5.43	1.83	
	1116	L		0.33	7.70	1.66		12	12	12	0.30	7.70	1.82	
1035	1102	U		1.11	2.44	0.56		12	12	12	0.30	5.43	2.01	
	1103	L		0.33	7.69	1.65		12	12	12	0.30	7.69	1.82	
	1104	U		1.10	2.44	0.56		12	12	12	0.30	5.43	1.84	

ΤΑΦΡΟΣ T1 (3.00x2.80x1.50)m
CRACK CHECK (QUASI-PERMANENT COMBINATION)

LIVE-LOAD DESIGN RESULTS ACCORDING TO EUROCODE 2

ELEM No	LC No		x [m]	wk [mm]	Reinf.(stat.) Asa	Asm	Asi	diameter [mm] da	dm	di	wk [mm]	Reinforcmt req. Asa	Asm	Asi
	1105	U		1.10	2.44	0.56		12	12	12	0.30	5.43	1.84	
	1106	L		0.33	7.69	1.65		12	12	12	0.30	7.69	1.82	
	1107	U		1.11	2.44	0.56		12	12	12	0.30	5.43	2.01	
	1109	U		1.10	2.44	0.56		12	12	12	0.30	5.43	1.84	
	1110	L		0.33	7.69	1.65		12	12	12	0.30	7.69	1.82	
	1111	U		1.11	2.44	0.56		12	12	12	0.30	5.43	2.01	
	1113	U		1.11	2.44	0.56		12	12	12	0.30	5.43	2.01	
	1115	U		1.10	2.44	0.56		12	12	12	0.30	5.43	1.84	
	1116	L		0.33	7.69	1.65		12	12	12	0.30	7.69	1.82	
1036	1102	U		1.11	2.44	0.56		12	12	12	0.30	5.43	2.02	
	1103	L		0.33	7.69	1.64		12	12	12	0.30	7.69	1.81	
	1104	U		1.10	2.44	0.56		12	12	12	0.30	5.43	1.82	
	1105	U		1.10	2.44	0.56		12	12	12	0.30	5.43	1.82	
	1106	L		0.33	7.69	1.64		12	12	12	0.30	7.69	1.81	
	1107	U		1.11	2.44	0.56		12	12	12	0.30	5.43	2.02	
	1109	U		1.10	2.44	0.56		12	12	12	0.30	5.43	1.82	
	1110	L		0.33	7.69	1.64		12	12	12	0.30	7.69	1.81	
	1111	U		1.11	2.44	0.56		12	12	12	0.30	5.43	2.02	
	1113	U		1.11	2.44	0.56		12	12	12	0.30	5.43	2.02	
	1115	U		1.10	2.44	0.56		12	12	12	0.30	5.43	1.82	
	1116	L		0.33	7.69	1.64		12	12	12	0.30	7.69	1.81	
1037	1102	U		1.11	2.44	0.56		12	12	12	0.30	5.43	2.02	
	1103	L		0.34	7.68	1.63		12	12	12	0.30	7.68	1.81	
	1104	U		1.10	2.44	0.56		12	12	12	0.30	5.43	1.82	
	1105	U		1.10	2.44	0.56		12	12	12	0.30	5.43	1.82	
	1106	L		0.34	7.68	1.63		12	12	12	0.30	7.68	1.81	
	1107	U		1.11	2.44	0.56		12	12	12	0.30	5.43	2.02	
	1109	U		1.10	2.44	0.56		12	12	12	0.30	5.43	1.82	
	1110	L		0.34	7.68	1.63		12	12	12	0.30	7.68	1.81	
	1111	U		1.11	2.44	0.56		12	12	12	0.30	5.43	2.02	
	1113	U		1.11	2.44	0.56		12	12	12	0.30	5.43	2.02	
	1115	U		1.10	2.44	0.56		12	12	12	0.30	5.43	1.82	
	1116	L		0.34	7.68	1.63		12	12	12	0.30	7.68	1.81	
1038	1102	U		1.11	2.44	0.56		12	12	12	0.30	5.42	2.02	
	1103	L		0.34	7.67	1.62		12	12	12	0.30	7.67	1.80	
	1104	U		1.10	2.44	0.56		12	12	12	0.30	5.42	1.82	
	1105	L		0.32	7.67	1.62		12	12	12	0.30	7.67	1.72	
	1106	U		1.10	2.44	0.56		12	12	12	0.30	5.42	1.82	
	1107	U		1.11	2.44	0.56		12	12	12	0.30	5.42	2.02	
	1109	L		0.34	7.67	1.62		12	12	12	0.30	7.67	1.80	
	1110	U		1.10	2.44	0.56		12	12	12	0.30	5.42	1.82	
	1111	U		1.11	2.44	0.56		12	12	12	0.30	5.42	2.02	
	1113	U		1.11	2.44	0.56		12	12	12	0.30	5.42	2.02	
	1115	L		0.34	7.67	1.62		12	12	12	0.30	7.67	1.80	
	1116	U		1.10	2.44	0.56		12	12	12	0.30	5.42	1.82	
1039	1102	U		1.11	2.44	0.56		12	12	12	0.30	5.43	2.02	
	1103	L		0.34	7.67	1.61		12	12	12	0.30	7.67	1.81	
	1104	U		1.10	2.44	0.56		12	12	12	0.30	5.43	1.82	
	1105	L		0.34	7.67	1.61		12	12	12	0.30	7.67	1.81	
	1106	U		1.10	2.44	0.56		12	12	12	0.30	5.43	1.82	
	1107	U		1.11	2.44	0.56		12	12	12	0.30	5.43	2.02	
	1109	L		0.34	7.67	1.61		12	12	12	0.30	7.67	1.81	
	1110	U		1.10	2.44	0.56		12	12	12	0.30	5.43	1.82	
	1111	U		1.11	2.44	0.56		12	12	12	0.30	5.43	2.02	
	1113	U		1.11	2.44	0.56		12	12	12	0.30	5.43	2.02	
	1115	L		0.34	7.67	1.61		12	12	12	0.30	7.67	1.81	
	1116	U		1.10	2.44	0.56		12	12	12	0.30	5.43	1.82	
1040	1102	U		1.11	2.44	0.56		12	12	12	0.30	5.43	2.02	
	1103	L		0.34	7.66	1.60		12	12	12	0.30	7.66	1.82	
	1104	U		1.10	2.44	0.56		12	12	12	0.30	5.43	1.82	
	1105	L		0.34	7.66	1.60		12	12	12	0.30	7.66	1.82	
	1106	U		1.10	2.44	0.56		12	12	12	0.30	5.43	1.82	
	1107	U		1.11	2.44	0.56		12	12	12	0.30	5.43	2.02	
	1109	L		0.34	7.66	1.60		12	12	12	0.30	7.66	1.82	
	1110	U		1.10	2.44	0.56		12	12	12	0.30	5.43	1.82	
	1111	U		1.11	2.44	0.56		12	12	12	0.30	5.43	2.02	
	1113	U		1.11	2.44	0.56		12	12	12	0.30	5.43	2.02	
	1115	L		0.34	7.66	1.60		12	12	12	0.30	7.66	1.82	
	1116	U		1.10	2.44	0.56		12	12	12	0.30	5.43	1.82	
1041	1102	U		1.11	2.44	0.56		12	12	12	0.30	5.43	2.01	
	1103	L		0.34	7.67	1.61		12	12	12	0.30	7.67	1.82	
	1104	U		1.10	2.44	0.56		12	12	12	0.30	5.43	1.84	
	1105	L		0.34	7.67	1.61		12	12	12	0.30	7.67	1.82	
	1106	U		1.10	2.44	0.56		12	12	12	0.30	5.43	1.84	
	1107	U		1.11	2.44	0.56		12	12	12	0.30	5.43	2.01	
	1109	L		0.34	7.67	1.61		12	12	12	0.30	7.67	1.82	
	1110	U		1.10	2.44	0.56		12	12	12	0.30	5.43	1.84	
	1111	U		1.11	2.44	0.56		12	12	12	0.30	5.43	2.01	

ΤΑΦΡΟΣ T1 (3.00x2.80x1.50)m
CRACK CHECK (QUASI-PERMANENT COMBINATION)

LIVE-LOAD DESIGN RESULTS ACCORDING TO EUROCODE 2

ELEM	LC		x	wk	Reinf.(stat.)			diameter [mm]			wk	Reinforcmt req.	
No	No		[m]	[mm]	Asa	Asm	Asi	da	dm	di	[mm]	Asa	Asm Asi
	1113	U		1.11	2.44	0.56		12	12	12	0.30	5.43	2.01
	1115	L		0.34	7.67	1.61		12	12	12	0.30	7.67	1.82
	1116	U		1.10	2.44	0.56		12	12	12	0.30	5.43	1.84
1042	1102	U		1.11	2.44	0.56		12	12	12	0.30	5.43	2.03
	1103	L		0.34	7.69	1.63		12	12	12	0.30	7.69	1.83
	1104	U		1.10	2.44	0.56		12	12	12	0.30	5.43	1.83
	1105	L		0.34	7.69	1.63		12	12	12	0.30	7.69	1.83
	1106	U		1.10	2.44	0.56		12	12	12	0.30	5.43	1.83
	1107	U		1.11	2.44	0.56		12	12	12	0.30	5.43	2.03
	1109	L		0.34	7.69	1.63		12	12	12	0.30	7.69	1.83
	1110	U		1.10	2.44	0.56		12	12	12	0.30	5.43	1.83
	1111	U		1.11	2.44	0.56		12	12	12	0.30	5.43	2.03
	1113	U		1.11	2.44	0.56		12	12	12	0.30	5.43	2.03
	1115	L		0.34	7.69	1.63		12	12	12	0.30	7.69	1.83
	1116	U		1.10	2.44	0.56		12	12	12	0.30	5.43	1.83
1043	1102	U		1.11	2.45	0.56		12	12	12	0.30	5.43	2.02
	1103	L		0.34	7.69	1.64		12	12	12	0.30	7.69	1.83
	1104	U		1.10	2.45	0.56		12	12	12	0.30	5.43	1.84
	1105	L		0.34	7.69	1.64		12	12	12	0.30	7.69	1.83
	1106	U		1.10	2.45	0.56		12	12	12	0.30	5.43	1.84
	1107	U		1.11	2.45	0.56		12	12	12	0.30	5.43	2.02
	1109	U		0.57	2.45	0.56		12	12	12	0.30	3.56	1.05
	1111	U		1.11	2.45	0.56		12	12	12	0.30	5.43	2.02
	1113	U		1.11	2.45	0.56		12	12	12	0.30	5.43	2.02
	1115	L		0.34	7.69	1.64		12	12	12	0.30	7.69	1.83
	1116	U		1.10	2.45	0.56		12	12	12	0.30	5.43	1.84
1044	1101	L		0.30	7.69	1.65		12	12	12	0.30	7.69	1.67
	1102	U		1.11	2.45	0.55		12	12	12	0.30	5.44	2.01
	1103	L		0.34	7.69	1.65		12	12	12	0.30	7.69	1.84
	1104	U		1.10	2.45	0.55		12	12	12	0.30	5.44	1.85
	1105	L		0.34	7.69	1.65		12	12	12	0.30	7.69	1.84
	1106	U		1.10	2.45	0.55		12	12	12	0.30	5.44	1.85
	1107	U		1.11	2.45	0.55		12	12	12	0.30	5.44	2.01
	1108	L		0.30	7.69	1.65		12	12	12	0.30	7.69	1.67
	1109	U		1.11	2.45	0.55		12	12	12	0.30	5.44	2.01
	1110	L		0.30	7.69	1.65		12	12	12	0.30	7.69	1.67
	1111	U		1.11	2.45	0.55		12	12	12	0.30	5.44	2.01
	1112	L		0.30	7.69	1.65		12	12	12	0.30	7.69	1.67
	1113	U		1.11	2.45	0.55		12	12	12	0.30	5.44	2.01
	1114	L		0.30	7.69	1.65		12	12	12	0.30	7.69	1.67
	1115	L		0.34	7.69	1.65		12	12	12	0.30	7.69	1.84
	1116	U		1.10	2.45	0.55		12	12	12	0.30	5.44	1.85
1045	1101	L		0.31	7.67	1.66		12	12	12	0.30	7.67	1.69
	1102	U		1.11	2.46	0.55		12	12	12	0.30	5.45	1.99
	1103	L		0.34	7.67	1.66		12	12	12	0.30	7.67	1.87
	1104	U		1.10	2.46	0.55		12	12	12	0.30	5.40	1.85
	1105	L		0.34	7.67	1.66		12	12	12	0.30	7.67	1.87
	1106	U		1.10	2.46	0.55		12	12	12	0.30	5.40	1.85
	1107	U		1.11	2.46	0.55		12	12	12	0.30	5.45	1.99
	1108	L		0.31	7.67	1.66		12	12	12	0.30	7.67	1.69
	1109	U		1.11	2.46	0.55		12	12	12	0.30	5.45	1.99
	1110	L		0.31	7.67	1.66		12	12	12	0.30	7.67	1.69
	1111	U		1.11	2.46	0.55		12	12	12	0.30	5.45	1.99
	1112	L		0.31	7.67	1.66		12	12	12	0.30	7.67	1.69
	1113	U		1.11	2.46	0.55		12	12	12	0.30	5.45	1.99
	1114	L		0.31	7.67	1.66		12	12	12	0.30	7.67	1.69
	1115	L		0.34	7.67	1.66		12	12	12	0.30	7.67	1.87
	1116	U		1.10	2.46	0.55		12	12	12	0.30	5.40	1.85
1046	1101	L		0.34	7.64	1.66		12	12	12	0.30	7.64	1.87
	1102	U		1.10	2.46	0.54		12	12	12	0.30	5.42	1.84
	1103	L		0.34	7.64	1.66		12	12	12	0.30	7.64	1.87
	1104	U		1.10	2.46	0.54		12	12	12	0.30	5.42	1.84
	1105	L		0.34	7.64	1.66		12	12	12	0.30	7.64	1.87
	1106	U		1.10	2.46	0.54		12	12	12	0.30	5.42	1.84
	1107	U		1.11	2.46	0.54		12	12	12	0.30	5.42	1.96
	1108	L		0.31	7.64	1.66		12	12	12	0.30	7.64	1.71
	1109	U		1.11	2.46	0.54		12	12	12	0.30	5.42	1.96
	1110	L		0.31	7.64	1.66		12	12	12	0.30	7.64	1.71
	1111	U		1.11	2.46	0.54		12	12	12	0.30	5.42	1.96
	1112	L		0.31	7.64	1.66		12	12	12	0.30	7.64	1.71
	1113	U		1.11	2.46	0.54		12	12	12	0.30	5.42	1.96
	1114	L		0.31	7.64	1.66		12	12	12	0.30	7.64	1.71
	1115	L		0.34	7.64	1.66		12	12	12	0.30	7.64	1.87
	1116	U		1.10	2.46	0.54		12	12	12	0.30	5.42	1.84
1047	1101	L		0.33	7.62	1.64		12	12	12	0.30	7.62	1.80
	1102	U		1.10	2.48	0.52		12	12	12	0.30	5.46	1.78
	1103	L		0.33	7.62	1.64		12	12	12	0.30	7.62	1.80
	1104	U		1.10	2.48	0.52		12	12	12	0.30	5.46	1.78

ΤΑΦΡΟΣ T1 (3.00x2.80x1.50)m
CRACK CHECK (QUASI-PERMANENT COMBINATION)

LIVE-LOAD DESIGN RESULTS ACCORDING TO EUROCODE 2

ELEM	LC		x	wk	Reinf.(stat.)			diameter [mm]			wk	Reinforcmt req.	
No	No		[m]	[mm]	Asa	Asm	Asi	da	dm	di	[mm]	Asa	Asm Asi
	1105	U		1.11	2.48	0.52		12	12	12	0.30	5.45	1.88
	1106	L		0.31	7.62	1.64		12	12	12	0.30	7.62	1.66
	1107	U		1.10	2.48	0.52		12	12	12	0.30	5.46	1.78
	1108	L		0.33	7.62	1.64		12	12	12	0.30	7.62	1.80
	1109	U		1.11	2.48	0.52		12	12	12	0.30	5.45	1.88
	1110	L		0.31	7.62	1.64		12	12	12	0.30	7.62	1.66
	1111	U		1.11	2.48	0.52		12	12	12	0.30	5.45	1.88
	1112	L		0.31	7.62	1.64		12	12	12	0.30	7.62	1.66
	1113	U		1.11	2.48	0.52		12	12	12	0.30	5.45	1.88
	1114	L		0.31	7.62	1.64		12	12	12	0.30	7.62	1.66
	1115	L		0.33	7.62	1.64		12	12	12	0.30	7.62	1.80
	1116	U		1.10	2.48	0.52		12	12	12	0.30	5.46	1.78
1048	1101	L		0.31	7.68	1.62		12	12	12	0.30	7.68	1.68
	1102	U		1.10	2.49	0.50		12	12	12	0.30	5.49	1.61
	1103	L		0.31	7.68	1.62		12	12	12	0.30	7.68	1.68
	1104	U		1.10	2.49	0.50		12	12	12	0.30	5.49	1.61
	1105	U		1.11	2.49	0.50		12	12	12	0.30	5.49	1.69
	1107	U		1.10	2.49	0.50		12	12	12	0.30	5.49	1.61
	1108	L		0.31	7.68	1.62		12	12	12	0.30	7.68	1.68
	1109	U		1.11	2.49	0.50		12	12	12	0.30	5.49	1.69
	1111	U		1.11	2.49	0.50		12	12	12	0.30	5.49	1.69
	1113	U		1.11	2.49	0.50		12	12	12	0.30	5.49	1.69
	1115	L		0.31	7.68	1.62		12	12	12	0.30	7.68	1.68
	1116	U		1.10	2.49	0.50		12	12	12	0.30	5.49	1.61
1049	1102	U		1.10	2.50	0.50		12	12	12	0.30	5.50	1.24
	1104	U		1.10	2.50	0.50		12	12	12	0.30	5.50	1.24
	1105	U		1.11	2.50	0.50		12	12	12	0.30	5.50	1.29
	1107	U		1.10	2.50	0.50		12	12	12	0.30	5.50	1.24
	1109	U		1.10	2.50	0.50		12	12	12	0.30	5.50	1.24
	1111	U		1.11	2.50	0.50		12	12	12	0.30	5.50	1.29
	1114	U		1.10	2.50	0.50		12	12	12	0.30	5.50	1.24
	1115	U		1.11	2.50	0.50		12	12	12	0.30	5.50	1.29
1050	1102	U		1.10	2.45	0.49		12	12	12	0.30	5.39	1.08
	1104	U		1.10	2.45	0.49		12	12	12	0.30	5.39	1.08
	1105	U		1.10	2.45	0.49		12	12	12	0.30	5.45	1.09
	1107	U		1.10	2.45	0.49		12	12	12	0.30	5.39	1.08
	1109	U		1.10	2.45	0.49		12	12	12	0.30	5.39	1.08
	1111	U		1.10	2.45	0.49		12	12	12	0.30	5.45	1.09
	1114	U		1.10	2.45	0.49		12	12	12	0.30	5.39	1.08
	1115	U		1.10	2.45	0.49		12	12	12	0.30	5.45	1.09
1051	1102	U		1.10	2.42	0.48		12	12	12	0.30	5.37	1.07
	1104	U		1.10	2.42	0.48		12	12	12	0.30	5.37	1.07
	1106	U		0.64	2.42	0.48		12	12	12	0.30	3.95	0.79
	1107	U		1.10	2.42	0.48		12	12	12	0.30	5.37	1.07
	1110	U		1.10	2.42	0.48		12	12	12	0.30	5.37	1.07
	1111	U		1.10	2.42	0.48		12	12	12	0.30	5.42	1.08
	1114	U		1.10	2.42	0.48		12	12	12	0.30	5.37	1.07
	1116	U		1.10	2.42	0.48		12	12	12	0.30	5.42	1.08
1052	1102	U		1.10	2.44	0.49		12	12	12	0.30	5.43	1.09
	1104	U		1.10	2.44	0.49		12	12	12	0.30	5.43	1.09
	1106	U		1.11	2.44	0.49		12	12	12	0.30	5.43	1.09
	1107	U		1.10	2.44	0.49		12	12	12	0.30	5.43	1.09
	1110	U		1.10	2.44	0.49		12	12	12	0.30	5.43	1.09
	1111	U		1.11	2.44	0.49		12	12	12	0.30	5.43	1.09
	1114	U		1.10	2.44	0.49		12	12	12	0.30	5.43	1.09
	1116	U		1.11	2.44	0.49		12	12	12	0.30	5.43	1.09
1053	1102	U		1.10	2.45	0.49		12	12	12	0.30	5.44	1.35
	1104	U		1.10	2.45	0.49		12	12	12	0.30	5.44	1.35
	1106	U		1.11	2.45	0.49		12	12	12	0.30	5.44	1.43
	1107	U		1.10	2.45	0.49		12	12	12	0.30	5.44	1.35
	1110	U		1.10	2.45	0.49		12	12	12	0.30	5.44	1.35
	1111	U		1.11	2.45	0.49		12	12	12	0.30	5.44	1.43
	1114	U		1.10	2.45	0.49		12	12	12	0.30	5.44	1.35
	1116	U		1.11	2.45	0.49		12	12	12	0.30	5.44	1.43
1054	1102	U		1.10	2.45	0.49		12	12	12	0.30	5.43	1.59
	1104	U		1.10	2.45	0.49		12	12	12	0.30	5.43	1.59
	1106	U		1.11	2.45	0.49		12	12	12	0.30	5.43	1.70
	1107	U		1.10	2.45	0.49		12	12	12	0.30	5.43	1.59
	1110	U		1.10	2.45	0.49		12	12	12	0.30	5.43	1.59
	1111	U		1.11	2.45	0.49		12	12	12	0.30	5.43	1.70
	1113	U		1.11	2.45	0.49		12	12	12	0.30	5.43	1.70
	1115	U		1.10	2.45	0.49		12	12	12	0.30	5.43	1.59
1055	1102	U		1.10	2.44	0.51		12	12	12	0.30	5.37	1.73
	1104	U		1.10	2.44	0.51		12	12	12	0.30	5.37	1.73
	1106	U		1.11	2.44	0.51		12	12	12	0.30	5.42	1.86
	1107	U		1.11	2.44	0.51		12	12	12	0.30	5.42	1.86
	1110	U		1.10	2.44	0.51		12	12	12	0.30	5.37	1.73
	1111	U		1.11	2.44	0.51		12	12	12	0.30	5.42	1.86

ΤΑΦΡΟΣ T1 (3.00x2.80x1.50)m
CRACK CHECK (QUASI-PERMANENT COMBINATION)

LIVE-LOAD DESIGN RESULTS ACCORDING TO EUROCODE 2

ELEM No	LC No	x [m]	wk [mm]	Reinf.(stat.) Asa	Asm	Asi	diameter [mm] da	dm	di	wk [mm]	Reinforcmt req. Asa	Asm	Asi
	1113 U		1.11	2.44	0.51		12	12	12	0.30	5.42	1.86	
	1115 U		1.10	2.44	0.51		12	12	12	0.30	5.37	1.73	
1056	1102 U		1.10	2.43	0.53		12	12	12	0.30	5.41	1.86	
	1104 U		1.10	2.43	0.53		12	12	12	0.30	5.41	1.78	
	1105 U		1.10	2.43	0.53		12	12	12	0.30	5.41	1.78	
	1107 U		1.11	2.43	0.53		12	12	12	0.30	5.41	1.94	
	1110 U		1.10	2.43	0.53		12	12	12	0.30	5.41	1.78	
	1111 U		1.11	2.43	0.53		12	12	12	0.30	5.41	1.94	
	1113 U		1.11	2.43	0.53		12	12	12	0.30	5.41	1.94	
	1115 U		1.10	2.43	0.53		12	12	12	0.30	5.41	1.78	
1057	1102 U		1.11	2.43	0.54		12	12	12	0.30	5.40	1.98	
	1104 U		1.10	2.43	0.54		12	12	12	0.30	5.35	1.80	
	1105 U		1.10	2.43	0.54		12	12	12	0.30	5.35	1.80	
	1107 U		1.11	2.43	0.54		12	12	12	0.30	5.40	1.98	
	1110 U		1.10	2.43	0.54		12	12	12	0.30	5.35	1.80	
	1111 U		1.11	2.43	0.54		12	12	12	0.30	5.40	1.98	
	1113 U		1.11	2.43	0.54		12	12	12	0.30	5.40	1.98	
	1115 U		1.10	2.43	0.54		12	12	12	0.30	5.35	1.80	
1058	1102 U		1.11	2.43	0.55		12	12	12	0.30	5.40	2.00	
	1104 U		1.10	2.43	0.55		12	12	12	0.30	5.40	1.81	
	1105 U		1.10	2.43	0.55		12	12	12	0.30	5.40	1.81	
	1107 U		1.11	2.43	0.55		12	12	12	0.30	5.40	2.00	
	1110 U		1.10	2.43	0.55		12	12	12	0.30	5.40	1.81	
	1111 U		1.11	2.43	0.55		12	12	12	0.30	5.40	2.00	
	1113 U		1.11	2.43	0.55		12	12	12	0.30	5.40	2.00	
	1115 U		1.10	2.43	0.55		12	12	12	0.30	5.40	1.81	
1059	1102 U		1.11	2.43	0.55		12	12	12	0.30	5.40	1.99	
	1104 U		1.10	2.43	0.55		12	12	12	0.30	5.40	1.80	
	1105 U		1.10	2.43	0.55		12	12	12	0.30	5.40	1.80	
	1107 U		1.11	2.43	0.55		12	12	12	0.30	5.40	1.99	
	1110 U		1.10	2.43	0.55		12	12	12	0.30	5.40	1.80	
	1111 U		1.11	2.43	0.55		12	12	12	0.30	5.40	1.99	
	1113 U		1.11	2.43	0.55		12	12	12	0.30	5.40	1.99	
	1115 U		1.10	2.43	0.55		12	12	12	0.30	5.40	1.80	
1060	1102 U		1.11	2.43	0.55		12	12	12	0.30	5.40	1.99	
	1104 U		1.10	2.43	0.55		12	12	12	0.30	5.40	1.80	
	1105 U		1.10	2.43	0.55		12	12	12	0.30	5.40	1.80	
	1107 U		1.11	2.43	0.55		12	12	12	0.30	5.40	1.99	
	1109 U		1.11	2.43	0.55		12	12	12	0.30	5.40	1.99	
	1111 U		1.11	2.43	0.55		12	12	12	0.30	5.40	1.99	
	1113 U		1.11	2.43	0.55		12	12	12	0.30	5.40	1.99	
	1115 U		1.10	2.43	0.55		12	12	12	0.30	5.40	1.80	
1061	1102 U		1.11	2.43	0.55		12	12	12	0.30	5.39	2.00	
	1104 U		1.10	2.43	0.55		12	12	12	0.30	5.39	1.81	
	1105 U		1.10	2.43	0.55		12	12	12	0.30	5.39	1.81	
	1107 U		1.11	2.43	0.55		12	12	12	0.30	5.39	2.00	
	1109 U		1.11	2.43	0.55		12	12	12	0.30	5.39	2.00	
	1111 U		1.11	2.43	0.55		12	12	12	0.30	5.39	2.00	
	1113 U		1.11	2.43	0.55		12	12	12	0.30	5.39	2.00	
	1115 U		1.10	2.43	0.55		12	12	12	0.30	5.39	1.81	
1062	1102 U		1.11	2.43	0.55		12	12	12	0.30	5.39	2.00	
	1104 U		1.10	2.43	0.55		12	12	12	0.30	5.39	1.79	
	1105 U		1.10	2.43	0.55		12	12	12	0.30	5.39	1.79	
	1107 U		1.11	2.43	0.55		12	12	12	0.30	5.39	2.00	
	1109 U		1.11	2.43	0.55		12	12	12	0.30	5.39	2.00	
	1111 U		1.11	2.43	0.55		12	12	12	0.30	5.39	2.00	
	1113 U		1.11	2.43	0.55		12	12	12	0.30	5.39	2.00	
	1115 U		1.10	2.43	0.55		12	12	12	0.30	5.39	1.79	
1063	1102 U		1.11	2.43	0.55		12	12	12	0.30	5.39	2.00	
	1104 U		1.10	2.43	0.55		12	12	12	0.30	5.39	1.79	
	1106 U		1.10	2.43	0.55		12	12	12	0.30	5.39	1.79	
	1107 U		1.11	2.43	0.55		12	12	12	0.30	5.39	2.00	
	1110 U		1.10	2.43	0.55		12	12	12	0.30	5.39	1.79	
	1111 U		1.11	2.43	0.55		12	12	12	0.30	5.39	2.00	
	1113 U		1.11	2.43	0.55		12	12	12	0.30	5.39	2.00	
	1115 U		1.10	2.43	0.55		12	12	12	0.30	5.39	1.79	
1064	1102 U		1.11	2.43	0.55		12	12	12	0.30	5.39	2.00	
	1104 U		1.10	2.43	0.55		12	12	12	0.30	5.39	1.79	
	1106 U		1.10	2.43	0.55		12	12	12	0.30	5.39	1.79	
	1107 U		1.11	2.43	0.55		12	12	12	0.30	5.39	2.00	
	1110 U		1.11	2.43	0.55		12	12	12	0.30	5.39	2.00	
	1111 U		1.11	2.43	0.55		12	12	12	0.30	5.39	2.00	
	1113 U		1.11	2.43	0.55		12	12	12	0.30	5.39	2.00	
	1116 U		1.10	2.43	0.55		12	12	12	0.30	5.39	1.79	
1065	1102 U		1.11	2.43	0.55		12	12	12	0.30	5.39	2.00	
	1104 U		1.10	2.43	0.55		12	12	12	0.30	5.39	1.81	
	1106 U		1.10	2.43	0.55		12	12	12	0.30	5.39	1.81	
	1107 U		1.11	2.43	0.55		12	12	12	0.30	5.39	2.00	

ΤΑΦΡΟΣ T1 (3.00x2.80x1.50)m
CRACK CHECK (QUASI-PERMANENT COMBINATION)

LIVE-LOAD DESIGN RESULTS ACCORDING TO EUROCODE 2

ELEM No	LC No	x [m]	wk [mm]	Reinf.(stat.) Asa	Asm	Asi	diameter [mm] da	dm	di	wk [mm]	Reinforcmt req. Asa	Asm	Asi
	1110 U		1.11	2.43	0.55		12	12	12	0.30	5.39	2.00	
	1111 U		1.11	2.43	0.55		12	12	12	0.30	5.39	2.00	
	1113 U		1.11	2.43	0.55		12	12	12	0.30	5.39	2.00	
	1116 U		1.10	2.43	0.55		12	12	12	0.30	5.39	1.81	
1066	1102 U		1.11	2.43	0.55		12	12	12	0.30	5.40	1.99	
	1104 U		1.10	2.43	0.55		12	12	12	0.30	5.40	1.80	
	1106 U		1.10	2.43	0.55		12	12	12	0.30	5.40	1.80	
	1107 U		1.11	2.43	0.55		12	12	12	0.30	5.40	1.99	
	1110 U		1.11	2.43	0.55		12	12	12	0.30	5.40	1.99	
	1111 U		1.11	2.43	0.55		12	12	12	0.30	5.40	1.99	
	1113 U		1.11	2.43	0.55		12	12	12	0.30	5.40	1.99	
	1116 U		1.10	2.43	0.55		12	12	12	0.30	5.40	1.80	
1067	1102 U		1.11	2.43	0.55		12	12	12	0.30	5.40	1.99	
	1104 U		1.10	2.43	0.55		12	12	12	0.30	5.40	1.80	
	1106 U		1.10	2.43	0.55		12	12	12	0.30	5.40	1.80	
	1107 U		1.11	2.43	0.55		12	12	12	0.30	5.40	1.99	
	1109 U		1.10	2.43	0.55		12	12	12	0.30	5.40	1.80	
	1111 U		1.11	2.43	0.55		12	12	12	0.30	5.40	1.99	
	1113 U		1.11	2.43	0.55		12	12	12	0.30	5.40	1.99	
	1116 U		1.10	2.43	0.55		12	12	12	0.30	5.40	1.80	
1068	1102 U		1.11	2.43	0.55		12	12	12	0.30	5.40	2.00	
	1104 U		1.10	2.43	0.55		12	12	12	0.30	5.40	1.81	
	1106 U		1.10	2.43	0.55		12	12	12	0.30	5.40	1.81	
	1107 U		1.11	2.43	0.55		12	12	12	0.30	5.40	2.00	
	1109 U		1.10	2.43	0.55		12	12	12	0.30	5.40	1.81	
	1111 U		1.11	2.43	0.55		12	12	12	0.30	5.40	2.00	
	1113 U		1.11	2.43	0.55		12	12	12	0.30	5.40	2.00	
	1116 U		1.10	2.43	0.55		12	12	12	0.30	5.40	1.81	
1069	1102 U		1.11	2.43	0.54		12	12	12	0.30	5.40	1.98	
	1104 U		1.10	2.43	0.54		12	12	12	0.30	5.35	1.80	
	1106 U		1.10	2.43	0.54		12	12	12	0.30	5.35	1.80	
	1107 U		1.11	2.43	0.54		12	12	12	0.30	5.40	1.98	
	1109 U		1.10	2.43	0.54		12	12	12	0.30	5.35	1.80	
	1111 U		1.11	2.43	0.54		12	12	12	0.30	5.40	1.98	
	1113 U		1.11	2.43	0.54		12	12	12	0.30	5.40	1.98	
	1116 U		1.10	2.43	0.54		12	12	12	0.30	5.35	1.80	
1070	1102 U		1.10	2.43	0.53		12	12	12	0.30	5.41	1.86	
	1104 U		1.10	2.43	0.53		12	12	12	0.30	5.41	1.78	
	1106 U		1.10	2.43	0.53		12	12	12	0.30	5.41	1.78	
	1107 U		1.11	2.43	0.53		12	12	12	0.30	5.41	1.94	
	1109 U		1.10	2.43	0.53		12	12	12	0.30	5.41	1.78	
	1111 U		1.11	2.43	0.53		12	12	12	0.30	5.41	1.94	
	1113 U		1.11	2.43	0.53		12	12	12	0.30	5.41	1.94	
	1116 U		1.10	2.43	0.53		12	12	12	0.30	5.41	1.78	
1071	1102 U		1.10	2.44	0.51		12	12	12	0.30	5.37	1.73	
	1104 U		1.10	2.44	0.51		12	12	12	0.30	5.37	1.73	
	1105 U		1.11	2.44	0.51		12	12	12	0.30	5.42	1.86	
	1107 U		1.11	2.44	0.51		12	12	12	0.30	5.42	1.86	
	1109 U		1.10	2.44	0.51		12	12	12	0.30	5.37	1.73	
	1111 U		1.11	2.44	0.51		12	12	12	0.30	5.42	1.86	
	1113 U		1.11	2.44	0.51		12	12	12	0.30	5.42	1.86	
	1116 U		1.10	2.44	0.51		12	12	12	0.30	5.37	1.73	
1072	1102 U		1.10	2.45	0.49		12	12	12	0.30	5.43	1.59	
	1104 U		1.10	2.45	0.49		12	12	12	0.30	5.43	1.59	
	1105 U		1.11	2.45	0.49		12	12	12	0.30	5.43	1.70	
	1107 U		1.10	2.45	0.49		12	12	12	0.30	5.43	1.59	
	1109 U		1.10	2.45	0.49		12	12	12	0.30	5.43	1.59	
	1111 U		1.11	2.45	0.49		12	12	12	0.30	5.43	1.70	
	1113 U		1.11	2.45	0.49		12	12	12	0.30	5.43	1.70	
	1116 U		1.10	2.45	0.49		12	12	12	0.30	5.43	1.59	
1073	1102 U		1.10	2.45	0.49		12	12	12	0.30	5.44	1.35	
	1104 U		1.10	2.45	0.49		12	12	12	0.30	5.44	1.35	
	1105 U		1.11	2.45	0.49		12	12	12	0.30	5.44	1.43	
	1107 U		1.10	2.45	0.49		12	12	12	0.30	5.44	1.35	
	1109 U		1.10	2.45	0.49		12	12	12	0.30	5.44	1.35	
	1111 U		1.11	2.45	0.49		12	12	12	0.30	5.44	1.43	
	1114 U		1.10	2.45	0.49		12	12	12	0.30	5.44	1.35	
	1115 U		1.11	2.45	0.49		12	12	12	0.30	5.44	1.43	
1074	1102 U		1.10	2.44	0.49		12	12	12	0.30	5.43	1.09	
	1104 U		1.10	2.44	0.49		12	12	12	0.30	5.43	1.09	
	1105 U		1.11	2.44	0.49		12	12	12	0.30	5.43	1.09	
	1107 U		1.10	2.44	0.49		12	12	12	0.30	5.43	1.09	
	1109 U		1.10	2.44	0.49		12	12	12	0.30	5.43	1.09	
	1111 U		1.11	2.44	0.49		12	12	12	0.30	5.43	1.09	
	1114 U		1.10	2.44	0.49		12	12	12	0.30	5.43	1.09	
	1115 U		1.11	2.44	0.49		12	12	12	0.30	5.43	1.09	
1075	1102 U		1.10	2.42	0.48		12	12	12	0.30	5.37	1.07	
	1104 U		1.10	2.42	0.48		12	12	12	0.30	5.37	1.07	

ΤΑΦΡΟΣ T1 (3.00x2.80x1.50)m
CRACK CHECK (QUASI-PERMANENT COMBINATION)

LIVE-LOAD DESIGN RESULTS ACCORDING TO EUROCODE 2

ELEM No	LC No		x [m]	wk [mm]	Reinf.(stat.) Asa	Asm	Asi	diameter [mm] da	dm	di	wk [mm]	Reinforcmt req. Asa	Asm	Asi
	1105	U		0.64	2.42	0.48		12	12	12	0.30	3.95	0.79	
	1107	U		1.10	2.42	0.48		12	12	12	0.30	5.37	1.07	
	1109	U		1.10	2.42	0.48		12	12	12	0.30	5.37	1.07	
	1111	U		1.10	2.42	0.48		12	12	12	0.30	5.42	1.08	
	1114	U		1.10	2.42	0.48		12	12	12	0.30	5.37	1.07	
	1115	U		1.10	2.42	0.48		12	12	12	0.30	5.42	1.08	
1076	1102	U		1.11	2.21	0.44		12	12	12	0.30	5.13	1.03	
	1104	U		1.11	2.21	0.44		12	12	12	0.30	5.13	1.03	
	1105	U		1.11	2.21	0.44		12	12	12	0.30	5.13	1.03	
	1107	U		1.11	2.21	0.44		12	12	12	0.30	5.13	1.03	
	1110	U		1.11	2.21	0.44		12	12	12	0.30	5.13	1.03	
	1111	U		1.12	2.21	0.44		12	12	12	0.30	5.13	1.03	
	1114	U		1.11	2.21	0.44		12	12	12	0.30	5.13	1.03	
	1116	U		1.11	2.21	0.44		12	12	12	0.30	5.13	1.03	
1077	1102	U		1.11	2.22	0.44		12	12	12	0.30	5.14	1.03	
	1104	U		1.11	2.22	0.44		12	12	12	0.30	5.14	1.03	
	1105	U		1.11	2.22	0.44		12	12	12	0.30	5.14	1.03	
	1107	U		1.11	2.22	0.44		12	12	12	0.30	5.14	1.03	
	1110	U		1.11	2.22	0.44		12	12	12	0.30	5.14	1.03	
	1111	U		1.11	2.22	0.44		12	12	12	0.30	5.14	1.03	
	1114	U		1.11	2.22	0.44		12	12	12	0.30	5.14	1.03	
	1116	U		1.11	2.22	0.44		12	12	12	0.30	5.14	1.03	
1078	1102	U		1.10	2.22	0.44		12	12	12	0.30	5.11	1.08	
	1104	U		1.10	2.22	0.44		12	12	12	0.30	5.11	1.08	
	1106	U		1.11	2.22	0.44		12	12	12	0.30	5.16	1.17	
	1107	U		1.10	2.22	0.44		12	12	12	0.30	5.11	1.08	
	1110	U		1.10	2.22	0.44		12	12	12	0.30	5.11	1.08	
	1111	U		1.11	2.22	0.44		12	12	12	0.30	5.16	1.17	
	1114	U		1.10	2.22	0.44		12	12	12	0.30	5.11	1.08	
	1116	U		1.10	2.22	0.44		12	12	12	0.30	5.11	1.08	
1079	1102	U		1.10	2.22	0.44		12	12	12	0.30	5.13	1.33	
	1104	U		1.10	2.22	0.44		12	12	12	0.30	5.13	1.33	
	1106	U		1.11	2.22	0.44		12	12	12	0.30	5.16	1.45	
	1107	U		1.10	2.22	0.44		12	12	12	0.30	5.13	1.33	
	1110	U		1.10	2.22	0.44		12	12	12	0.30	5.13	1.33	
	1111	U		1.11	2.22	0.44		12	12	12	0.30	5.16	1.45	
	1113	U		1.11	2.22	0.44		12	12	12	0.30	5.16	1.45	
	1116	U		1.10	2.22	0.44		12	12	12	0.30	5.13	1.33	
1080	1102	U		1.10	2.23	0.45		12	12	12	0.30	5.14	1.50	
	1104	U		1.10	2.23	0.45		12	12	12	0.30	5.14	1.50	
	1106	U		1.11	2.23	0.45		12	12	12	0.30	5.12	1.64	
	1107	U		1.11	2.23	0.45		12	12	12	0.30	5.12	1.64	
	1110	U		1.10	2.23	0.45		12	12	12	0.30	5.14	1.50	
	1111	U		1.11	2.23	0.45		12	12	12	0.30	5.12	1.64	
	1113	U		1.11	2.23	0.45		12	12	12	0.30	5.12	1.64	
	1116	U		1.10	2.23	0.45		12	12	12	0.30	5.14	1.50	
1081	1102	U		1.10	2.23	0.48		12	12	12	0.30	5.12	1.68	
	1104	U		1.10	2.23	0.48		12	12	12	0.30	5.10	1.58	
	1106	U		1.11	2.23	0.48		12	12	12	0.30	5.12	1.75	
	1107	U		1.11	2.23	0.48		12	12	12	0.30	5.12	1.75	
	1110	U		1.10	2.23	0.48		12	12	12	0.30	5.10	1.58	
	1111	U		1.11	2.23	0.48		12	12	12	0.30	5.12	1.75	
	1113	U		1.11	2.23	0.48		12	12	12	0.30	5.12	1.75	
	1116	U		1.10	2.23	0.48		12	12	12	0.30	5.10	1.58	
1082	1102	U		1.11	2.23	0.50		12	12	12	0.30	5.17	1.79	
	1104	U		1.10	2.23	0.50		12	12	12	0.30	5.09	1.62	
	1106	U		1.11	2.23	0.50		12	12	12	0.30	5.17	1.79	
	1107	U		1.11	2.23	0.50		12	12	12	0.30	5.17	1.79	
	1110	U		1.10	2.23	0.50		12	12	12	0.30	5.09	1.62	
	1111	U		1.11	2.23	0.50		12	12	12	0.30	5.17	1.79	
	1113	U		1.11	2.23	0.50		12	12	12	0.30	5.17	1.79	
	1116	U		1.10	2.23	0.50		12	12	12	0.30	5.09	1.62	
1083	1102	U		1.11	2.23	0.50		12	12	12	0.30	5.12	1.81	
	1104	U		1.10	2.23	0.50		12	12	12	0.30	5.09	1.64	
	1106	U		0.74	2.23	0.50		12	12	12	0.30	3.97	1.24	
	1107	U		1.11	2.23	0.50		12	12	12	0.30	5.12	1.81	
	1110	U		1.10	2.23	0.50		12	12	12	0.30	5.09	1.64	
	1111	U		1.11	2.23	0.50		12	12	12	0.30	5.12	1.81	
	1113	U		1.11	2.23	0.50		12	12	12	0.30	5.12	1.81	
	1116	U		1.10	2.23	0.50		12	12	12	0.30	5.09	1.64	
1084	1102	U		1.11	2.23	0.51		12	12	12	0.30	5.11	1.83	
	1104	U		1.10	2.23	0.51		12	12	12	0.30	5.09	1.64	
	1105	U		1.10	2.23	0.51		12	12	12	0.30	5.09	1.64	
	1107	U		1.11	2.23	0.51		12	12	12	0.30	5.11	1.83	
	1110	U		1.10	2.23	0.51		12	12	12	0.30	5.09	1.64	
	1111	U		1.11	2.23	0.51		12	12	12	0.30	5.11	1.83	
	1113	U		1.11	2.23	0.51		12	12	12	0.30	5.11	1.83	
	1116	U		1.10	2.23	0.51		12	12	12	0.30	5.09	1.64	

ΤΑΦΡΟΣ T1 (3.00x2.80x1.50)m
CRACK CHECK (QUASI-PERMANENT COMBINATION)

LIVE-LOAD DESIGN RESULTS ACCORDING TO EUROCODE 2

ELEM No	LC No		x [m]	wk [mm]	Reinf.(stat.) Asa	Asm	Asi	diameter [mm] da	dm	di	wk [mm]	Reinforcmt req. Asa	Asm	Asi
1085	1102	U		1.11	2.23	0.51		12	12	12	0.30	5.16	1.83	
	1104	U		1.10	2.23	0.51		12	12	12	0.30	5.08	1.63	
	1105	U		1.10	2.23	0.51		12	12	12	0.30	5.08	1.63	
	1107	U		1.11	2.23	0.51		12	12	12	0.30	5.16	1.83	
	1110	U		1.10	2.23	0.51		12	12	12	0.30	5.08	1.63	
	1111	U		1.11	2.23	0.51		12	12	12	0.30	5.16	1.83	
	1113	U		1.11	2.23	0.51		12	12	12	0.30	5.16	1.83	
	1116	U		1.10	2.23	0.51		12	12	12	0.30	5.08	1.63	
1086	1102	U		1.11	2.22	0.51		12	12	12	0.30	5.16	1.84	
	1104	U		1.10	2.22	0.51		12	12	12	0.30	5.08	1.63	
	1105	U		1.10	2.22	0.51		12	12	12	0.30	5.08	1.63	
	1107	U		1.11	2.22	0.51		12	12	12	0.30	5.16	1.84	
	1109	U		1.11	2.22	0.51		12	12	12	0.30	5.16	1.84	
	1111	U		1.11	2.22	0.51		12	12	12	0.30	5.16	1.84	
	1113	U		1.11	2.22	0.51		12	12	12	0.30	5.16	1.84	
	1116	U		1.10	2.22	0.51		12	12	12	0.30	5.08	1.63	
1087	1102	U		1.11	2.22	0.51		12	12	12	0.30	5.16	1.84	
	1104	U		1.10	2.22	0.51		12	12	12	0.30	5.08	1.63	
	1105	U		1.10	2.22	0.51		12	12	12	0.30	5.08	1.63	
	1107	U		1.11	2.22	0.51		12	12	12	0.30	5.16	1.84	
	1109	U		1.11	2.22	0.51		12	12	12	0.30	5.16	1.84	
	1111	U		1.11	2.22	0.51		12	12	12	0.30	5.16	1.84	
	1113	U		1.11	2.22	0.51		12	12	12	0.30	5.16	1.84	
	1116	U		1.10	2.22	0.51		12	12	12	0.30	5.08	1.63	
1088	1102	U		1.11	2.22	0.51		12	12	12	0.30	5.16	1.84	
	1104	U		1.10	2.22	0.51		12	12	12	0.30	5.08	1.63	
	1105	U		1.10	2.22	0.51		12	12	12	0.30	5.13	1.76	
	1107	U		1.11	2.22	0.51		12	12	12	0.30	5.16	1.84	
	1109	U		1.11	2.22	0.51		12	12	12	0.30	5.16	1.84	
	1111	U		1.11	2.22	0.51		12	12	12	0.30	5.16	1.84	
	1113	U		1.11	2.22	0.51		12	12	12	0.30	5.16	1.84	
	1115	U		1.10	2.22	0.51		12	12	12	0.30	5.13	1.76	
1089	1102	U		1.11	2.22	0.51		12	12	12	0.30	5.16	1.84	
	1104	U		1.10	2.22	0.51		12	12	12	0.30	5.08	1.63	
	1106	U		1.10	2.22	0.51		12	12	12	0.30	5.08	1.63	
	1107	U		1.11	2.22	0.51		12	12	12	0.30	5.16	1.84	
	1110	U		1.11	2.22	0.51		12	12	12	0.30	5.16	1.84	
	1111	U		1.11	2.22	0.51		12	12	12	0.30	5.16	1.84	
	1113	U		1.11	2.22	0.51		12	12	12	0.30	5.16	1.84	
	1115	U		1.10	2.22	0.51		12	12	12	0.30	5.08	1.63	
1090	1102	U		1.11	2.22	0.51		12	12	12	0.30	5.16	1.84	
	1104	U		1.10	2.22	0.51		12	12	12	0.30	5.08	1.63	
	1106	U		1.10	2.22	0.51		12	12	12	0.30	5.08	1.63	
	1107	U		1.11	2.22	0.51		12	12	12	0.30	5.16	1.84	
	1110	U		1.11	2.22	0.51		12	12	12	0.30	5.16	1.84	
	1111	U		1.11	2.22	0.51		12	12	12	0.30	5.16	1.84	
	1113	U		1.11	2.22	0.51		12	12	12	0.30	5.16	1.84	
	1115	U		1.10	2.22	0.51		12	12	12	0.30	5.08	1.63	
1091	1102	U		1.11	2.23	0.51		12	12	12	0.30	5.16	1.83	
	1104	U		1.10	2.23	0.51		12	12	12	0.30	5.08	1.63	
	1106	U		1.10	2.23	0.51		12	12	12	0.30	5.08	1.63	
	1107	U		1.11	2.23	0.51		12	12	12	0.30	5.16	1.83	
	1109	U		1.10	2.23	0.51		12	12	12	0.30	5.08	1.63	
	1111	U		1.11	2.23	0.51		12	12	12	0.30	5.16	1.83	
	1113	U		1.11	2.23	0.51		12	12	12	0.30	5.16	1.83	
	1115	U		1.10	2.23	0.51		12	12	12	0.30	5.08	1.63	
1092	1102	U		1.11	2.23	0.51		12	12	12	0.30	5.11	1.83	
	1104	U		1.10	2.23	0.51		12	12	12	0.30	5.09	1.64	
	1106	U		1.10	2.23	0.51		12	12	12	0.30	5.09	1.64	
	1107	U		1.11	2.23	0.51		12	12	12	0.30	5.11	1.83	
	1109	U		1.10	2.23	0.51		12	12	12	0.30	5.09	1.64	
	1111	U		1.11	2.23	0.51		12	12	12	0.30	5.11	1.83	
	1113	U		1.11	2.23	0.51		12	12	12	0.30	5.11	1.83	
	1115	U		1.10	2.23	0.51		12	12	12	0.30	5.09	1.64	
1093	1102	U		1.11	2.23	0.50		12	12	12	0.30	5.12	1.81	
	1104	U		1.10	2.23	0.50		12	12	12	0.30	5.09	1.64	
	1105	U		0.74	2.23	0.50		12	12	12	0.30	3.97	1.24	
	1107	U		1.11	2.23	0.50		12	12	12	0.30	5.12	1.81	
	1109	U		1.10	2.23	0.50		12	12	12	0.30	5.09	1.64	
	1111	U		1.11	2.23	0.50		12	12	12	0.30	5.12	1.81	
	1113	U		1.11	2.23	0.50		12	12	12	0.30	5.12	1.81	
	1115	U		1.10	2.23	0.50		12	12	12	0.30	5.09	1.64	
1094	1102	U		1.11	2.23	0.50		12	12	12	0.30	5.17	1.79	
	1104	U		1.10	2.23	0.50		12	12	12	0.30	5.09	1.62	
	1105	U		1.11	2.23	0.50		12	12	12	0.30	5.17	1.79	
	1107	U		1.11	2.23	0.50		12	12	12	0.30	5.17	1.79	
	1109	U		1.10	2.23	0.50		12	12	12	0.30	5.09	1.62	
	1111	U		1.11	2.23	0.50		12	12	12	0.30	5.17	1.79	

ΤΑΦΡΟΣ T1 (3.00x2.80x1.50)m
CRACK CHECK (QUASI-PERMANENT COMBINATION)

LIVE-LOAD DESIGN RESULTS ACCORDING TO EUROCODE 2

ELEM No	LC No		x [m]	wk [mm]	Reinf.(stat.) Asa	Asm	Asi	diameter [mm] da	dm	di	wk [mm]	Reinforcmt req. Asa	Asm	Asi
	1113	U		1.11	2.23	0.50		12	12	12	0.30	5.17	1.79	
	1115	U		1.10	2.23	0.50		12	12	12	0.30	5.09	1.62	
1095	1102	U		1.10	2.23	0.48		12	12	12	0.30	5.12	1.68	
	1104	U		1.10	2.23	0.48		12	12	12	0.30	5.10	1.58	
	1105	U		1.11	2.23	0.48		12	12	12	0.30	5.12	1.75	
	1107	U		1.11	2.23	0.48		12	12	12	0.30	5.12	1.75	
	1109	U		1.10	2.23	0.48		12	12	12	0.30	5.10	1.58	
	1111	U		1.11	2.23	0.48		12	12	12	0.30	5.12	1.75	
	1113	U		1.11	2.23	0.48		12	12	12	0.30	5.12	1.75	
	1115	U		1.10	2.23	0.48		12	12	12	0.30	5.10	1.58	
1096	1102	U		1.10	2.23	0.45		12	12	12	0.30	5.14	1.50	
	1104	U		1.10	2.23	0.45		12	12	12	0.30	5.14	1.50	
	1105	U		1.11	2.23	0.45		12	12	12	0.30	5.12	1.64	
	1107	U		1.11	2.23	0.45		12	12	12	0.30	5.12	1.64	
	1109	U		1.10	2.23	0.45		12	12	12	0.30	5.14	1.50	
	1111	U		1.11	2.23	0.45		12	12	12	0.30	5.12	1.64	
	1113	U		1.11	2.23	0.45		12	12	12	0.30	5.12	1.64	
	1115	U		1.10	2.23	0.45		12	12	12	0.30	5.14	1.50	
1097	1102	U		1.10	2.22	0.44		12	12	12	0.30	5.13	1.33	
	1104	U		1.10	2.22	0.44		12	12	12	0.30	5.13	1.33	
	1105	U		1.11	2.22	0.44		12	12	12	0.30	5.16	1.45	
	1107	U		1.10	2.22	0.44		12	12	12	0.30	5.13	1.33	
	1109	U		1.10	2.22	0.44		12	12	12	0.30	5.13	1.33	
	1111	U		1.11	2.22	0.44		12	12	12	0.30	5.16	1.45	
	1113	U		1.11	2.22	0.44		12	12	12	0.30	5.16	1.45	
	1115	U		1.10	2.22	0.44		12	12	12	0.30	5.13	1.33	
1098	1102	U		1.10	2.22	0.44		12	12	12	0.30	5.11	1.08	
	1104	U		1.10	2.22	0.44		12	12	12	0.30	5.11	1.08	
	1105	U		1.11	2.22	0.44		12	12	12	0.30	5.16	1.17	
	1107	U		1.10	2.22	0.44		12	12	12	0.30	5.11	1.08	
	1109	U		1.10	2.22	0.44		12	12	12	0.30	5.11	1.08	
	1111	U		1.11	2.22	0.44		12	12	12	0.30	5.16	1.17	
	1114	U		1.10	2.22	0.44		12	12	12	0.30	5.11	1.08	
	1115	U		1.10	2.22	0.44		12	12	12	0.30	5.11	1.08	
1099	1102	U		1.11	2.22	0.44		12	12	12	0.30	5.14	1.03	
	1104	U		1.11	2.22	0.44		12	12	12	0.30	5.14	1.03	
	1106	U		1.11	2.22	0.44		12	12	12	0.30	5.14	1.03	
	1107	U		1.11	2.22	0.44		12	12	12	0.30	5.14	1.03	
	1109	U		1.11	2.22	0.44		12	12	12	0.30	5.14	1.03	
	1111	U		1.11	2.22	0.44		12	12	12	0.30	5.14	1.03	
	1114	U		1.11	2.22	0.44		12	12	12	0.30	5.14	1.03	
	1115	U		1.11	2.22	0.44		12	12	12	0.30	5.14	1.03	
1100	1102	U		1.11	2.21	0.44		12	12	12	0.30	5.13	1.03	
	1104	U		1.11	2.21	0.44		12	12	12	0.30	5.13	1.03	
	1106	U		1.11	2.21	0.44		12	12	12	0.30	5.13	1.03	
	1107	U		1.11	2.21	0.44		12	12	12	0.30	5.13	1.03	
	1109	U		1.11	2.21	0.44		12	12	12	0.30	5.13	1.03	
	1111	U		1.12	2.21	0.44		12	12	12	0.30	5.13	1.03	
	1114	U		1.11	2.21	0.44		12	12	12	0.30	5.13	1.03	
	1115	U		1.11	2.21	0.44		12	12	12	0.30	5.13	1.03	
1101	1102	U		1.11	1.92	0.38		12	12	12	0.30	4.72	0.94	
	1104	U		1.11	1.92	0.38		12	12	12	0.30	4.72	0.94	
	1105	U		1.11	1.92	0.38		12	12	12	0.30	4.72	0.94	
	1107	U		1.11	1.92	0.38		12	12	12	0.30	4.72	0.94	
	1110	U		1.11	1.92	0.38		12	12	12	0.30	4.72	0.94	
	1111	U		1.12	1.92	0.38		12	12	12	0.30	4.76	0.95	
	1114	U		1.11	1.92	0.38		12	12	12	0.30	4.72	0.94	
	1116	U		1.11	1.92	0.38		12	12	12	0.30	4.72	0.94	
1102	1102	U		1.11	1.93	0.39		12	12	12	0.30	4.73	0.95	
	1104	U		1.11	1.93	0.39		12	12	12	0.30	4.73	0.95	
	1105	U		1.11	1.93	0.39		12	12	12	0.30	4.73	0.95	
	1107	U		1.11	1.93	0.39		12	12	12	0.30	4.73	0.95	
	1110	U		1.11	1.93	0.39		12	12	12	0.30	4.73	0.95	
	1111	U		1.11	1.93	0.39		12	12	12	0.30	4.73	0.95	
	1114	U		1.11	1.93	0.39		12	12	12	0.30	4.73	0.95	
	1116	U		1.11	1.93	0.39		12	12	12	0.30	4.73	0.95	
1103	1102	U		1.11	1.92	0.38		12	12	12	0.30	4.71	1.09	
	1104	U		1.10	1.92	0.38		12	12	12	0.30	4.71	1.01	
	1105	U		1.10	1.92	0.38		12	12	12	0.30	4.71	1.01	
	1107	U		1.10	1.92	0.38		12	12	12	0.30	4.71	1.01	
	1110	U		1.10	1.92	0.38		12	12	12	0.30	4.71	1.01	
	1111	U		1.11	1.92	0.38		12	12	12	0.30	4.71	1.09	
	1114	U		1.10	1.92	0.38		12	12	12	0.30	4.71	1.01	
	1116	U		1.10	1.92	0.38		12	12	12	0.30	4.71	1.01	
1104	1102	U		1.11	1.90	0.38		12	12	12	0.30	4.68	1.28	
	1104	U		1.10	1.90	0.38		12	12	12	0.30	4.68	1.18	
	1105	U		1.10	1.90	0.38		12	12	12	0.30	4.68	1.18	
	1107	U		1.10	1.90	0.38		12	12	12	0.30	4.68	1.18	

ΤΑΦΡΟΣ T1 (3.00x2.80x1.50)m
CRACK CHECK (QUASI-PERMANENT COMBINATION)

LIVE-LOAD DESIGN RESULTS ACCORDING TO EUROCODE 2

ELEM No	LC No		x [m]	wk [mm]	Reinf.(stat.) Asa	Asm	Asi	diameter [mm] da	dm	di	wk [mm]	Reinforcmt req. Asa	Asm	Asi
	1110	U		1.10	1.90	0.38		12	12	12	0.30	4.68	1.18	
	1111	U		1.11	1.90	0.38		12	12	12	0.30	4.68	1.28	
	1113	U		1.11	1.90	0.38		12	12	12	0.30	4.68	1.28	
	1116	U		1.10	1.90	0.38		12	12	12	0.30	4.68	1.18	
1105	1102	U		1.11	1.90	0.39		12	12	12	0.30	4.71	1.41	
	1104	U		1.10	1.90	0.39		12	12	12	0.30	4.66	1.29	
	1106	U		1.11	1.90	0.39		12	12	12	0.30	4.71	1.41	
	1107	U		1.11	1.90	0.39		12	12	12	0.30	4.71	1.41	
	1110	U		1.10	1.90	0.39		12	12	12	0.30	4.66	1.29	
	1111	U		1.11	1.90	0.39		12	12	12	0.30	4.71	1.41	
	1113	U		1.11	1.90	0.39		12	12	12	0.30	4.71	1.41	
	1116	U		1.10	1.90	0.39		12	12	12	0.30	4.66	1.29	
1106	1102	U		1.10	1.89	0.41		12	12	12	0.30	4.70	1.43	
	1104	U		1.10	1.89	0.41		12	12	12	0.30	4.70	1.33	
	1106	U		1.11	1.89	0.41		12	12	12	0.30	4.70	1.47	
	1107	U		1.11	1.89	0.41		12	12	12	0.30	4.70	1.47	
	1110	U		1.10	1.89	0.41		12	12	12	0.30	4.70	1.33	
	1111	U		1.11	1.89	0.41		12	12	12	0.30	4.70	1.47	
	1113	U		1.11	1.89	0.41		12	12	12	0.30	4.70	1.47	
	1116	U		1.10	1.89	0.41		12	12	12	0.30	4.70	1.33	
1107	1102	U		1.10	1.89	0.42		12	12	12	0.30	4.65	1.37	
	1104	U		1.10	1.89	0.42		12	12	12	0.30	4.65	1.37	
	1106	U		1.11	1.89	0.42		12	12	12	0.30	4.69	1.53	
	1107	U		1.11	1.89	0.42		12	12	12	0.30	4.69	1.53	
	1110	U		1.10	1.89	0.42		12	12	12	0.30	4.65	1.37	
	1111	U		1.11	1.89	0.42		12	12	12	0.30	4.69	1.53	
	1113	U		1.11	1.89	0.42		12	12	12	0.30	4.69	1.53	
	1116	U		1.10	1.89	0.42		12	12	12	0.30	4.65	1.37	
1108	1102	U		1.10	1.89	0.43		12	12	12	0.30	4.65	1.36	
	1104	U		1.10	1.89	0.43		12	12	12	0.30	4.65	1.36	
	1106	U		1.11	1.89	0.43		12	12	12	0.30	4.69	1.55	
	1107	U		1.11	1.89	0.43		12	12	12	0.30	4.69	1.55	
	1110	U		1.10	1.89	0.43		12	12	12	0.30	4.65	1.36	
	1111	U		1.11	1.89	0.43		12	12	12	0.30	4.69	1.55	
	1113	U		1.11	1.89	0.43		12	12	12	0.30	4.69	1.55	
	1116	U		1.10	1.89	0.43		12	12	12	0.30	4.65	1.36	
1109	1102	U		1.10	1.89	0.43		12	12	12	0.30	4.65	1.36	
	1104	U		1.10	1.89	0.43		12	12	12	0.30	4.65	1.36	
	1106	U		1.11	1.89	0.43		12	12	12	0.30	4.69	1.57	
	1107	U		1.11	1.89	0.43		12	12	12	0.30	4.69	1.57	
	1110	U		1.10	1.89	0.43		12	12	12	0.30	4.65	1.36	
	1111	U		1.11	1.89	0.43		12	12	12	0.30	4.69	1.57	
	1113	U		1.11	1.89	0.43		12	12	12	0.30	4.69	1.57	
	1116	U		1.10	1.89	0.43		12	12	12	0.30	4.65	1.36	
1110	1102	U		1.10	1.89	0.44		12	12	12	0.30	4.69	1.48	
	1104	U		1.10	1.89	0.44		12	12	12	0.30	4.64	1.37	
	1106	U		1.11	1.89	0.44		12	12	12	0.30	4.69	1.57	
	1107	U		1.11	1.89	0.44		12	12	12	0.30	4.69	1.57	
	1110	U		1.10	1.89	0.44		12	12	12	0.30	4.64	1.37	
	1111	U		1.11	1.89	0.44		12	12	12	0.30	4.69	1.57	
	1113	U		1.11	1.89	0.44		12	12	12	0.30	4.69	1.57	
	1116	U		1.10	1.89	0.44		12	12	12	0.30	4.64	1.37	
1111	1102	U		1.11	1.89	0.44		12	12	12	0.30	4.69	1.57	
	1104	U		1.10	1.89	0.44		12	12	12	0.30	4.64	1.35	
	1106	U		1.11	1.89	0.44		12	12	12	0.30	4.69	1.57	
	1107	U		1.11	1.89	0.44		12	12	12	0.30	4.69	1.57	
	1109	U		1.11	1.89	0.44		12	12	12	0.30	4.69	1.57	
	1111	U		1.11	1.89	0.44		12	12	12	0.30	4.69	1.57	
	1113	U		1.11	1.89	0.44		12	12	12	0.30	4.69	1.57	
	1116	U		1.10	1.89	0.44		12	12	12	0.30	4.64	1.35	
1112	1102	U		1.11	1.89	0.44		12	12	12	0.30	4.69	1.57	
	1104	U		1.10	1.89	0.44		12	12	12	0.30	4.64	1.35	
	1106	U		1.11	1.89	0.44		12	12	12	0.30	4.69	1.57	
	1107	U		1.11	1.89	0.44		12	12	12	0.30	4.69	1.57	
	1109	U		1.11	1.89	0.44		12	12	12	0.30	4.69	1.57	
	1111	U		1.11	1.89	0.44		12	12	12	0.30	4.69	1.57	
	1113	U		1.11	1.89	0.44		12	12	12	0.30	4.69	1.57	
	1116	U		1.10	1.89	0.44		12	12	12	0.30	4.64	1.35	
1113	1102	U		1.11	1.89	0.44		12	12	12	0.30	4.69	1.57	
	1104	U		1.10	1.89	0.44		12	12	12	0.30	4.64	1.35	
	1105	U		1.10	1.89	0.44		12	12	12	0.30	4.69	1.48	
	1107	U		1.11	1.89	0.44		12	12	12	0.30	4.69	1.57	
	1109	U		1.10	1.89	0.44		12	12	12	0.30	4.64	1.35	
	1111	U		1.11	1.89	0.44		12	12	12	0.30	4.69	1.57	
	1113	U		1.11	1.89	0.44		12	12	12	0.30	4.69	1.57	
	1115	U		1.10	1.89	0.44		12	12	12	0.30	4.64	1.35	
1114	1102	U		1.11	1.89	0.44		12	12	12	0.30	4.69	1.57	
	1104	U		1.10	1.89	0.44		12	12	12	0.30	4.64	1.35	

ΤΑΦΡΟΣ T1 (3.00x2.80x1.50)m
CRACK CHECK (QUASI-PERMANENT COMBINATION)

LIVE-LOAD DESIGN RESULTS ACCORDING TO EUROCODE 2

ELEM No	LC No		x [m]	wk [mm]	Reinf.(stat.) Asa	Asm	Asi	diameter [mm] da	dm	di	wk [mm]	Reinforcmt req. Asa	Asm	Asi
	1105	U		1.11	1.89	0.44		12	12	12	0.30	4.69	1.57	
	1107	U		1.11	1.89	0.44		12	12	12	0.30	4.69	1.57	
	1110	U		1.11	1.89	0.44		12	12	12	0.30	4.69	1.57	
	1111	U		1.11	1.89	0.44		12	12	12	0.30	4.69	1.57	
	1113	U		1.11	1.89	0.44		12	12	12	0.30	4.69	1.57	
	1115	U		1.10	1.89	0.44		12	12	12	0.30	4.64	1.35	
1115	1102	U		1.11	1.89	0.44		12	12	12	0.30	4.69	1.57	
	1104	U		1.10	1.89	0.44		12	12	12	0.30	4.64	1.35	
	1105	U		1.11	1.89	0.44		12	12	12	0.30	4.69	1.57	
	1107	U		1.11	1.89	0.44		12	12	12	0.30	4.69	1.57	
	1110	U		1.11	1.89	0.44		12	12	12	0.30	4.69	1.57	
	1111	U		1.11	1.89	0.44		12	12	12	0.30	4.69	1.57	
	1113	U		1.11	1.89	0.44		12	12	12	0.30	4.69	1.57	
	1115	U		1.10	1.89	0.44		12	12	12	0.30	4.64	1.35	
1116	1102	U		1.10	1.89	0.44		12	12	12	0.30	4.69	1.48	
	1104	U		1.10	1.89	0.44		12	12	12	0.30	4.64	1.37	
	1105	U		1.11	1.89	0.44		12	12	12	0.30	4.69	1.57	
	1107	U		1.11	1.89	0.44		12	12	12	0.30	4.69	1.57	
	1109	U		1.10	1.89	0.44		12	12	12	0.30	4.64	1.37	
	1111	U		1.11	1.89	0.44		12	12	12	0.30	4.69	1.57	
	1113	U		1.11	1.89	0.44		12	12	12	0.30	4.69	1.57	
	1115	U		1.10	1.89	0.44		12	12	12	0.30	4.64	1.37	
1117	1102	U		1.10	1.89	0.43		12	12	12	0.30	4.65	1.36	
	1104	U		1.10	1.89	0.43		12	12	12	0.30	4.65	1.36	
	1105	U		1.11	1.89	0.43		12	12	12	0.30	4.69	1.57	
	1107	U		1.11	1.89	0.43		12	12	12	0.30	4.69	1.57	
	1109	U		1.10	1.89	0.43		12	12	12	0.30	4.65	1.36	
	1111	U		1.11	1.89	0.43		12	12	12	0.30	4.69	1.57	
	1113	U		1.11	1.89	0.43		12	12	12	0.30	4.69	1.57	
	1115	U		1.10	1.89	0.43		12	12	12	0.30	4.65	1.36	
1118	1102	U		1.10	1.89	0.43		12	12	12	0.30	4.65	1.36	
	1104	U		1.10	1.89	0.43		12	12	12	0.30	4.65	1.36	
	1105	U		1.11	1.89	0.43		12	12	12	0.30	4.69	1.55	
	1107	U		1.11	1.89	0.43		12	12	12	0.30	4.69	1.55	
	1109	U		1.10	1.89	0.43		12	12	12	0.30	4.65	1.36	
	1111	U		1.11	1.89	0.43		12	12	12	0.30	4.69	1.55	
	1113	U		1.11	1.89	0.43		12	12	12	0.30	4.69	1.55	
	1115	U		1.10	1.89	0.43		12	12	12	0.30	4.65	1.36	
1119	1102	U		1.10	1.89	0.42		12	12	12	0.30	4.65	1.37	
	1104	U		1.10	1.89	0.42		12	12	12	0.30	4.65	1.37	
	1105	U		1.11	1.89	0.42		12	12	12	0.30	4.69	1.53	
	1107	U		1.11	1.89	0.42		12	12	12	0.30	4.69	1.53	
	1109	U		1.10	1.89	0.42		12	12	12	0.30	4.65	1.37	
	1111	U		1.11	1.89	0.42		12	12	12	0.30	4.69	1.53	
	1113	U		1.11	1.89	0.42		12	12	12	0.30	4.69	1.53	
	1115	U		1.10	1.89	0.42		12	12	12	0.30	4.65	1.37	
1120	1102	U		1.10	1.89	0.41		12	12	12	0.30	4.70	1.43	
	1104	U		1.10	1.89	0.41		12	12	12	0.30	4.70	1.33	
	1105	U		1.11	1.89	0.41		12	12	12	0.30	4.70	1.47	
	1107	U		1.11	1.89	0.41		12	12	12	0.30	4.70	1.47	
	1109	U		1.10	1.89	0.41		12	12	12	0.30	4.70	1.33	
	1111	U		1.11	1.89	0.41		12	12	12	0.30	4.70	1.47	
	1113	U		1.11	1.89	0.41		12	12	12	0.30	4.70	1.47	
	1115	U		1.10	1.89	0.41		12	12	12	0.30	4.70	1.33	
1121	1102	U		1.11	1.90	0.39		12	12	12	0.30	4.71	1.41	
	1104	U		1.10	1.90	0.39		12	12	12	0.30	4.66	1.29	
	1105	U		1.11	1.90	0.39		12	12	12	0.30	4.71	1.41	
	1107	U		1.11	1.90	0.39		12	12	12	0.30	4.71	1.41	
	1109	U		1.10	1.90	0.39		12	12	12	0.30	4.66	1.29	
	1111	U		1.11	1.90	0.39		12	12	12	0.30	4.71	1.41	
	1113	U		1.11	1.90	0.39		12	12	12	0.30	4.71	1.41	
	1115	U		1.10	1.90	0.39		12	12	12	0.30	4.66	1.29	
1122	1102	U		1.11	1.90	0.38		12	12	12	0.30	4.68	1.28	
	1104	U		1.10	1.90	0.38		12	12	12	0.30	4.68	1.18	
	1106	U		1.10	1.90	0.38		12	12	12	0.30	4.68	1.18	
	1107	U		1.10	1.90	0.38		12	12	12	0.30	4.68	1.18	
	1109	U		1.10	1.90	0.38		12	12	12	0.30	4.68	1.18	
	1111	U		1.11	1.90	0.38		12	12	12	0.30	4.68	1.28	
	1113	U		1.11	1.90	0.38		12	12	12	0.30	4.68	1.28	
	1115	U		1.10	1.90	0.38		12	12	12	0.30	4.68	1.18	
1123	1102	U		1.11	1.92	0.38		12	12	12	0.30	4.71	1.09	
	1104	U		1.10	1.92	0.38		12	12	12	0.30	4.71	1.01	
	1106	U		1.10	1.92	0.38		12	12	12	0.30	4.71	1.01	
	1107	U		1.10	1.92	0.38		12	12	12	0.30	4.71	1.01	
	1109	U		1.10	1.92	0.38		12	12	12	0.30	4.71	1.01	
	1111	U		1.11	1.92	0.38		12	12	12	0.30	4.71	1.09	
	1114	U		1.10	1.92	0.38		12	12	12	0.30	4.71	1.01	
	1115	U		1.10	1.92	0.38		12	12	12	0.30	4.71	1.01	

ΤΑΦΡΟΣ T1 (3.00x2.80x1.50)m
CRACK CHECK (QUASI-PERMANENT COMBINATION)

LIVE-LOAD DESIGN RESULTS ACCORDING TO EUROCODE 2

ELEM No	LC No		x [m]	wk [mm]	Reinf.(stat.) Asa	Asm	Asi	diameter [mm] da	dm	di	wk [mm]	Reinforcmt req. Asa	Asm	Asi
1124	1102	U		1.11	1.93	0.39		12	12	12	0.30	4.73	0.95	
	1104	U		1.11	1.93	0.39		12	12	12	0.30	4.73	0.95	
	1106	U		1.11	1.93	0.39		12	12	12	0.30	4.73	0.95	
	1107	U		1.11	1.93	0.39		12	12	12	0.30	4.73	0.95	
	1109	U		1.11	1.93	0.39		12	12	12	0.30	4.73	0.95	
	1111	U		1.11	1.93	0.39		12	12	12	0.30	4.73	0.95	
	1114	U		1.11	1.93	0.39		12	12	12	0.30	4.73	0.95	
	1115	U		1.11	1.93	0.39		12	12	12	0.30	4.73	0.95	
1125	1102	U		1.11	1.92	0.38		12	12	12	0.30	4.72	0.94	
	1104	U		1.11	1.92	0.38		12	12	12	0.30	4.72	0.94	
	1106	U		1.11	1.92	0.38		12	12	12	0.30	4.72	0.94	
	1107	U		1.11	1.92	0.38		12	12	12	0.30	4.72	0.94	
	1109	U		1.11	1.92	0.38		12	12	12	0.30	4.72	0.94	
	1111	U		1.12	1.92	0.38		12	12	12	0.30	4.76	0.95	
	1114	U		1.11	1.92	0.38		12	12	12	0.30	4.72	0.94	
	1115	U		1.11	1.92	0.38		12	12	12	0.30	4.72	0.94	
1126	1102	U		1.10	1.55	0.31		12	12	12	0.30	4.18	0.84	
	1104	U		1.10	1.55	0.31		12	12	12	0.30	4.18	0.84	
	1105	U		1.10	1.55	0.31		12	12	12	0.30	4.18	0.84	
	1107	U		1.10	1.55	0.31		12	12	12	0.30	4.18	0.84	
	1110	U		1.10	1.55	0.31		12	12	12	0.30	4.18	0.84	
	1111	U		1.10	1.55	0.31		12	12	12	0.30	4.18	0.84	
	1114	U		1.10	1.55	0.31		12	12	12	0.30	4.18	0.84	
	1116	U		1.10	1.55	0.31		12	12	12	0.30	4.18	0.84	
1127	1102	U		1.11	1.55	0.31		12	12	12	0.30	4.21	0.84	
	1104	U		1.10	1.55	0.31		12	12	12	0.30	4.16	0.83	
	1105	U		1.10	1.55	0.31		12	12	12	0.30	4.16	0.83	
	1107	U		1.10	1.55	0.31		12	12	12	0.30	4.16	0.83	
	1110	U		1.10	1.55	0.31		12	12	12	0.30	4.16	0.83	
	1111	U		1.11	1.55	0.31		12	12	12	0.30	4.21	0.84	
	1113	U		0.67	1.55	0.31		12	12	12	0.30	3.18	0.64	
	1116	U		1.10	1.55	0.31		12	12	12	0.30	4.16	0.83	
1128	1102	U		1.11	1.53	0.31		12	12	12	0.30	4.13	1.00	
	1104	U		1.10	1.53	0.31		12	12	12	0.30	4.13	0.93	
	1105	U		1.10	1.53	0.31		12	12	12	0.30	4.13	0.93	
	1107	U		1.10	1.53	0.31		12	12	12	0.30	4.13	0.93	
	1110	U		1.10	1.53	0.31		12	12	12	0.30	4.13	0.93	
	1111	U		1.11	1.53	0.31		12	12	12	0.30	4.13	1.00	
	1113	U		1.11	1.53	0.31		12	12	12	0.30	4.13	1.00	
	1116	U		1.10	1.53	0.31		12	12	12	0.30	4.13	0.93	
1129	1102	U		1.11	1.51	0.30		12	12	12	0.30	4.12	1.10	
	1104	U		1.11	1.51	0.30		12	12	12	0.30	4.12	1.01	
	1105	U		1.11	1.51	0.30		12	12	12	0.30	4.12	1.01	
	1107	U		1.11	1.51	0.30		12	12	12	0.30	4.12	1.01	
	1110	U		1.11	1.51	0.30		12	12	12	0.30	4.12	1.01	
	1111	U		1.11	1.51	0.30		12	12	12	0.30	4.12	1.10	
	1113	U		1.11	1.51	0.30		12	12	12	0.30	4.12	1.10	
	1116	U		1.11	1.51	0.30		12	12	12	0.30	4.12	1.01	
1130	1102	U		1.11	1.49	0.32		12	12	12	0.30	4.08	1.15	
	1104	U		1.11	1.49	0.32		12	12	12	0.30	4.08	1.04	
	1106	U		1.11	1.49	0.32		12	12	12	0.30	4.08	1.15	
	1107	U		1.11	1.49	0.32		12	12	12	0.30	4.08	1.15	
	1110	U		1.11	1.49	0.32		12	12	12	0.30	4.08	1.04	
	1111	U		1.11	1.49	0.32		12	12	12	0.30	4.08	1.15	
	1113	U		1.11	1.49	0.32		12	12	12	0.30	4.08	1.15	
	1116	U		1.11	1.49	0.32		12	12	12	0.30	4.08	1.04	
1131	1102	U		1.11	1.49	0.33		12	12	12	0.30	4.06	1.05	
	1104	U		1.11	1.49	0.33		12	12	12	0.30	4.06	1.05	
	1106	U		1.11	1.49	0.33		12	12	12	0.30	4.10	1.19	
	1107	U		1.11	1.49	0.33		12	12	12	0.30	4.10	1.19	
	1110	U		1.11	1.49	0.33		12	12	12	0.30	4.06	1.05	
	1111	U		1.11	1.49	0.33		12	12	12	0.30	4.10	1.19	
	1113	U		1.11	1.49	0.33		12	12	12	0.30	4.10	1.19	
	1116	U		1.11	1.49	0.33		12	12	12	0.30	4.06	1.05	
1132	1102	U		1.10	1.48	0.34		12	12	12	0.30	4.09	1.06	
	1104	U		1.10	1.48	0.34		12	12	12	0.30	4.09	1.06	
	1106	U		1.10	1.48	0.34		12	12	12	0.30	4.09	1.21	
	1107	U		1.10	1.48	0.34		12	12	12	0.30	4.09	1.21	
	1110	U		1.10	1.48	0.34		12	12	12	0.30	4.09	1.06	
	1111	U		1.10	1.48	0.34		12	12	12	0.30	4.09	1.21	
	1113	U		1.10	1.48	0.34		12	12	12	0.30	4.09	1.21	
	1116	U		1.10	1.48	0.34		12	12	12	0.30	4.09	1.06	
1133	1102	U		1.10	1.48	0.34		12	12	12	0.30	4.04	1.06	
	1104	U		1.10	1.48	0.34		12	12	12	0.30	4.04	1.06	
	1106	U		1.10	1.48	0.34		12	12	12	0.30	4.08	1.24	
	1107	U		1.10	1.48	0.34		12	12	12	0.30	4.08	1.24	
	1110	U		1.10	1.48	0.34		12	12	12	0.30	4.04	1.06	
	1111	U		1.10	1.48	0.34		12	12	12	0.30	4.08	1.24	

ΤΑΦΡΟΣ T1 (3.00x2.80x1.50)m
CRACK CHECK (QUASI-PERMANENT COMBINATION)

LIVE-LOAD DESIGN RESULTS ACCORDING TO EUROCODE 2

ELEM No	LC No		x [m]	wk [mm]	Reinf.(stat.) Asa	Asm	Asi	diameter [mm] da	dm	di	wk [mm]	Reinforcmt req. Asa	Asm	Asi
	1113	U		1.10	1.48	0.34		12	12	12	0.30	4.08	1.24	
	1116	U		1.10	1.48	0.34		12	12	12	0.30	4.04	1.06	
1134	1102	U		1.10	1.48	0.35		12	12	12	0.30	4.04	1.05	
	1104	U		1.10	1.48	0.35		12	12	12	0.30	4.04	1.05	
	1106	U		1.10	1.48	0.35		12	12	12	0.30	4.08	1.25	
	1107	U		1.10	1.48	0.35		12	12	12	0.30	4.08	1.25	
	1110	U		0.67	1.48	0.35		12	12	12	0.30	3.05	0.65	
	1111	U		1.10	1.48	0.35		12	12	12	0.30	4.08	1.25	
	1113	U		1.10	1.48	0.35		12	12	12	0.30	4.08	1.25	
	1116	U		1.10	1.48	0.35		12	12	12	0.30	4.04	1.05	
1135	1102	U		1.10	1.48	0.35		12	12	12	0.30	4.03	1.04	
	1104	U		1.10	1.48	0.35		12	12	12	0.30	4.03	1.04	
	1106	U		1.11	1.48	0.35		12	12	12	0.30	4.08	1.24	
	1107	U		1.11	1.48	0.35		12	12	12	0.30	4.08	1.24	
	1109	U		1.11	1.48	0.35		12	12	12	0.30	4.08	1.24	
	1111	U		1.11	1.48	0.35		12	12	12	0.30	4.08	1.24	
	1113	U		1.11	1.48	0.35		12	12	12	0.30	4.08	1.24	
	1116	U		1.10	1.48	0.35		12	12	12	0.30	4.03	1.04	
1136	1102	U		1.10	1.48	0.35		12	12	12	0.30	4.03	1.03	
	1104	U		1.10	1.48	0.35		12	12	12	0.30	4.03	1.03	
	1106	U		1.11	1.48	0.35		12	12	12	0.30	4.07	1.24	
	1107	U		1.11	1.48	0.35		12	12	12	0.30	4.07	1.24	
	1109	U		1.11	1.48	0.35		12	12	12	0.30	4.07	1.24	
	1111	U		1.11	1.48	0.35		12	12	12	0.30	4.07	1.24	
	1113	U		1.11	1.48	0.35		12	12	12	0.30	4.07	1.24	
	1116	U		1.10	1.48	0.35		12	12	12	0.30	4.03	1.03	
1137	1102	U		1.10	1.47	0.35		12	12	12	0.30	4.07	1.03	
	1104	U		1.10	1.47	0.35		12	12	12	0.30	4.07	1.03	
	1106	U		1.11	1.47	0.35		12	12	12	0.30	4.07	1.24	
	1107	U		1.11	1.47	0.35		12	12	12	0.30	4.07	1.24	
	1109	U		1.11	1.47	0.35		12	12	12	0.30	4.07	1.24	
	1111	U		1.11	1.47	0.35		12	12	12	0.30	4.07	1.24	
	1113	U		1.11	1.47	0.35		12	12	12	0.30	4.07	1.24	
	1116	U		1.10	1.47	0.35		12	12	12	0.30	4.07	1.03	
1138	1102	U		1.10	1.47	0.35		12	12	12	0.30	4.07	1.02	
	1104	U		1.10	1.47	0.35		12	12	12	0.30	4.07	1.02	
	1105	U		1.10	1.47	0.35		12	12	12	0.30	4.07	1.15	
	1107	U		1.11	1.47	0.35		12	12	12	0.30	4.07	1.23	
	1110	U		1.10	1.47	0.35		12	12	12	0.30	4.07	1.15	
	1111	U		1.11	1.47	0.35		12	12	12	0.30	4.07	1.23	
	1113	U		1.11	1.47	0.35		12	12	12	0.30	4.07	1.23	
	1115	U		1.11	1.47	0.35		12	12	12	0.30	4.07	1.23	
1139	1102	U		1.10	1.47	0.35		12	12	12	0.30	4.07	1.03	
	1104	U		1.10	1.47	0.35		12	12	12	0.30	4.07	1.03	
	1105	U		1.11	1.47	0.35		12	12	12	0.30	4.07	1.24	
	1107	U		1.11	1.47	0.35		12	12	12	0.30	4.07	1.24	
	1110	U		1.11	1.47	0.35		12	12	12	0.30	4.07	1.24	
	1111	U		1.11	1.47	0.35		12	12	12	0.30	4.07	1.24	
	1113	U		1.11	1.47	0.35		12	12	12	0.30	4.07	1.24	
	1115	U		1.10	1.47	0.35		12	12	12	0.30	4.07	1.03	
1140	1102	U		1.10	1.48	0.35		12	12	12	0.30	4.03	1.03	
	1104	U		1.10	1.48	0.35		12	12	12	0.30	4.03	1.03	
	1105	U		1.11	1.48	0.35		12	12	12	0.30	4.07	1.24	
	1107	U		1.11	1.48	0.35		12	12	12	0.30	4.07	1.24	
	1110	U		1.11	1.48	0.35		12	12	12	0.30	4.07	1.24	
	1111	U		1.11	1.48	0.35		12	12	12	0.30	4.07	1.24	
	1113	U		1.11	1.48	0.35		12	12	12	0.30	4.07	1.24	
	1115	U		1.10	1.48	0.35		12	12	12	0.30	4.03	1.03	
1141	1102	U		1.10	1.48	0.35		12	12	12	0.30	4.03	1.04	
	1104	U		1.10	1.48	0.35		12	12	12	0.30	4.03	1.04	
	1105	U		1.11	1.48	0.35		12	12	12	0.30	4.08	1.24	
	1107	U		1.11	1.48	0.35		12	12	12	0.30	4.08	1.24	
	1110	U		1.11	1.48	0.35		12	12	12	0.30	4.08	1.24	
	1111	U		1.11	1.48	0.35		12	12	12	0.30	4.08	1.24	
	1113	U		1.11	1.48	0.35		12	12	12	0.30	4.08	1.24	
	1115	U		1.10	1.48	0.35		12	12	12	0.30	4.03	1.04	
1142	1102	U		1.10	1.48	0.35		12	12	12	0.30	4.04	1.05	
	1104	U		1.10	1.48	0.35		12	12	12	0.30	4.04	1.05	
	1105	U		1.10	1.48	0.35		12	12	12	0.30	4.08	1.25	
	1107	U		1.10	1.48	0.35		12	12	12	0.30	4.08	1.25	
	1109	U		0.67	1.48	0.35		12	12	12	0.30	3.05	0.65	
	1111	U		1.10	1.48	0.35		12	12	12	0.30	4.08	1.25	
	1113	U		1.10	1.48	0.35		12	12	12	0.30	4.08	1.25	
	1115	U		1.10	1.48	0.35		12	12	12	0.30	4.04	1.05	
1143	1102	U		1.10	1.48	0.34		12	12	12	0.30	4.04	1.06	
	1104	U		1.10	1.48	0.34		12	12	12	0.30	4.04	1.06	
	1105	U		1.10	1.48	0.34		12	12	12	0.30	4.08	1.24	
	1107	U		1.10	1.48	0.34		12	12	12	0.30	4.08	1.24	

ΤΑΦΡΟΣ T1 (3.00x2.80x1.50)m
CRACK CHECK (QUASI-PERMANENT COMBINATION)

LIVE-LOAD DESIGN RESULTS ACCORDING TO EUROCODE 2

ELEM No	LC No		x [m]	wk [mm]	Reinf.(stat.) Asa	Asm	Asi	diameter [mm] da	dm	di	wk [mm]	Reinforcmt req. Asa	Asm	Asi
	1109	U		1.10	1.48	0.34		12	12	12	0.30	4.04	1.06	
	1111	U		1.10	1.48	0.34		12	12	12	0.30	4.08	1.24	
	1113	U		1.10	1.48	0.34		12	12	12	0.30	4.08	1.24	
	1115	U		1.10	1.48	0.34		12	12	12	0.30	4.04	1.06	
1144	1102	U		1.10	1.48	0.34		12	12	12	0.30	4.09	1.06	
	1104	U		1.10	1.48	0.34		12	12	12	0.30	4.09	1.06	
	1105	U		1.10	1.48	0.34		12	12	12	0.30	4.09	1.21	
	1107	U		1.10	1.48	0.34		12	12	12	0.30	4.09	1.21	
	1109	U		1.10	1.48	0.34		12	12	12	0.30	4.09	1.06	
	1111	U		1.10	1.48	0.34		12	12	12	0.30	4.09	1.21	
	1113	U		1.10	1.48	0.34		12	12	12	0.30	4.09	1.21	
	1115	U		1.10	1.48	0.34		12	12	12	0.30	4.09	1.06	
1145	1102	U		1.11	1.49	0.33		12	12	12	0.30	4.06	1.05	
	1104	U		1.11	1.49	0.33		12	12	12	0.30	4.06	1.05	
	1105	U		1.11	1.49	0.33		12	12	12	0.30	4.10	1.19	
	1107	U		1.11	1.49	0.33		12	12	12	0.30	4.10	1.19	
	1109	U		1.11	1.49	0.33		12	12	12	0.30	4.06	1.05	
	1111	U		1.11	1.49	0.33		12	12	12	0.30	4.10	1.19	
	1113	U		1.11	1.49	0.33		12	12	12	0.30	4.10	1.19	
	1115	U		1.11	1.49	0.33		12	12	12	0.30	4.06	1.05	
1146	1102	U		1.11	1.49	0.32		12	12	12	0.30	4.08	1.15	
	1104	U		1.11	1.49	0.32		12	12	12	0.30	4.08	1.04	
	1105	U		1.11	1.49	0.32		12	12	12	0.30	4.08	1.15	
	1107	U		1.11	1.49	0.32		12	12	12	0.30	4.08	1.15	
	1109	U		1.11	1.49	0.32		12	12	12	0.30	4.08	1.04	
	1111	U		1.11	1.49	0.32		12	12	12	0.30	4.08	1.15	
	1113	U		1.11	1.49	0.32		12	12	12	0.30	4.08	1.15	
	1115	U		1.11	1.49	0.32		12	12	12	0.30	4.08	1.04	
1147	1102	U		1.11	1.51	0.30		12	12	12	0.30	4.12	1.10	
	1104	U		1.11	1.51	0.30		12	12	12	0.30	4.12	1.01	
	1106	U		1.11	1.51	0.30		12	12	12	0.30	4.12	1.01	
	1107	U		1.11	1.51	0.30		12	12	12	0.30	4.12	1.01	
	1109	U		1.11	1.51	0.30		12	12	12	0.30	4.12	1.01	
	1111	U		1.11	1.51	0.30		12	12	12	0.30	4.12	1.10	
	1113	U		1.11	1.51	0.30		12	12	12	0.30	4.12	1.10	
	1115	U		1.11	1.51	0.30		12	12	12	0.30	4.12	1.01	
1148	1102	U		1.11	1.53	0.31		12	12	12	0.30	4.13	1.00	
	1104	U		1.10	1.53	0.31		12	12	12	0.30	4.13	0.93	
	1106	U		1.10	1.53	0.31		12	12	12	0.30	4.13	0.93	
	1107	U		1.10	1.53	0.31		12	12	12	0.30	4.13	0.93	
	1109	U		1.10	1.53	0.31		12	12	12	0.30	4.13	0.93	
	1111	U		1.11	1.53	0.31		12	12	12	0.30	4.13	1.00	
	1113	U		1.11	1.53	0.31		12	12	12	0.30	4.13	1.00	
	1115	U		1.10	1.53	0.31		12	12	12	0.30	4.13	0.93	
1149	1102	U		1.11	1.55	0.31		12	12	12	0.30	4.21	0.84	
	1104	U		1.10	1.55	0.31		12	12	12	0.30	4.17	0.83	
	1106	U		1.10	1.55	0.31		12	12	12	0.30	4.17	0.83	
	1107	U		1.10	1.55	0.31		12	12	12	0.30	4.17	0.83	
	1109	U		1.10	1.55	0.31		12	12	12	0.30	4.17	0.83	
	1111	U		1.11	1.55	0.31		12	12	12	0.30	4.21	0.84	
	1113	U		0.67	1.55	0.31		12	12	12	0.30	3.18	0.64	
	1115	U		1.10	1.55	0.31		12	12	12	0.30	4.17	0.83	
1150	1102	U		1.10	1.55	0.31		12	12	12	0.30	4.18	0.84	
	1104	U		1.10	1.55	0.31		12	12	12	0.30	4.18	0.84	
	1106	U		1.10	1.55	0.31		12	12	12	0.30	4.18	0.84	
	1107	U		1.10	1.55	0.31		12	12	12	0.30	4.18	0.84	
	1109	U		1.10	1.55	0.31		12	12	12	0.30	4.18	0.84	
	1111	U		1.10	1.55	0.31		12	12	12	0.30	4.18	0.84	
	1114	U		1.10	1.55	0.31		12	12	12	0.30	4.18	0.84	
	1115	U		1.10	1.55	0.31		12	12	12	0.30	4.18	0.84	
1151	1102	U		1.11	1.09	0.22		12	12	12	0.30	3.16	0.65	
	1104	U		1.10	1.09	0.22		12	12	12	0.30	3.16	0.65	
	1105	U		1.10	1.09	0.22		12	12	12	0.30	3.16	0.65	
	1107	U		0.56	1.09	0.22		12	12	12	0.30	1.90	0.41	
	1110	U		1.10	1.09	0.22		12	12	12	0.30	3.16	0.65	
	1111	U		1.11	1.09	0.22		12	12	12	0.30	3.16	0.65	
	1113	U		1.11	1.09	0.22		12	12	12	0.30	3.16	0.65	
	1116	U		1.10	1.09	0.22		12	12	12	0.30	3.16	0.65	
1152	1102	U		1.11	1.13	0.24		12	12	12	0.30	3.50	0.86	
	1104	U		1.11	1.13	0.24		12	12	12	0.30	3.50	0.84	
	1105	U		1.11	1.13	0.24		12	12	12	0.30	3.50	0.84	
	1107	U		0.55	1.13	0.24		12	12	12	0.30	1.92	0.43	
	1110	U		1.11	1.13	0.24		12	12	12	0.30	3.50	0.84	
	1111	U		1.11	1.13	0.24		12	12	12	0.30	3.50	0.86	
	1113	U		1.11	1.13	0.24		12	12	12	0.30	3.50	0.86	
	1116	U		1.11	1.13	0.24		12	12	12	0.30	3.50	0.84	
1153	1102	U		1.10	1.11	0.25		12	12	12	0.30	3.45	0.91	
	1104	U		1.11	1.11	0.25		12	12	12	0.30	3.45	0.86	

ΤΑΦΡΟΣ T1 (3.00x2.80x1.50)m
CRACK CHECK (QUASI-PERMANENT COMBINATION)

LIVE-LOAD DESIGN RESULTS ACCORDING TO EUROCODE 2

ELEM No	LC No		x [m]	wk [mm]	Reinf.(stat.) Asa	Asm	Asi	diameter [mm] da	dm	di	wk [mm]	Reinforcmt req. Asa	Asm	Asi
	1105	U		1.11	1.11	0.25		12	12	12	0.30	3.45	0.86	
	1107	U		0.51	1.11	0.25		12	12	12	0.30	1.88	0.42	
	1110	U		1.11	1.11	0.25		12	12	12	0.30	3.45	0.86	
	1111	U		1.10	1.11	0.25		12	12	12	0.30	3.45	0.91	
	1113	U		1.10	1.11	0.25		12	12	12	0.30	3.45	0.91	
	1116	U		1.11	1.11	0.25		12	12	12	0.30	3.45	0.86	
1154	1102	U		1.10	1.09	0.25		12	12	12	0.30	3.43	0.92	
	1104	U		1.11	1.09	0.25		12	12	12	0.30	3.43	0.83	
	1105	U		1.11	1.09	0.25		12	12	12	0.30	3.43	0.83	
	1107	U		0.49	1.09	0.25		12	12	12	0.30	1.79	0.40	
	1110	U		1.11	1.09	0.25		12	12	12	0.30	3.43	0.83	
	1111	U		1.10	1.09	0.25		12	12	12	0.30	3.43	0.92	
	1113	U		1.10	1.09	0.25		12	12	12	0.30	3.43	0.92	
	1116	U		1.11	1.09	0.25		12	12	12	0.30	3.43	0.83	
1155	1102	U		1.10	1.07	0.25		12	12	12	0.30	3.40	0.90	
	1104	U		1.11	1.07	0.25		12	12	12	0.30	3.40	0.80	
	1106	U		1.10	1.07	0.25		12	12	12	0.30	3.40	0.90	
	1107	U		0.59	1.07	0.25		12	12	12	0.30	1.79	0.49	
	1110	U		1.11	1.07	0.25		12	12	12	0.30	3.40	0.80	
	1111	U		1.10	1.07	0.25		12	12	12	0.30	3.40	0.90	
	1113	U		1.10	1.07	0.25		12	12	12	0.30	3.40	0.90	
	1116	U		1.11	1.07	0.25		12	12	12	0.30	3.40	0.80	
1156	1102	U		1.11	1.06	0.25		12	12	12	0.30	3.38	0.77	
	1104	U		1.11	1.06	0.25		12	12	12	0.30	3.38	0.77	
	1106	U		1.10	1.06	0.25		12	12	12	0.30	3.38	0.89	
	1107	U		0.60	1.06	0.25		12	12	12	0.30	1.77	0.49	
	1110	U		0.49	1.06	0.25		12	12	12	0.30	1.72	0.36	
	1111	U		1.10	1.06	0.25		12	12	12	0.30	3.38	0.89	
	1113	U		1.10	1.06	0.25		12	12	12	0.30	3.38	0.89	
	1116	U		1.11	1.06	0.25		12	12	12	0.30	3.38	0.77	
1157	1102	U		1.11	1.05	0.25		12	12	12	0.30	3.35	0.74	
	1104	U		1.11	1.05	0.25		12	12	12	0.30	3.35	0.74	
	1106	U		1.10	1.05	0.25		12	12	12	0.30	3.38	0.89	
	1107	U		0.62	1.05	0.25		12	12	12	0.30	1.77	0.51	
	1109	U		1.10	1.05	0.25		12	12	12	0.30	3.38	0.89	
	1111	U		1.10	1.05	0.25		12	12	12	0.30	3.38	0.89	
	1113	U		1.10	1.05	0.25		12	12	12	0.30	3.38	0.89	
	1116	U		1.11	1.05	0.25		12	12	12	0.30	3.35	0.74	
1158	1102	U		1.10	1.04	0.25		12	12	12	0.30	3.33	0.72	
	1104	U		1.10	1.04	0.25		12	12	12	0.30	3.33	0.72	
	1106	U		1.10	1.04	0.25		12	12	12	0.30	3.37	0.89	
	1107	U		0.62	1.04	0.25		12	12	12	0.30	1.76	0.51	
	1109	U		1.10	1.04	0.25		12	12	12	0.30	3.37	0.89	
	1111	U		1.10	1.04	0.25		12	12	12	0.30	3.37	0.89	
	1113	U		1.10	1.04	0.25		12	12	12	0.30	3.37	0.89	
	1116	U		1.10	1.04	0.25		12	12	12	0.30	3.33	0.72	
1159	1102	U		1.10	1.04	0.25		12	12	12	0.30	3.33	0.70	
	1104	U		1.10	1.04	0.25		12	12	12	0.30	3.33	0.70	
	1106	U		1.10	1.04	0.25		12	12	12	0.30	3.36	0.90	
	1107	U		0.62	1.04	0.25		12	12	12	0.30	1.76	0.52	
	1109	U		1.10	1.04	0.25		12	12	12	0.30	3.36	0.90	
	1111	U		1.10	1.04	0.25		12	12	12	0.30	3.36	0.90	
	1113	U		1.10	1.04	0.25		12	12	12	0.30	3.36	0.90	
	1116	U		1.10	1.04	0.25		12	12	12	0.30	3.33	0.70	
1160	1102	U		1.10	1.04	0.25		12	12	12	0.30	3.32	0.69	
	1104	U		1.10	1.04	0.25		12	12	12	0.30	3.32	0.69	
	1106	U		1.10	1.04	0.25		12	12	12	0.30	3.36	0.90	
	1107	U		0.62	1.04	0.25		12	12	12	0.30	1.75	0.52	
	1109	U		1.10	1.04	0.25		12	12	12	0.30	3.36	0.90	
	1111	U		1.10	1.04	0.25		12	12	12	0.30	3.36	0.90	
	1113	U		1.10	1.04	0.25		12	12	12	0.30	3.36	0.90	
	1116	U		1.10	1.04	0.25		12	12	12	0.30	3.32	0.69	
1161	1102	U		1.10	1.04	0.25		12	12	12	0.30	3.32	0.68	
	1104	U		1.10	1.04	0.25		12	12	12	0.30	3.32	0.68	
	1106	U		1.11	1.04	0.25		12	12	12	0.30	3.35	0.90	
	1107	U		0.62	1.04	0.25		12	12	12	0.30	1.75	0.52	
	1109	U		1.11	1.04	0.25		12	12	12	0.30	3.35	0.90	
	1111	U		1.11	1.04	0.25		12	12	12	0.30	3.35	0.90	
	1113	U		1.11	1.04	0.25		12	12	12	0.30	3.35	0.90	
	1116	U		1.10	1.04	0.25		12	12	12	0.30	3.32	0.68	
1162	1102	U		1.10	1.04	0.25		12	12	12	0.30	3.35	0.68	
	1104	U		1.10	1.04	0.25		12	12	12	0.30	3.35	0.68	
	1106	U		1.11	1.04	0.25		12	12	12	0.30	3.35	0.89	
	1107	U		0.62	1.04	0.25		12	12	12	0.30	1.75	0.52	
	1109	U		1.11	1.04	0.25		12	12	12	0.30	3.35	0.89	
	1111	U		1.11	1.04	0.25		12	12	12	0.30	3.35	0.89	
	1113	U		1.11	1.04	0.25		12	12	12	0.30	3.35	0.89	
	1116	U		1.10	1.04	0.25		12	12	12	0.30	3.35	0.68	

ΤΑΦΡΟΣ T1 (3.00x2.80x1.50)m
CRACK CHECK (QUASI-PERMANENT COMBINATION)

LIVE-LOAD DESIGN RESULTS ACCORDING TO EUROCODE 2

ELEM No	LC No		x [m]	wk [mm]	Reinf.(stat.) Asa	Asm	Asi	diameter [mm] da	dm	di	wk [mm]	Reinforcmt req. Asa	Asm	Asi
1163	1102	U		1.10	1.04	0.25		12	12	12	0.30	3.34	0.67	
	1104	U		1.10	1.04	0.25		12	12	12	0.30	3.34	0.67	
	1106	U		1.10	1.04	0.25		12	12	12	0.30	3.34	0.67	
	1107	U		0.62	1.04	0.25		12	12	12	0.30	1.75	0.52	
	1109	U		1.10	1.04	0.25		12	12	12	0.30	3.34	0.67	
	1111	U		1.11	1.04	0.25		12	12	12	0.30	3.35	0.89	
	1113	U		1.11	1.04	0.25		12	12	12	0.30	3.35	0.89	
	1116	U		1.11	1.04	0.25		12	12	12	0.30	3.35	0.89	
1164	1102	U		1.10	1.04	0.25		12	12	12	0.30	3.35	0.68	
	1104	U		1.10	1.04	0.25		12	12	12	0.30	3.35	0.68	
	1105	U		1.11	1.04	0.25		12	12	12	0.30	3.35	0.89	
	1107	U		0.62	1.04	0.25		12	12	12	0.30	1.75	0.52	
	1110	U		1.11	1.04	0.25		12	12	12	0.30	3.35	0.89	
	1111	U		1.11	1.04	0.25		12	12	12	0.30	3.35	0.89	
	1113	U		1.11	1.04	0.25		12	12	12	0.30	3.35	0.89	
	1115	U		1.10	1.04	0.25		12	12	12	0.30	3.35	0.68	
1165	1102	U		1.10	1.04	0.25		12	12	12	0.30	3.32	0.68	
	1104	U		1.10	1.04	0.25		12	12	12	0.30	3.32	0.68	
	1105	U		1.11	1.04	0.25		12	12	12	0.30	3.35	0.90	
	1107	U		0.62	1.04	0.25		12	12	12	0.30	1.75	0.52	
	1110	U		1.11	1.04	0.25		12	12	12	0.30	3.35	0.90	
	1111	U		1.11	1.04	0.25		12	12	12	0.30	3.35	0.90	
	1113	U		1.11	1.04	0.25		12	12	12	0.30	3.35	0.90	
	1115	U		1.10	1.04	0.25		12	12	12	0.30	3.32	0.68	
1166	1102	U		1.10	1.04	0.25		12	12	12	0.30	3.32	0.69	
	1104	U		1.10	1.04	0.25		12	12	12	0.30	3.32	0.69	
	1105	U		1.10	1.04	0.25		12	12	12	0.30	3.36	0.90	
	1107	U		0.62	1.04	0.25		12	12	12	0.30	1.75	0.52	
	1110	U		1.10	1.04	0.25		12	12	12	0.30	3.36	0.90	
	1111	U		1.10	1.04	0.25		12	12	12	0.30	3.36	0.90	
	1113	U		1.10	1.04	0.25		12	12	12	0.30	3.36	0.90	
	1115	U		1.10	1.04	0.25		12	12	12	0.30	3.32	0.69	
1167	1102	U		1.10	1.04	0.25		12	12	12	0.30	3.33	0.70	
	1104	U		1.10	1.04	0.25		12	12	12	0.30	3.33	0.70	
	1105	U		1.10	1.04	0.25		12	12	12	0.30	3.36	0.90	
	1107	U		0.62	1.04	0.25		12	12	12	0.30	1.76	0.52	
	1110	U		1.10	1.04	0.25		12	12	12	0.30	3.36	0.90	
	1111	U		1.10	1.04	0.25		12	12	12	0.30	3.36	0.90	
	1113	U		1.10	1.04	0.25		12	12	12	0.30	3.36	0.90	
	1115	U		1.10	1.04	0.25		12	12	12	0.30	3.33	0.70	
1168	1102	U		1.10	1.04	0.25		12	12	12	0.30	3.33	0.72	
	1104	U		1.10	1.04	0.25		12	12	12	0.30	3.33	0.72	
	1105	U		1.10	1.04	0.25		12	12	12	0.30	3.37	0.89	
	1107	U		0.62	1.04	0.25		12	12	12	0.30	1.76	0.51	
	1110	U		1.10	1.04	0.25		12	12	12	0.30	3.37	0.89	
	1111	U		1.10	1.04	0.25		12	12	12	0.30	3.37	0.89	
	1113	U		1.10	1.04	0.25		12	12	12	0.30	3.37	0.89	
	1115	U		1.10	1.04	0.25		12	12	12	0.30	3.33	0.72	
1169	1102	U		1.11	1.05	0.25		12	12	12	0.30	3.35	0.74	
	1104	U		1.11	1.05	0.25		12	12	12	0.30	3.35	0.74	
	1105	U		1.10	1.05	0.25		12	12	12	0.30	3.38	0.89	
	1107	U		0.62	1.05	0.25		12	12	12	0.30	1.77	0.51	
	1110	U		1.10	1.05	0.25		12	12	12	0.30	3.38	0.89	
	1111	U		1.10	1.05	0.25		12	12	12	0.30	3.38	0.89	
	1113	U		1.10	1.05	0.25		12	12	12	0.30	3.38	0.89	
	1115	U		1.11	1.05	0.25		12	12	12	0.30	3.35	0.74	
1170	1102	U		1.11	1.06	0.25		12	12	12	0.30	3.38	0.77	
	1104	U		1.11	1.06	0.25		12	12	12	0.30	3.38	0.77	
	1105	U		1.10	1.06	0.25		12	12	12	0.30	3.38	0.89	
	1107	U		0.60	1.06	0.25		12	12	12	0.30	1.77	0.49	
	1109	U		0.49	1.06	0.25		12	12	12	0.30	1.72	0.36	
	1111	U		1.10	1.06	0.25		12	12	12	0.30	3.38	0.89	
	1113	U		1.10	1.06	0.25		12	12	12	0.30	3.38	0.89	
	1115	U		1.11	1.06	0.25		12	12	12	0.30	3.38	0.77	
1171	1102	U		1.10	1.07	0.25		12	12	12	0.30	3.40	0.90	
	1104	U		1.11	1.07	0.25		12	12	12	0.30	3.40	0.80	
	1105	U		1.10	1.07	0.25		12	12	12	0.30	3.40	0.90	
	1107	U		0.59	1.07	0.25		12	12	12	0.30	1.79	0.49	
	1109	U		1.11	1.07	0.25		12	12	12	0.30	3.40	0.80	
	1111	U		1.10	1.07	0.25		12	12	12	0.30	3.40	0.90	
	1113	U		1.10	1.07	0.25		12	12	12	0.30	3.40	0.90	
	1115	U		1.11	1.07	0.25		12	12	12	0.30	3.40	0.80	
1172	1102	U		1.10	1.09	0.25		12	12	12	0.30	3.43	0.92	
	1104	U		1.11	1.09	0.25		12	12	12	0.30	3.43	0.83	
	1106	U		1.11	1.09	0.25		12	12	12	0.30	3.43	0.83	
	1107	U		0.49	1.09	0.25		12	12	12	0.30	1.79	0.40	
	1109	U		1.11	1.09	0.25		12	12	12	0.30	3.43	0.83	
	1111	U		1.10	1.09	0.25		12	12	12	0.30	3.43	0.92	

ΤΑΦΡΟΣ T1 (3.00x2.80x1.50)m
CRACK CHECK (QUASI-PERMANENT COMBINATION)

LIVE-LOAD DESIGN RESULTS ACCORDING TO EUROCODE 2

ELEM	LC		x	wk	Reinf.(stat.)			diameter [mm]			wk	Reinforcmt req.		
No	No		[m]	[mm]	Asa	Asm	Asi	da	dm	di	[mm]	Asa	Asm	Asi
	1113	U		1.10	1.09	0.25		12	12	12	0.30	3.43	0.92	
	1115	U		1.11	1.09	0.25		12	12	12	0.30	3.43	0.83	
1173	1102	U		1.10	1.11	0.25		12	12	12	0.30	3.45	0.91	
	1104	U		1.11	1.11	0.25		12	12	12	0.30	3.45	0.86	
	1106	U		1.11	1.11	0.25		12	12	12	0.30	3.45	0.86	
	1107	U		0.51	1.11	0.25		12	12	12	0.30	1.88	0.42	
	1109	U		1.11	1.11	0.25		12	12	12	0.30	3.45	0.86	
	1111	U		1.10	1.11	0.25		12	12	12	0.30	3.45	0.91	
	1113	U		1.10	1.11	0.25		12	12	12	0.30	3.45	0.91	
	1115	U		1.11	1.11	0.25		12	12	12	0.30	3.45	0.86	
1174	1102	U		1.11	1.13	0.24		12	12	12	0.30	3.50	0.86	
	1104	U		1.11	1.13	0.24		12	12	12	0.30	3.50	0.84	
	1106	U		1.11	1.13	0.24		12	12	12	0.30	3.50	0.84	
	1107	U		0.55	1.13	0.24		12	12	12	0.30	1.92	0.43	
	1109	U		1.11	1.13	0.24		12	12	12	0.30	3.50	0.84	
	1111	U		1.11	1.13	0.24		12	12	12	0.30	3.50	0.86	
	1113	U		1.11	1.13	0.24		12	12	12	0.30	3.50	0.86	
	1115	U		1.11	1.13	0.24		12	12	12	0.30	3.50	0.84	
1175	1102	U		1.11	1.09	0.22		12	12	12	0.30	3.16	0.65	
	1104	U		1.10	1.09	0.22		12	12	12	0.30	3.16	0.65	
	1106	U		1.10	1.09	0.22		12	12	12	0.30	3.16	0.65	
	1107	U		0.56	1.09	0.22		12	12	12	0.30	1.90	0.41	
	1109	U		1.10	1.09	0.22		12	12	12	0.30	3.16	0.65	
	1111	U		1.11	1.09	0.22		12	12	12	0.30	3.16	0.65	
	1113	U		1.11	1.09	0.22		12	12	12	0.30	3.16	0.65	
	1115	U		1.10	1.09	0.22		12	12	12	0.30	3.16	0.65	
2001	1102	U		0.94	0.14	0.69		12	12	12	0.30	0.43	2.14	
	1104	U		0.95	0.14	0.69		12	12	12	0.30	0.44	2.19	
	1106	U		0.95	0.14	0.69		12	12	12	0.30	0.44	2.19	
	1108	U		0.94	0.14	0.69		12	12	12	0.30	0.43	2.14	
	1109	U		0.95	0.14	0.69		12	12	12	0.30	0.44	2.19	
	1112	U		0.95	0.14	0.69		12	12	12	0.30	0.44	2.19	
	1114	U		0.94	0.14	0.69		12	12	12	0.30	0.43	2.14	
	1116	U		0.95	0.14	0.69		12	12	12	0.30	0.44	2.19	
2002	1102	U		0.85	0.07	0.35		12	12	12	0.30	0.20	0.99	
	1104	U		0.87	0.07	0.35		12	12	12	0.30	0.20	1.02	
	1105	U		0.85	0.07	0.35		12	12	12	0.30	0.20	0.99	
	1108	U		0.85	0.07	0.35		12	12	12	0.30	0.20	0.99	
	1109	U		0.87	0.07	0.35		12	12	12	0.30	0.20	1.02	
	1112	U		0.87	0.07	0.35		12	12	12	0.30	0.20	1.02	
	1114	U		0.85	0.07	0.35		12	12	12	0.30	0.20	0.99	
	1116	U		0.85	0.07	0.35		12	12	12	0.30	0.20	0.99	
2003	1102	U		0.60	0.04	0.13		12	12	12	0.30	0.08	0.24	
	1103	L		0.34	0.48	2.38		12	12	12	0.30	0.51	2.56	
	1104	U		0.61	0.04	0.13		12	12	12	0.30	0.08	0.26	
	1105	U		0.60	0.04	0.13		12	12	12	0.30	0.08	0.24	
	1108	U		0.60	0.04	0.13		12	12	12	0.30	0.08	0.24	
	1109	U		0.61	0.04	0.13		12	12	12	0.30	0.08	0.26	
	1110	L		0.34	0.48	2.38		12	12	12	0.30	0.51	2.56	
	1111	L		0.34	0.48	2.38		12	12	12	0.30	0.51	2.56	
	1112	U		0.61	0.04	0.13		12	12	12	0.30	0.08	0.26	
	1114	U		0.60	0.04	0.13		12	12	12	0.30	0.08	0.24	
	1116	U		0.60	0.04	0.13		12	12	12	0.30	0.08	0.24	
2004	1102	U		0.31	0.07	0.01		12	12	12	0.30	0.07	0.01	
	1103	U		0.31	0.07	0.01		12	12	12	0.30	0.07	0.01	
	1106	U		0.31	0.07	0.01		12	12	12	0.30	0.07	0.01	
	1108	U		0.31	0.07	0.01		12	12	12	0.30	0.07	0.01	
	1110	U		0.31	0.07	0.01		12	12	12	0.30	0.07	0.01	
	1111	U		0.31	0.07	0.01		12	12	12	0.30	0.07	0.01	
	1113	U		0.31	0.07	0.01		12	12	12	0.30	0.07	0.01	
	1115	U		0.31	0.07	0.01		12	12	12	0.30	0.07	0.01	
2005	1102	U		0.33	0.07	0.04		12	12	12	0.30	0.08	0.04	
	1103	U		0.33	0.07	0.04		12	12	12	0.30	0.08	0.04	
	1106	U		0.34	0.07	0.04		12	12	12	0.30	0.08	0.04	
	1108	U		0.33	0.07	0.04		12	12	12	0.30	0.08	0.04	
	1110	U		0.33	0.07	0.04		12	12	12	0.30	0.08	0.04	
	1111	U		0.34	0.07	0.04		12	12	12	0.30	0.08	0.04	
	1113	U		0.34	0.07	0.04		12	12	12	0.30	0.08	0.04	
	1115	U		0.34	0.07	0.04		12	12	12	0.30	0.08	0.04	
2006	1102	U		0.33	0.06	0.02		12	12	12	0.30	0.06	0.02	
	1103	U		0.32	0.06	0.02		12	12	12	0.30	0.06	0.02	
	1106	U		0.33	0.06	0.02		12	12	12	0.30	0.06	0.02	
	1108	U		0.32	0.06	0.02		12	12	12	0.30	0.06	0.02	
	1110	U		0.32	0.06	0.02		12	12	12	0.30	0.06	0.02	
	1111	U		0.33	0.06	0.02		12	12	12	0.30	0.06	0.02	
	1113	U		0.33	0.06	0.02		12	12	12	0.30	0.06	0.02	
	1115	U		0.33	0.06	0.02		12	12	12	0.30	0.06	0.02	
2007	1101	L		0.38	1.26	6.28		12	12	12	0.30	1.59	6.28	

ΤΑΦΡΟΣ T1 (3.00x2.80x1.50)m
CRACK CHECK (QUASI-PERMANENT COMBINATION)

LIVE-LOAD DESIGN RESULTS ACCORDING TO EUROCODE 2

ELEM	LC		x	wk	Reinf.(stat.)			diameter [mm]			wk	Reinforcmt req.		
No	No		[m]	[mm]	Asa	Asm	Asi	da	dm	di	[mm]	Asa	Asm	Asi
	1102	U		1.03	0.17	0.84		12	12	12	0.30	0.57	2.79	
	1103	L		0.39	1.26	6.28		12	12	12	0.30	1.64	6.28	
	1104	U		1.01	0.17	0.84		12	12	12	0.30	0.56	2.79	
	1105	L		0.39	1.26	6.28		12	12	12	0.30	1.64	6.28	
	1106	U		1.01	0.17	0.84		12	12	12	0.30	0.56	2.79	
	1107	L		0.38	1.26	6.28		12	12	12	0.30	1.59	6.28	
	1108	U		1.03	0.17	0.84		12	12	12	0.30	0.57	2.79	
	1109	U		1.01	0.17	0.84		12	12	12	0.30	0.56	2.79	
	1110	L		0.39	1.26	6.28		12	12	12	0.30	1.64	6.28	
	1111	L		0.39	1.26	6.28		12	12	12	0.30	1.64	6.28	
	1112	U		1.01	0.17	0.84		12	12	12	0.30	0.56	2.79	
	1113	U		1.01	0.17	0.84		12	12	12	0.30	0.56	2.79	
	1114	L		0.39	1.26	6.28		12	12	12	0.30	1.64	6.28	
	1115	L		0.39	1.26	6.28		12	12	12	0.30	1.64	6.28	
	1116	U		1.01	0.17	0.84		12	12	12	0.30	0.56	2.79	
2008	1101	L		0.35	0.81	4.05		12	12	12	0.30	0.93	4.05	
	1102	U		0.91	0.08	0.39		12	12	12	0.30	0.24	1.19	
	1103	L		0.35	0.81	4.05		12	12	12	0.30	0.94	4.05	
	1104	U		0.92	0.08	0.39		12	12	12	0.30	0.24	1.20	
	1105	L		0.35	0.81	4.05		12	12	12	0.30	0.94	4.05	
	1106	U		0.92	0.08	0.39		12	12	12	0.30	0.24	1.20	
	1107	L		0.35	0.81	4.05		12	12	12	0.30	0.93	4.05	
	1108	U		0.91	0.08	0.39		12	12	12	0.30	0.24	1.19	
	1109	U		0.92	0.08	0.39		12	12	12	0.30	0.24	1.20	
	1110	L		0.35	0.81	4.05		12	12	12	0.30	0.94	4.05	
	1111	L		0.35	0.81	4.05		12	12	12	0.30	0.94	4.05	
	1112	U		0.92	0.08	0.39		12	12	12	0.30	0.24	1.20	
	1113	L		0.35	0.81	4.05		12	12	12	0.30	0.93	4.05	
	1114	U		0.91	0.08	0.39		12	12	12	0.30	0.24	1.19	
	1115	L		0.35	0.81	4.05		12	12	12	0.30	0.94	4.05	
	1116	U		0.92	0.08	0.39		12	12	12	0.30	0.24	1.20	
2009	1102	U		0.66	0.07	0.13		12	12	12	0.30	0.08	0.30	
	1104	U		0.67	0.07	0.13		12	12	12	0.30	0.07	0.30	
	1106	U		0.67	0.07	0.13		12	12	12	0.30	0.07	0.30	
	1108	U		0.66	0.07	0.13		12	12	12	0.30	0.08	0.30	
	1109	U		0.67	0.07	0.13		12	12	12	0.30	0.07	0.30	
	1112	U		0.67	0.07	0.13		12	12	12	0.30	0.07	0.30	
	1114	U		0.66	0.07	0.13		12	12	12	0.30	0.08	0.30	
	1116	U		0.66	0.07	0.13		12	12	12	0.30	0.08	0.30	
2010	1102	U		0.36	0.11	0.03		12	12	12	0.30	0.13	0.03	
	1103	U		0.36	0.11	0.03		12	12	12	0.30	0.13	0.03	
	1106	U		0.36	0.11	0.03		12	12	12	0.30	0.13	0.03	
	1108	U		0.36	0.11	0.03		12	12	12	0.30	0.13	0.03	
	1109	U		0.36	0.11	0.03		12	12	12	0.30	0.13	0.03	
	1111	U		0.36	0.11	0.03		12	12	12	0.30	0.13	0.03	
	1113	U		0.36	0.11	0.03		12	12	12	0.30	0.13	0.03	
	1115	U		0.36	0.11	0.03		12	12	12	0.30	0.13	0.03	
2011	1102	U		0.36	0.14	0.06		12	12	12	0.30	0.17	0.06	
	1103	U		0.36	0.14	0.06		12	12	12	0.30	0.17	0.06	
	1106	U		0.38	0.14	0.06		12	12	12	0.30	0.17	0.06	
	1107	U		0.36	0.14	0.06		12	12	12	0.30	0.17	0.06	
	1109	U		0.36	0.14	0.06		12	12	12	0.30	0.17	0.06	
	1111	U		0.38	0.14	0.06		12	12	12	0.30	0.17	0.06	
	1113	U		0.38	0.14	0.06		12	12	12	0.30	0.17	0.06	
	1115	U		0.38	0.14	0.06		12	12	12	0.30	0.17	0.06	
2012	1102	U		0.32	0.15	0.03		12	12	12	0.30	0.16	0.03	
	1103	U		0.32	0.15	0.03		12	12	12	0.30	0.16	0.03	
	1106	U		0.34	0.15	0.03		12	12	12	0.30	0.17	0.03	
	1108	U		0.32	0.15	0.03		12	12	12	0.30	0.16	0.03	
	1110	U		0.32	0.15	0.03		12	12	12	0.30	0.16	0.03	
	1111	U		0.34	0.15	0.03		12	12	12	0.30	0.17	0.03	
	1113	U		0.34	0.15	0.03		12	12	12	0.30	0.17	0.03	
	1115	U		0.34	0.15	0.03		12	12	12	0.30	0.17	0.03	
2013	1101	L		0.40	1.26	6.28		12	12	12	0.30	1.69	6.28	
	1102	U		1.09	0.19	0.85		12	12	12	0.30	0.69	2.86	
	1103	L		0.41	1.26	6.28		12	12	12	0.30	1.71	6.28	
	1104	U		1.05	0.19	0.85		12	12	12	0.30	0.66	2.86	
	1107	L		0.41	1.26	6.28		12	12	12	0.30	1.71	6.28	
	1108	U		1.05	0.19	0.85		12	12	12	0.30	0.66	2.86	
	1109	U		1.05	0.19	0.85		12	12	12	0.30	0.66	2.86	
	1110	L		0.41	1.26	6.28		12	12	12	0.30	1.71	6.28	
	1111	U		1.09	0.19	0.85		12	12	12	0.30	0.69	2.86	
	1112	L		0.40	1.26	6.28		12	12	12	0.30	1.69	6.28	
	1113	U		1.09	0.19	0.85		12	12	12	0.30	0.69	2.86	
	1114	L		0.40	1.26	6.28		12	12	12	0.30	1.69	6.28	
	1115	U		1.09	0.19	0.85		12	12	12	0.30	0.69	2.86	
	1116	L		0.40	1.26	6.28		12	12	12	0.30	1.69	6.28	
2014	1101	L		0.38	0.81	3.80		12	12	12	0.30	1.03	3.80	

ΤΑΦΡΟΣ T1 (3.00x2.80x1.50)m
CRACK CHECK (QUASI-PERMANENT COMBINATION)

LIVE-LOAD DESIGN RESULTS ACCORDING TO EUROCODE 2

ELEM No	LC No		x [m]	wk [mm]	Reinf.(stat.) Asa	Asm	Asi	diameter [mm] da	dm	di	wk [mm]	Reinforcmt req. Asa	Asm	Asi
	1102	U		1.05	0.08	0.41		12	12	12	0.30	0.28	1.27	
	1103	L		0.40	0.81	3.80		12	12	12	0.30	1.07	3.80	
	1104	U		0.95	0.08	0.41		12	12	12	0.30	0.26	1.27	
	1105	L		0.40	0.81	3.80		12	12	12	0.30	1.07	3.80	
	1106	U		0.95	0.08	0.41		12	12	12	0.30	0.26	1.27	
	1107	L		0.38	0.81	3.80		12	12	12	0.30	1.03	3.80	
	1108	U		1.05	0.08	0.41		12	12	12	0.30	0.28	1.27	
	1109	U		0.95	0.08	0.41		12	12	12	0.30	0.26	1.27	
	1110	L		0.40	0.81	3.80		12	12	12	0.30	1.07	3.80	
	1111	L		0.40	0.81	3.80		12	12	12	0.30	1.07	3.80	
	1112	U		0.95	0.08	0.41		12	12	12	0.30	0.26	1.27	
	1113	U		0.95	0.08	0.41		12	12	12	0.30	0.26	1.27	
	1114	L		0.40	0.81	3.80		12	12	12	0.30	1.07	3.80	
	1115	L		0.40	0.81	3.80		12	12	12	0.30	1.07	3.80	
	1116	U		0.95	0.08	0.41		12	12	12	0.30	0.26	1.27	
2015	1101	L		0.32	0.51	2.27		12	12	12	0.30	0.54	2.27	
	1102	U		0.72	0.07	0.14		12	12	12	0.30	0.08	0.33	
	1103	L		0.32	0.51	2.27		12	12	12	0.30	0.54	2.27	
	1104	U		0.71	0.07	0.14		12	12	12	0.30	0.07	0.32	
	1105	L		0.32	0.51	2.27		12	12	12	0.30	0.54	2.27	
	1106	U		0.71	0.07	0.14		12	12	12	0.30	0.07	0.32	
	1107	L		0.32	0.51	2.27		12	12	12	0.30	0.54	2.27	
	1108	U		0.72	0.07	0.14		12	12	12	0.30	0.08	0.33	
	1109	U		0.71	0.07	0.14		12	12	12	0.30	0.07	0.32	
	1110	L		0.32	0.51	2.27		12	12	12	0.30	0.54	2.27	
	1111	L		0.32	0.51	2.27		12	12	12	0.30	0.54	2.27	
	1112	U		0.71	0.07	0.14		12	12	12	0.30	0.07	0.32	
	1113	U		0.71	0.07	0.14		12	12	12	0.30	0.07	0.32	
	1114	L		0.32	0.51	2.27		12	12	12	0.30	0.54	2.27	
	1115	L		0.32	0.51	2.27		12	12	12	0.30	0.54	2.27	
	1116	U		0.72	0.07	0.14		12	12	12	0.30	0.08	0.33	
2017	1102	U		0.39	0.15	0.06		12	12	12	0.30	0.19	0.06	
	1103	U		0.39	0.15	0.06		12	12	12	0.30	0.19	0.06	
	1105	U		0.39	0.15	0.06		12	12	12	0.30	0.19	0.06	
	1107	U		0.41	0.15	0.06		12	12	12	0.30	0.20	0.06	
	1110	U		0.39	0.15	0.06		12	12	12	0.30	0.19	0.06	
	1111	U		0.41	0.15	0.06		12	12	12	0.30	0.20	0.06	
	1114	U		0.39	0.15	0.06		12	12	12	0.30	0.19	0.06	
	1115	U		0.41	0.15	0.06		12	12	12	0.30	0.20	0.06	
2018	1102	U		0.34	0.20	0.04		12	12	12	0.30	0.22	0.04	
	1103	U		0.34	0.20	0.04		12	12	12	0.30	0.22	0.04	
	1105	U		0.34	0.20	0.04		12	12	12	0.30	0.22	0.04	
	1107	U		0.37	0.20	0.04		12	12	12	0.30	0.24	0.05	
	1110	U		0.34	0.20	0.04		12	12	12	0.30	0.22	0.04	
	1111	U		0.37	0.20	0.04		12	12	12	0.30	0.24	0.05	
	1113	U		0.37	0.20	0.04		12	12	12	0.30	0.24	0.05	
	1115	U		0.37	0.20	0.04		12	12	12	0.30	0.24	0.05	
2019	1101	L		0.41	1.29	6.44		12	12	12	0.30	1.75	6.44	
	1102	U		1.08	0.20	0.85		12	12	12	0.30	0.73	2.84	
	1103	L		0.42	1.29	6.44		12	12	12	0.30	1.81	6.44	
	1104	U		1.01	0.20	0.85		12	12	12	0.30	0.68	2.84	
	1105	U		1.08	0.20	0.85		12	12	12	0.30	0.73	2.84	
	1106	L		0.41	1.29	6.44		12	12	12	0.30	1.75	6.44	
	1107	L		0.42	1.29	6.44		12	12	12	0.30	1.81	6.44	
	1108	U		1.01	0.20	0.85		12	12	12	0.30	0.68	2.84	
	1109	U		1.01	0.20	0.85		12	12	12	0.30	0.68	2.84	
	1110	L		0.42	1.29	6.44		12	12	12	0.30	1.81	6.44	
	1111	U		1.08	0.20	0.85		12	12	12	0.30	0.73	2.84	
	1112	L		0.41	1.29	6.44		12	12	12	0.30	1.75	6.44	
	1113	U		1.08	0.20	0.85		12	12	12	0.30	0.73	2.84	
	1114	L		0.41	1.29	6.44		12	12	12	0.30	1.75	6.44	
	1115	U		1.08	0.20	0.85		12	12	12	0.30	0.73	2.84	
	1116	L		0.41	1.29	6.44		12	12	12	0.30	1.75	6.44	
2020	1101	L		0.38	0.78	3.75		12	12	12	0.30	0.98	3.75	
	1102	U		1.06	0.10	0.41		12	12	12	0.30	0.34	1.27	
	1103	L		0.40	0.78	3.75		12	12	12	0.30	1.03	3.75	
	1104	U		0.94	0.10	0.41		12	12	12	0.30	0.30	1.27	
	1105	L		0.40	0.78	3.75		12	12	12	0.30	1.03	3.75	
	1106	U		0.94	0.10	0.41		12	12	12	0.30	0.30	1.27	
	1107	L		0.38	0.78	3.75		12	12	12	0.30	0.98	3.75	
	1108	U		1.06	0.10	0.41		12	12	12	0.30	0.34	1.27	
	1109	U		0.94	0.10	0.41		12	12	12	0.30	0.30	1.27	
	1110	L		0.40	0.78	3.75		12	12	12	0.30	1.03	3.75	
	1111	L		0.40	0.78	3.75		12	12	12	0.30	1.03	3.75	
	1112	U		0.94	0.10	0.41		12	12	12	0.30	0.30	1.27	
	1113	U		1.06	0.10	0.41		12	12	12	0.30	0.34	1.27	
	1114	L		0.38	0.78	3.75		12	12	12	0.30	0.98	3.75	
	1115	L		0.40	0.78	3.75		12	12	12	0.30	1.03	3.75	

ΤΑΦΡΟΣ T1 (3.00x2.80x1.50)m
CRACK CHECK (QUASI-PERMANENT COMBINATION)

LIVE-LOAD DESIGN RESULTS ACCORDING TO EUROCODE 2

ELEM No	LC No		x [m]	wk [mm]	Reinf.(stat.) Asa	Asm	Asi	diameter [mm] da	dm	di	wk [mm]	Reinforcmt req. Asa	Asm	Asi
	1116	U		0.94	0.10	0.41		12	12	12	0.30	0.30	1.27	
2021	1101	L		0.31	0.52	2.18		12	12	12	0.30	0.54	2.18	
	1102	U		0.71	0.06	0.14		12	12	12	0.30	0.11	0.33	
	1103	L		0.32	0.52	2.18		12	12	12	0.30	0.56	2.18	
	1104	U		0.69	0.06	0.14		12	12	12	0.30	0.08	0.32	
	1105	L		0.32	0.52	2.18		12	12	12	0.30	0.56	2.18	
	1106	U		0.69	0.06	0.14		12	12	12	0.30	0.08	0.32	
	1107	U		0.71	0.06	0.14		12	12	12	0.30	0.11	0.33	
	1108	L		0.31	0.52	2.18		12	12	12	0.30	0.54	2.18	
	1109	L		0.32	0.52	2.18		12	12	12	0.30	0.56	2.18	
	1110	U		0.69	0.06	0.14		12	12	12	0.30	0.08	0.32	
	1111	L		0.32	0.52	2.18		12	12	12	0.30	0.56	2.18	
	1112	U		0.69	0.06	0.14		12	12	12	0.30	0.08	0.32	
	1113	U		0.71	0.06	0.14		12	12	12	0.30	0.11	0.33	
	1114	L		0.31	0.52	2.18		12	12	12	0.30	0.54	2.18	
	1115	L		0.31	0.52	2.18		12	12	12	0.30	0.54	2.18	
	1116	U		0.71	0.06	0.14		12	12	12	0.30	0.11	0.33	
2023	1102	U		0.43	0.13	0.07		12	12	12	0.30	0.18	0.07	
	1103	U		0.43	0.13	0.07		12	12	12	0.30	0.18	0.07	
	1105	U		0.43	0.13	0.07		12	12	12	0.30	0.18	0.07	
	1107	U		0.45	0.13	0.07		12	12	12	0.30	0.19	0.07	
	1110	U		0.43	0.13	0.07		12	12	12	0.30	0.18	0.07	
	1111	U		0.45	0.13	0.07		12	12	12	0.30	0.19	0.07	
	1114	U		0.45	0.13	0.07		12	12	12	0.30	0.19	0.07	
	1115	U		0.45	0.13	0.07		12	12	12	0.30	0.19	0.07	
2024	1102	U		0.32	0.23	0.05		12	12	12	0.30	0.25	0.05	
	1103	U		0.32	0.23	0.05		12	12	12	0.30	0.25	0.05	
	1105	U		0.32	0.23	0.05		12	12	12	0.30	0.25	0.05	
	1107	U		0.37	0.23	0.05		12	12	12	0.30	0.28	0.06	
	1110	U		0.32	0.23	0.05		12	12	12	0.30	0.25	0.05	
	1111	U		0.37	0.23	0.05		12	12	12	0.30	0.28	0.06	
	1114	U		0.37	0.23	0.05		12	12	12	0.30	0.28	0.06	
	1115	U		0.37	0.23	0.05		12	12	12	0.30	0.28	0.06	
2025	1101	L		0.41	1.30	6.49		12	12	12	0.30	1.77	6.49	
	1102	U		1.07	0.20	0.84		12	12	12	0.30	0.72	2.82	
	1103	L		0.43	1.30	6.49		12	12	12	0.30	1.84	6.49	
	1104	U		1.01	0.20	0.84		12	12	12	0.30	0.65	2.82	
	1105	U		1.07	0.20	0.84		12	12	12	0.30	0.72	2.82	
	1106	L		0.41	1.30	6.49		12	12	12	0.30	1.77	6.49	
	1109	U		1.03	0.20	0.84		12	12	12	0.30	0.69	2.82	
	1110	L		0.42	1.30	6.49		12	12	12	0.30	1.80	6.49	
	1113	U		1.07	0.20	0.84		12	12	12	0.30	0.72	2.82	
	1114	L		0.41	1.30	6.49		12	12	12	0.30	1.77	6.49	
	1115	L		0.43	1.30	6.49		12	12	12	0.30	1.84	6.49	
	1116	U		1.01	0.20	0.84		12	12	12	0.30	0.65	2.82	
2026	1101	L		0.38	0.77	3.82		12	12	12	0.30	0.98	3.82	
	1102	U		1.05	0.11	0.40		12	12	12	0.30	0.37	1.27	
	1103	L		0.40	0.77	3.82		12	12	12	0.30	1.03	3.82	
	1104	U		0.93	0.11	0.40		12	12	12	0.30	0.32	1.25	
	1105	U		1.05	0.11	0.40		12	12	12	0.30	0.37	1.27	
	1106	L		0.38	0.77	3.82		12	12	12	0.30	0.98	3.82	
	1107	L		0.38	0.77	3.82		12	12	12	0.30	0.98	3.82	
	1108	U		1.05	0.11	0.40		12	12	12	0.30	0.37	1.27	
	1109	U		0.93	0.11	0.40		12	12	12	0.30	0.32	1.25	
	1110	L		0.40	0.77	3.82		12	12	12	0.30	1.03	3.82	
	1111	L		0.40	0.77	3.82		12	12	12	0.30	1.03	3.82	
	1112	U		0.93	0.11	0.40		12	12	12	0.30	0.32	1.25	
	1113	U		1.05	0.11	0.40		12	12	12	0.30	0.37	1.27	
	1114	L		0.38	0.77	3.82		12	12	12	0.30	0.98	3.82	
	1115	U		1.05	0.11	0.40		12	12	12	0.30	0.37	1.27	
	1116	L		0.38	0.77	3.82		12	12	12	0.30	0.98	3.82	
2027	1101	L		0.31	0.50	2.17		12	12	12	0.30	0.51	2.17	
	1102	U		0.72	0.06	0.14		12	12	12	0.30	0.14	0.33	
	1103	L		0.33	0.50	2.17		12	12	12	0.30	0.54	2.17	
	1104	U		0.68	0.06	0.14		12	12	12	0.30	0.10	0.32	
	1105	L		0.33	0.50	2.17		12	12	12	0.30	0.54	2.17	
	1106	U		0.68	0.06	0.14		12	12	12	0.30	0.10	0.32	
	1107	L		0.31	0.50	2.17		12	12	12	0.30	0.51	2.17	
	1108	U		0.72	0.06	0.14		12	12	12	0.30	0.14	0.33	
	1109	U		0.68	0.06	0.14		12	12	12	0.30	0.10	0.32	
	1110	L		0.33	0.50	2.17		12	12	12	0.30	0.54	2.17	
	1111	L		0.33	0.50	2.17		12	12	12	0.30	0.54	2.17	
	1112	U		0.68	0.06	0.14		12	12	12	0.30	0.10	0.32	
	1113	U		0.72	0.06	0.14		12	12	12	0.30	0.14	0.33	
	1114	L		0.31	0.50	2.17		12	12	12	0.30	0.51	2.17	
	1115	L		0.31	0.50	2.17		12	12	12	0.30	0.51	2.17	
	1116	U		0.72	0.06	0.14		12	12	12	0.30	0.14	0.33	
2029	1102	U		0.33	0.12	0.08		12	12	12	0.30	0.14	0.08	

ΤΑΦΡΟΣ T1 (3.00x2.80x1.50)m
CRACK CHECK (QUASI-PERMANENT COMBINATION)

LIVE-LOAD DESIGN RESULTS ACCORDING TO EUROCODE 2

ELEM No	LC No		x [m]	wk [mm]	Reinf.(stat.) Asa	Asm	Asi	diameter [mm] da	dm	di	wk [mm]	Reinforcmt req. Asa	Asm	Asi
	1103	U		0.33	0.12	0.08		12	12	12	0.30	0.14	0.08	
	1105	U		0.33	0.12	0.08		12	12	12	0.30	0.14	0.08	
	1108	U		0.37	0.12	0.08		12	12	12	0.30	0.15	0.08	
	1109	U		0.33	0.12	0.08		12	12	12	0.30	0.14	0.08	
	1111	U		0.37	0.12	0.08		12	12	12	0.30	0.15	0.08	
	1114	U		0.37	0.12	0.08		12	12	12	0.30	0.15	0.08	
	1115	U		0.37	0.12	0.08		12	12	12	0.30	0.15	0.08	
2030	1102	U		0.32	0.24	0.06		12	12	12	0.30	0.26	0.06	
	1103	U		0.32	0.24	0.06		12	12	12	0.30	0.26	0.06	
	1105	U		0.32	0.24	0.06		12	12	12	0.30	0.26	0.06	
	1108	U		0.37	0.24	0.06		12	12	12	0.30	0.29	0.06	
	1109	U		0.32	0.24	0.06		12	12	12	0.30	0.26	0.06	
	1111	U		0.37	0.24	0.06		12	12	12	0.30	0.29	0.06	
	1114	U		0.37	0.24	0.06		12	12	12	0.30	0.29	0.06	
	1115	U		0.37	0.24	0.06		12	12	12	0.30	0.29	0.06	
2031	1101	L		0.41	1.30	6.50		12	12	12	0.30	1.77	6.50	
	1102	U		1.06	0.20	0.83		12	12	12	0.30	0.70	2.79	
	1103	L		0.41	1.30	6.50		12	12	12	0.30	1.77	6.50	
	1104	U		1.06	0.20	0.83		12	12	12	0.30	0.70	2.79	
	1105	U		1.06	0.20	0.83		12	12	12	0.30	0.70	2.79	
	1106	L		0.41	1.30	6.50		12	12	12	0.30	1.77	6.50	
	1107	U		1.06	0.20	0.83		12	12	12	0.30	0.70	2.79	
	1108	L		0.41	1.30	6.50		12	12	12	0.30	1.77	6.50	
	1109	U		1.06	0.20	0.83		12	12	12	0.30	0.70	2.79	
	1110	L		0.41	1.30	6.50		12	12	12	0.30	1.77	6.50	
	1111	L		0.43	1.30	6.50		12	12	12	0.30	1.84	6.50	
	1112	U		1.01	0.20	0.83		12	12	12	0.30	0.62	2.79	
	1113	U		1.06	0.20	0.83		12	12	12	0.30	0.70	2.79	
	1114	L		0.41	1.30	6.50		12	12	12	0.30	1.77	6.50	
	1115	L		0.43	1.30	6.50		12	12	12	0.30	1.84	6.50	
	1116	U		1.01	0.20	0.83		12	12	12	0.30	0.62	2.79	
2032	1101	L		0.38	0.79	3.87		12	12	12	0.30	0.99	3.87	
	1102	U		1.04	0.11	0.40		12	12	12	0.30	0.37	1.25	
	1103	L		0.39	0.79	3.87		12	12	12	0.30	1.02	3.87	
	1104	U		0.97	0.11	0.40		12	12	12	0.30	0.34	1.25	
	1105	U		1.04	0.11	0.40		12	12	12	0.30	0.37	1.25	
	1106	L		0.38	0.79	3.87		12	12	12	0.30	0.99	3.87	
	1107	L		0.38	0.79	3.87		12	12	12	0.30	0.99	3.87	
	1108	U		1.04	0.11	0.40		12	12	12	0.30	0.37	1.25	
	1109	U		1.04	0.11	0.40		12	12	12	0.30	0.37	1.25	
	1110	L		0.38	0.79	3.87		12	12	12	0.30	0.99	3.87	
	1111	L		0.40	0.79	3.87		12	12	12	0.30	1.05	3.87	
	1112	U		0.93	0.11	0.40		12	12	12	0.30	0.31	1.25	
	1113	U		1.04	0.11	0.40		12	12	12	0.30	0.37	1.25	
	1114	L		0.38	0.79	3.87		12	12	12	0.30	0.99	3.87	
	1115	U		1.04	0.11	0.40		12	12	12	0.30	0.37	1.25	
	1116	L		0.38	0.79	3.87		12	12	12	0.30	0.99	3.87	
2033	1101	L		0.31	0.48	2.18		12	12	12	0.30	0.50	2.18	
	1102	U		0.71	0.06	0.14		12	12	12	0.30	0.15	0.33	
	1103	L		0.33	0.48	2.18		12	12	12	0.30	0.52	2.18	
	1104	U		0.68	0.06	0.14		12	12	12	0.30	0.11	0.31	
	1105	U		0.71	0.06	0.14		12	12	12	0.30	0.15	0.33	
	1106	L		0.31	0.48	2.18		12	12	12	0.30	0.50	2.18	
	1107	L		0.31	0.48	2.18		12	12	12	0.30	0.50	2.18	
	1108	U		0.71	0.06	0.14		12	12	12	0.30	0.15	0.33	
	1109	U		0.71	0.06	0.14		12	12	12	0.30	0.15	0.33	
	1110	L		0.31	0.48	2.18		12	12	12	0.30	0.50	2.18	
	1111	L		0.33	0.48	2.18		12	12	12	0.30	0.52	2.18	
	1112	U		0.68	0.06	0.14		12	12	12	0.30	0.11	0.31	
	1113	U		0.71	0.06	0.14		12	12	12	0.30	0.15	0.33	
	1114	L		0.31	0.48	2.18		12	12	12	0.30	0.50	2.18	
2036	1107	U		0.35	0.22	0.07		12	12	12	0.30	0.26	0.07	
	1111	U		0.35	0.22	0.07		12	12	12	0.30	0.26	0.07	
	1114	U		0.35	0.22	0.07		12	12	12	0.30	0.26	0.07	
	1115	U		0.35	0.22	0.07		12	12	12	0.30	0.26	0.07	
2037	1101	L		0.41	1.30	6.49		12	12	12	0.30	1.75	6.49	
	1102	U		1.05	0.20	0.82		12	12	12	0.30	0.68	2.77	
	1103	L		0.41	1.30	6.49		12	12	12	0.30	1.75	6.49	
	1104	U		1.05	0.20	0.82		12	12	12	0.30	0.68	2.77	
	1105	U		1.05	0.20	0.82		12	12	12	0.30	0.68	2.77	
	1106	L		0.41	1.30	6.49		12	12	12	0.30	1.75	6.49	
	1107	U		1.05	0.20	0.82		12	12	12	0.30	0.68	2.77	
	1108	L		0.41	1.30	6.49		12	12	12	0.30	1.75	6.49	
	1109	U		1.05	0.20	0.82		12	12	12	0.30	0.68	2.77	
	1110	L		0.41	1.30	6.49		12	12	12	0.30	1.75	6.49	
	1111	L		0.43	1.30	6.49		12	12	12	0.30	1.86	6.49	
	1112	U		1.00	0.20	0.82		12	12	12	0.30	0.58	2.76	
	1113	U		1.05	0.20	0.82		12	12	12	0.30	0.68	2.77	

ΤΑΦΡΟΣ T1 (3.00x2.80x1.50)m
CRACK CHECK (QUASI-PERMANENT COMBINATION)

LIVE-LOAD DESIGN RESULTS ACCORDING TO EUROCODE 2

ELEM No	LC No		x [m]	wk [mm]	Reinf.(stat.) Asa	Asm	Asi	diameter [mm] da	dm	di	wk [mm]	Reinforcmt req. Asa	Asm	Asi
	1114	L		0.41	1.30	6.49		12	12	12	0.30	1.75	6.49	
	1115	L		0.43	1.30	6.49		12	12	12	0.30	1.86	6.49	
	1116	U		1.00	0.20	0.82		12	12	12	0.30	0.58	2.76	
2038	1101	L		0.37	0.79	3.89		12	12	12	0.30	0.98	3.89	
	1102	U		1.03	0.11	0.40		12	12	12	0.30	0.36	1.24	
	1103	L		0.37	0.79	3.89		12	12	12	0.30	0.98	3.89	
	1104	U		1.03	0.11	0.40		12	12	12	0.30	0.36	1.24	
	1105	U		1.03	0.11	0.40		12	12	12	0.30	0.36	1.24	
	1106	L		0.37	0.79	3.89		12	12	12	0.30	0.98	3.89	
	1107	U		0.92	0.11	0.40		12	12	12	0.30	0.29	1.21	
	1108	L		0.40	0.79	3.89		12	12	12	0.30	1.05	3.89	
	1109	U		1.03	0.11	0.40		12	12	12	0.30	0.36	1.24	
	1110	L		0.37	0.79	3.89		12	12	12	0.30	0.98	3.89	
	1111	L		0.40	0.79	3.89		12	12	12	0.30	1.05	3.89	
	1112	U		0.92	0.11	0.40		12	12	12	0.30	0.29	1.21	
	1113	U		1.03	0.11	0.40		12	12	12	0.30	0.36	1.24	
	1114	L		0.37	0.79	3.89		12	12	12	0.30	0.98	3.89	
	1115	L		0.40	0.79	3.89		12	12	12	0.30	1.05	3.89	
	1116	U		0.92	0.11	0.40		12	12	12	0.30	0.29	1.21	
2039	1101	L		0.31	0.48	2.20		12	12	12	0.30	0.49	2.20	
	1102	U		0.70	0.07	0.14		12	12	12	0.30	0.15	0.32	
	1103	L		0.31	0.48	2.20		12	12	12	0.30	0.49	2.20	
	1104	U		0.70	0.07	0.14		12	12	12	0.30	0.15	0.32	
	1105	U		0.70	0.07	0.14		12	12	12	0.30	0.15	0.32	
	1106	L		0.31	0.48	2.20		12	12	12	0.30	0.49	2.20	
	1107	L		0.31	0.48	2.20		12	12	12	0.30	0.49	2.20	
	1108	U		0.70	0.07	0.14		12	12	12	0.30	0.15	0.32	
	1109	U		0.70	0.07	0.14		12	12	12	0.30	0.15	0.32	
	1110	L		0.31	0.48	2.20		12	12	12	0.30	0.49	2.20	
	1111	L		0.34	0.48	2.20		12	12	12	0.30	0.54	2.20	
	1112	U		0.67	0.07	0.14		12	12	12	0.30	0.10	0.31	
	1113	U		0.70	0.07	0.14		12	12	12	0.30	0.15	0.32	
	1114	L		0.31	0.48	2.20		12	12	12	0.30	0.49	2.20	
	1115	U		0.67	0.07	0.14		12	12	12	0.30	0.10	0.31	
	1116	L		0.34	0.48	2.20		12	12	12	0.30	0.54	2.20	
2042	1103	U		0.33	0.21	0.08		12	12	12	0.30	0.22	0.08	
	1106	U		0.33	0.21	0.08		12	12	12	0.30	0.22	0.08	
	1107	U		0.33	0.21	0.08		12	12	12	0.30	0.22	0.08	
	1110	U		0.33	0.21	0.08		12	12	12	0.30	0.22	0.08	
	1111	U		0.33	0.21	0.08		12	12	12	0.30	0.22	0.08	
	1114	U		0.33	0.21	0.08		12	12	12	0.30	0.22	0.08	
2043	1101	L		0.41	1.30	6.49		12	12	12	0.30	1.75	6.49	
	1102	U		1.04	0.19	0.82		12	12	12	0.30	0.67	2.72	
	1103	L		0.41	1.30	6.49		12	12	12	0.30	1.75	6.49	
	1104	U		1.04	0.19	0.82		12	12	12	0.30	0.67	2.72	
	1105	U		1.04	0.19	0.82		12	12	12	0.30	0.67	2.72	
	1106	L		0.41	1.30	6.49		12	12	12	0.30	1.75	6.49	
	1107	U		1.04	0.19	0.82		12	12	12	0.30	0.67	2.72	
	1108	L		0.41	1.30	6.49		12	12	12	0.30	1.75	6.49	
	1109	U		1.04	0.19	0.82		12	12	12	0.30	0.67	2.72	
	1110	L		0.41	1.30	6.49		12	12	12	0.30	1.75	6.49	
	1111	L		0.43	1.30	6.49		12	12	12	0.30	1.87	6.49	
	1112	U		1.00	0.19	0.82		12	12	12	0.30	0.56	2.72	
	1113	U		1.04	0.19	0.82		12	12	12	0.30	0.67	2.72	
	1114	L		0.41	1.30	6.49		12	12	12	0.30	1.75	6.49	
	1115	L		0.43	1.30	6.49		12	12	12	0.30	1.87	6.49	
	1116	U		1.00	0.19	0.82		12	12	12	0.30	0.56	2.72	
2044	1101	L		0.37	0.80	3.89		12	12	12	0.30	0.97	3.89	
	1102	U		1.02	0.10	0.40		12	12	12	0.30	0.35	1.22	
	1103	L		0.37	0.80	3.89		12	12	12	0.30	0.97	3.89	
	1104	U		1.02	0.10	0.40		12	12	12	0.30	0.35	1.22	
	1105	U		1.02	0.10	0.40		12	12	12	0.30	0.35	1.22	
	1106	L		0.37	0.80	3.89		12	12	12	0.30	0.97	3.89	
	1107	U		0.92	0.10	0.40		12	12	12	0.30	0.27	1.20	
	1108	L		0.40	0.80	3.89		12	12	12	0.30	1.05	3.89	
	1109	U		1.02	0.10	0.40		12	12	12	0.30	0.35	1.22	
	1110	L		0.37	0.80	3.89		12	12	12	0.30	0.97	3.89	
	1111	L		0.40	0.80	3.89		12	12	12	0.30	1.05	3.89	
	1112	U		0.92	0.10	0.40		12	12	12	0.30	0.27	1.20	
	1113	U		1.02	0.10	0.40		12	12	12	0.30	0.35	1.22	
	1114	L		0.37	0.80	3.89		12	12	12	0.30	0.97	3.89	
	1115	L		0.40	0.80	3.89		12	12	12	0.30	1.05	3.89	
	1116	U		0.92	0.10	0.40		12	12	12	0.30	0.27	1.20	
2045	1101	L		0.31	0.48	2.22		12	12	12	0.30	0.50	2.22	
	1102	U		0.69	0.08	0.14		12	12	12	0.30	0.15	0.31	
	1103	L		0.31	0.48	2.22		12	12	12	0.30	0.50	2.22	
	1104	U		0.69	0.08	0.14		12	12	12	0.30	0.15	0.31	
	1105	U		0.69	0.08	0.14		12	12	12	0.30	0.15	0.31	

ΤΑΦΡΟΣ T1 (3.00x2.80x1.50)m
CRACK CHECK (QUASI-PERMANENT COMBINATION)

LIVE-LOAD DESIGN RESULTS ACCORDING TO EUROCODE 2

ELEM No	LC No		x [m]	wk [mm]	Reinf.(stat.) Asa	Asm	Asi	diameter [mm] da	dm	di	wk [mm]	Reinforcmt req. Asa	Asm	Asi
	1106	L		0.31	0.48	2.22		12	12	12	0.30	0.50	2.22	
	1107	L		0.31	0.48	2.22		12	12	12	0.30	0.50	2.22	
	1108	U		0.69	0.08	0.14		12	12	12	0.30	0.15	0.31	
	1109	U		0.69	0.08	0.14		12	12	12	0.30	0.15	0.31	
	1110	L		0.31	0.48	2.22		12	12	12	0.30	0.50	2.22	
	1111	L		0.34	0.48	2.22		12	12	12	0.30	0.55	2.22	
	1112	U		0.67	0.08	0.14		12	12	12	0.30	0.10	0.30	
	1113	U		0.69	0.08	0.14		12	12	12	0.30	0.15	0.31	
	1114	L		0.31	0.48	2.22		12	12	12	0.30	0.50	2.22	
	1115	U		0.67	0.08	0.14		12	12	12	0.30	0.10	0.30	
	1116	L		0.34	0.48	2.22		12	12	12	0.30	0.55	2.22	
2049	1101	L		0.41	1.30	6.48		12	12	12	0.30	1.74	6.48	
	1102	U		1.03	0.19	0.82		12	12	12	0.30	0.66	2.68	
	1103	L		0.41	1.30	6.48		12	12	12	0.30	1.74	6.48	
	1104	U		1.03	0.19	0.82		12	12	12	0.30	0.66	2.68	
	1105	U		1.03	0.19	0.82		12	12	12	0.30	0.66	2.68	
	1106	L		0.41	1.30	6.48		12	12	12	0.30	1.74	6.48	
	1107	U		1.03	0.19	0.82		12	12	12	0.30	0.66	2.68	
	1108	L		0.41	1.30	6.48		12	12	12	0.30	1.74	6.48	
	1109	U		1.03	0.19	0.82		12	12	12	0.30	0.66	2.68	
	1110	L		0.41	1.30	6.48		12	12	12	0.30	1.74	6.48	
	1111	L		0.43	1.30	6.48		12	12	12	0.30	1.87	6.48	
	1112	U		1.00	0.19	0.82		12	12	12	0.30	0.54	2.68	
	1115	L		0.43	1.30	6.48		12	12	12	0.30	1.87	6.48	
	1116	U		1.00	0.19	0.82		12	12	12	0.30	0.54	2.68	
2050	1101	L		0.37	0.80	3.89		12	12	12	0.30	0.98	3.89	
	1102	U		1.11	0.10	0.33		12	12	12	0.30	0.35	1.20	
	1103	L		0.37	0.80	3.89		12	12	12	0.30	0.98	3.89	
	1104	U		1.11	0.10	0.33		12	12	12	0.30	0.35	1.20	
	1105	U		1.11	0.10	0.33		12	12	12	0.30	0.35	1.20	
	1106	L		0.37	0.80	3.89		12	12	12	0.30	0.98	3.89	
	1107	U		1.10	0.10	0.33		12	12	12	0.30	0.26	1.19	
	1108	L		0.40	0.80	3.89		12	12	12	0.30	1.06	3.89	
	1109	U		1.11	0.10	0.33		12	12	12	0.30	0.35	1.20	
	1110	L		0.37	0.80	3.89		12	12	12	0.30	0.98	3.89	
	1111	L		0.40	0.80	3.89		12	12	12	0.30	1.06	3.89	
	1112	U		1.10	0.10	0.33		12	12	12	0.30	0.26	1.19	
	1113	L		0.40	0.80	3.89		12	12	12	0.30	1.06	3.89	
	1114	U		1.10	0.10	0.33		12	12	12	0.30	0.26	1.19	
	1115	L		0.40	0.80	3.89		12	12	12	0.30	1.06	3.89	
	1116	U		1.10	0.10	0.33		12	12	12	0.30	0.26	1.19	
2051	1101	L		0.31	0.48	2.22		12	12	12	0.30	0.50	2.22	
	1102	U		1.10	0.08	0.08		12	12	12	0.30	0.14	0.30	
	1103	L		0.31	0.48	2.22		12	12	12	0.30	0.50	2.22	
	1104	U		1.10	0.08	0.08		12	12	12	0.30	0.14	0.30	
	1105	U		1.10	0.08	0.08		12	12	12	0.30	0.14	0.30	
	1106	L		0.31	0.48	2.22		12	12	12	0.30	0.50	2.22	
	1109	U		1.10	0.08	0.08		12	12	12	0.30	0.14	0.30	
	1110	L		0.31	0.48	2.22		12	12	12	0.30	0.50	2.22	
	1111	L		0.35	0.48	2.22		12	12	12	0.30	0.56	2.22	
	1112	U		1.07	0.08	0.08		12	12	12	0.30	0.08	0.30	
	1113	L		0.35	0.48	2.22		12	12	12	0.30	0.56	2.22	
	1114	U		1.07	0.08	0.08		12	12	12	0.30	0.08	0.30	
	1115	U		1.07	0.08	0.08		12	12	12	0.30	0.08	0.30	
	1116	L		0.35	0.48	2.22		12	12	12	0.30	0.56	2.22	
2055	1101	L		0.40	1.29	6.47		12	12	12	0.30	1.74	6.47	
	1102	U		1.03	0.19	0.81		12	12	12	0.30	0.65	2.70	
	1103	L		0.40	1.29	6.47		12	12	12	0.30	1.74	6.47	
	1104	U		1.03	0.19	0.81		12	12	12	0.30	0.65	2.70	
	1105	U		1.03	0.19	0.81		12	12	12	0.30	0.65	2.70	
	1106	L		0.40	1.29	6.47		12	12	12	0.30	1.74	6.47	
	1107	U		1.03	0.19	0.81		12	12	12	0.30	0.65	2.70	
	1108	L		0.40	1.29	6.47		12	12	12	0.30	1.74	6.47	
	1109	U		1.03	0.19	0.81		12	12	12	0.30	0.65	2.70	
	1110	L		0.40	1.29	6.47		12	12	12	0.30	1.74	6.47	
	1111	L		0.44	1.29	6.47		12	12	12	0.30	1.87	6.47	
	1112	U		0.99	0.19	0.81		12	12	12	0.30	0.54	2.68	
	1113	L		0.44	1.29	6.47		12	12	12	0.30	1.87	6.47	
	1114	U		0.99	0.19	0.81		12	12	12	0.30	0.54	2.68	
	1115	L		0.44	1.29	6.47		12	12	12	0.30	1.87	6.47	
	1116	U		0.99	0.19	0.81		12	12	12	0.30	0.54	2.68	
2056	1101	L		0.37	0.80	3.88		12	12	12	0.30	0.98	3.88	
	1102	U		1.00	0.10	0.39		12	12	12	0.30	0.34	1.20	
	1103	L		0.37	0.80	3.88		12	12	12	0.30	0.98	3.88	
	1104	U		1.00	0.10	0.39		12	12	12	0.30	0.34	1.20	
	1105	U		1.00	0.10	0.39		12	12	12	0.30	0.34	1.20	
	1106	L		0.37	0.80	3.88		12	12	12	0.30	0.98	3.88	
	1107	U		0.91	0.10	0.39		12	12	12	0.30	0.25	1.19	

ΤΑΦΡΟΣ T1 (3.00x2.80x1.50)m
CRACK CHECK (QUASI-PERMANENT COMBINATION)

LIVE-LOAD DESIGN RESULTS ACCORDING TO EUROCODE 2

ELEM No	LC No		x [m]	wk [mm]	Reinf.(stat.) Asa	Asm	Asi	diameter [mm] da	dm	di	wk [mm]	Reinforcmt req. Asa	Asm	Asi
	1108	L		0.40	0.80	3.88		12	12	12	0.30	1.06	3.88	
	1109	U		1.00	0.10	0.39		12	12	12	0.30	0.34	1.20	
	1110	L		0.37	0.80	3.88		12	12	12	0.30	0.98	3.88	
	1111	L		0.40	0.80	3.88		12	12	12	0.30	1.06	3.88	
	1112	U		0.91	0.10	0.39		12	12	12	0.30	0.25	1.19	
	1113	L		0.40	0.80	3.88		12	12	12	0.30	1.06	3.88	
	1114	U		0.91	0.10	0.39		12	12	12	0.30	0.25	1.19	
	1115	L		0.40	0.80	3.88		12	12	12	0.30	1.06	3.88	
	1116	U		0.91	0.10	0.39		12	12	12	0.30	0.25	1.19	
2057	1101	L		0.31	0.48	2.22		12	12	12	0.30	0.50	2.22	
	1102	U		1.10	0.08	0.08		12	12	12	0.30	0.13	0.30	
	1103	L		0.31	0.48	2.22		12	12	12	0.30	0.50	2.22	
	1104	U		1.10	0.08	0.08		12	12	12	0.30	0.13	0.30	
	1105	U		1.10	0.08	0.08		12	12	12	0.30	0.13	0.30	
	1106	L		0.31	0.48	2.22		12	12	12	0.30	0.50	2.22	
	1107	U		1.07	0.08	0.08		12	12	12	0.30	0.08	0.29	
	1108	L		0.35	0.48	2.22		12	12	12	0.30	0.56	2.22	
	1109	U		1.10	0.08	0.08		12	12	12	0.30	0.13	0.30	
	1110	L		0.31	0.48	2.22		12	12	12	0.30	0.50	2.22	
	1111	L		0.35	0.48	2.22		12	12	12	0.30	0.56	2.22	
	1112	U		1.07	0.08	0.08		12	12	12	0.30	0.08	0.29	
	1113	L		0.35	0.48	2.22		12	12	12	0.30	0.56	2.22	
	1114	U		1.07	0.08	0.08		12	12	12	0.30	0.08	0.29	
	1115	U		1.07	0.08	0.08		12	12	12	0.30	0.08	0.29	
	1116	L		0.35	0.48	2.22		12	12	12	0.30	0.56	2.22	
2061	1101	L		0.40	1.29	6.47		12	12	12	0.30	1.74	6.47	
	1102	U		1.03	0.19	0.81		12	12	12	0.30	0.65	2.70	
	1103	L		0.40	1.29	6.47		12	12	12	0.30	1.74	6.47	
	1104	U		1.03	0.19	0.81		12	12	12	0.30	0.65	2.70	
	1105	U		1.03	0.19	0.81		12	12	12	0.30	0.65	2.70	
	1106	L		0.40	1.29	6.47		12	12	12	0.30	1.74	6.47	
	1107	L		0.40	1.29	6.47		12	12	12	0.30	1.74	6.47	
	1108	U		1.03	0.19	0.81		12	12	12	0.30	0.65	2.70	
	1109	L		0.40	1.29	6.47		12	12	12	0.30	1.74	6.47	
	1110	U		1.03	0.19	0.81		12	12	12	0.30	0.65	2.70	
	1111	L		0.44	1.29	6.47		12	12	12	0.30	1.87	6.47	
	1112	U		0.99	0.19	0.81		12	12	12	0.30	0.53	2.67	
	1113	L		0.44	1.29	6.47		12	12	12	0.30	1.87	6.47	
	1114	U		0.99	0.19	0.81		12	12	12	0.30	0.53	2.67	
	1115	L		0.44	1.29	6.47		12	12	12	0.30	1.87	6.47	
	1116	U		0.99	0.19	0.81		12	12	12	0.30	0.53	2.67	
2062	1101	L		0.36	0.80	3.88		12	12	12	0.30	0.97	3.88	
	1102	U		0.99	0.10	0.39		12	12	12	0.30	0.33	1.19	
	1103	L		0.36	0.80	3.88		12	12	12	0.30	0.97	3.88	
	1104	U		0.99	0.10	0.39		12	12	12	0.30	0.33	1.19	
	1105	U		0.99	0.10	0.39		12	12	12	0.30	0.33	1.19	
	1106	L		0.36	0.80	3.88		12	12	12	0.30	0.97	3.88	
	1107	L		0.40	0.80	3.88		12	12	12	0.30	1.06	3.88	
	1108	U		0.91	0.10	0.39		12	12	12	0.30	0.24	1.18	
	1109	L		0.36	0.80	3.88		12	12	12	0.30	0.97	3.88	
	1110	U		0.99	0.10	0.39		12	12	12	0.30	0.33	1.19	
	1111	L		0.40	0.80	3.88		12	12	12	0.30	1.06	3.88	
	1112	U		0.91	0.10	0.39		12	12	12	0.30	0.24	1.18	
	1113	L		0.40	0.80	3.88		12	12	12	0.30	1.06	3.88	
	1114	U		0.91	0.10	0.39		12	12	12	0.30	0.24	1.18	
	1115	L		0.40	0.80	3.88		12	12	12	0.30	1.06	3.88	
	1116	U		0.91	0.10	0.39		12	12	12	0.30	0.24	1.18	
2063	1101	L		0.31	0.48	2.22		12	12	12	0.30	0.50	2.22	
	1102	U		0.67	0.08	0.13		12	12	12	0.30	0.13	0.30	
	1103	L		0.31	0.48	2.22		12	12	12	0.30	0.50	2.22	
	1104	U		0.67	0.08	0.13		12	12	12	0.30	0.13	0.30	
	1105	U		0.67	0.08	0.13		12	12	12	0.30	0.13	0.30	
	1106	L		0.31	0.48	2.22		12	12	12	0.30	0.50	2.22	
	1107	L		0.35	0.48	2.22		12	12	12	0.30	0.56	2.22	
	1108	U		0.66	0.08	0.13		12	12	12	0.30	0.08	0.29	
	1109	L		0.31	0.48	2.22		12	12	12	0.30	0.50	2.22	
	1110	U		0.67	0.08	0.13		12	12	12	0.30	0.13	0.30	
	1111	L		0.35	0.48	2.22		12	12	12	0.30	0.56	2.22	
	1112	U		0.66	0.08	0.13		12	12	12	0.30	0.08	0.29	
	1113	L		0.35	0.48	2.22		12	12	12	0.30	0.56	2.22	
	1114	U		0.66	0.08	0.13		12	12	12	0.30	0.08	0.29	
	1115	U		0.66	0.08	0.13		12	12	12	0.30	0.08	0.29	
	1116	L		0.35	0.48	2.22		12	12	12	0.30	0.56	2.22	
2067	1101	L		0.40	1.29	6.46		12	12	12	0.30	1.72	6.46	
	1102	U		1.02	0.19	0.81		12	12	12	0.30	0.64	2.67	
	1103	L		0.40	1.29	6.46		12	12	12	0.30	1.72	6.46	
	1104	U		1.02	0.19	0.81		12	12	12	0.30	0.64	2.67	
	1105	U		1.02	0.19	0.81		12	12	12	0.30	0.64	2.67	

ΤΑΦΡΟΣ T1 (3.00x2.80x1.50)m
CRACK CHECK (QUASI-PERMANENT COMBINATION)

LIVE-LOAD DESIGN RESULTS ACCORDING TO EUROCODE 2

ELEM No	LC No		x [m]	wk [mm]	Reinf.(stat.) Asa	Asm	Asi	diameter [mm] da	dm	di	wk [mm]	Reinforcmt req. Asa	Asm	Asi
	1106	L		0.40	1.29	6.46		12	12	12	0.30	1.72	6.46	
	1107	U		1.02	0.19	0.81		12	12	12	0.30	0.64	2.67	
	1108	L		0.40	1.29	6.46		12	12	12	0.30	1.72	6.46	
	1109	U		1.02	0.19	0.81		12	12	12	0.30	0.64	2.67	
	1110	L		0.40	1.29	6.46		12	12	12	0.30	1.72	6.46	
	1111	L		0.44	1.29	6.46		12	12	12	0.30	1.86	6.46	
	1112	U		0.99	0.19	0.81		12	12	12	0.30	0.53	2.67	
	1113	L		0.44	1.29	6.46		12	12	12	0.30	1.86	6.46	
	1114	U		0.99	0.19	0.81		12	12	12	0.30	0.53	2.67	
	1115	L		0.44	1.29	6.46		12	12	12	0.30	1.86	6.46	
	1116	U		0.99	0.19	0.81		12	12	12	0.30	0.53	2.67	
2068	1101	L		0.36	0.80	3.87		12	12	12	0.30	0.97	3.87	
	1102	U		0.99	0.10	0.39		12	12	12	0.30	0.33	1.19	
	1103	L		0.36	0.80	3.87		12	12	12	0.30	0.97	3.87	
	1104	U		0.99	0.10	0.39		12	12	12	0.30	0.33	1.19	
	1105	U		0.99	0.10	0.39		12	12	12	0.30	0.33	1.19	
	1106	L		0.36	0.80	3.87		12	12	12	0.30	0.97	3.87	
	1107	U		0.91	0.10	0.39		12	12	12	0.30	0.24	1.18	
	1108	L		0.40	0.80	3.87		12	12	12	0.30	1.07	3.87	
	1109	U		0.99	0.10	0.39		12	12	12	0.30	0.33	1.19	
	1110	L		0.36	0.80	3.87		12	12	12	0.30	0.97	3.87	
	1111	L		0.40	0.80	3.87		12	12	12	0.30	1.07	3.87	
	1112	U		0.91	0.10	0.39		12	12	12	0.30	0.24	1.18	
	1113	L		0.40	0.80	3.87		12	12	12	0.30	1.07	3.87	
	1114	U		0.91	0.10	0.39		12	12	12	0.30	0.24	1.18	
	1115	L		0.40	0.80	3.87		12	12	12	0.30	1.07	3.87	
	1116	U		0.91	0.10	0.39		12	12	12	0.30	0.24	1.18	
2069	1101	L		0.31	0.48	2.22		12	12	12	0.30	0.50	2.22	
	1102	U		0.67	0.08	0.13		12	12	12	0.30	0.12	0.29	
	1103	L		0.31	0.48	2.22		12	12	12	0.30	0.50	2.22	
	1104	U		0.67	0.08	0.13		12	12	12	0.30	0.12	0.29	
	1105	U		0.67	0.08	0.13		12	12	12	0.30	0.12	0.29	
	1106	L		0.31	0.48	2.22		12	12	12	0.30	0.50	2.22	
	1107	U		0.65	0.08	0.13		12	12	12	0.30	0.08	0.29	
	1108	L		0.35	0.48	2.22		12	12	12	0.30	0.55	2.22	
	1109	U		0.67	0.08	0.13		12	12	12	0.30	0.12	0.29	
	1110	L		0.31	0.48	2.22		12	12	12	0.30	0.50	2.22	
	1111	L		0.35	0.48	2.22		12	12	12	0.30	0.55	2.22	
	1112	U		0.65	0.08	0.13		12	12	12	0.30	0.08	0.29	
	1113	L		0.35	0.48	2.22		12	12	12	0.30	0.55	2.22	
	1114	U		0.65	0.08	0.13		12	12	12	0.30	0.08	0.29	
	1115	U		0.65	0.08	0.13		12	12	12	0.30	0.08	0.29	
	1116	L		0.35	0.48	2.22		12	12	12	0.30	0.55	2.22	
2073	1101	L		0.40	1.29	6.46		12	12	12	0.30	1.72	6.46	
	1102	U		1.02	0.19	0.81		12	12	12	0.30	0.64	2.67	
	1103	L		0.40	1.29	6.46		12	12	12	0.30	1.72	6.46	
	1104	U		1.02	0.19	0.81		12	12	12	0.30	0.64	2.67	
	1105	U		0.99	0.19	0.81		12	12	12	0.30	0.53	2.67	
	1106	L		0.42	1.29	6.46		12	12	12	0.30	1.81	6.46	
	1107	L		0.40	1.29	6.46		12	12	12	0.30	1.72	6.46	
	1108	U		1.02	0.19	0.81		12	12	12	0.30	0.64	2.67	
	1109	U		1.02	0.19	0.81		12	12	12	0.30	0.64	2.67	
	1110	L		0.40	1.29	6.46		12	12	12	0.30	1.72	6.46	
	1111	L		0.44	1.29	6.46		12	12	12	0.30	1.86	6.46	
	1112	U		0.99	0.19	0.81		12	12	12	0.30	0.53	2.67	
	1113	L		0.44	1.29	6.46		12	12	12	0.30	1.86	6.46	
	1114	U		0.99	0.19	0.81		12	12	12	0.30	0.53	2.67	
	1115	U		0.99	0.19	0.81		12	12	12	0.30	0.53	2.67	
	1116	L		0.42	1.29	6.46		12	12	12	0.30	1.81	6.46	
2074	1101	L		0.36	0.80	3.87		12	12	12	0.30	0.96	3.87	
	1102	U		0.99	0.10	0.39		12	12	12	0.30	0.32	1.19	
	1103	L		0.36	0.80	3.87		12	12	12	0.30	0.96	3.87	
	1104	U		0.99	0.10	0.39		12	12	12	0.30	0.32	1.19	
	1107	U		0.91	0.10	0.39		12	12	12	0.30	0.28	1.18	
	1108	L		0.36	0.80	3.87		12	12	12	0.30	0.96	3.87	
	1109	U		0.99	0.10	0.39		12	12	12	0.30	0.32	1.19	
	1110	L		0.36	0.80	3.87		12	12	12	0.30	0.96	3.87	
	1111	L		0.40	0.80	3.87		12	12	12	0.30	1.07	3.87	
	1112	U		0.91	0.10	0.39		12	12	12	0.30	0.23	1.17	
	1113	L		0.40	0.80	3.87		12	12	12	0.30	1.07	3.87	
	1114	U		0.91	0.10	0.39		12	12	12	0.30	0.23	1.17	
	1115	L		0.36	0.80	3.87		12	12	12	0.30	0.96	3.87	
	1116	U		0.91	0.10	0.39		12	12	12	0.30	0.28	1.18	
2075	1101	L		0.31	0.48	2.22		12	12	12	0.30	0.50	2.22	
	1102	U		0.66	0.07	0.13		12	12	12	0.30	0.12	0.29	
	1103	L		0.31	0.48	2.22		12	12	12	0.30	0.50	2.22	
	1104	U		0.66	0.07	0.13		12	12	12	0.30	0.12	0.29	
	1105	L		0.31	0.48	2.22		12	12	12	0.30	0.50	2.22	

ΤΑΦΡΟΣ T1 (3.00x2.80x1.50)m
CRACK CHECK (QUASI-PERMANENT COMBINATION)

LIVE-LOAD DESIGN RESULTS ACCORDING TO EUROCODE 2

ELEM No	LC No		x [m]	wk [mm]	Reinf.(stat.) Asa	Asm	Asi	diameter [mm] da	dm	di	wk [mm]	Reinforcmt req. Asa	Asm	Asi
	1106	U		0.66	0.07	0.13		12	12	12	0.30	0.10	0.29	
	1107	U		0.66	0.07	0.13		12	12	12	0.30	0.12	0.29	
	1108	L		0.31	0.48	2.22		12	12	12	0.30	0.50	2.22	
	1109	U		0.66	0.07	0.13		12	12	12	0.30	0.12	0.29	
	1110	L		0.31	0.48	2.22		12	12	12	0.30	0.50	2.22	
	1111	L		0.35	0.48	2.22		12	12	12	0.30	0.55	2.22	
	1112	U		0.65	0.07	0.13		12	12	12	0.30	0.07	0.29	
	1113	L		0.35	0.48	2.22		12	12	12	0.30	0.55	2.22	
	1114	U		0.65	0.07	0.13		12	12	12	0.30	0.07	0.29	
	1115	U		0.65	0.07	0.13		12	12	12	0.30	0.07	0.29	
	1116	L		0.33	0.48	2.22		12	12	12	0.30	0.53	2.22	
2079	1101	L		0.40	1.29	6.46		12	12	12	0.30	1.72	6.46	
	1102	U		1.02	0.19	0.81		12	12	12	0.30	0.64	2.67	
	1103	L		0.40	1.29	6.46		12	12	12	0.30	1.72	6.46	
	1104	U		1.02	0.19	0.81		12	12	12	0.30	0.64	2.67	
	1105	L		0.40	1.29	6.46		12	12	12	0.30	1.72	6.46	
	1106	U		1.02	0.19	0.81		12	12	12	0.30	0.64	2.67	
	1107	L		0.40	1.29	6.46		12	12	12	0.30	1.72	6.46	
	1108	U		1.02	0.19	0.81		12	12	12	0.30	0.64	2.67	
	1109	U		1.02	0.19	0.81		12	12	12	0.30	0.64	2.67	
	1110	L		0.40	1.29	6.46		12	12	12	0.30	1.72	6.46	
	1111	L		0.44	1.29	6.46		12	12	12	0.30	1.86	6.46	
	1112	U		0.99	0.19	0.81		12	12	12	0.30	0.53	2.67	
	1113	L		0.44	1.29	6.46		12	12	12	0.30	1.86	6.46	
	1114	U		0.99	0.19	0.81		12	12	12	0.30	0.53	2.67	
	1115	U		0.99	0.19	0.81		12	12	12	0.30	0.53	2.67	
	1116	L		0.44	1.29	6.46		12	12	12	0.30	1.86	6.46	
2080	1101	L		0.36	0.80	3.87		12	12	12	0.30	0.97	3.87	
	1102	U		0.99	0.10	0.39		12	12	12	0.30	0.33	1.19	
	1103	L		0.36	0.80	3.87		12	12	12	0.30	0.97	3.87	
	1104	U		0.99	0.10	0.39		12	12	12	0.30	0.33	1.19	
	1105	L		0.36	0.80	3.87		12	12	12	0.30	0.97	3.87	
	1106	U		0.99	0.10	0.39		12	12	12	0.30	0.33	1.19	
	1107	L		0.40	0.80	3.87		12	12	12	0.30	1.07	3.87	
	1108	U		0.91	0.10	0.39		12	12	12	0.30	0.24	1.18	
	1109	U		0.99	0.10	0.39		12	12	12	0.30	0.33	1.19	
	1110	L		0.36	0.80	3.87		12	12	12	0.30	0.97	3.87	
	1111	L		0.40	0.80	3.87		12	12	12	0.30	1.07	3.87	
	1112	U		0.91	0.10	0.39		12	12	12	0.30	0.24	1.18	
	1113	L		0.40	0.80	3.87		12	12	12	0.30	1.07	3.87	
	1114	U		0.91	0.10	0.39		12	12	12	0.30	0.24	1.18	
	1115	U		0.91	0.10	0.39		12	12	12	0.30	0.24	1.18	
	1116	L		0.40	0.80	3.87		12	12	12	0.30	1.07	3.87	
2081	1101	L		0.31	0.48	2.22		12	12	12	0.30	0.50	2.22	
	1102	U		0.67	0.08	0.13		12	12	12	0.30	0.12	0.29	
	1103	L		0.31	0.48	2.22		12	12	12	0.30	0.50	2.22	
	1104	U		0.67	0.08	0.13		12	12	12	0.30	0.12	0.29	
	1105	L		0.31	0.48	2.22		12	12	12	0.30	0.50	2.22	
	1106	U		0.67	0.08	0.13		12	12	12	0.30	0.12	0.29	
	1107	L		0.35	0.48	2.22		12	12	12	0.30	0.55	2.22	
	1108	U		0.65	0.08	0.13		12	12	12	0.30	0.08	0.29	
	1109	U		0.67	0.08	0.13		12	12	12	0.30	0.12	0.29	
	1110	L		0.31	0.48	2.22		12	12	12	0.30	0.50	2.22	
	1111	L		0.35	0.48	2.22		12	12	12	0.30	0.55	2.22	
	1112	U		0.65	0.08	0.13		12	12	12	0.30	0.08	0.29	
	1113	L		0.35	0.48	2.22		12	12	12	0.30	0.55	2.22	
	1114	U		0.65	0.08	0.13		12	12	12	0.30	0.08	0.29	
	1115	L		0.35	0.48	2.22		12	12	12	0.30	0.55	2.22	
	1116	U		0.65	0.08	0.13		12	12	12	0.30	0.08	0.29	
2085	1101	L		0.40	1.29	6.47		12	12	12	0.30	1.74	6.47	
	1102	U		1.03	0.19	0.81		12	12	12	0.30	0.65	2.70	
	1103	L		0.40	1.29	6.47		12	12	12	0.30	1.74	6.47	
	1104	U		1.03	0.19	0.81		12	12	12	0.30	0.65	2.70	
	1105	L		0.40	1.29	6.47		12	12	12	0.30	1.74	6.47	
	1106	U		1.03	0.19	0.81		12	12	12	0.30	0.65	2.70	
	1107	L		0.40	1.29	6.47		12	12	12	0.30	1.74	6.47	
	1108	U		1.03	0.19	0.81		12	12	12	0.30	0.65	2.70	
	1109	U		1.03	0.19	0.81		12	12	12	0.30	0.65	2.70	
	1110	L		0.40	1.29	6.47		12	12	12	0.30	1.74	6.47	
	1111	L		0.44	1.29	6.47		12	12	12	0.30	1.87	6.47	
	1112	U		0.99	0.19	0.81		12	12	12	0.30	0.53	2.67	
	1113	L		0.44	1.29	6.47		12	12	12	0.30	1.87	6.47	
	1114	U		0.99	0.19	0.81		12	12	12	0.30	0.53	2.67	
	1115	U		0.99	0.19	0.81		12	12	12	0.30	0.53	2.67	
	1116	L		0.44	1.29	6.47		12	12	12	0.30	1.87	6.47	
2086	1101	L		0.36	0.80	3.87		12	12	12	0.30	0.97	3.87	
	1102	U		0.99	0.10	0.39		12	12	12	0.30	0.33	1.19	
	1103	L		0.36	0.80	3.87		12	12	12	0.30	0.97	3.87	

ΤΑΦΡΟΣ T1 (3.00x2.80x1.50)m
CRACK CHECK (QUASI-PERMANENT COMBINATION)

LIVE-LOAD DESIGN RESULTS ACCORDING TO EUROCODE 2

ELEM No	LC No		x [m]	wk [mm]	Reinf.(stat.) Asa	Asm	Asi	diameter [mm] da	dm	di	wk [mm]	Reinforcmt req. Asa	Asm	Asi
	1104	U		0.99	0.10	0.39		12	12	12	0.30	0.33	1.19	
	1105	L		0.36	0.80	3.87		12	12	12	0.30	0.97	3.87	
	1106	U		0.99	0.10	0.39		12	12	12	0.30	0.33	1.19	
	1107	L		0.40	0.80	3.87		12	12	12	0.30	1.06	3.87	
	1108	U		0.91	0.10	0.39		12	12	12	0.30	0.24	1.18	
	1109	U		0.99	0.10	0.39		12	12	12	0.30	0.33	1.19	
	1110	L		0.36	0.80	3.87		12	12	12	0.30	0.97	3.87	
	1111	L		0.40	0.80	3.87		12	12	12	0.30	1.06	3.87	
	1112	U		0.91	0.10	0.39		12	12	12	0.30	0.24	1.18	
	1113	L		0.40	0.80	3.87		12	12	12	0.30	1.06	3.87	
	1114	U		0.91	0.10	0.39		12	12	12	0.30	0.24	1.18	
	1115	U		0.91	0.10	0.39		12	12	12	0.30	0.24	1.18	
	1116	L		0.40	0.80	3.87		12	12	12	0.30	1.06	3.87	
2087	1101	L		0.31	0.48	2.22		12	12	12	0.30	0.50	2.22	
	1102	U		0.67	0.08	0.13		12	12	12	0.30	0.13	0.30	
	1103	L		0.31	0.48	2.22		12	12	12	0.30	0.50	2.22	
	1104	U		0.67	0.08	0.13		12	12	12	0.30	0.13	0.30	
	1105	L		0.31	0.48	2.22		12	12	12	0.30	0.50	2.22	
	1106	U		0.67	0.08	0.13		12	12	12	0.30	0.13	0.30	
	1107	L		0.35	0.48	2.22		12	12	12	0.30	0.56	2.22	
	1108	U		0.66	0.08	0.13		12	12	12	0.30	0.08	0.29	
	1109	U		0.67	0.08	0.13		12	12	12	0.30	0.13	0.30	
	1110	L		0.31	0.48	2.22		12	12	12	0.30	0.50	2.22	
	1111	L		0.35	0.48	2.22		12	12	12	0.30	0.56	2.22	
	1112	U		0.66	0.08	0.13		12	12	12	0.30	0.08	0.29	
	1113	L		0.35	0.48	2.22		12	12	12	0.30	0.56	2.22	
	1114	U		0.66	0.08	0.13		12	12	12	0.30	0.08	0.29	
	1115	L		0.35	0.48	2.22		12	12	12	0.30	0.56	2.22	
	1116	U		0.66	0.08	0.13		12	12	12	0.30	0.08	0.29	
2091	1101	L		0.40	1.29	6.47		12	12	12	0.30	1.74	6.47	
	1102	U		1.03	0.19	0.81		12	12	12	0.30	0.65	2.70	
	1103	L		0.40	1.29	6.47		12	12	12	0.30	1.74	6.47	
	1104	U		1.03	0.19	0.81		12	12	12	0.30	0.65	2.70	
	1105	L		0.40	1.29	6.47		12	12	12	0.30	1.74	6.47	
	1106	U		1.03	0.19	0.81		12	12	12	0.30	0.65	2.70	
	1107	L		0.40	1.29	6.47		12	12	12	0.30	1.74	6.47	
	1108	U		1.03	0.19	0.81		12	12	12	0.30	0.65	2.70	
	1109	U		1.03	0.19	0.81		12	12	12	0.30	0.65	2.70	
	1110	L		0.40	1.29	6.47		12	12	12	0.30	1.74	6.47	
	1111	L		0.44	1.29	6.47		12	12	12	0.30	1.87	6.47	
	1112	U		0.99	0.19	0.81		12	12	12	0.30	0.54	2.68	
	1113	L		0.44	1.29	6.47		12	12	12	0.30	1.87	6.47	
	1114	U		0.99	0.19	0.81		12	12	12	0.30	0.54	2.68	
	1115	U		0.99	0.19	0.81		12	12	12	0.30	0.54	2.68	
	1116	L		0.44	1.29	6.47		12	12	12	0.30	1.87	6.47	
2092	1101	L		0.37	0.80	3.87		12	12	12	0.30	0.98	3.87	
	1102	U		1.00	0.10	0.39		12	12	12	0.30	0.34	1.20	
	1103	L		0.37	0.80	3.87		12	12	12	0.30	0.98	3.87	
	1104	U		1.00	0.10	0.39		12	12	12	0.30	0.34	1.20	
	1105	L		0.37	0.80	3.87		12	12	12	0.30	0.98	3.87	
	1106	U		1.00	0.10	0.39		12	12	12	0.30	0.34	1.20	
	1107	L		0.40	0.80	3.87		12	12	12	0.30	1.06	3.87	
	1108	U		0.91	0.10	0.39		12	12	12	0.30	0.25	1.19	
	1109	U		1.00	0.10	0.39		12	12	12	0.30	0.34	1.20	
	1110	L		0.37	0.80	3.87		12	12	12	0.30	0.98	3.87	
	1111	L		0.40	0.80	3.87		12	12	12	0.30	1.06	3.87	
	1112	U		0.91	0.10	0.39		12	12	12	0.30	0.25	1.19	
	1113	L		0.40	0.80	3.87		12	12	12	0.30	1.06	3.87	
	1114	U		0.91	0.10	0.39		12	12	12	0.30	0.25	1.19	
	1115	U		0.91	0.10	0.39		12	12	12	0.30	0.25	1.19	
	1116	L		0.40	0.80	3.87		12	12	12	0.30	1.06	3.87	
2093	1101	L		0.31	0.48	2.22		12	12	12	0.30	0.50	2.22	
	1102	U		1.10	0.08	0.08		12	12	12	0.30	0.13	0.30	
	1103	L		0.31	0.48	2.22		12	12	12	0.30	0.50	2.22	
	1104	U		1.10	0.08	0.08		12	12	12	0.30	0.13	0.30	
	1105	L		0.31	0.48	2.22		12	12	12	0.30	0.50	2.22	
	1106	U		1.10	0.08	0.08		12	12	12	0.30	0.13	0.30	
	1107	L		0.35	0.48	2.22		12	12	12	0.30	0.56	2.22	
	1108	U		1.07	0.08	0.08		12	12	12	0.30	0.08	0.29	
	1109	U		1.10	0.08	0.08		12	12	12	0.30	0.13	0.30	
	1110	L		0.31	0.48	2.22		12	12	12	0.30	0.50	2.22	
	1111	L		0.35	0.48	2.22		12	12	12	0.30	0.56	2.22	
	1112	U		1.07	0.08	0.08		12	12	12	0.30	0.08	0.29	
	1113	L		0.35	0.48	2.22		12	12	12	0.30	0.56	2.22	
	1114	U		1.07	0.08	0.08		12	12	12	0.30	0.08	0.29	
	1115	L		0.35	0.48	2.22		12	12	12	0.30	0.56	2.22	
	1116	U		1.07	0.08	0.08		12	12	12	0.30	0.08	0.29	
2097	1101	L		0.41	1.30	6.48		12	12	12	0.30	1.74	6.48	

ΤΑΦΡΟΣ T1 (3.00x2.80x1.50)m
CRACK CHECK (QUASI-PERMANENT COMBINATION)

LIVE-LOAD DESIGN RESULTS ACCORDING TO EUROCODE 2

ELEM No	LC No		x [m]	wk [mm]	Reinf.(stat.) Asa	Asm	Asi	diameter [mm] da	dm	di	wk [mm]	Reinforcmt req. Asa	Asm	Asi
	1102	U		1.03	0.19	0.82		12	12	12	0.30	0.66	2.68	
	1103	L		0.41	1.30	6.48		12	12	12	0.30	1.74	6.48	
	1104	U		1.03	0.19	0.82		12	12	12	0.30	0.66	2.68	
	1105	L		0.41	1.30	6.48		12	12	12	0.30	1.74	6.48	
	1106	U		1.03	0.19	0.82		12	12	12	0.30	0.66	2.68	
	1107	L		0.41	1.30	6.48		12	12	12	0.30	1.74	6.48	
	1108	U		1.03	0.19	0.82		12	12	12	0.30	0.66	2.68	
	1109	U		1.03	0.19	0.82		12	12	12	0.30	0.66	2.68	
	1110	L		0.41	1.30	6.48		12	12	12	0.30	1.74	6.48	
	1111	L		0.43	1.30	6.48		12	12	12	0.30	1.87	6.48	
	1112	U		1.00	0.19	0.82		12	12	12	0.30	0.54	2.68	
	1115	U		1.00	0.19	0.82		12	12	12	0.30	0.54	2.68	
	1116	L		0.43	1.30	6.48		12	12	12	0.30	1.87	6.48	
2098	1101	L		0.37	0.80	3.88		12	12	12	0.30	0.98	3.88	
	1102	U		1.11	0.10	0.33		12	12	12	0.30	0.35	1.20	
	1103	L		0.37	0.80	3.88		12	12	12	0.30	0.98	3.88	
	1104	U		1.11	0.10	0.33		12	12	12	0.30	0.35	1.20	
	1105	L		0.37	0.80	3.88		12	12	12	0.30	0.98	3.88	
	1106	U		1.11	0.10	0.33		12	12	12	0.30	0.35	1.20	
	1107	L		0.40	0.80	3.88		12	12	12	0.30	1.06	3.88	
	1108	U		1.10	0.10	0.33		12	12	12	0.30	0.26	1.19	
	1109	U		1.11	0.10	0.33		12	12	12	0.30	0.35	1.20	
	1110	L		0.37	0.80	3.88		12	12	12	0.30	0.98	3.88	
	1111	L		0.40	0.80	3.88		12	12	12	0.30	1.06	3.88	
	1112	U		1.10	0.10	0.33		12	12	12	0.30	0.26	1.19	
	1113	L		0.40	0.80	3.88		12	12	12	0.30	1.06	3.88	
	1114	U		1.10	0.10	0.33		12	12	12	0.30	0.26	1.19	
	1115	U		1.10	0.10	0.33		12	12	12	0.30	0.26	1.19	
	1116	L		0.40	0.80	3.88		12	12	12	0.30	1.06	3.88	
2099	1101	L		0.31	0.48	2.22		12	12	12	0.30	0.50	2.22	
	1102	U		1.10	0.08	0.08		12	12	12	0.30	0.14	0.30	
	1103	L		0.31	0.48	2.22		12	12	12	0.30	0.50	2.22	
	1104	U		1.10	0.08	0.08		12	12	12	0.30	0.14	0.30	
	1105	L		0.31	0.48	2.22		12	12	12	0.30	0.50	2.22	
	1106	U		1.10	0.08	0.08		12	12	12	0.30	0.14	0.30	
	1109	U		1.10	0.08	0.08		12	12	12	0.30	0.14	0.30	
	1110	L		0.31	0.48	2.22		12	12	12	0.30	0.50	2.22	
	1111	L		0.35	0.48	2.22		12	12	12	0.30	0.56	2.22	
	1112	U		1.07	0.08	0.08		12	12	12	0.30	0.08	0.30	
	1113	L		0.35	0.48	2.22		12	12	12	0.30	0.56	2.22	
	1114	U		1.07	0.08	0.08		12	12	12	0.30	0.08	0.30	
	1115	L		0.35	0.48	2.22		12	12	12	0.30	0.56	2.22	
	1116	U		1.07	0.08	0.08		12	12	12	0.30	0.08	0.30	
2103	1101	L		0.41	1.30	6.49		12	12	12	0.30	1.75	6.49	
	1102	U		1.04	0.19	0.82		12	12	12	0.30	0.67	2.72	
	1103	L		0.41	1.30	6.49		12	12	12	0.30	1.75	6.49	
	1104	U		1.04	0.19	0.82		12	12	12	0.30	0.67	2.72	
	1105	L		0.41	1.30	6.49		12	12	12	0.30	1.75	6.49	
	1106	U		1.04	0.19	0.82		12	12	12	0.30	0.67	2.72	
	1107	L		0.41	1.30	6.49		12	12	12	0.30	1.75	6.49	
	1108	U		1.04	0.19	0.82		12	12	12	0.30	0.67	2.72	
	1109	U		1.04	0.19	0.82		12	12	12	0.30	0.67	2.72	
	1110	L		0.41	1.30	6.49		12	12	12	0.30	1.75	6.49	
	1111	L		0.43	1.30	6.49		12	12	12	0.30	1.87	6.49	
	1112	U		1.00	0.19	0.82		12	12	12	0.30	0.56	2.72	
	1113	U		1.04	0.19	0.82		12	12	12	0.30	0.67	2.72	
	1114	L		0.41	1.30	6.49		12	12	12	0.30	1.75	6.49	
	1115	U		1.00	0.19	0.82		12	12	12	0.30	0.56	2.72	
	1116	L		0.43	1.30	6.49		12	12	12	0.30	1.87	6.49	
2104	1101	L		0.37	0.80	3.89		12	12	12	0.30	0.97	3.89	
	1102	U		1.02	0.10	0.40		12	12	12	0.30	0.35	1.22	
	1103	L		0.37	0.80	3.89		12	12	12	0.30	0.97	3.89	
	1104	U		1.02	0.10	0.40		12	12	12	0.30	0.35	1.22	
	1105	L		0.37	0.80	3.89		12	12	12	0.30	0.97	3.89	
	1106	U		1.02	0.10	0.40		12	12	12	0.30	0.35	1.22	
	1107	L		0.40	0.80	3.89		12	12	12	0.30	1.05	3.89	
	1108	U		0.92	0.10	0.40		12	12	12	0.30	0.27	1.20	
	1109	U		1.02	0.10	0.40		12	12	12	0.30	0.35	1.22	
	1110	L		0.37	0.80	3.89		12	12	12	0.30	0.97	3.89	
	1111	L		0.40	0.80	3.89		12	12	12	0.30	1.05	3.89	
	1112	U		0.92	0.10	0.40		12	12	12	0.30	0.27	1.20	
	1113	U		1.02	0.10	0.40		12	12	12	0.30	0.35	1.22	
	1114	L		0.37	0.80	3.89		12	12	12	0.30	0.97	3.89	
	1115	U		0.92	0.10	0.40		12	12	12	0.30	0.27	1.20	
	1116	L		0.40	0.80	3.89		12	12	12	0.30	1.05	3.89	
2105	1101	L		0.32	0.48	2.21		12	12	12	0.30	0.50	2.21	
	1102	U		0.69	0.08	0.14		12	12	12	0.30	0.15	0.31	
	1103	L		0.32	0.48	2.21		12	12	12	0.30	0.50	2.21	

ΤΑΦΡΟΣ T1 (3.00x2.80x1.50)m
CRACK CHECK (QUASI-PERMANENT COMBINATION)

LIVE-LOAD DESIGN RESULTS ACCORDING TO EUROCODE 2

ELEM No	LC No		x [m]	wk [mm]	Reinf.(stat.) Asa	Asm	Asi	diameter [mm] da	dm	di	wk [mm]	Reinforcmt req. Asa	Asm	Asi
	1104	U		0.69	0.08	0.14		12	12	12	0.30	0.15	0.31	
	1105	L		0.32	0.48	2.21		12	12	12	0.30	0.50	2.21	
	1106	U		0.69	0.08	0.14		12	12	12	0.30	0.15	0.31	
	1107	U		0.69	0.08	0.14		12	12	12	0.30	0.15	0.31	
	1108	L		0.32	0.48	2.21		12	12	12	0.30	0.50	2.21	
	1109	U		0.69	0.08	0.14		12	12	12	0.30	0.15	0.31	
	1110	L		0.32	0.48	2.21		12	12	12	0.30	0.50	2.21	
	1111	L		0.34	0.48	2.21		12	12	12	0.30	0.55	2.21	
	1112	U		0.67	0.08	0.14		12	12	12	0.30	0.10	0.30	
	1113	U		0.69	0.08	0.14		12	12	12	0.30	0.15	0.31	
	1114	L		0.32	0.48	2.21		12	12	12	0.30	0.50	2.21	
	1115	L		0.34	0.48	2.21		12	12	12	0.30	0.55	2.21	
	1116	U		0.67	0.08	0.14		12	12	12	0.30	0.10	0.30	
2109	1101	L		0.41	1.30	6.49		12	12	12	0.30	1.75	6.49	
	1102	U		1.05	0.20	0.82		12	12	12	0.30	0.68	2.77	
	1103	L		0.41	1.30	6.49		12	12	12	0.30	1.75	6.49	
	1104	U		1.05	0.20	0.82		12	12	12	0.30	0.68	2.77	
	1105	L		0.41	1.30	6.49		12	12	12	0.30	1.75	6.49	
	1106	U		1.05	0.20	0.82		12	12	12	0.30	0.68	2.77	
	1107	L		0.41	1.30	6.49		12	12	12	0.30	1.75	6.49	
	1108	U		1.05	0.20	0.82		12	12	12	0.30	0.68	2.77	
	1109	U		1.05	0.20	0.82		12	12	12	0.30	0.68	2.77	
	1110	L		0.41	1.30	6.49		12	12	12	0.30	1.75	6.49	
	1111	L		0.43	1.30	6.49		12	12	12	0.30	1.86	6.49	
	1112	U		1.00	0.20	0.82		12	12	12	0.30	0.58	2.76	
	1113	U		1.05	0.20	0.82		12	12	12	0.30	0.68	2.77	
	1114	L		0.41	1.30	6.49		12	12	12	0.30	1.75	6.49	
	1115	U		1.00	0.20	0.82		12	12	12	0.30	0.58	2.76	
	1116	L		0.43	1.30	6.49		12	12	12	0.30	1.86	6.49	
2110	1101	L		0.37	0.79	3.89		12	12	12	0.30	0.98	3.89	
	1102	U		1.03	0.11	0.40		12	12	12	0.30	0.36	1.24	
	1103	L		0.37	0.79	3.89		12	12	12	0.30	0.98	3.89	
	1104	U		1.03	0.11	0.40		12	12	12	0.30	0.36	1.24	
	1105	L		0.37	0.79	3.89		12	12	12	0.30	0.98	3.89	
	1106	U		1.03	0.11	0.40		12	12	12	0.30	0.36	1.24	
	1107	L		0.40	0.79	3.89		12	12	12	0.30	1.05	3.89	
	1108	U		0.92	0.11	0.40		12	12	12	0.30	0.29	1.21	
	1109	U		1.03	0.11	0.40		12	12	12	0.30	0.36	1.24	
	1110	L		0.37	0.79	3.89		12	12	12	0.30	0.98	3.89	
	1111	L		0.40	0.79	3.89		12	12	12	0.30	1.05	3.89	
	1112	U		0.92	0.11	0.40		12	12	12	0.30	0.29	1.21	
	1113	U		1.03	0.11	0.40		12	12	12	0.30	0.36	1.24	
	1114	L		0.37	0.79	3.89		12	12	12	0.30	0.98	3.89	
	1115	U		0.92	0.11	0.40		12	12	12	0.30	0.29	1.21	
	1116	L		0.40	0.79	3.89		12	12	12	0.30	1.05	3.89	
2111	1101	L		0.31	0.48	2.21		12	12	12	0.30	0.50	2.21	
	1102	U		0.69	0.07	0.14		12	12	12	0.30	0.15	0.32	
	1103	L		0.31	0.48	2.21		12	12	12	0.30	0.50	2.21	
	1104	U		0.69	0.07	0.14		12	12	12	0.30	0.15	0.32	
	1105	L		0.31	0.48	2.21		12	12	12	0.30	0.50	2.21	
	1106	U		0.69	0.07	0.14		12	12	12	0.30	0.15	0.32	
	1107	U		0.69	0.07	0.14		12	12	12	0.30	0.15	0.32	
	1108	L		0.31	0.48	2.21		12	12	12	0.30	0.50	2.21	
	1109	U		0.69	0.07	0.14		12	12	12	0.30	0.15	0.32	
	1110	L		0.31	0.48	2.21		12	12	12	0.30	0.50	2.21	
	1111	L		0.34	0.48	2.21		12	12	12	0.30	0.54	2.21	
	1112	U		0.67	0.07	0.14		12	12	12	0.30	0.10	0.31	
	1113	U		0.69	0.07	0.14		12	12	12	0.30	0.15	0.32	
	1114	L		0.31	0.48	2.21		12	12	12	0.30	0.50	2.21	
	1115	L		0.34	0.48	2.21		12	12	12	0.30	0.54	2.21	
	1116	U		0.67	0.07	0.14		12	12	12	0.30	0.10	0.31	
2114	1103	U		0.33	0.21	0.08		12	12	12	0.30	0.23	0.08	
	1105	U		0.33	0.21	0.08		12	12	12	0.30	0.23	0.08	
	1108	U		0.33	0.21	0.08		12	12	12	0.30	0.23	0.08	
	1110	U		0.33	0.21	0.08		12	12	12	0.30	0.23	0.08	
	1111	U		0.33	0.21	0.08		12	12	12	0.30	0.23	0.08	
	1114	U		0.33	0.21	0.08		12	12	12	0.30	0.23	0.08	
2115	1101	L		0.41	1.30	6.50		12	12	12	0.30	1.77	6.50	
	1102	U		1.06	0.20	0.83		12	12	12	0.30	0.70	2.79	
	1103	L		0.41	1.30	6.50		12	12	12	0.30	1.77	6.50	
	1104	U		1.06	0.20	0.83		12	12	12	0.30	0.70	2.79	
	1105	L		0.41	1.30	6.50		12	12	12	0.30	1.77	6.50	
	1106	U		1.06	0.20	0.83		12	12	12	0.30	0.70	2.79	
	1107	L		0.41	1.30	6.50		12	12	12	0.30	1.77	6.50	
	1108	U		1.06	0.20	0.83		12	12	12	0.30	0.70	2.79	
	1109	U		1.06	0.20	0.83		12	12	12	0.30	0.70	2.79	
	1110	L		0.41	1.30	6.50		12	12	12	0.30	1.77	6.50	
	1111	L		0.43	1.30	6.50		12	12	12	0.30	1.84	6.50	

ΤΑΦΡΟΣ T1 (3.00x2.80x1.50)m
CRACK CHECK (QUASI-PERMANENT COMBINATION)

LIVE-LOAD DESIGN RESULTS ACCORDING TO EUROCODE 2

ELEM No	LC No		x [m]	wk [mm]	Reinf.(stat.) Asa	Asm	Asi	diameter [mm] da	dm	di	wk [mm]	Reinforcmt req. Asa	Asm	Asi
	1112	U		1.01	0.20	0.83		12	12	12	0.30	0.62	2.79	
	1113	U		1.06	0.20	0.83		12	12	12	0.30	0.70	2.79	
	1114	L		0.41	1.30	6.50		12	12	12	0.30	1.77	6.50	
	1115	U		1.01	0.20	0.83		12	12	12	0.30	0.62	2.79	
	1116	L		0.43	1.30	6.50		12	12	12	0.30	1.84	6.50	
2116	1101	L		0.38	0.79	3.87		12	12	12	0.30	0.99	3.87	
	1102	U		1.04	0.11	0.40		12	12	12	0.30	0.37	1.25	
	1103	L		0.39	0.79	3.87		12	12	12	0.30	1.02	3.87	
	1104	U		0.97	0.11	0.40		12	12	12	0.30	0.34	1.25	
	1105	L		0.38	0.79	3.87		12	12	12	0.30	0.99	3.87	
	1106	U		1.04	0.11	0.40		12	12	12	0.30	0.37	1.25	
	1107	U		1.04	0.11	0.40		12	12	12	0.30	0.37	1.25	
	1108	L		0.38	0.79	3.87		12	12	12	0.30	0.99	3.87	
	1109	U		1.04	0.11	0.40		12	12	12	0.30	0.37	1.25	
	1110	L		0.38	0.79	3.87		12	12	12	0.30	0.99	3.87	
	1111	L		0.40	0.79	3.87		12	12	12	0.30	1.05	3.87	
	1112	U		0.93	0.11	0.40		12	12	12	0.30	0.31	1.25	
	1113	U		1.04	0.11	0.40		12	12	12	0.30	0.37	1.25	
	1114	L		0.38	0.79	3.87		12	12	12	0.30	0.99	3.87	
	1115	L		0.38	0.79	3.87		12	12	12	0.30	0.99	3.87	
	1116	U		1.04	0.11	0.40		12	12	12	0.30	0.37	1.25	
2117	1101	L		0.31	0.49	2.19		12	12	12	0.30	0.49	2.19	
	1102	U		0.71	0.06	0.14		12	12	12	0.30	0.15	0.33	
	1103	L		0.32	0.49	2.19		12	12	12	0.30	0.52	2.19	
	1104	U		0.68	0.06	0.14		12	12	12	0.30	0.11	0.31	
	1105	L		0.31	0.49	2.19		12	12	12	0.30	0.49	2.19	
	1106	U		0.71	0.06	0.14		12	12	12	0.30	0.15	0.33	
	1107	U		0.71	0.06	0.14		12	12	12	0.30	0.15	0.33	
	1108	L		0.31	0.49	2.19		12	12	12	0.30	0.49	2.19	
	1109	U		0.71	0.06	0.14		12	12	12	0.30	0.15	0.33	
	1110	L		0.31	0.49	2.19		12	12	12	0.30	0.49	2.19	
	1111	L		0.32	0.49	2.19		12	12	12	0.30	0.52	2.19	
	1112	U		0.68	0.06	0.14		12	12	12	0.30	0.11	0.31	
	1113	U		0.71	0.06	0.14		12	12	12	0.30	0.15	0.33	
	1114	L		0.31	0.49	2.19		12	12	12	0.30	0.49	2.19	
2120	1102	U		0.31	0.21	0.07		12	12	12	0.30	0.21	0.07	
	1103	U		0.31	0.21	0.07		12	12	12	0.30	0.21	0.07	
	1108	U		0.37	0.21	0.07		12	12	12	0.30	0.25	0.07	
	1110	U		0.31	0.21	0.07		12	12	12	0.30	0.21	0.07	
	1111	U		0.37	0.21	0.07		12	12	12	0.30	0.25	0.07	
	1114	U		0.37	0.21	0.07		12	12	12	0.30	0.25	0.07	
	1116	U		0.37	0.21	0.07		12	12	12	0.30	0.25	0.07	
2121	1101	L		0.41	1.30	6.49		12	12	12	0.30	1.77	6.49	
	1102	U		1.07	0.20	0.84		12	12	12	0.30	0.72	2.82	
	1103	L		0.43	1.30	6.49		12	12	12	0.30	1.84	6.49	
	1104	U		1.01	0.20	0.84		12	12	12	0.30	0.65	2.82	
	1105	L		0.41	1.30	6.49		12	12	12	0.30	1.77	6.49	
	1106	U		1.07	0.20	0.84		12	12	12	0.30	0.72	2.82	
	1109	U		1.03	0.20	0.84		12	12	12	0.30	0.69	2.82	
	1110	L		0.42	1.30	6.49		12	12	12	0.30	1.80	6.49	
	1113	U		1.07	0.20	0.84		12	12	12	0.30	0.72	2.82	
	1114	L		0.41	1.30	6.49		12	12	12	0.30	1.77	6.49	
	1115	U		1.01	0.20	0.84		12	12	12	0.30	0.65	2.82	
	1116	L		0.43	1.30	6.49		12	12	12	0.30	1.84	6.49	
2122	1101	L		0.38	0.77	3.83		12	12	12	0.30	0.98	3.83	
	1102	U		1.05	0.11	0.40		12	12	12	0.30	0.37	1.27	
	1103	L		0.40	0.77	3.83		12	12	12	0.30	1.03	3.83	
	1104	U		0.93	0.11	0.40		12	12	12	0.30	0.32	1.25	
	1105	L		0.38	0.77	3.83		12	12	12	0.30	0.98	3.83	
	1106	U		1.05	0.11	0.40		12	12	12	0.30	0.37	1.27	
	1107	U		1.05	0.11	0.40		12	12	12	0.30	0.37	1.27	
	1108	L		0.38	0.77	3.83		12	12	12	0.30	0.98	3.83	
	1109	U		0.93	0.11	0.40		12	12	12	0.30	0.32	1.25	
	1110	L		0.40	0.77	3.83		12	12	12	0.30	1.03	3.83	
	1111	L		0.40	0.77	3.83		12	12	12	0.30	1.03	3.83	
	1112	U		0.93	0.11	0.40		12	12	12	0.30	0.32	1.25	
	1113	U		1.05	0.11	0.40		12	12	12	0.30	0.37	1.27	
	1114	L		0.38	0.77	3.83		12	12	12	0.30	0.98	3.83	
	1115	L		0.38	0.77	3.83		12	12	12	0.30	0.98	3.83	
	1116	U		1.05	0.11	0.40		12	12	12	0.30	0.37	1.27	
2123	1101	L		0.31	0.51	2.18		12	12	12	0.30	0.51	2.18	
	1102	U		0.72	0.06	0.14		12	12	12	0.30	0.14	0.33	
	1103	L		0.32	0.51	2.18		12	12	12	0.30	0.54	2.18	
	1104	U		0.68	0.06	0.14		12	12	12	0.30	0.10	0.32	
	1105	U		0.68	0.06	0.14		12	12	12	0.30	0.10	0.32	
	1106	L		0.32	0.51	2.18		12	12	12	0.30	0.54	2.18	
	1107	U		0.72	0.06	0.14		12	12	12	0.30	0.14	0.33	
	1108	L		0.31	0.51	2.18		12	12	12	0.30	0.51	2.18	

ΤΑΦΡΟΣ T1 (3.00x2.80x1.50)m
CRACK CHECK (QUASI-PERMANENT COMBINATION)

LIVE-LOAD DESIGN RESULTS ACCORDING TO EUROCODE 2

ELEM No	LC No		x [m]	wk [mm]	Reinf.(stat.) Asa	Asm	Asi	diameter [mm] da	dm	di	wk [mm]	Reinforcmt req. Asa	Asm	Asi
	1109	U		0.68	0.06	0.14		12	12	12	0.30	0.10	0.32	
	1110	L		0.32	0.51	2.18		12	12	12	0.30	0.54	2.18	
	1111	L		0.32	0.51	2.18		12	12	12	0.30	0.54	2.18	
	1112	U		0.68	0.06	0.14		12	12	12	0.30	0.10	0.32	
	1113	U		0.72	0.06	0.14		12	12	12	0.30	0.14	0.33	
	1114	L		0.31	0.51	2.18		12	12	12	0.30	0.51	2.18	
	1115	U		0.72	0.06	0.14		12	12	12	0.30	0.14	0.33	
	1116	L		0.31	0.51	2.18		12	12	12	0.30	0.51	2.18	
2125	1102	U		0.33	0.12	0.08		12	12	12	0.30	0.14	0.08	
	1103	U		0.33	0.12	0.08		12	12	12	0.30	0.14	0.08	
	1106	U		0.33	0.12	0.08		12	12	12	0.30	0.14	0.08	
	1108	U		0.37	0.12	0.08		12	12	12	0.30	0.15	0.08	
	1110	U		0.33	0.12	0.08		12	12	12	0.30	0.14	0.08	
	1111	U		0.37	0.12	0.08		12	12	12	0.30	0.15	0.08	
	1114	U		0.37	0.12	0.08		12	12	12	0.30	0.15	0.08	
	1116	U		0.37	0.12	0.08		12	12	12	0.30	0.15	0.08	
2126	1102	U		0.34	0.23	0.06		12	12	12	0.30	0.26	0.06	
	1103	U		0.34	0.23	0.06		12	12	12	0.30	0.26	0.06	
	1106	U		0.34	0.23	0.06		12	12	12	0.30	0.26	0.06	
	1108	U		0.38	0.23	0.06		12	12	12	0.30	0.29	0.06	
	1110	U		0.34	0.23	0.06		12	12	12	0.30	0.26	0.06	
	1111	U		0.38	0.23	0.06		12	12	12	0.30	0.29	0.06	
	1114	U		0.38	0.23	0.06		12	12	12	0.30	0.29	0.06	
	1116	U		0.38	0.23	0.06		12	12	12	0.30	0.29	0.06	
2127	1101	L		0.41	1.29	6.44		12	12	12	0.30	1.75	6.44	
	1102	U		1.08	0.20	0.85		12	12	12	0.30	0.73	2.84	
	1103	L		0.42	1.29	6.44		12	12	12	0.30	1.81	6.44	
	1104	U		1.01	0.20	0.85		12	12	12	0.30	0.68	2.84	
	1105	L		0.41	1.29	6.44		12	12	12	0.30	1.75	6.44	
	1106	U		1.08	0.20	0.85		12	12	12	0.30	0.73	2.84	
	1107	U		1.01	0.20	0.85		12	12	12	0.30	0.68	2.84	
	1108	L		0.42	1.29	6.44		12	12	12	0.30	1.81	6.44	
	1109	U		1.01	0.20	0.85		12	12	12	0.30	0.68	2.84	
	1110	L		0.42	1.29	6.44		12	12	12	0.30	1.81	6.44	
	1111	U		1.08	0.20	0.85		12	12	12	0.30	0.73	2.84	
	1112	L		0.41	1.29	6.44		12	12	12	0.30	1.75	6.44	
	1113	U		1.08	0.20	0.85		12	12	12	0.30	0.73	2.84	
	1114	L		0.41	1.29	6.44		12	12	12	0.30	1.75	6.44	
	1115	L		0.41	1.29	6.44		12	12	12	0.30	1.75	6.44	
	1116	U		1.08	0.20	0.85		12	12	12	0.30	0.73	2.84	
2128	1101	L		0.38	0.78	3.77		12	12	12	0.30	0.98	3.77	
	1102	U		1.06	0.10	0.41		12	12	12	0.30	0.34	1.27	
	1103	L		0.40	0.78	3.77		12	12	12	0.30	1.03	3.77	
	1104	U		0.94	0.10	0.41		12	12	12	0.30	0.30	1.27	
	1105	U		0.94	0.10	0.41		12	12	12	0.30	0.30	1.27	
	1106	L		0.40	0.78	3.77		12	12	12	0.30	1.03	3.77	
	1107	U		1.06	0.10	0.41		12	12	12	0.30	0.34	1.27	
	1108	L		0.38	0.78	3.77		12	12	12	0.30	0.98	3.77	
	1109	U		0.94	0.10	0.41		12	12	12	0.30	0.30	1.27	
	1110	L		0.40	0.78	3.77		12	12	12	0.30	1.03	3.77	
	1111	L		0.40	0.78	3.77		12	12	12	0.30	1.03	3.77	
	1112	U		0.94	0.10	0.41		12	12	12	0.30	0.30	1.27	
	1113	U		1.06	0.10	0.41		12	12	12	0.30	0.34	1.27	
	1114	L		0.38	0.78	3.77		12	12	12	0.30	0.98	3.77	
	1115	U		0.94	0.10	0.41		12	12	12	0.30	0.30	1.27	
	1116	L		0.40	0.78	3.77		12	12	12	0.30	1.03	3.77	
2129	1101	L		0.31	0.53	2.20		12	12	12	0.30	0.54	2.20	
	1102	U		0.71	0.06	0.14		12	12	12	0.30	0.11	0.33	
	1103	L		0.32	0.53	2.20		12	12	12	0.30	0.56	2.20	
	1104	U		0.69	0.06	0.14		12	12	12	0.30	0.08	0.32	
	1105	U		0.69	0.06	0.14		12	12	12	0.30	0.08	0.32	
	1106	L		0.32	0.53	2.20		12	12	12	0.30	0.56	2.20	
	1107	U		0.71	0.06	0.14		12	12	12	0.30	0.11	0.33	
	1108	L		0.31	0.53	2.20		12	12	12	0.30	0.54	2.20	
	1109	U		0.69	0.06	0.14		12	12	12	0.30	0.08	0.32	
	1110	L		0.32	0.53	2.20		12	12	12	0.30	0.56	2.20	
	1111	L		0.32	0.53	2.20		12	12	12	0.30	0.56	2.20	
	1112	U		0.69	0.06	0.14		12	12	12	0.30	0.08	0.32	
	1113	U		0.71	0.06	0.14		12	12	12	0.30	0.11	0.33	
	1114	L		0.31	0.53	2.20		12	12	12	0.30	0.54	2.20	
	1115	U		0.71	0.06	0.14		12	12	12	0.30	0.11	0.33	
	1116	L		0.31	0.53	2.20		12	12	12	0.30	0.54	2.20	
2131	1102	U		0.45	0.12	0.07		12	12	12	0.30	0.18	0.07	
	1103	U		0.45	0.12	0.07		12	12	12	0.30	0.18	0.07	
	1106	U		0.45	0.12	0.07		12	12	12	0.30	0.18	0.07	
	1107	U		0.48	0.12	0.07		12	12	12	0.30	0.19	0.07	
	1109	U		0.45	0.12	0.07		12	12	12	0.30	0.18	0.07	
	1111	U		0.48	0.12	0.07		12	12	12	0.30	0.19	0.07	

ΤΑΦΡΟΣ T1 (3.00x2.80x1.50)m
CRACK CHECK (QUASI-PERMANENT COMBINATION)

LIVE-LOAD DESIGN RESULTS ACCORDING TO EUROCODE 2

ELEM No	LC No		x [m]	wk [mm]	Reinf.(stat.) Asa	Asm	Asi	diameter [mm] da	dm	di	wk [mm]	Reinforcmt req. Asa	Asm	Asi
	1114	U		0.48	0.12	0.07		12	12	12	0.30	0.19	0.07	
	1116	U		0.48	0.12	0.07		12	12	12	0.30	0.19	0.07	
2132	1102	U		0.32	0.23	0.05		12	12	12	0.30	0.25	0.05	
	1103	U		0.32	0.23	0.05		12	12	12	0.30	0.25	0.05	
	1106	U		0.32	0.23	0.05		12	12	12	0.30	0.25	0.05	
	1108	U		0.37	0.23	0.05		12	12	12	0.30	0.28	0.06	
	1110	U		0.32	0.23	0.05		12	12	12	0.30	0.25	0.05	
	1111	U		0.37	0.23	0.05		12	12	12	0.30	0.28	0.06	
	1114	U		0.37	0.23	0.05		12	12	12	0.30	0.28	0.06	
	1116	U		0.37	0.23	0.05		12	12	12	0.30	0.28	0.06	
2133	1101	L		0.40	1.26	6.28		12	12	12	0.30	1.69	6.28	
	1102	U		1.09	0.19	0.85		12	12	12	0.30	0.69	2.86	
	1103	L		0.41	1.26	6.28		12	12	12	0.30	1.71	6.28	
	1104	U		1.05	0.19	0.85		12	12	12	0.30	0.66	2.86	
	1107	U		1.05	0.19	0.85		12	12	12	0.30	0.66	2.86	
	1108	L		0.41	1.26	6.28		12	12	12	0.30	1.71	6.28	
	1109	U		1.05	0.19	0.85		12	12	12	0.30	0.66	2.86	
	1110	L		0.41	1.26	6.28		12	12	12	0.30	1.71	6.28	
	1111	U		1.09	0.19	0.85		12	12	12	0.30	0.69	2.86	
	1112	L		0.40	1.26	6.28		12	12	12	0.30	1.69	6.28	
	1113	U		1.09	0.19	0.85		12	12	12	0.30	0.69	2.86	
	1114	L		0.40	1.26	6.28		12	12	12	0.30	1.69	6.28	
	1115	L		0.40	1.26	6.28		12	12	12	0.30	1.69	6.28	
	1116	U		1.09	0.19	0.85		12	12	12	0.30	0.69	2.86	
2134	1101	L		0.38	0.82	3.82		12	12	12	0.30	1.03	3.82	
	1102	U		1.05	0.08	0.41		12	12	12	0.30	0.28	1.27	
	1103	L		0.39	0.82	3.82		12	12	12	0.30	1.07	3.82	
	1104	U		0.95	0.08	0.41		12	12	12	0.30	0.26	1.27	
	1105	U		0.95	0.08	0.41		12	12	12	0.30	0.26	1.27	
	1106	L		0.39	0.82	3.82		12	12	12	0.30	1.07	3.82	
	1107	U		1.05	0.08	0.41		12	12	12	0.30	0.28	1.27	
	1108	L		0.38	0.82	3.82		12	12	12	0.30	1.03	3.82	
	1109	U		0.95	0.08	0.41		12	12	12	0.30	0.26	1.27	
	1110	L		0.39	0.82	3.82		12	12	12	0.30	1.07	3.82	
	1111	L		0.39	0.82	3.82		12	12	12	0.30	1.07	3.82	
	1112	U		0.95	0.08	0.41		12	12	12	0.30	0.26	1.27	
	1113	U		0.95	0.08	0.41		12	12	12	0.30	0.26	1.27	
	1114	L		0.39	0.82	3.82		12	12	12	0.30	1.07	3.82	
	1115	U		0.95	0.08	0.41		12	12	12	0.30	0.26	1.27	
	1116	L		0.39	0.82	3.82		12	12	12	0.30	1.07	3.82	
2135	1101	L		0.31	0.52	2.29		12	12	12	0.30	0.54	2.29	
	1102	U		0.72	0.07	0.14		12	12	12	0.30	0.08	0.33	
	1103	L		0.31	0.52	2.29		12	12	12	0.30	0.54	2.29	
	1104	U		0.71	0.07	0.14		12	12	12	0.30	0.07	0.32	
	1105	U		0.71	0.07	0.14		12	12	12	0.30	0.07	0.32	
	1106	L		0.31	0.52	2.29		12	12	12	0.30	0.54	2.29	
	1107	U		0.72	0.07	0.14		12	12	12	0.30	0.08	0.33	
	1108	L		0.31	0.52	2.29		12	12	12	0.30	0.54	2.29	
	1109	U		0.71	0.07	0.14		12	12	12	0.30	0.07	0.32	
	1110	L		0.31	0.52	2.29		12	12	12	0.30	0.54	2.29	
	1111	L		0.31	0.52	2.29		12	12	12	0.30	0.54	2.29	
	1112	U		0.71	0.07	0.14		12	12	12	0.30	0.07	0.32	
	1113	U		0.71	0.07	0.14		12	12	12	0.30	0.07	0.32	
	1114	L		0.31	0.52	2.29		12	12	12	0.30	0.54	2.29	
	1115	U		0.72	0.07	0.14		12	12	12	0.30	0.08	0.33	
	1116	L		0.31	0.52	2.29		12	12	12	0.30	0.54	2.29	
2137	1102	U		0.40	0.14	0.06		12	12	12	0.30	0.19	0.06	
	1103	U		0.40	0.14	0.06		12	12	12	0.30	0.19	0.06	
	1106	U		0.40	0.14	0.06		12	12	12	0.30	0.19	0.06	
	1108	U		0.43	0.14	0.06		12	12	12	0.30	0.20	0.06	
	1110	U		0.40	0.14	0.06		12	12	12	0.30	0.19	0.06	
	1111	U		0.43	0.14	0.06		12	12	12	0.30	0.20	0.06	
	1114	U		0.40	0.14	0.06		12	12	12	0.30	0.19	0.06	
	1116	U		0.43	0.14	0.06		12	12	12	0.30	0.20	0.06	
2138	1102	U		0.35	0.19	0.04		12	12	12	0.30	0.22	0.04	
	1103	U		0.35	0.19	0.04		12	12	12	0.30	0.22	0.04	
	1106	U		0.35	0.19	0.04		12	12	12	0.30	0.22	0.04	
	1108	U		0.38	0.19	0.04		12	12	12	0.30	0.24	0.05	
	1110	U		0.35	0.19	0.04		12	12	12	0.30	0.22	0.04	
	1111	U		0.38	0.19	0.04		12	12	12	0.30	0.24	0.05	
	1113	U		0.38	0.19	0.04		12	12	12	0.30	0.24	0.05	
	1116	U		0.38	0.19	0.04		12	12	12	0.30	0.24	0.05	
2139	1101	L		0.38	1.26	6.28		12	12	12	0.30	1.59	6.28	
	1102	U		1.03	0.17	0.84		12	12	12	0.30	0.57	2.79	
	1103	L		0.39	1.26	6.28		12	12	12	0.30	1.64	6.28	
	1104	U		1.01	0.17	0.84		12	12	12	0.30	0.56	2.79	
	1105	U		1.01	0.17	0.84		12	12	12	0.30	0.56	2.79	
	1106	L		0.39	1.26	6.28		12	12	12	0.30	1.64	6.28	

ΤΑΦΡΟΣ T1 (3.00x2.80x1.50)m
CRACK CHECK (QUASI-PERMANENT COMBINATION)

LIVE-LOAD DESIGN RESULTS ACCORDING TO EUROCODE 2

ELEM No	LC No		x [m]	wk [mm]	Reinf.(stat.) Asa	Asm	Asi	diameter [mm] da	dm	di	wk [mm]	Reinforcmt req. Asa	Asm	Asi
	1107	U		1.03	0.17	0.84		12	12	12	0.30	0.57	2.79	
	1108	L		0.38	1.26	6.28		12	12	12	0.30	1.59	6.28	
	1109	U		1.01	0.17	0.84		12	12	12	0.30	0.56	2.79	
	1110	L		0.39	1.26	6.28		12	12	12	0.30	1.64	6.28	
	1111	L		0.39	1.26	6.28		12	12	12	0.30	1.64	6.28	
	1112	U		1.01	0.17	0.84		12	12	12	0.30	0.56	2.79	
	1113	U		1.01	0.17	0.84		12	12	12	0.30	0.56	2.79	
	1114	L		0.39	1.26	6.28		12	12	12	0.30	1.64	6.28	
	1115	U		1.01	0.17	0.84		12	12	12	0.30	0.56	2.79	
	1116	L		0.39	1.26	6.28		12	12	12	0.30	1.64	6.28	
2140	1101	L		0.34	0.82	4.08		12	12	12	0.30	0.93	4.08	
	1102	U		0.91	0.08	0.39		12	12	12	0.30	0.24	1.19	
	1103	L		0.35	0.82	4.08		12	12	12	0.30	0.95	4.08	
	1104	U		0.92	0.08	0.39		12	12	12	0.30	0.24	1.20	
	1105	U		0.92	0.08	0.39		12	12	12	0.30	0.24	1.20	
	1106	L		0.35	0.82	4.08		12	12	12	0.30	0.95	4.08	
	1107	U		0.91	0.08	0.39		12	12	12	0.30	0.24	1.19	
	1108	L		0.34	0.82	4.08		12	12	12	0.30	0.93	4.08	
	1109	U		0.92	0.08	0.39		12	12	12	0.30	0.24	1.20	
	1110	L		0.35	0.82	4.08		12	12	12	0.30	0.95	4.08	
	1111	L		0.35	0.82	4.08		12	12	12	0.30	0.95	4.08	
	1112	U		0.92	0.08	0.39		12	12	12	0.30	0.24	1.20	
	1113	L		0.34	0.82	4.08		12	12	12	0.30	0.93	4.08	
	1114	U		0.91	0.08	0.39		12	12	12	0.30	0.24	1.19	
	1115	U		0.92	0.08	0.39		12	12	12	0.30	0.24	1.20	
	1116	L		0.35	0.82	4.08		12	12	12	0.30	0.95	4.08	
2141	1102	U		0.66	0.07	0.13		12	12	12	0.30	0.08	0.30	
	1104	U		0.67	0.07	0.13		12	12	12	0.30	0.07	0.30	
	1105	U		0.67	0.07	0.13		12	12	12	0.30	0.07	0.30	
	1107	U		0.66	0.07	0.13		12	12	12	0.30	0.08	0.30	
	1109	U		0.67	0.07	0.13		12	12	12	0.30	0.07	0.30	
	1112	U		0.67	0.07	0.13		12	12	12	0.30	0.07	0.30	
	1114	U		0.66	0.07	0.13		12	12	12	0.30	0.08	0.30	
	1115	U		0.66	0.07	0.13		12	12	12	0.30	0.08	0.30	
2142	1102	U		0.36	0.11	0.03		12	12	12	0.30	0.13	0.03	
	1103	U		0.36	0.11	0.03		12	12	12	0.30	0.13	0.03	
	1105	U		0.36	0.11	0.03		12	12	12	0.30	0.13	0.03	
	1108	U		0.36	0.11	0.03		12	12	12	0.30	0.13	0.03	
	1110	U		0.36	0.11	0.03		12	12	12	0.30	0.13	0.03	
	1111	U		0.36	0.11	0.03		12	12	12	0.30	0.13	0.03	
	1113	U		0.36	0.11	0.03		12	12	12	0.30	0.13	0.03	
	1116	U		0.36	0.11	0.03		12	12	12	0.30	0.13	0.03	
2143	1102	U		0.37	0.14	0.06		12	12	12	0.30	0.17	0.06	
	1103	U		0.37	0.14	0.06		12	12	12	0.30	0.17	0.06	
	1105	U		0.39	0.14	0.06		12	12	12	0.30	0.17	0.06	
	1107	U		0.37	0.14	0.06		12	12	12	0.30	0.17	0.06	
	1110	U		0.37	0.14	0.06		12	12	12	0.30	0.17	0.06	
	1111	U		0.39	0.14	0.06		12	12	12	0.30	0.17	0.06	
	1113	U		0.39	0.14	0.06		12	12	12	0.30	0.17	0.06	
	1116	U		0.39	0.14	0.06		12	12	12	0.30	0.17	0.06	
2144	1102	U		0.33	0.14	0.03		12	12	12	0.30	0.16	0.03	
	1103	U		0.33	0.14	0.03		12	12	12	0.30	0.16	0.03	
	1105	U		0.35	0.14	0.03		12	12	12	0.30	0.17	0.03	
	1107	U		0.33	0.14	0.03		12	12	12	0.30	0.16	0.03	
	1110	U		0.33	0.14	0.03		12	12	12	0.30	0.16	0.03	
	1111	U		0.35	0.14	0.03		12	12	12	0.30	0.17	0.03	
	1113	U		0.35	0.14	0.03		12	12	12	0.30	0.17	0.03	
	1116	U		0.35	0.14	0.03		12	12	12	0.30	0.17	0.03	
2145	1102	U		0.94	0.14	0.69		12	12	12	0.30	0.43	2.14	
	1104	U		0.95	0.14	0.69		12	12	12	0.30	0.44	2.19	
	1105	U		0.95	0.14	0.69		12	12	12	0.30	0.44	2.19	
	1107	U		0.94	0.14	0.69		12	12	12	0.30	0.43	2.14	
	1109	U		0.95	0.14	0.69		12	12	12	0.30	0.44	2.19	
	1112	U		0.95	0.14	0.69		12	12	12	0.30	0.44	2.19	
	1114	U		0.94	0.14	0.69		12	12	12	0.30	0.43	2.14	
	1115	U		0.95	0.14	0.69		12	12	12	0.30	0.44	2.19	
2146	1102	U		0.85	0.07	0.35		12	12	12	0.30	0.20	0.99	
	1104	U		0.87	0.07	0.35		12	12	12	0.30	0.20	1.02	
	1106	U		0.85	0.07	0.35		12	12	12	0.30	0.20	0.99	
	1107	U		0.85	0.07	0.35		12	12	12	0.30	0.20	0.99	
	1109	U		0.87	0.07	0.35		12	12	12	0.30	0.20	1.02	
	1112	U		0.87	0.07	0.35		12	12	12	0.30	0.20	1.02	
	1114	U		0.85	0.07	0.35		12	12	12	0.30	0.20	0.99	
	1115	U		0.85	0.07	0.35		12	12	12	0.30	0.20	0.99	
2147	1102	U		0.60	0.04	0.13		12	12	12	0.30	0.08	0.24	
	1103	L		0.34	0.48	2.40		12	12	12	0.30	0.51	2.55	
	1104	U		0.61	0.04	0.13		12	12	12	0.30	0.08	0.26	
	1106	U		0.60	0.04	0.13		12	12	12	0.30	0.08	0.24	

ΤΑΦΡΟΣ T1 (3.00x2.80x1.50)m
CRACK CHECK (QUASI-PERMANENT COMBINATION)

LIVE-LOAD DESIGN RESULTS ACCORDING TO EUROCODE 2

ELEM No	LC No		x [m]	wk [mm]	Reinf.(stat.) Asa	Asm	Asi	diameter [mm] da	dm	di	wk [mm]	Reinforcmt req. Asa	Asm	Asi
	1107	U		0.60	0.04	0.13		12	12	12	0.30	0.08	0.24	
	1109	U		0.61	0.04	0.13		12	12	12	0.30	0.08	0.26	
	1110	L		0.34	0.48	2.40		12	12	12	0.30	0.51	2.55	
	1111	L		0.34	0.48	2.40		12	12	12	0.30	0.51	2.55	
	1112	U		0.61	0.04	0.13		12	12	12	0.30	0.08	0.26	
	1114	U		0.60	0.04	0.13		12	12	12	0.30	0.08	0.24	
	1115	U		0.60	0.04	0.13		12	12	12	0.30	0.08	0.24	
2148	1102	U		0.31	0.07	0.01		12	12	12	0.30	0.07	0.01	
	1103	U		0.31	0.07	0.01		12	12	12	0.30	0.07	0.01	
	1105	U		0.31	0.07	0.01		12	12	12	0.30	0.07	0.01	
	1108	U		0.31	0.07	0.01		12	12	12	0.30	0.07	0.01	
	1109	U		0.31	0.07	0.01		12	12	12	0.30	0.07	0.01	
	1111	U		0.31	0.07	0.01		12	12	12	0.30	0.07	0.01	
	1113	U		0.31	0.07	0.01		12	12	12	0.30	0.07	0.01	
	1116	U		0.31	0.07	0.01		12	12	12	0.30	0.07	0.01	
2149	1102	U		0.34	0.07	0.04		12	12	12	0.30	0.08	0.04	
	1103	U		0.34	0.07	0.04		12	12	12	0.30	0.08	0.04	
	1105	U		0.35	0.07	0.04		12	12	12	0.30	0.08	0.04	
	1108	U		0.34	0.07	0.04		12	12	12	0.30	0.08	0.04	
	1109	U		0.34	0.07	0.04		12	12	12	0.30	0.08	0.04	
	1111	U		0.35	0.07	0.04		12	12	12	0.30	0.08	0.04	
	1113	U		0.35	0.07	0.04		12	12	12	0.30	0.08	0.04	
	1116	U		0.35	0.07	0.04		12	12	12	0.30	0.08	0.04	
2150	1102	U		0.34	0.06	0.02		12	12	12	0.30	0.06	0.02	
	1103	U		0.33	0.06	0.02		12	12	12	0.30	0.06	0.02	
	1105	U		0.34	0.06	0.02		12	12	12	0.30	0.06	0.02	
	1107	U		0.33	0.06	0.02		12	12	12	0.30	0.06	0.02	
	1110	U		0.33	0.06	0.02		12	12	12	0.30	0.06	0.02	
	1111	U		0.34	0.06	0.02		12	12	12	0.30	0.06	0.02	
	1113	U		0.34	0.06	0.02		12	12	12	0.30	0.06	0.02	
	1116	U		0.34	0.06	0.02		12	12	12	0.30	0.06	0.02	
3001	1102	U		1.10	0.06	0.09		12	12	12	0.30	0.22	0.13	
	1104	U		1.10	0.06	0.09		12	12	12	0.30	0.22	0.13	
	1106	U		1.11	0.06	0.09		12	12	12	0.30	0.22	0.14	
	1108	U		1.10	0.06	0.09		12	12	12	0.30	0.22	0.13	
	1110	U		1.11	0.06	0.09		12	12	12	0.30	0.22	0.14	
	1112	U		1.11	0.06	0.09		12	12	12	0.30	0.22	0.14	
	1114	U		1.10	0.06	0.09		12	12	12	0.30	0.22	0.13	
	1115	U		1.11	0.06	0.09		12	12	12	0.30	0.22	0.14	
3002	1102	U		1.10	0.07	0.19		12	12	12	0.30	0.25	0.59	
	1104	U		1.10	0.07	0.19		12	12	12	0.30	0.25	0.59	
	1106	U		1.03	0.07	0.19		12	12	12	0.30	0.24	0.60	
	1108	U		1.10	0.07	0.19		12	12	12	0.30	0.25	0.59	
	1110	U		1.10	0.07	0.19		12	12	12	0.30	0.25	0.59	
	1112	U		1.03	0.07	0.19		12	12	12	0.30	0.24	0.60	
	1113	U		1.10	0.07	0.19		12	12	12	0.30	0.25	0.59	
	1115	U		1.03	0.07	0.19		12	12	12	0.30	0.24	0.60	
3003	1102	U		1.08	0.07	0.20		12	12	12	0.30	0.25	0.65	
	1104	U		1.08	0.07	0.20		12	12	12	0.30	0.25	0.65	
	1106	U		0.95	0.07	0.20		12	12	12	0.30	0.21	0.65	
	1108	U		0.95	0.07	0.20		12	12	12	0.30	0.21	0.65	
	1110	U		1.08	0.07	0.20		12	12	12	0.30	0.25	0.65	
	1112	U		0.95	0.07	0.20		12	12	12	0.30	0.21	0.65	
	1113	U		1.08	0.07	0.20		12	12	12	0.30	0.25	0.65	
	1115	U		0.95	0.07	0.20		12	12	12	0.30	0.21	0.65	
3004	1102	U		1.07	0.07	0.19		12	12	12	0.30	0.23	0.59	
	1104	U		1.07	0.07	0.19		12	12	12	0.30	0.23	0.59	
	1106	U		0.94	0.07	0.19		12	12	12	0.30	0.18	0.60	
	1110	U		1.07	0.07	0.19		12	12	12	0.30	0.23	0.59	
	1112	U		0.94	0.07	0.19		12	12	12	0.30	0.18	0.60	
	1113	U		1.07	0.07	0.19		12	12	12	0.30	0.23	0.59	
	1115	U		0.94	0.07	0.19		12	12	12	0.30	0.18	0.60	
3005	1102	U		1.03	0.06	0.18		12	12	12	0.30	0.20	0.53	
	1104	U		1.03	0.06	0.18		12	12	12	0.30	0.20	0.53	
	1106	U		0.91	0.06	0.18		12	12	12	0.30	0.12	0.54	
	1107	U		0.91	0.06	0.18		12	12	12	0.30	0.12	0.54	
	1110	U		0.91	0.06	0.18		12	12	12	0.30	0.12	0.54	
	1112	U		0.91	0.06	0.18		12	12	12	0.30	0.12	0.54	
	1113	U		1.03	0.06	0.18		12	12	12	0.30	0.20	0.53	
	1115	U		0.91	0.06	0.18		12	12	12	0.30	0.12	0.54	
3006	1102	U		0.88	0.05	0.17		12	12	12	0.30	0.10	0.49	
	1104	U		0.88	0.05	0.17		12	12	12	0.30	0.10	0.49	
	1106	U		0.88	0.05	0.17		12	12	12	0.30	0.10	0.49	
	1107	U		0.88	0.05	0.17		12	12	12	0.30	0.10	0.49	
	1110	U		0.88	0.05	0.17		12	12	12	0.30	0.10	0.49	
	1112	U		0.88	0.05	0.17		12	12	12	0.30	0.10	0.49	
	1113	U		0.97	0.05	0.17		12	12	12	0.30	0.16	0.47	
	1115	U		0.88	0.05	0.17		12	12	12	0.30	0.10	0.49	

ΤΑΦΡΟΣ T1 (3.00x2.80x1.50)m
CRACK CHECK (QUASI-PERMANENT COMBINATION)

LIVE-LOAD DESIGN RESULTS ACCORDING TO EUROCODE 2

ELEM No	LC No		x [m]	wk [mm]	Reinf.(stat.) Asa	Asm	Asi	diameter [mm] da	dm	di	wk [mm]	Reinforcmt req. Asa	Asm	Asi
3007	1102	U		0.85	0.04	0.16		12	12	12	0.30	0.09	0.45	
	1104	U		0.85	0.04	0.16		12	12	12	0.30	0.09	0.45	
	1106	U		0.85	0.04	0.16		12	12	12	0.30	0.09	0.45	
	1107	U		0.85	0.04	0.16		12	12	12	0.30	0.09	0.45	
	1110	U		0.85	0.04	0.16		12	12	12	0.30	0.09	0.45	
	1112	U		0.85	0.04	0.16		12	12	12	0.30	0.09	0.45	
	1113	U		0.90	0.04	0.16		12	12	12	0.30	0.13	0.43	
	1115	U		0.85	0.04	0.16		12	12	12	0.30	0.09	0.45	
3008	1102	U		0.81	0.03	0.16		12	12	12	0.30	0.08	0.42	
	1104	U		0.81	0.03	0.16		12	12	12	0.30	0.08	0.42	
	1106	U		0.81	0.03	0.16		12	12	12	0.30	0.08	0.42	
	1107	U		0.81	0.03	0.16		12	12	12	0.30	0.08	0.42	
	1110	U		0.81	0.03	0.16		12	12	12	0.30	0.08	0.42	
	1112	U		0.81	0.03	0.16		12	12	12	0.30	0.08	0.42	
	1114	U		0.81	0.03	0.16		12	12	12	0.30	0.08	0.42	
	1115	U		0.81	0.03	0.16		12	12	12	0.30	0.08	0.42	
3009	1102	U		0.80	0.03	0.15		12	12	12	0.30	0.08	0.40	
	1104	U		0.80	0.03	0.15		12	12	12	0.30	0.08	0.40	
	1106	U		0.80	0.03	0.15		12	12	12	0.30	0.08	0.40	
	1107	U		0.80	0.03	0.15		12	12	12	0.30	0.08	0.40	
	1110	U		0.80	0.03	0.15		12	12	12	0.30	0.08	0.40	
	1112	U		0.80	0.03	0.15		12	12	12	0.30	0.08	0.40	
	1114	U		0.80	0.03	0.15		12	12	12	0.30	0.08	0.40	
	1116	U		0.94	0.03	0.15		12	12	12	0.30	0.11	0.40	
3010	1102	U		0.79	0.03	0.15		12	12	12	0.30	0.08	0.39	
	1104	U		0.79	0.03	0.15		12	12	12	0.30	0.08	0.39	
	1107	U		0.79	0.03	0.15		12	12	12	0.30	0.08	0.39	
	1110	U		0.79	0.03	0.15		12	12	12	0.30	0.08	0.39	
	1112	U		0.79	0.03	0.15		12	12	12	0.30	0.08	0.39	
	1114	U		0.79	0.03	0.15		12	12	12	0.30	0.08	0.39	
	1116	U		0.93	0.03	0.15		12	12	12	0.30	0.11	0.39	
3011	1102	U		0.79	0.03	0.15		12	12	12	0.30	0.08	0.39	
	1104	U		0.79	0.03	0.15		12	12	12	0.30	0.08	0.39	
	1107	U		0.79	0.03	0.15		12	12	12	0.30	0.08	0.39	
	1110	U		0.79	0.03	0.15		12	12	12	0.30	0.08	0.39	
	1112	U		0.79	0.03	0.15		12	12	12	0.30	0.08	0.39	
	1114	U		0.79	0.03	0.15		12	12	12	0.30	0.08	0.39	
	1116	U		0.92	0.03	0.15		12	12	12	0.30	0.10	0.39	
3012	1102	U		0.79	0.03	0.15		12	12	12	0.30	0.08	0.39	
	1104	U		0.79	0.03	0.15		12	12	12	0.30	0.08	0.39	
	1107	U		0.79	0.03	0.15		12	12	12	0.30	0.08	0.39	
	1110	U		0.79	0.03	0.15		12	12	12	0.30	0.08	0.39	
	1112	U		0.79	0.03	0.15		12	12	12	0.30	0.08	0.39	
	1114	U		0.79	0.03	0.15		12	12	12	0.30	0.08	0.39	
	1116	U		0.92	0.03	0.15		12	12	12	0.30	0.10	0.39	
3013	1102	U		0.79	0.03	0.15		12	12	12	0.30	0.08	0.39	
	1104	U		0.79	0.03	0.15		12	12	12	0.30	0.08	0.39	
	1106	U		0.78	0.03	0.15		12	12	12	0.30	0.08	0.38	
	1107	U		0.79	0.03	0.15		12	12	12	0.30	0.08	0.39	
	1110	U		0.79	0.03	0.15		12	12	12	0.30	0.08	0.39	
	1112	U		0.79	0.03	0.15		12	12	12	0.30	0.08	0.39	
	1114	U		0.79	0.03	0.15		12	12	12	0.30	0.08	0.39	
	1116	U		0.91	0.03	0.15		12	12	12	0.30	0.10	0.38	
3014	1102	U		0.79	0.03	0.15		12	12	12	0.30	0.08	0.39	
	1104	U		0.79	0.03	0.15		12	12	12	0.30	0.08	0.39	
	1108	U		0.79	0.03	0.15		12	12	12	0.30	0.08	0.39	
	1110	U		0.79	0.03	0.15		12	12	12	0.30	0.08	0.39	
	1112	U		0.79	0.03	0.15		12	12	12	0.30	0.08	0.39	
	1114	U		0.79	0.03	0.15		12	12	12	0.30	0.08	0.39	
	1115	U		0.92	0.03	0.15		12	12	12	0.30	0.10	0.39	
3015	1102	U		0.79	0.03	0.15		12	12	12	0.30	0.08	0.39	
	1104	U		0.79	0.03	0.15		12	12	12	0.30	0.08	0.39	
	1108	U		0.79	0.03	0.15		12	12	12	0.30	0.08	0.39	
	1110	U		0.79	0.03	0.15		12	12	12	0.30	0.08	0.39	
	1112	U		0.79	0.03	0.15		12	12	12	0.30	0.08	0.39	
	1114	U		0.79	0.03	0.15		12	12	12	0.30	0.08	0.39	
	1115	U		0.92	0.03	0.15		12	12	12	0.30	0.10	0.39	
3016	1102	U		0.79	0.03	0.15		12	12	12	0.30	0.08	0.39	
	1104	U		0.79	0.03	0.15		12	12	12	0.30	0.08	0.39	
	1108	U		0.79	0.03	0.15		12	12	12	0.30	0.08	0.39	
	1110	U		0.79	0.03	0.15		12	12	12	0.30	0.08	0.39	
	1112	U		0.79	0.03	0.15		12	12	12	0.30	0.08	0.39	
	1114	U		0.79	0.03	0.15		12	12	12	0.30	0.08	0.39	
	1115	U		0.93	0.03	0.15		12	12	12	0.30	0.11	0.39	
3017	1102	U		0.80	0.03	0.15		12	12	12	0.30	0.08	0.40	
	1104	U		0.80	0.03	0.15		12	12	12	0.30	0.08	0.40	
	1105	U		0.80	0.03	0.15		12	12	12	0.30	0.08	0.40	
	1108	U		0.80	0.03	0.15		12	12	12	0.30	0.08	0.40	

ΤΑΦΡΟΣ T1 (3.00x2.80x1.50)m
CRACK CHECK (QUASI-PERMANENT COMBINATION)

LIVE-LOAD DESIGN RESULTS ACCORDING TO EUROCODE 2

ELEM No	LC No		x [m]	wk [mm]	Reinf.(stat.) Asa	Asm	Asi	diameter [mm] da	dm	di	wk [mm]	Reinforcmt req. Asa	Asm	Asi
	1110	U		0.80	0.03	0.15		12	12	12	0.30	0.08	0.40	
	1112	U		0.80	0.03	0.15		12	12	12	0.30	0.08	0.40	
	1114	U		0.80	0.03	0.15		12	12	12	0.30	0.08	0.40	
	1115	U		0.94	0.03	0.15		12	12	12	0.30	0.11	0.40	
3018	1102	U		0.81	0.03	0.16		12	12	12	0.30	0.08	0.42	
	1104	U		0.81	0.03	0.16		12	12	12	0.30	0.08	0.42	
	1105	U		0.81	0.03	0.16		12	12	12	0.30	0.08	0.42	
	1108	U		0.81	0.03	0.16		12	12	12	0.30	0.08	0.42	
	1110	U		0.81	0.03	0.16		12	12	12	0.30	0.08	0.42	
	1112	U		0.81	0.03	0.16		12	12	12	0.30	0.08	0.42	
	1114	U		0.81	0.03	0.16		12	12	12	0.30	0.08	0.42	
	1116	U		0.81	0.03	0.16		12	12	12	0.30	0.08	0.42	
3019	1102	U		0.85	0.04	0.16		12	12	12	0.30	0.09	0.45	
	1104	U		0.85	0.04	0.16		12	12	12	0.30	0.09	0.45	
	1105	U		0.85	0.04	0.16		12	12	12	0.30	0.09	0.45	
	1108	U		0.85	0.04	0.16		12	12	12	0.30	0.09	0.45	
	1110	U		0.85	0.04	0.16		12	12	12	0.30	0.09	0.45	
	1112	U		0.85	0.04	0.16		12	12	12	0.30	0.09	0.45	
	1113	U		0.90	0.04	0.16		12	12	12	0.30	0.13	0.43	
	1116	U		0.85	0.04	0.16		12	12	12	0.30	0.09	0.45	
3020	1102	U		0.88	0.05	0.17		12	12	12	0.30	0.10	0.49	
	1104	U		0.88	0.05	0.17		12	12	12	0.30	0.10	0.49	
	1105	U		0.88	0.05	0.17		12	12	12	0.30	0.10	0.49	
	1108	U		0.88	0.05	0.17		12	12	12	0.30	0.10	0.49	
	1110	U		0.88	0.05	0.17		12	12	12	0.30	0.10	0.49	
	1112	U		0.88	0.05	0.17		12	12	12	0.30	0.10	0.49	
	1113	U		0.97	0.05	0.17		12	12	12	0.30	0.16	0.47	
	1116	U		0.88	0.05	0.17		12	12	12	0.30	0.10	0.49	
3021	1102	U		1.03	0.06	0.18		12	12	12	0.30	0.20	0.53	
	1104	U		1.03	0.06	0.18		12	12	12	0.30	0.20	0.53	
	1105	U		0.91	0.06	0.18		12	12	12	0.30	0.12	0.54	
	1108	U		0.91	0.06	0.18		12	12	12	0.30	0.12	0.54	
	1110	U		0.91	0.06	0.18		12	12	12	0.30	0.12	0.54	
	1112	U		0.91	0.06	0.18		12	12	12	0.30	0.12	0.54	
	1113	U		1.03	0.06	0.18		12	12	12	0.30	0.20	0.53	
	1116	U		0.91	0.06	0.18		12	12	12	0.30	0.12	0.54	
3022	1102	U		1.07	0.07	0.19		12	12	12	0.30	0.23	0.59	
	1104	U		1.07	0.07	0.19		12	12	12	0.30	0.23	0.59	
	1105	U		0.94	0.07	0.19		12	12	12	0.30	0.18	0.60	
	1110	U		1.07	0.07	0.19		12	12	12	0.30	0.23	0.59	
	1112	U		0.94	0.07	0.19		12	12	12	0.30	0.18	0.60	
	1113	U		1.07	0.07	0.19		12	12	12	0.30	0.23	0.59	
	1116	U		0.94	0.07	0.19		12	12	12	0.30	0.18	0.60	
3023	1102	U		1.08	0.07	0.20		12	12	12	0.30	0.25	0.65	
	1104	U		1.08	0.07	0.20		12	12	12	0.30	0.25	0.65	
	1105	U		0.95	0.07	0.20		12	12	12	0.30	0.21	0.65	
	1107	U		0.95	0.07	0.20		12	12	12	0.30	0.21	0.65	
	1110	U		1.08	0.07	0.20		12	12	12	0.30	0.25	0.65	
	1112	U		0.95	0.07	0.20		12	12	12	0.30	0.21	0.65	
	1113	U		1.08	0.07	0.20		12	12	12	0.30	0.25	0.65	
	1116	U		0.95	0.07	0.20		12	12	12	0.30	0.21	0.65	
3024	1102	U		1.10	0.07	0.19		12	12	12	0.30	0.25	0.59	
	1104	U		1.10	0.07	0.19		12	12	12	0.30	0.25	0.59	
	1105	U		1.03	0.07	0.19		12	12	12	0.30	0.24	0.60	
	1107	U		1.10	0.07	0.19		12	12	12	0.30	0.25	0.59	
	1110	U		1.10	0.07	0.19		12	12	12	0.30	0.25	0.59	
	1112	U		1.03	0.07	0.19		12	12	12	0.30	0.24	0.60	
	1113	U		1.10	0.07	0.19		12	12	12	0.30	0.25	0.59	
	1116	U		1.03	0.07	0.19		12	12	12	0.30	0.24	0.60	
3025	1102	U		1.10	0.06	0.09		12	12	12	0.30	0.22	0.13	
	1104	U		1.10	0.06	0.09		12	12	12	0.30	0.22	0.13	
	1105	U		1.11	0.06	0.09		12	12	12	0.30	0.22	0.14	
	1107	U		1.10	0.06	0.09		12	12	12	0.30	0.22	0.13	
	1110	U		1.11	0.06	0.09		12	12	12	0.30	0.22	0.14	
	1112	U		1.11	0.06	0.09		12	12	12	0.30	0.22	0.14	
	1114	U		1.10	0.06	0.09		12	12	12	0.30	0.22	0.13	
	1116	U		1.11	0.06	0.09		12	12	12	0.30	0.22	0.14	
3027	1102	U		0.74	0.04	0.04		12	12	12	0.30	0.10	0.07	
	1104	U		0.74	0.04	0.04		12	12	12	0.30	0.10	0.07	
	1106	U		0.64	0.04	0.04		12	12	12	0.30	0.09	0.06	
	1108	U		0.64	0.04	0.04		12	12	12	0.30	0.09	0.06	
	1110	U		0.74	0.04	0.04		12	12	12	0.30	0.10	0.07	
	1112	U		0.64	0.04	0.04		12	12	12	0.30	0.09	0.06	
	1113	U		0.74	0.04	0.04		12	12	12	0.30	0.10	0.07	
	1115	U		0.74	0.04	0.04		12	12	12	0.30	0.10	0.07	
3028	1102	U		1.05	0.02	0.05		12	12	12	0.30	0.07	0.11	
	1104	U		1.05	0.02	0.05		12	12	12	0.30	0.07	0.11	
	1106	U		0.68	0.02	0.05		12	12	12	0.30	0.05	0.11	

ΤΑΦΡΟΣ T1 (3.00x2.80x1.50)m
CRACK CHECK (QUASI-PERMANENT COMBINATION)

LIVE-LOAD DESIGN RESULTS ACCORDING TO EUROCODE 2

ELEM No	LC No		x [m]	wk [mm]	Reinf.(stat.) Asa	Asm	Asi	diameter [mm] da	dm	di	wk [mm]	Reinforcmt req. Asa	Asm	Asi
	1108	U		0.68	0.02	0.05		12	12	12	0.30	0.05	0.11	
	1110	U		1.05	0.02	0.05		12	12	12	0.30	0.07	0.11	
	1112	U		0.68	0.02	0.05		12	12	12	0.30	0.05	0.11	
	1113	U		1.05	0.02	0.05		12	12	12	0.30	0.07	0.11	
	1115	U		1.05	0.02	0.05		12	12	12	0.30	0.07	0.11	
3029	1102	U		0.97	0.02	0.05		12	12	12	0.30	0.06	0.09	
	1104	U		0.97	0.02	0.05		12	12	12	0.30	0.06	0.09	
	1106	U		0.53	0.02	0.05		12	12	12	0.30	0.02	0.08	
	1108	U		0.53	0.02	0.05		12	12	12	0.30	0.02	0.08	
	1110	U		0.97	0.02	0.05		12	12	12	0.30	0.06	0.09	
	1112	U		0.53	0.02	0.05		12	12	12	0.30	0.02	0.08	
	1113	U		0.97	0.02	0.05		12	12	12	0.30	0.06	0.09	
	1115	U		0.97	0.02	0.05		12	12	12	0.30	0.06	0.09	
3030	1102	U		0.79	0.01	0.04		12	12	12	0.30	0.04	0.04	
	1104	U		0.79	0.01	0.04		12	12	12	0.30	0.04	0.04	
	1106	U		0.35	0.01	0.04		12	12	12	0.30	0.01	0.05	
	1110	U		0.79	0.01	0.04		12	12	12	0.30	0.04	0.04	
	1112	U		0.35	0.01	0.04		12	12	12	0.30	0.01	0.05	
	1113	U		0.79	0.01	0.04		12	12	12	0.30	0.04	0.04	
	1115	U		0.79	0.01	0.04		12	12	12	0.30	0.04	0.04	
3046	1102	U		0.79	0.01	0.04		12	12	12	0.30	0.04	0.04	
	1104	U		0.79	0.01	0.04		12	12	12	0.30	0.04	0.04	
	1105	U		0.35	0.01	0.04		12	12	12	0.30	0.01	0.05	
	1110	U		0.79	0.01	0.04		12	12	12	0.30	0.04	0.04	
	1112	U		0.35	0.01	0.04		12	12	12	0.30	0.01	0.05	
	1113	U		0.79	0.01	0.04		12	12	12	0.30	0.04	0.04	
	1116	U		0.79	0.01	0.04		12	12	12	0.30	0.04	0.04	
3047	1102	U		0.97	0.02	0.05		12	12	12	0.30	0.06	0.09	
	1104	U		0.97	0.02	0.05		12	12	12	0.30	0.06	0.09	
	1105	U		0.53	0.02	0.05		12	12	12	0.30	0.02	0.08	
	1107	U		0.53	0.02	0.05		12	12	12	0.30	0.02	0.08	
	1110	U		0.97	0.02	0.05		12	12	12	0.30	0.06	0.09	
	1112	U		0.53	0.02	0.05		12	12	12	0.30	0.02	0.08	
	1113	U		0.97	0.02	0.05		12	12	12	0.30	0.06	0.09	
	1116	U		0.97	0.02	0.05		12	12	12	0.30	0.06	0.09	
3048	1102	U		1.05	0.02	0.05		12	12	12	0.30	0.07	0.11	
	1104	U		1.05	0.02	0.05		12	12	12	0.30	0.07	0.11	
	1105	U		0.68	0.02	0.05		12	12	12	0.30	0.05	0.11	
	1107	U		0.68	0.02	0.05		12	12	12	0.30	0.05	0.11	
	1110	U		1.05	0.02	0.05		12	12	12	0.30	0.07	0.11	
	1112	U		0.68	0.02	0.05		12	12	12	0.30	0.05	0.11	
	1113	U		1.05	0.02	0.05		12	12	12	0.30	0.07	0.11	
	1116	U		1.05	0.02	0.05		12	12	12	0.30	0.07	0.11	
3049	1102	U		0.74	0.04	0.04		12	12	12	0.30	0.10	0.07	
	1104	U		0.74	0.04	0.04		12	12	12	0.30	0.10	0.07	
	1105	U		0.64	0.04	0.04		12	12	12	0.30	0.09	0.06	
	1108	U		0.64	0.04	0.04		12	12	12	0.30	0.09	0.06	
	1109	U		0.74	0.04	0.04		12	12	12	0.30	0.10	0.07	
	1112	U		0.64	0.04	0.04		12	12	12	0.30	0.09	0.06	
	1113	U		0.74	0.04	0.04		12	12	12	0.30	0.10	0.07	
	1116	U		0.74	0.04	0.04		12	12	12	0.30	0.10	0.07	
3062	1101	U		0.33	0.05	0.01		12	12	12	0.30	0.05	0.01	
	1103	U		0.33	0.05	0.01		12	12	12	0.30	0.05	0.01	
	1105	U		0.33	0.05	0.01		12	12	12	0.30	0.05	0.01	
	1110	U		0.33	0.05	0.01		12	12	12	0.30	0.05	0.01	
	1111	U		0.33	0.05	0.01		12	12	12	0.30	0.05	0.01	
	1113	U		0.33	0.05	0.01		12	12	12	0.30	0.05	0.01	
	1115	U		0.33	0.05	0.01		12	12	12	0.30	0.05	0.01	
3063	1101	U		0.33	0.05	0.01		12	12	12	0.30	0.05	0.01	
	1103	U		0.33	0.05	0.01		12	12	12	0.30	0.05	0.01	
	1109	U		0.33	0.05	0.01		12	12	12	0.30	0.05	0.01	
	1111	U		0.33	0.05	0.01		12	12	12	0.30	0.05	0.01	
	1113	U		0.33	0.05	0.01		12	12	12	0.30	0.05	0.01	
	1116	U		0.31	0.05	0.01		12	12	12	0.30	0.05	0.01	
3064	1101	U		0.33	0.05	0.01		12	12	12	0.30	0.05	0.01	
	1103	U		0.33	0.05	0.01		12	12	12	0.30	0.05	0.01	
	1106	U		0.33	0.05	0.01		12	12	12	0.30	0.05	0.01	
	1109	U		0.33	0.05	0.01		12	12	12	0.30	0.05	0.01	
	1111	U		0.33	0.05	0.01		12	12	12	0.30	0.05	0.01	
	1113	U		0.33	0.05	0.01		12	12	12	0.30	0.05	0.01	
	1116	U		0.33	0.05	0.01		12	12	12	0.30	0.05	0.01	
3087	1111	U		0.32	0.12	0.03		12	12	12	0.30	0.12	0.03	
3088		U		0.32	0.12	0.02		12	12	12	0.30	0.13	0.03	
3089		U		0.32	0.12	0.03		12	12	12	0.30	0.12	0.03	

Reinforcement has been increased by live-load design

ΤΑΦΡΟΣ T1 (3.00x2.80x1.50)m
CRACK CHECK (QUASI-PERMANENT COMBINATION)

Steel stress, concrete pressure, stress range

E=ELEM N=NODE	stress range on top Asa [MPa]	Asm [MPa]	Asi [MPa]	stress range botton Asa [MPa]	Asm [MPa]	Asi [MPa]	links Ass [MPa]	concre sig-c [MPa]	steel-l sig-max [MPa]
E 1001	154.4	82.1		105.2	73.8			-4.1	154.1
E 1046	164.4	71.2		58.3	58.0			-4.1	164.2
E 1049	164.7	70.6		55.8	50.9			-4.1	164.1
E 1075	161.2	31.0		40.1	31.1			-4.2	160.8
E 2001	76.2	94.9		63.6	99.9			-3.9	136.8
E 2013	98.2	100.4		98.6	136.0			-4.1	135.7
E 2133	98.2	100.5		98.6	136.0			-4.1	135.7

The elements with the maximum values have been printed.

Maximum	164.7	100.5		105.2	136.0		0.0	-4.2	164.2

steel-l: longitudinal reinf. - links are also checked to CHKS but not printed!

Maximum Reinforcement [cm2/m]
(stored in data base file with reinforcement-distribution-no. 300)

Grp	Element	upper:As	Ast	dir	lower:As	Ast	dir	Ass[cm2/m2]	AssE[cm2]
1	1001	5.11	1.02	0	9.01	1.80	0		
1	1002	5.27	1.62	0	8.53	2.12	0		
1	1003	5.21	1.84	0	8.41	2.34	0		
1	1004	5.20	1.88	0	8.58	2.49	0		
1	1005	5.19	1.87	0	8.62	2.53	0		
1	1006	5.15	1.86	0	8.62	2.54	0		
1	1007	5.15	1.86	0	8.60	2.52	0		
1	1008	5.14	1.86	0	8.59	2.51	0		
1	1009	5.13	1.86	0	8.57	2.52	0		
1	1010	5.13	1.85	0	8.56	2.50	0		
1	1011	5.13	1.85	0	8.56	2.50	0		
1	1012	5.13	1.85	0	8.55	2.49	0		
1	1013	5.12	1.85	0	8.55	2.49	0		
1	1014	5.13	1.85	0	8.55	2.49	0		
1	1015	5.13	1.85	0	8.56	2.50	0		
1	1016	5.13	1.85	0	8.56	2.50	0		
1	1017	5.13	1.86	0	8.57	2.52	0		
1	1018	5.14	1.86	0	8.59	2.51	0		
1	1019	5.15	1.86	0	8.60	2.52	0		
1	1020	5.15	1.86	0	8.62	2.54	0		
1	1021	5.19	1.87	0	8.62	2.53	0		
1	1022	5.20	1.88	0	8.58	2.49	0		
1	1023	5.21	1.84	0	8.44	2.34	0		
1	1024	5.27	1.62	0	8.56	2.13	0		
1	1025	5.11	1.02	0	9.04	1.81	0		
1	1026	5.45	1.09	0	8.38	1.68	0		
1	1027	5.50	1.29	0	7.98	1.60	0		
1	1028	5.49	1.69	0	7.64	1.68	0		
1	1029	5.46	1.88	0	7.58	1.80	0		
1	1030	5.42	1.96	0	7.61	1.86	0		
1	1031	5.45	1.99	0	7.65	1.86	0		
1	1032	5.44	2.01	0	7.68	1.86	0		
1	1033	5.43	2.02	0	7.69	1.83	0		
1	1034	5.43	2.03	0	7.70	1.82	0		
1	1035	5.43	2.01	0	7.69	1.82	0		
1	1036	5.43	2.02	0	7.69	1.81	0		
1	1037	5.43	2.02	0	7.68	1.81	0		
1	1038	5.42	2.02	0	7.67	1.80	0		
1	1039	5.43	2.02	0	7.67	1.81	0		
1	1040	5.43	2.02	0	7.66	1.82	0		
1	1041	5.43	2.01	0	7.67	1.82	0		
1	1042	5.43	2.03	0	7.69	1.83	0		
1	1043	5.43	2.02	0	7.69	1.83	0		
1	1044	5.44	2.01	0	7.69	1.84	0		
1	1045	5.45	1.99	0	7.67	1.87	0		
1	1046	5.42	1.96	0	7.64	1.87	0		
1	1047	5.46	1.88	0	7.62	1.80	0		
1	1048	5.49	1.69	0	7.68	1.68	0		
1	1049	5.50	1.29	0	8.02	1.60	0		
1	1050	5.45	1.09	0	8.42	1.68	0		
1	1051	5.42	1.08	0	7.47	1.49	0		
1	1052	5.43	1.09	0	7.25	1.45	0		
1	1053	5.44	1.43	0	6.96	1.41	0		
1	1054	5.43	1.70	0	6.84	1.53	0		
1	1055	5.42	1.86	0	6.83	1.58	0		
1	1056	5.41	1.94	0	6.86	1.58	0		
1	1057	5.40	1.98	0	6.88	1.58	0		
1	1058	5.40	2.00	0	6.89	1.57	0		
1	1059	5.40	1.99	0	6.90	1.55	0		
1	1060	5.40	1.99	0	6.89	1.54	0		
1	1061	5.39	2.00	0	6.88	1.53	0		
1	1062	5.39	2.00	0	6.88	1.51	0		

ΤΑΦΡΟΣ T1 (3.00x2.80x1.50)m
CRACK CHECK (QUASI-PERMANENT COMBINATION)

Maximum Reinforcement [cm2/m]
(stored in data base file with reinforcement-distribution-no. 300)

Grp	Element	upper:As	Ast	dir	lower:As	Ast	dir	Ass[cm2/m2]	AssE[cm2]
1	1063	5.39	2.00	0	6.87	1.50	0		
1	1064	5.39	2.00	0	6.86	1.49	0		
1	1065	5.39	2.00	0	6.86	1.49	0		
1	1066	5.40	1.99	0	6.87	1.50	0		
1	1067	5.40	1.99	0	6.88	1.51	0		
1	1068	5.40	2.00	0	6.89	1.53	0		
1	1069	5.40	1.98	0	6.89	1.55	0		
1	1070	5.41	1.94	0	6.88	1.56	0		
1	1071	5.42	1.86	0	6.87	1.56	0		
1	1072	5.43	1.70	0	6.89	1.53	0		
1	1073	5.44	1.43	0	7.01	1.41	0		
1	1074	5.43	1.09	0	7.29	1.46	0		
1	1075	5.42	1.08	0	7.51	1.50	0		
1	1076	5.13	1.03	0	6.63	1.33	0		
1	1077	5.14	1.03	0	6.48	1.30	0		
1	1078	5.16	1.17	0	6.31	1.26	0		
1	1079	5.16	1.45	0	6.22	1.41	0		
1	1080	5.14	1.64	0	6.20	1.49	0		
1	1081	5.12	1.75	0	6.21	1.50	0		
1	1082	5.17	1.79	0	6.22	1.49	0		
1	1083	5.12	1.81	0	6.22	1.48	0		
1	1084	5.11	1.83	0	6.21	1.46	0		
1	1085	5.16	1.83	0	6.21	1.45	0		
1	1086	5.16	1.84	0	6.20	1.43	0		
1	1087	5.16	1.84	0	6.19	1.42	0		
1	1088	5.16	1.84	0	6.18	1.42	0		
1	1089	5.16	1.84	0	6.17	1.41	0		
1	1090	5.16	1.84	0	6.16	1.40	0		
1	1091	5.16	1.83	0	6.18	1.40	0		
1	1092	5.11	1.83	0	6.20	1.42	0		
1	1093	5.12	1.81	0	6.21	1.44	0		
1	1094	5.17	1.79	0	6.22	1.46	0		
1	1095	5.12	1.75	0	6.23	1.47	0		
1	1096	5.14	1.64	0	6.24	1.47	0		
1	1097	5.16	1.45	0	6.28	1.40	0		
1	1098	5.16	1.17	0	6.37	1.27	0		
1	1099	5.14	1.03	0	6.54	1.31	0		
1	1100	5.13	1.03	0	6.68	1.34	0		
1	1101	4.76	0.95	0	6.17	1.23	0		
1	1102	4.73	0.95	0	5.87	1.17	0		
1	1103	4.71	1.09	0	5.76	1.15	0		
1	1104	4.68	1.28	0	5.75	1.31	0		
1	1105	4.71	1.41	0	5.74	1.41	0		
1	1106	4.70	1.47	0	5.73	1.43	0		
1	1107	4.69	1.53	0	5.72	1.43	0		
1	1108	4.69	1.55	0	5.70	1.41	0		
1	1109	4.69	1.57	0	5.69	1.40	0		
1	1110	4.69	1.57	0	5.67	1.39	0		
1	1111	4.69	1.57	0	5.66	1.38	0		
1	1112	4.69	1.57	0	5.65	1.37	0		
1	1113	4.69	1.57	0	5.64	1.36	0		
1	1114	4.69	1.57	0	5.63	1.35	0		
1	1115	4.69	1.57	0	5.63	1.34	0		
1	1116	4.69	1.57	0	5.64	1.34	0		
1	1117	4.69	1.57	0	5.67	1.35	0		
1	1118	4.69	1.55	0	5.69	1.37	0		
1	1119	4.69	1.53	0	5.72	1.39	0		
1	1120	4.70	1.47	0	5.74	1.40	0		
1	1121	4.71	1.41	0	5.77	1.38	0		
1	1122	4.68	1.28	0	5.80	1.29	0		
1	1123	4.71	1.09	0	5.83	1.17	0		
1	1124	4.73	0.95	0	5.97	1.19	0		
1	1125	4.76	0.95	0	6.27	1.25	0		
1	1126	4.18	0.84	0	5.96	1.19	0		
1	1127	4.21	0.84	0	5.63	1.13	0		
1	1128	4.13	1.00	0	5.40	1.08	0		
1	1129	4.12	1.10	0	5.46	1.26	0		
1	1130	4.08	1.15	0	5.46	1.36	0		
1	1131	4.10	1.19	0	5.43	1.38	0		
1	1132	4.09	1.21	0	5.40	1.38	0		
1	1133	4.08	1.24	0	5.37	1.37	0		
1	1134	4.08	1.25	0	5.34	1.37	0		
1	1135	4.08	1.24	0	5.33	1.36	0		
1	1136	4.07	1.24	0	5.31	1.36	0		
1	1137	4.07	1.24	0	5.30	1.35	0		
1	1138	4.07	1.23	0	5.30	1.35	0		
1	1139	4.07	1.24	0	5.29	1.35	0		
1	1140	4.07	1.24	0	5.29	1.34	0		

ΤΑΦΡΟΣ T1 (3.00x2.80x1.50)m
CRACK CHECK (QUASI-PERMANENT COMBINATION)

Maximum Reinforcement [cm2/m]
(stored in data base file with reinforcement-distribution-no. 300)

Grp	Element	upper:As	Ast	dir	lower:As	Ast	dir	Ass[cm2/m2]	AssE[cm2]
1	1141	4.08	1.24	0	5.29	1.33	0		
1	1142	4.08	1.25	0	5.31	1.32	0		
1	1143	4.08	1.24	0	5.34	1.33	0		
1	1144	4.09	1.21	0	5.38	1.34	0		
1	1145	4.10	1.19	0	5.43	1.34	0		
1	1146	4.08	1.15	0	5.48	1.32	0		
1	1147	4.12	1.10	0	5.51	1.23	0		
1	1148	4.13	1.00	0	5.49	1.10	0		
1	1149	4.21	0.84	0	5.78	1.16	0		
1	1150	4.18	0.84	0	6.09	1.22	0		
1	1151	3.16	0.65	0	5.78	1.16	0		
1	1152	3.50	0.86	0	5.55	1.11	0		
1	1153	3.45	0.91	0	5.38	1.12	0		
1	1154	3.43	0.92	0	5.41	1.24	0		
1	1155	3.40	0.90	0	5.38	1.33	0		
1	1156	3.38	0.89	0	5.32	1.36	0		
1	1157	3.38	0.89	0	5.27	1.37	0		
1	1158	3.37	0.89	0	5.23	1.38	0		
1	1159	3.36	0.90	0	5.21	1.38	0		
1	1160	3.36	0.90	0	5.19	1.38	0		
1	1161	3.35	0.90	0	5.18	1.39	0		
1	1162	3.35	0.89	0	5.17	1.39	0		
1	1163	3.35	0.89	0	5.17	1.39	0		
1	1164	3.35	0.89	0	5.17	1.39	0		
1	1165	3.35	0.90	0	5.18	1.38	0		
1	1166	3.36	0.90	0	5.19	1.38	0		
1	1167	3.36	0.90	0	5.20	1.37	0		
1	1168	3.37	0.89	0	5.22	1.35	0		
1	1169	3.38	0.89	0	5.25	1.33	0		
1	1170	3.38	0.89	0	5.30	1.31	0		
1	1171	3.40	0.90	0	5.38	1.28	0		
1	1172	3.43	0.92	0	5.46	1.25	0		
1	1173	3.45	0.91	0	5.58	1.21	0		
1	1174	3.50	0.86	0	5.78	1.16	0		
1	1175	3.16	0.65	0	5.98	1.20	0		
2	2001	0.44	2.19	0	1.38	6.89	0		
2	2002	0.20	1.02	0	0.86	4.29	0		
2	2003	0.08	0.26	0	0.51	2.56	0		
2	2004	0.07	0.01	0	0.24	1.18	0		
2	2005	0.08	0.04	0	0.10	0.51	0		
2	2006	0.06	0.02	0	0.07	0.12	0		
2	2007	0.57	2.79	0	1.64	6.28	0		
2	2008	0.24	1.20	0	0.94	4.05	0		
2	2009	0.08	0.30	0	0.48	2.39	0		
2	2010	0.13	0.03	0	0.24	1.18	0		
2	2011	0.17	0.06	0	0.12	0.51	0		
2	2012	0.17	0.03	0	0.10	0.12	0		
2	2013	0.69	2.86	0	1.71	6.28	0		
2	2014	0.28	1.27	0	1.07	3.80	0		
2	2015	0.08	0.33	0	0.54	2.27	0		
2	2016	0.13	0.03	0	0.26	1.16	0		
2	2017	0.20	0.06	0	0.17	0.53	0		
2	2018	0.24	0.05	0	0.15	0.12	0		
2	2019	0.73	2.84	0	1.81	6.44	0		
2	2020	0.34	1.27	0	1.03	3.75	0		
2	2021	0.11	0.33	0	0.56	2.18	0		
2	2022	0.13	0.03	0	0.31	1.10	0		
2	2023	0.19	0.07	0	0.22	0.51	0		
2	2024	0.28	0.06	0	0.22	0.14	0		
2	2025	0.72	2.82	0	1.84	6.49	0		
2	2026	0.37	1.27	0	1.03	3.82	0		
2	2027	0.14	0.33	0	0.54	2.17	0		
2	2028	0.14	0.03	0	0.32	1.07	0		
2	2029	0.15	0.08	0	0.25	0.48	0		
2	2030	0.29	0.06	0	0.27	0.13	0		
2	2031	0.70	2.79	0	1.84	6.50	0		
2	2032	0.37	1.25	0	1.05	3.87	0		
2	2033	0.15	0.33	0	0.52	2.18	0		
2	2034	0.15	0.04	0	0.31	1.06	0		
2	2035	0.14	0.09	0	0.26	0.46	0		
2	2036	0.26	0.07	0	0.30	0.12	0		
2	2037	0.68	2.77	0	1.86	6.49	0		
2	2038	0.36	1.24	0	1.05	3.89	0		
2	2039	0.15	0.32	0	0.54	2.20	0		
2	2040	0.16	0.05	0	0.31	1.06	0		
2	2041	0.15	0.10	0	0.26	0.45	0		
2	2042	0.22	0.08	0	0.32	0.13	0		
2	2043	0.67	2.72	0	1.87	6.49	0		

ΤΑΦΡΟΣ T1 (3.00x2.80x1.50)m
CRACK CHECK (QUASI-PERMANENT COMBINATION)

Maximum Reinforcement [cm2/m]
(stored in data base file with reinforcement-distribution-no. 300)

Grp	Element	upper:As	Ast	dir	lower:As	Ast	dir	Ass[cm2/m2]	AssE[cm2]
2	2044	0.35	1.22	0	1.05	3.89	0		
2	2045	0.15	0.31	0	0.55	2.22	0		
2	2046	0.17	0.05	0	0.31	1.07	0		
2	2047	0.17	0.11	0	0.26	0.47	0		
2	2048	0.21	0.08	0	0.32	0.14	0		
2	2049	0.66	2.68	0	1.87	6.48	0		
2	2050	0.35	1.20	0	1.06	3.89	0		
2	2051	0.14	0.30	0	0.56	2.22	0		
2	2052	0.18	0.05	0	0.31	1.08	0		
2	2053	0.18	0.12	0	0.26	0.48	0		
2	2054	0.21	0.09	0	0.30	0.14	0		
2	2055	0.65	2.70	0	1.87	6.47	0		
2	2056	0.34	1.20	0	1.06	3.88	0		
2	2057	0.13	0.30	0	0.56	2.22	0		
2	2058	0.18	0.05	0	0.31	1.08	0		
2	2059	0.19	0.12	0	0.26	0.48	0		
2	2060	0.21	0.10	0	0.27	0.15	0		
2	2061	0.65	2.70	0	1.87	6.47	0		
2	2062	0.33	1.19	0	1.06	3.88	0		
2	2063	0.13	0.30	0	0.56	2.22	0		
2	2064	0.19	0.05	0	0.31	1.09	0		
2	2065	0.18	0.12	0	0.26	0.48	0		
2	2066	0.21	0.11	0	0.27	0.15	0		
2	2067	0.64	2.67	0	1.86	6.46	0		
2	2068	0.33	1.19	0	1.07	3.87	0		
2	2069	0.12	0.29	0	0.55	2.22	0		
2	2070	0.19	0.05	0	0.31	1.09	0		
2	2071	0.18	0.12	0	0.27	0.48	0		
2	2072	0.21	0.11	0	0.27	0.14	0		
2	2073	0.64	2.67	0	1.86	6.46	0		
2	2074	0.32	1.19	0	1.07	3.87	0		
2	2075	0.12	0.29	0	0.55	2.22	0		
2	2076	0.19	0.04	0	0.31	1.09	0		
2	2077	0.18	0.12	0	0.27	0.48	0		
2	2078	0.21	0.10	0	0.28	0.14	0		
2	2079	0.64	2.67	0	1.86	6.46	0		
2	2080	0.33	1.19	0	1.07	3.87	0		
2	2081	0.12	0.29	0	0.55	2.22	0		
2	2082	0.19	0.05	0	0.32	1.09	0		
2	2083	0.18	0.12	0	0.27	0.48	0		
2	2084	0.21	0.11	0	0.29	0.14	0		
2	2085	0.65	2.70	0	1.87	6.47	0		
2	2086	0.33	1.19	0	1.06	3.87	0		
2	2087	0.13	0.30	0	0.56	2.22	0		
2	2088	0.19	0.05	0	0.32	1.09	0		
2	2089	0.18	0.12	0	0.28	0.48	0		
2	2090	0.21	0.11	0	0.29	0.13	0		
2	2091	0.65	2.70	0	1.87	6.47	0		
2	2092	0.34	1.20	0	1.06	3.87	0		
2	2093	0.13	0.30	0	0.56	2.22	0		
2	2094	0.18	0.05	0	0.32	1.08	0		
2	2095	0.19	0.12	0	0.28	0.47	0		
2	2096	0.21	0.10	0	0.29	0.13	0		
2	2097	0.66	2.68	0	1.87	6.48	0		
2	2098	0.35	1.20	0	1.06	3.88	0		
2	2099	0.14	0.30	0	0.56	2.22	0		
2	2100	0.18	0.05	0	0.32	1.08	0		
2	2101	0.18	0.12	0	0.27	0.47	0		
2	2102	0.21	0.09	0	0.30	0.13	0		
2	2103	0.67	2.72	0	1.87	6.49	0		
2	2104	0.35	1.22	0	1.05	3.89	0		
2	2105	0.15	0.31	0	0.55	2.21	0		
2	2106	0.17	0.05	0	0.32	1.08	0		
2	2107	0.17	0.11	0	0.27	0.47	0		
2	2108	0.21	0.08	0	0.32	0.13	0		
2	2109	0.68	2.77	0	1.86	6.49	0		
2	2110	0.36	1.24	0	1.05	3.89	0		
2	2111	0.15	0.32	0	0.54	2.21	0		
2	2112	0.16	0.05	0	0.32	1.07	0		
2	2113	0.15	0.10	0	0.27	0.47	0		
2	2114	0.23	0.08	0	0.33	0.13	0		
2	2115	0.70	2.79	0	1.84	6.50	0		
2	2116	0.37	1.25	0	1.05	3.87	0		
2	2117	0.15	0.33	0	0.52	2.19	0		
2	2118	0.15	0.04	0	0.33	1.07	0		
2	2119	0.14	0.09	0	0.27	0.47	0		
2	2120	0.25	0.07	0	0.31	0.13	0		
2	2121	0.72	2.82	0	1.84	6.49	0		

ΤΑΦΡΟΣ T1 (3.00x2.80x1.50)m
CRACK CHECK (QUASI-PERMANENT COMBINATION)

Maximum Reinforcement [cm2/m]
(stored in data base file with reinforcement-distribution-no. 300)

Grp	Element	upper:As	Ast	dir	lower:As	Ast	dir	Ass[cm2/m2]	AssE[cm2]
2	2122	0.37	1.27	0	1.03	3.83	0		
2	2123	0.14	0.33	0	0.54	2.18	0		
2	2124	0.14	0.03	0	0.33	1.08	0		
2	2125	0.15	0.08	0	0.26	0.49	0		
2	2126	0.29	0.06	0	0.28	0.14	0		
2	2127	0.73	2.84	0	1.81	6.44	0		
2	2128	0.34	1.27	0	1.03	3.77	0		
2	2129	0.11	0.33	0	0.56	2.20	0		
2	2130	0.13	0.03	0	0.33	1.12	0		
2	2131	0.19	0.07	0	0.23	0.52	0		
2	2132	0.28	0.06	0	0.22	0.15	0		
2	2133	0.69	2.86	0	1.71	6.28	0		
2	2134	0.28	1.27	0	1.07	3.82	0		
2	2135	0.08	0.33	0	0.54	2.29	0		
2	2136	0.13	0.03	0	0.27	1.18	0		
2	2137	0.20	0.06	0	0.17	0.54	0		
2	2138	0.24	0.05	0	0.15	0.12	0		
2	2139	0.57	2.79	0	1.64	6.28	0		
2	2140	0.24	1.20	0	0.95	4.08	0		
2	2141	0.08	0.30	0	0.48	2.41	0		
2	2142	0.13	0.03	0	0.24	1.20	0		
2	2143	0.17	0.06	0	0.12	0.52	0		
2	2144	0.17	0.03	0	0.10	0.12	0		
2	2145	0.44	2.19	0	1.38	6.89	0		
2	2146	0.20	1.02	0	0.86	4.31	0		
2	2147	0.08	0.26	0	0.51	2.55	0		
2	2148	0.07	0.01	0	0.24	1.18	0		
2	2149	0.08	0.04	0	0.10	0.50	0		
2	2150	0.06	0.02	0	0.07	0.12	0		
3	3001	0.22	0.14	0	0.80	3.98	0		
3	3002	0.25	0.60	0	0.92	3.68	0		
3	3003	0.25	0.65	0	1.06	3.82	0		
3	3004	0.23	0.60	0	1.04	3.87	0		
3	3005	0.20	0.54	0	1.03	3.84	0		
3	3006	0.16	0.49	0	1.02	3.80	0		
3	3007	0.13	0.45	0	1.01	3.76	0		
3	3008	0.08	0.42	0	1.00	3.73	0		
3	3009	0.11	0.40	0	1.00	3.70	0		
3	3010	0.11	0.39	0	0.99	3.68	0		
3	3011	0.10	0.39	0	0.99	3.66	0		
3	3012	0.10	0.39	0	0.99	3.65	0		
3	3013	0.10	0.39	0	1.00	3.66	0		
3	3014	0.10	0.39	0	1.01	3.67	0		
3	3015	0.10	0.39	0	1.02	3.68	0		
3	3016	0.11	0.39	0	1.03	3.70	0		
3	3017	0.11	0.40	0	1.05	3.73	0		
3	3018	0.08	0.42	0	1.06	3.77	0		
3	3019	0.13	0.45	0	1.09	3.82	0		
3	3020	0.16	0.49	0	1.11	3.89	0		
3	3021	0.20	0.54	0	1.15	3.97	0		
3	3022	0.23	0.60	0	1.19	4.04	0		
3	3023	0.25	0.65	0	1.24	4.05	0		
3	3024	0.25	0.60	0	1.12	3.97	0		
3	3025	0.22	0.14	0	0.86	4.28	0		
3	3026	0.04	0.01	0	0.47	2.35	0		
3	3027	0.10	0.07	0	0.63	2.17	0		
3	3028	0.07	0.11	0	0.81	2.22	0		
3	3029	0.06	0.09	0	0.85	2.32	0		
3	3030	0.04	0.05	0	0.83	2.33	0		
3	3031	0.01	0.03	0	0.80	2.31	0		
3	3032			0	0.77	2.27	0		
3	3033			0	0.74	2.23	0		
3	3034		0.02	0	0.71	2.20	0		
3	3035		0.02	0	0.69	2.18	0		
3	3036		0.02	0	0.68	2.16	0		
3	3037		0.02	0	0.66	2.14	0		
3	3038		0.02	0	0.67	2.15	0		
3	3039		0.02	0	0.69	2.16	0		
3	3040		0.02	0	0.71	2.18	0		
3	3041		0.02	0	0.73	2.21	0		
3	3042		0.02	0	0.76	2.24	0		
3	3043			0	0.80	2.29	0		
3	3044			0	0.86	2.35	0		
3	3045	0.01	0.03	0	0.91	2.42	0		
3	3046	0.04	0.05	0	0.98	2.48	0		
3	3047	0.06	0.09	0	1.04	2.51	0		
3	3048	0.07	0.11	0	1.04	2.47	0		
3	3049	0.10	0.07	0	0.88	2.48	0		

ΤΑΦΡΟΣ T1 (3.00x2.80x1.50)m
CRACK CHECK (QUASI-PERMANENT COMBINATION)

Maximum Reinforcement [cm2/m]
(stored in data base file with reinforcement-distribution-no. 300)

Grp	Element	upper:As	Ast	dir	lower:As	Ast	dir	Ass[cm2/m2]	AssE[cm2]
3	3050	0.05	0.01	0	0.54	2.68	0		
3	3051	0.09	0.02	0	0.29	1.14	0		
3	3052	0.13	0.03	0	0.45	1.09	0		
3	3053	0.14	0.03	0	0.60	1.10	0		
3	3054	0.14	0.03	0	0.68	1.17	0		
3	3055	0.13	0.03	0	0.68	1.20	0		
3	3056	0.13	0.03	0	0.64	1.18	0		
3	3057	0.12	0.02	0	0.58	1.14	0		
3	3058	0.11	0.02	0	0.53	1.11	0		
3	3059	0.10	0.02	0	0.49	1.08	0		
3	3060	0.07	0.01	0	0.46	1.05	0		
3	3061	0.06	0.01	0	0.43	1.03	0		
3	3062	0.05	0.01	0	0.41	1.01	0		
3	3063	0.05	0.01	0	0.41	1.02	0		
3	3064	0.05	0.01	0	0.43	1.04	0		
3	3065	0.06	0.01	0	0.46	1.06	0		
3	3066	0.07	0.01	0	0.50	1.08	0		
3	3067	0.10	0.02	0	0.55	1.12	0		
3	3068	0.11	0.02	0	0.61	1.16	0		
3	3069	0.12	0.02	0	0.68	1.22	0		
3	3070	0.13	0.03	0	0.77	1.28	0		
3	3071	0.13	0.03	0	0.85	1.33	0		
3	3072	0.14	0.03	0	0.90	1.35	0		
3	3073	0.14	0.03	0	0.87	1.33	0		
3	3074	0.17	0.03	0	0.88	1.66	0		
3	3075	0.21	0.04	0	0.63	1.78	0		
3	3076	0.13	0.03	0	0.20	0.38	0		
3	3077	0.24	0.05	0	0.36	0.45	0		
3	3078	0.27	0.05	0	0.51	0.44	0		
3	3079	0.26	0.05	0	0.61	0.46	0		
3	3080	0.26	0.05	0	0.61	0.43	0		
3	3081	0.26	0.05	0	0.55	0.41	0		
3	3082	0.25	0.05	0	0.47	0.38	0		
3	3083	0.24	0.05	0	0.40	0.37	0		
3	3084	0.22	0.05	0	0.34	0.34	0		
3	3085	0.19	0.04	0	0.31	0.32	0		
3	3086	0.14	0.03	0	0.27	0.30	0		
3	3087	0.12	0.03	0	0.24	0.29	0		
3	3088	0.13	0.03	0	0.21	0.29	0		
3	3089	0.12	0.03	0	0.24	0.31	0		
3	3090	0.14	0.03	0	0.29	0.32	0		
3	3091	0.19	0.04	0	0.32	0.34	0		
3	3092	0.22	0.05	0	0.37	0.36	0		
3	3093	0.24	0.05	0	0.44	0.39	0		
3	3094	0.25	0.05	0	0.53	0.43	0		
3	3095	0.26	0.05	0	0.63	0.47	0		
3	3096	0.26	0.05	0	0.73	0.51	0		
3	3097	0.27	0.05	0	0.78	0.53	0		
3	3098	0.28	0.06	0	0.72	0.54	0		
3	3099	0.29	0.13	0	0.71	0.69	0		
3	3100	0.30	0.08	0	0.47	0.66	0		

REINFORCEMENT INDEX [kg netto]: 206.8 (Upper)
349.6 (Lower)
0.0 (Shear)

ΤΑΦΡΟΣ T1 (3.00x2.80x1.50)m

7.2 ΕΛΕΓΧΟΣ ΤΑΣΕΩΝ ΣΚΥΡΟΔΕΜΑΤΟΣ <0.45 Fck

ΤΑΦΡΟΣ T1 (3.00x2.80x1.50)m
CONC.STRESS<0.45 Fck (QUASI-PERMANENT COMB.)

Maximum of reinforcement-distributions
The reinforcement maximum was build out of the numbers of reinforcement-distributions:
300
and stored as new reinforcement-distribution 1 .

Design according to EN 1992-1-1:2004(EC2)
Loadcases have been calculated in the Ultimate Limit State
In BEMESS no additional load safety factor is applied.

Load Cases for the Design

Loadcase 1101 MAX-MX QUAK SLS_01
Loadcase 1102 MIN-MX QUAK SLS_01
Loadcase 1103 MAX-MY QUAK SLS_01
Loadcase 1104 MIN-MY QUAK SLS_01
Loadcase 1105 MAX-MXY QUAK SLS_01
Loadcase 1106 MIN-MXY QUAK SLS_01
Loadcase 1107 MAX-VX QUAK SLS_01
Loadcase 1108 MIN-VX QUAK SLS_01
Loadcase 1109 MAX-VY QUAK SLS_01
Loadcase 1110 MIN-VY QUAK SLS_01
Loadcase 1111 MAX-NXX QUAK SLS_01
Loadcase 1112 MIN-NXX QUAK SLS_01
Loadcase 1113 MAX-NYY QUAK SLS_01
Loadcase 1114 MIN-NYY QUAK SLS_01
Loadcase 1115 MAX-NXY QUAK SLS_01
Loadcase 1116 MIN-NXY QUAK SLS_01

Load Cases - with factors of dead load in per cent

LcNo	per cent	LcNo	per cent	LcNo	per cent	LcNo	per cent	LcNo	per cent
1101	100.0	1102	100.0	1103	100.0	1104	100.0	1105	100.0
1106	100.0	1107	100.0	1108	100.0	1109	100.0	1110	100.0
1111	100.0	1112	100.0	1113	100.0	1114	100.0	1115	100.0
1116	100.0								

Material (EN 1992-1-1:2004(EC2))

Mat	f-ck [MPa]	f-cr [MPa]	f-yk [MPa]	f-tk [MPa]	f-ctm [MPa]	N [-]	minQ [-]	type
1	25.0	21.2			2.565	6.4	0.20	mainly static
2	25.0	21.2			2.565	6.4	0.20	mainly static
10			500.0	545.0				
11	25.0	21.2			2.565	6.4	0.20	mainly static
22	25.0	21.2			2.565	6.4	0.20	mainly static

Minimum reinforcement: 0.00 p.c. of stat. req. section

Reduction of FC in case of transvers tension = 20.0 [o/o]

At direct supports from the face of the support up to 1.0*d the shear force is reduced.
The maximum shear capacity is checked at the face of the support without reduction.

The punching design has been switched off and must be done separately.
Outside the punching area, the normal slab shear design may increase the,
longitudinal reinforcement up to 0.20% [input CTRL...RO_V].

Geometry (axial covers)

No	he-upper [mm]	hi-upper [mm]	he-lower [mm]	hi-lower [mm]	Elem. height [mm]
1	60	72	80	92	As saved
2	50	62	50	62	As saved

SERVICEABILITY LIMIT STATE CONTROL PARAMETERS

No	Code	sigS	sigT	CHKC	CHKS
1	EC2	-	-	0.45	-

0.0 (Lower)
Stress check: CHKC = concrete - factor to fck, CHKS = steel - factor to fyk

Selection of elements

	from	to	inc	group	GEOMETRY
Element	1001	1999	1	-	1
Element	2001	2999	1	-	2
Element	3001	3999	1	-	2
Element	4001	4999	1	-	2

Maximum of stored and calculated reinforcement is saved
Number of stored reinforcement-distribution: 1
Punching design values were taken from reinforcement distribution no. 300

Reinforcement was not increased by live-load design in this run

ΤΑΦΡΟΣ T1 (3.00x2.80x1.50)m
CONC.STRESS<0.45 Fck (QUASI-PERMANENT COMB.)

Steel stress, concrete pressure, stress range

E=ELEM N=NODE		stress range on top Asa [MPa]	Asm [MPa]	Asi [MPa]	stress range botton Asa [MPa]	Asm [MPa]	Asi [MPa]	links Ass [MPa]	concre sig-c [MPa]	steel-l sig-max [MPa]
E	1001	154.4	82.1		120.5	73.8			-4.1	154.1
E	1046	164.4	75.0		67.5	58.0			-3.6	164.2
E	1049	164.7	70.6		66.3	50.9			-3.6	164.1
E	1051	161.2	29.9		52.3	31.1			-4.2	160.8
E	2001	76.2	94.9		71.8	129.9			-3.9	136.8
E	2013	98.2	100.4		98.6	136.0			-4.1	135.7
E	2133	98.2	100.5		98.6	136.0			-4.1	135.7
The elements with the maximum values have been printed.										
Maximum		164.7	100.5		120.5	136.0		0.0	-4.2	164.2

The concrete stresses were checked - they are inside the allowable limits.
steel-l: longitudinal reinf. - links are also checked to CHKS but not printed!

ΤΑΦΡΟΣ Τ1 (3.00x2.80x1.50)m

7.3 ΕΛΕΓΧΟΣ ΤΑΣΕΩΝ ΣΚΥΡΟΔΕΜΑΤΟΣ <0.60 Fck & ΧΑΛΥΒΑ <0.80 Fyk

ΤΑΦΡΟΣ Τ1 (3.00x2.80x1.50)m
STRESS CHECK NON FREQUENT COMBINATION

Maximum of reinforcement-distributions
The reinforcement maximum was build out of the numbers of reinforcement-distributions:
300
and stored as new reinforcement-distribution 400 .

Design according to EN 1992-1-1:2004(EC2)
Loadcases have been calculated in the Serviceability State
In BEMESS no additional load safety factor is applied.

Load Cases for the Design

Loadcase 1121 MAX-MX QUAK SLS_01
Loadcase 1122 MIN-MX QUAK SLS_01
Loadcase 1123 MAX-MY QUAK SLS_01
Loadcase 1124 MIN-MY QUAK SLS_01
Loadcase 1125 MAX-MXY QUAK SLS_01
Loadcase 1126 MIN-MXY QUAK SLS_01
Loadcase 1127 MAX-VX QUAK SLS_01
Loadcase 1128 MIN-VX QUAK SLS_01
Loadcase 1129 MAX-VY QUAK SLS_01
Loadcase 1130 MIN-VY QUAK SLS_01
Loadcase 1131 MAX-NXX QUAK SLS_01
Loadcase 1132 MIN-NXX QUAK SLS_01
Loadcase 1133 MAX-NYY QUAK SLS_01
Loadcase 1134 MIN-NYY QUAK SLS_01
Loadcase 1135 MAX-NXY QUAK SLS_01
Loadcase 1136 MIN-NXY QUAK SLS_01

Load Cases - with factors of dead load in per cent

LcNo	per cent	LcNo	per cent	LcNo	per cent	LcNo	per cent	LcNo	per cent
1121	100.0	1122	100.0	1123	100.0	1124	100.0	1125	100.0
1126	100.0	1127	100.0	1128	100.0	1129	100.0	1130	100.0
1131	100.0	1132	100.0	1133	100.0	1134	100.0	1135	100.0
1136	100.0								

Material (EN 1992-1-1:2004(EC2))

Mat	f-ck [MPa]	f-cr [MPa]	f-yk [MPa]	f-tk [MPa]	f-ctm [MPa]	N [-]	minQ [-]	type
1	25.0	21.2			2.565	6.4	0.20	mainly static
2	25.0	21.2			2.565	6.4	0.20	mainly static
10			500.0	545.0				
11	25.0	21.2			2.565	6.4	0.20	mainly static
22	25.0	21.2			2.565	6.4	0.20	mainly static

Minimum reinforcement: 0.00 p.c. of stat. req. section

Geometry (axial covers)

No	he-upper [mm]	hi-upper [mm]	he-lower [mm]	hi-lower [mm]	Elem. height [mm]
1	60	72	80	92	As saved
2	50	62	50	62	As saved

SERVICEABILITY LIMIT STATE CONTROL PARAMETERS

No	Code	sigS	sigT	CHKC	CHKS
1	EC2	-	-	0.60	0.80

0.0 (Lower)
Stress check: CHKC = concrete - factor to fck, CHKS = steel - factor to fyk

Selection of elements

	from	to	inc	group	GEOMETRY
Element	1001	1999	1	-	1
Element	2001	2999	1	-	2
Element	3001	3999	1	-	2
Element	4001	4999	1	-	2

Maximum of stored and calculated reinforcement is saved
Number of stored reinforcement-distribution: 400

Reinforcement was not increased by live-load design in this run

Steel stress, concrete pressure, stress range

E=ELEM N=NODE		stress range on top Asa [MPa]	Asm [MPa]	Asi [MPa]	stress range botton Asa [MPa]	Asm [MPa]	Asi [MPa]	links Ass [MPa]	concre sig-c [MPa]	steel-l sig-max [MPa]
E	1001	152.6	55.2		307.5	189.9			-9.7	315.1
E	1022	158.1	59.1		283.1	194.2			-10.2	313.2
E	1051	157.0	8.8		231.0	17.1			-7.4	247.2
E	1141	126.8	63.7		115.2	105.2			-3.6	145.2
E	2020	73.0	72.5		249.7	326.3			-6.7	336.2
E	2049	100.3	99.9		227.9	331.4			-8.7	331.0
E	2058	33.7	37.6		313.3	300.4			-3.4	313.1
E	2097	100.3	99.9		227.9	331.4			-8.7	331.0

ΤΑΦΡΟΣ T1 (3.00x2.80x1.50)m
STRESS CHECK NON FREQUENT COMBINATION

Steel stress, concrete pressure, stress range

E=ELEM N=NODE	stress range on top Asa [MPa]	Asm [MPa]	Asi [MPa]	stress range botton Asa [MPa]	Asm [MPa]	Asi [MPa]	links Ass [MPa]	concre sig-c [MPa]	steel-l sig-max [MPa]
E 3089	300.4	12.3		202.3	46.0			-0.3	300.3
The elements with the maximum values have been printed.									
Maximum	300.4	99.9		313.3	331.4		0.0	-10.2	336.2

The concrete stresses were checked - they are inside the allowable limits.
The steel stresses were checked - they are inside the allowable limits.
steel-l: longitudinal reinf. - links are also checked to CHKS but not printed!

ΤΑΦΡΟΣ T1 (3.00x2.80x1.50)m

8. ΕΛΕΓΧΟΣ ΤΑΣΕΩΝ ΕΔΑΦΟΥΣ ΘΕΜΕΛΙΩΣΗΣ (Q=1.00)

ΤΑΦΡΟΣ Τ1 (3.00x2.80x1.50)m

8.1 ΣΥΝΔΥΑΣΜΟΙ ΣΤΑΤΙΚΩΝ ΦΟΡΤΙΣΕΩΝ

ΤΑΦΡΟΣ Τ1 (3.00x2.80x1.50)m
ΣΥΝΔΥΑΣΜΟΙ BEDDING U.L.S. ΣΤΑΤΙΚΑ

Combination rule Number 1
comb. no.1 U.L.S.
Resulting loadcases type Design Combination
Loadcase selection

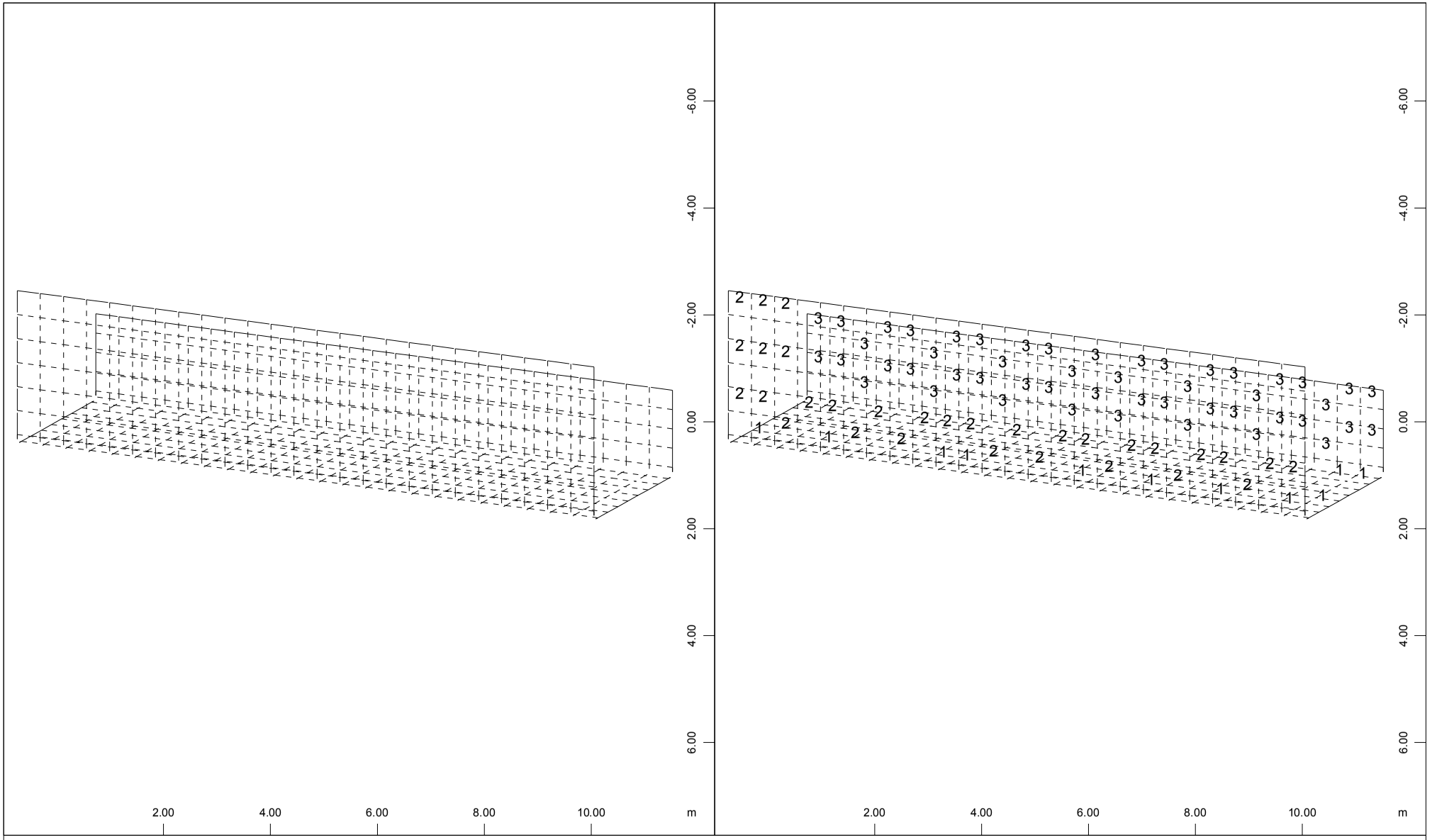
Number	factor	type		Title
1	1.35	Exclusive LC	AG	ΙΔΙΟ ΒΑΡΟΣ
2	1.00	Combined with LC		ΥΔΡΟΣΤΑΤΙΚΕΣ ΠΙΕΣΕΙΣ
1	1.35	Exclusive LC	AG	ΙΔΙΟ ΒΑΡΟΣ
2	1.00	Combined with LC		ΥΔΡΟΣΤΑΤΙΚΕΣ ΠΙΕΣΕΙΣ
1	1.00	Exclusive LC	AG	ΙΔΙΟ ΒΑΡΟΣ
2	1.00	Combined with LC		ΥΔΡΟΣΤΑΤΙΚΕΣ ΠΙΕΣΕΙΣ
1	1.00	Exclusive LC	AG	ΙΔΙΟ ΒΑΡΟΣ
2	1.00	Combined with LC		ΥΔΡΟΣΤΑΤΙΚΕΣ ΠΙΕΣΕΙΣ
1	1.35	Exclusive LC	AG	ΙΔΙΟ ΒΑΡΟΣ
2	1.35	Combined with LC		ΥΔΡΟΣΤΑΤΙΚΕΣ ΠΙΕΣΕΙΣ
1	1.35	Exclusive LC	AG	ΙΔΙΟ ΒΑΡΟΣ
2	1.35	Combined with LC		ΥΔΡΟΣΤΑΤΙΚΕΣ ΠΙΕΣΕΙΣ
1	1.00	Exclusive LC	AG	ΙΔΙΟ ΒΑΡΟΣ
2	1.35	Combined with LC		ΥΔΡΟΣΤΑΤΙΚΕΣ ΠΙΕΣΕΙΣ
1	1.00	Exclusive LC	AG	ΙΔΙΟ ΒΑΡΟΣ
2	1.35	Combined with LC		ΥΔΡΟΣΤΑΤΙΚΕΣ ΠΙΕΣΕΙΣ
1	1.35	Exclusive LC	AG	ΙΔΙΟ ΒΑΡΟΣ
3	1.50	Combined with LC		ΩΘΗΣΕΙΣ ΓΑΙΩΝ
1	1.35	Exclusive LC	AG	ΙΔΙΟ ΒΑΡΟΣ
3	1.00	Combined with LC		ΩΘΗΣΕΙΣ ΓΑΙΩΝ
1	1.00	Exclusive LC	AG	ΙΔΙΟ ΒΑΡΟΣ
3	1.50	Combined with LC		ΩΘΗΣΕΙΣ ΓΑΙΩΝ
1	1.00	Exclusive LC	AG	ΙΔΙΟ ΒΑΡΟΣ
3	1.00	Combined with LC		ΩΘΗΣΕΙΣ ΓΑΙΩΝ
1	1.35	Exclusive LC	AG	ΙΔΙΟ ΒΑΡΟΣ
3	1.50	Combined with LC		ΩΘΗΣΕΙΣ ΓΑΙΩΝ
1	1.35	Exclusive LC	AG	ΙΔΙΟ ΒΑΡΟΣ
3	1.00	Combined with LC		ΩΘΗΣΕΙΣ ΓΑΙΩΝ
1	1.00	Exclusive LC	AG	ΙΔΙΟ ΒΑΡΟΣ
3	1.50	Combined with LC		ΩΘΗΣΕΙΣ ΓΑΙΩΝ
1	1.00	Exclusive LC	AG	ΙΔΙΟ ΒΑΡΟΣ
3	1.00	Combined with LC		ΩΘΗΣΕΙΣ ΓΑΙΩΝ
6	0.90	Exclusive LC	A 2	ΟΜΟΙΟΜΟΡΦΗ ΘΕΡΜΟΚΡ. ΔΤ=+
7	0.90	Exclusive LC	A 2	ΟΜΟΙΟΜΟΡΦΗ ΘΕΡΜΟΚΡ. ΔΤ=-
4	1.35	Conditional LC		ULS design
5	1.35	Conditional LC		ΩΘΗΣΕΙΣ ΓΑΙΩΝ ΑΠΟ ΚΙΝΗΤΑ

Generated Loadcases

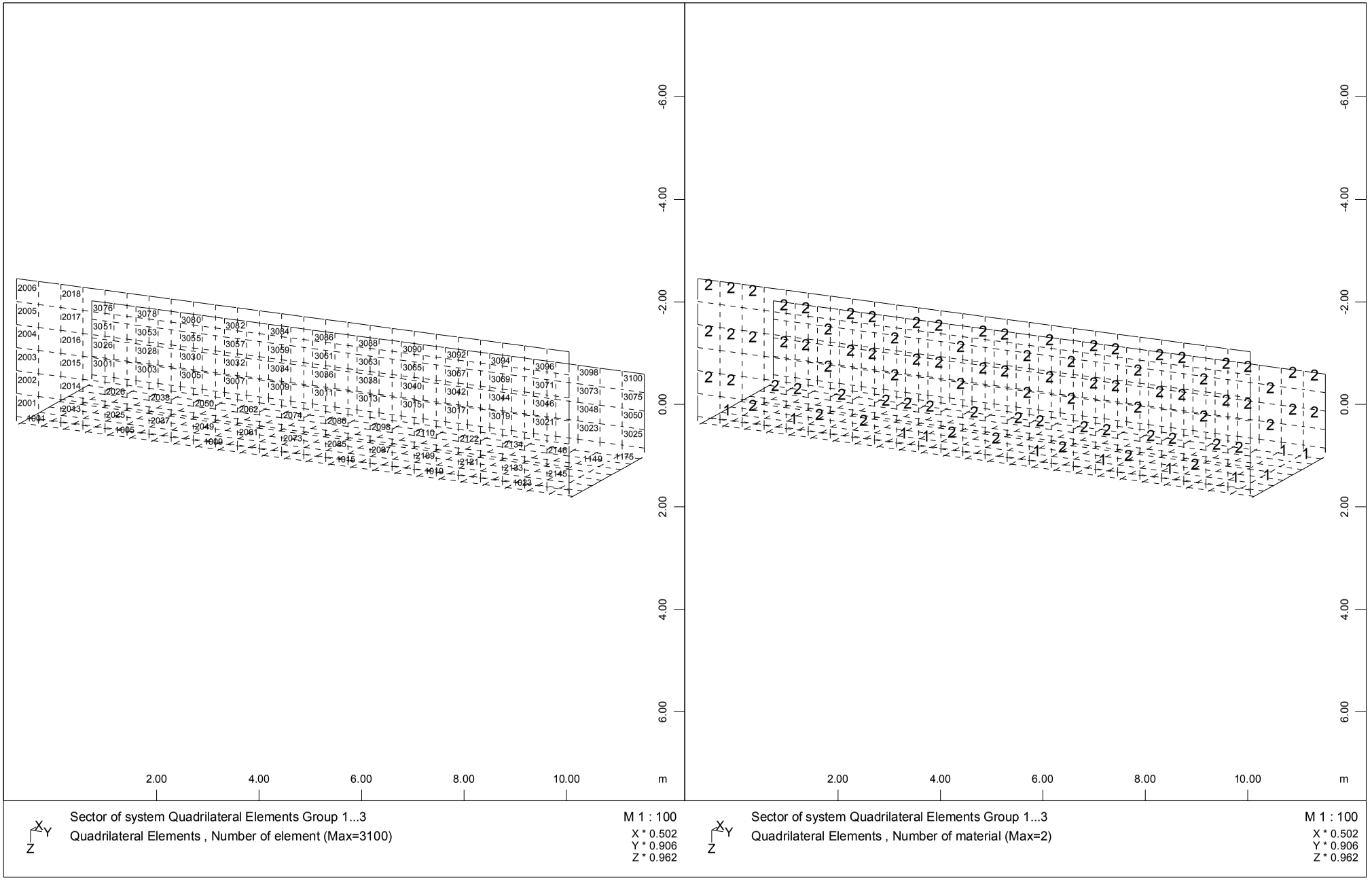
Number	Comb	Title
1201	1	MAX-P QUAD bedd.stres
1202	1	MIN-P QUAD bedd.stres

ΤΑΦΡΟΣ T1 (3.00x2.80x1.50)m

9.1 ΓΡΑΦΙΚΗ ΑΠΕΙΚΟΝΙΣΗ ΜΟΝΤΕΛΟΥ



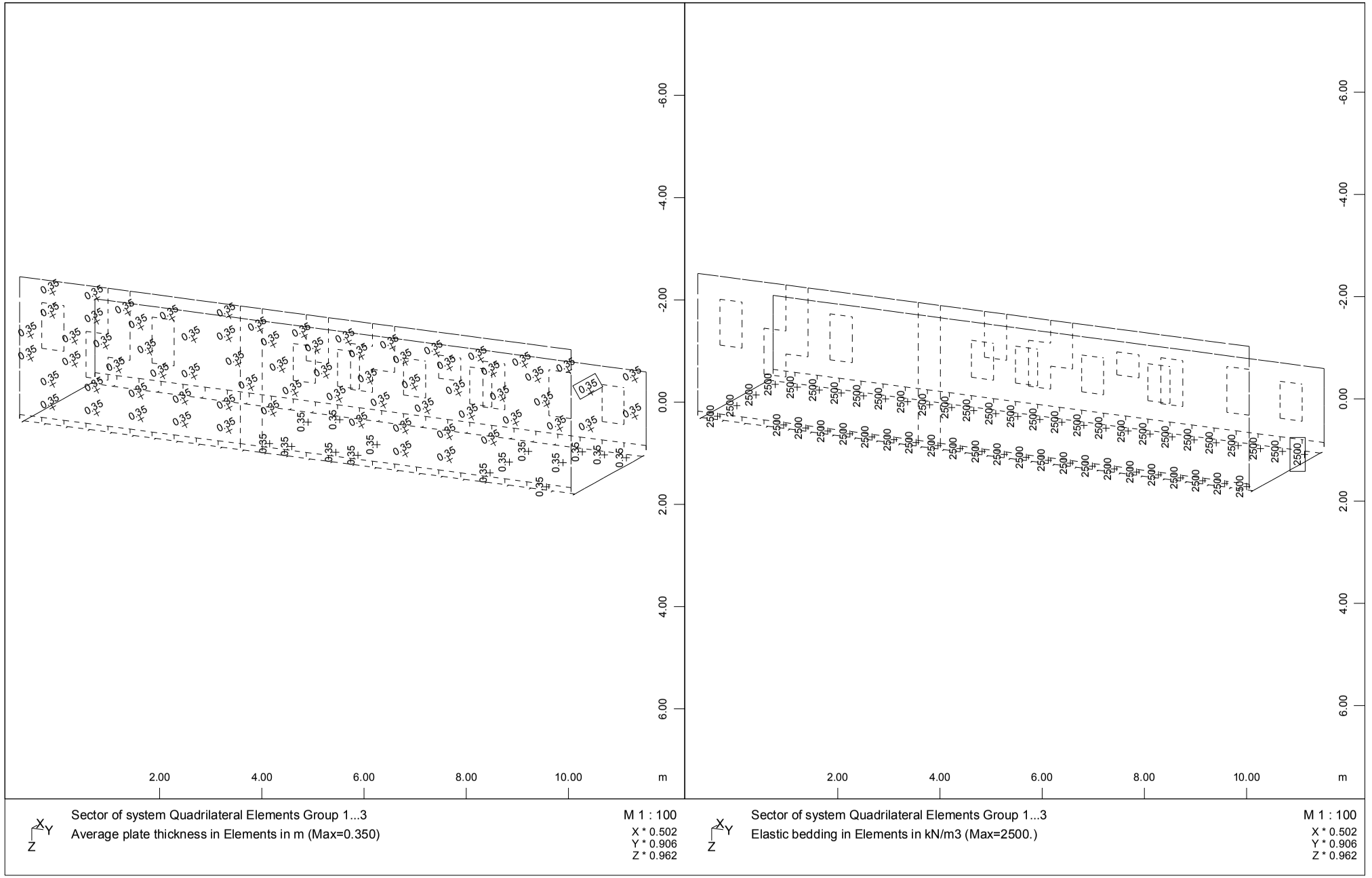
ΤΑΦΡΟΣ Τ1 (3.00x2.80x1.50)m

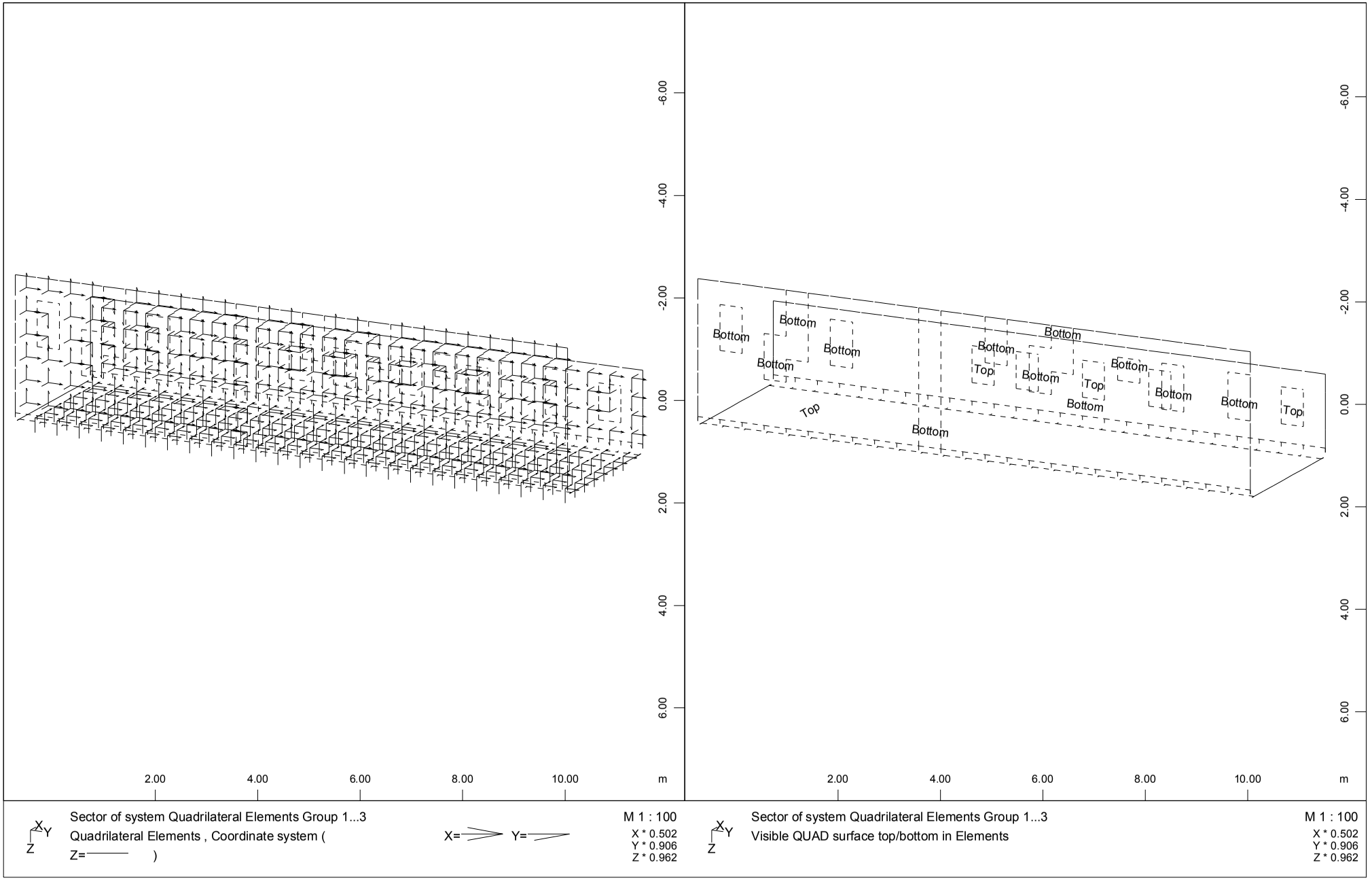


Sector of system Quadrilateral Elements Group 1...3
Quadrilateral Elements , Number of element (Max=3100)
M 1 : 100
X * 0.502
Y * 0.906
Z * 0.962

Sector of system Quadrilateral Elements Group 1...3
Quadrilateral Elements , Number of material (Max=2)
M 1 : 100
X * 0.502
Y * 0.906
Z * 0.962

ΤΑΦΡΟΣ Τ1 (3.00x2.80x1.50)m

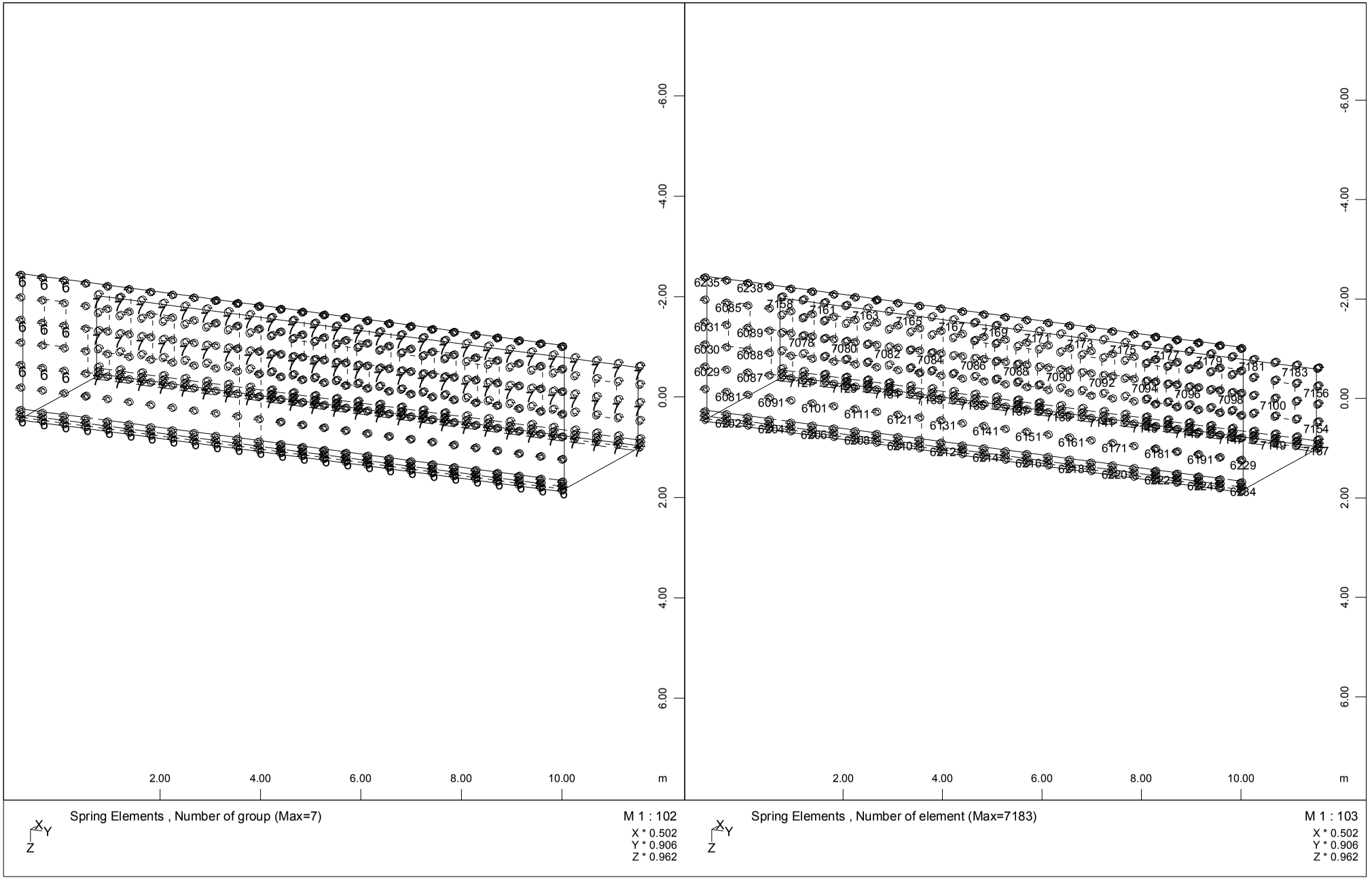

-6.00
-4.00
-2.00
0.00
2.00
4.00
6.00
2.00
4.00
6.00
8.00
10.00
m
0.35
2500
Sector of system Quadrilateral Elements Group 1...3
Average plate thickness in Elements in m (Max=0.350)
M 1 : 100
X * 0.502
Y * 0.906
Z * 0.962
Sector of system Quadrilateral Elements Group 1...3
Elastic bedding in Elements in kN/m3 (Max=2500.)
M 1 : 100
X * 0.502
Y * 0.906
Z * 0.962



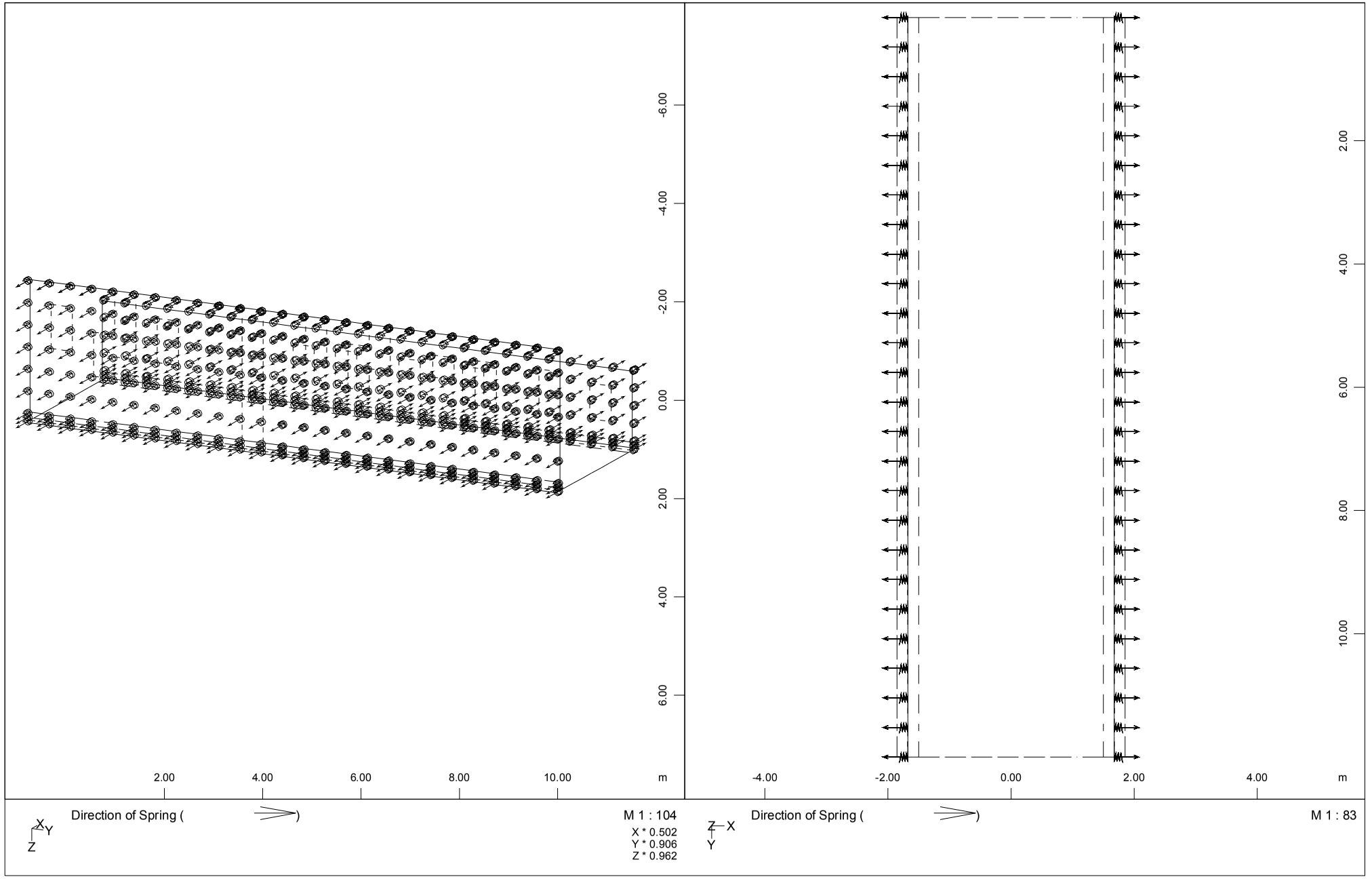
Sector of system Quadrilateral Elements Group 1...3
Quadrilateral Elements , Coordinate system (
Z=———)
X= Y=
M 1 : 100
X * 0.502
Y * 0.906
Z * 0.962

Sector of system Quadrilateral Elements Group 1...3
Visible QUAD surface top/bottom in Elements
M 1 : 100
X * 0.502
Y * 0.906
Z * 0.962

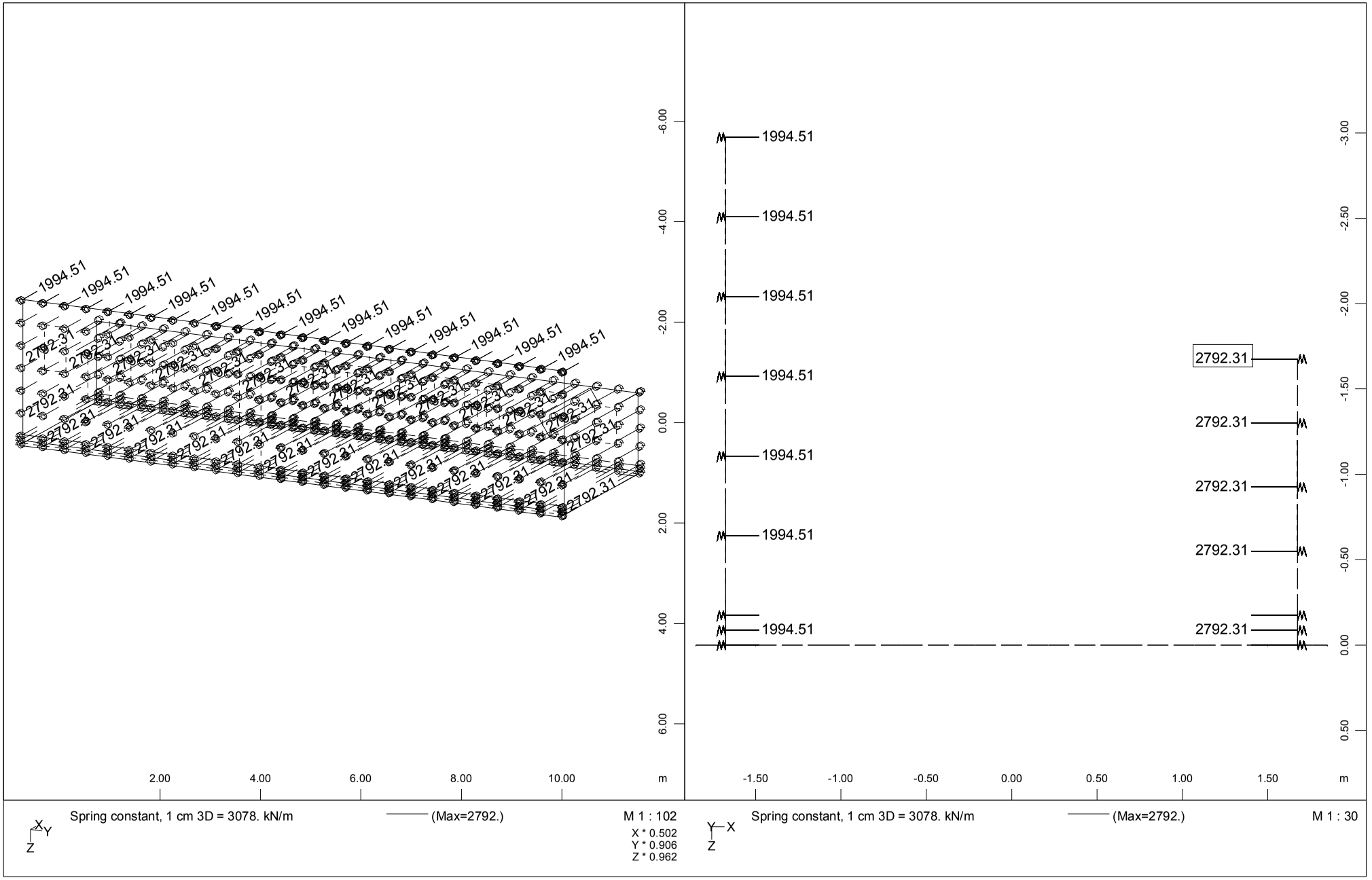
ΤΑΦΡΟΣ T1 (3.00x2.80x1.50)m



ΤΑΦΡΟΣ T1 (3.00x2.80x1.50)m



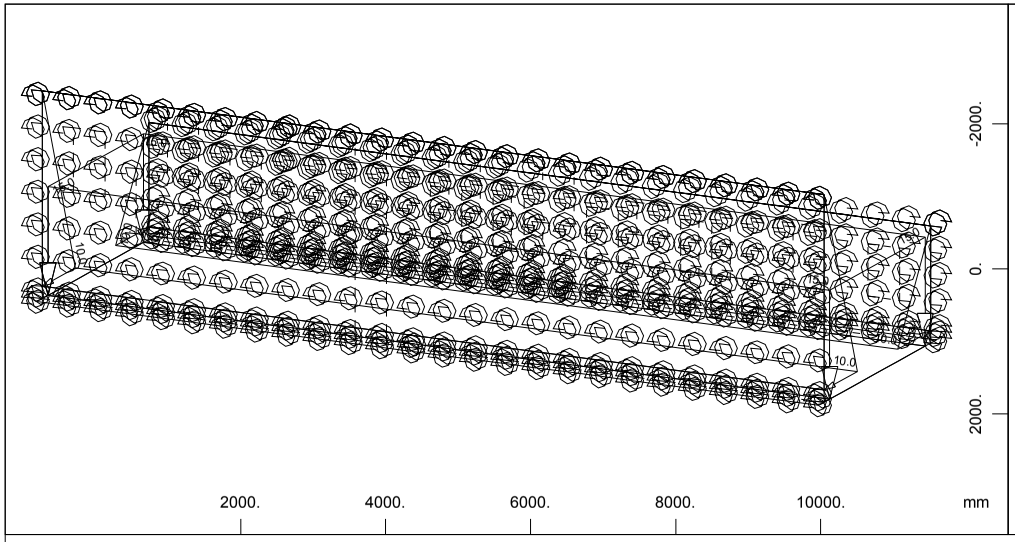
ΤΑΦΡΟΣ T1 (3.00x2.80x1.50)m



ΤΑΦΡΟΣ T1 (3.00x2.80x1.50)m

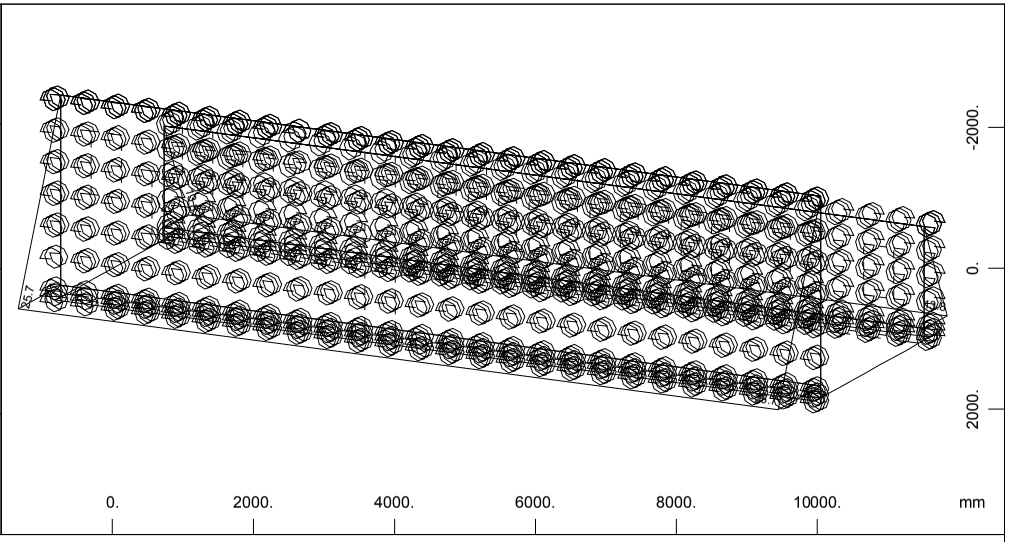
ΤΑΦΡΟΣ T1 (3.00x2.80x1.50)m

9.2 ΓΡΑΦΙΚΗ ΑΠΕΙΚΟΝΙΣΗ ΦΟΡΤΙΣΕΩΝ



All loads, Loadcase 2 ΥΔΡΟΣΤΑΤΙΚΕΣ ΠΙΕΣΕΙΣ , (1 cm 3D = unit) Free area load (force) in global X (Unit=10.0 kN/m2), Free area load (force) in global Z (Unit=10.0

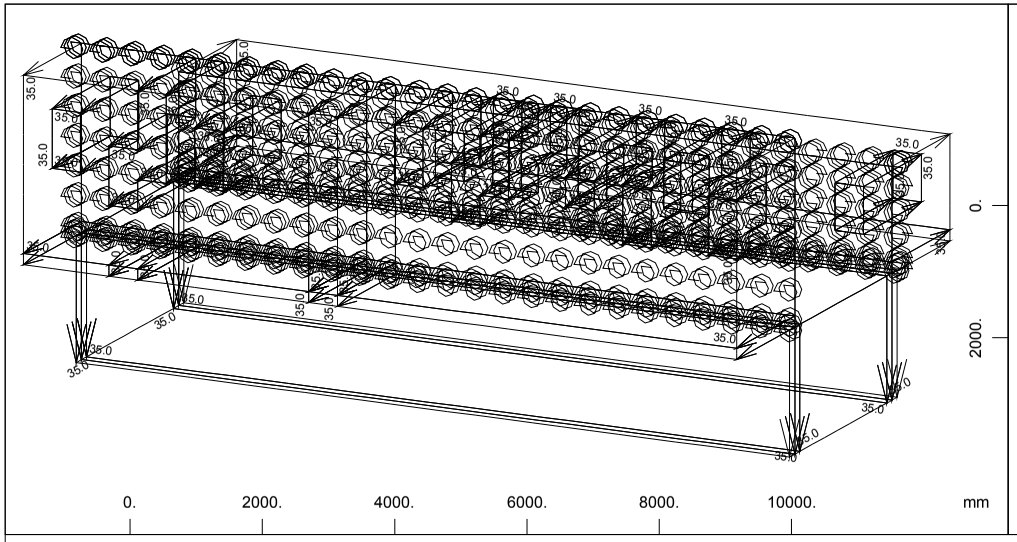
M 1 : 104
X * 0.502
Y * 0.906
Z * 0.962



All loads, Loadcase 3 ΩΘΗΣΕΙΣ ΓΑΙΩΝ , (1 cm 3D = unit) Free area load (force) in global X (Unit=20.0 kN/m2) (Min=-13.8) (Max=25.7)

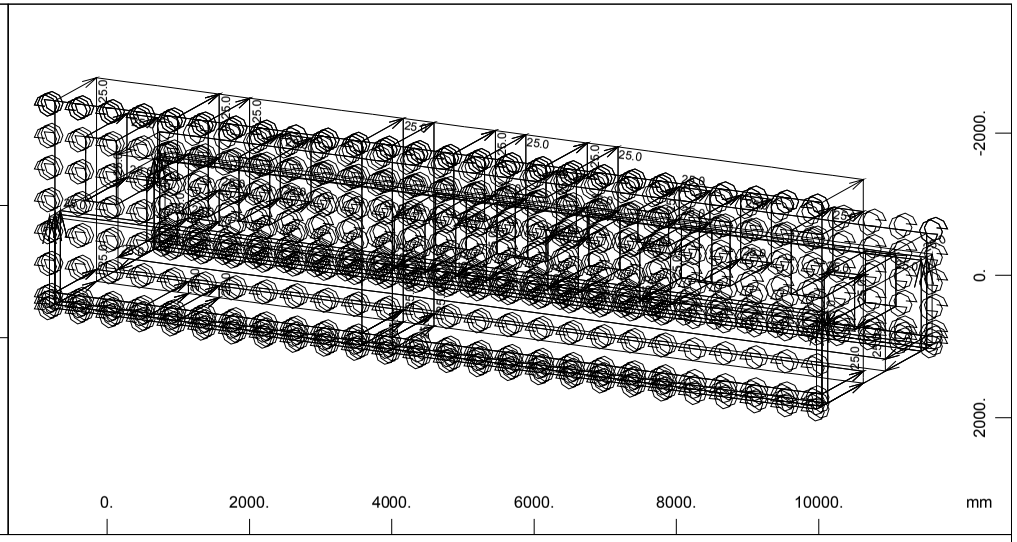
M 1 : 107
X * 0.502
Y * 0.906
Z * 0.962

ΤΑΦΡΟΣ Τ1 (3.00x2.80x1.50)m



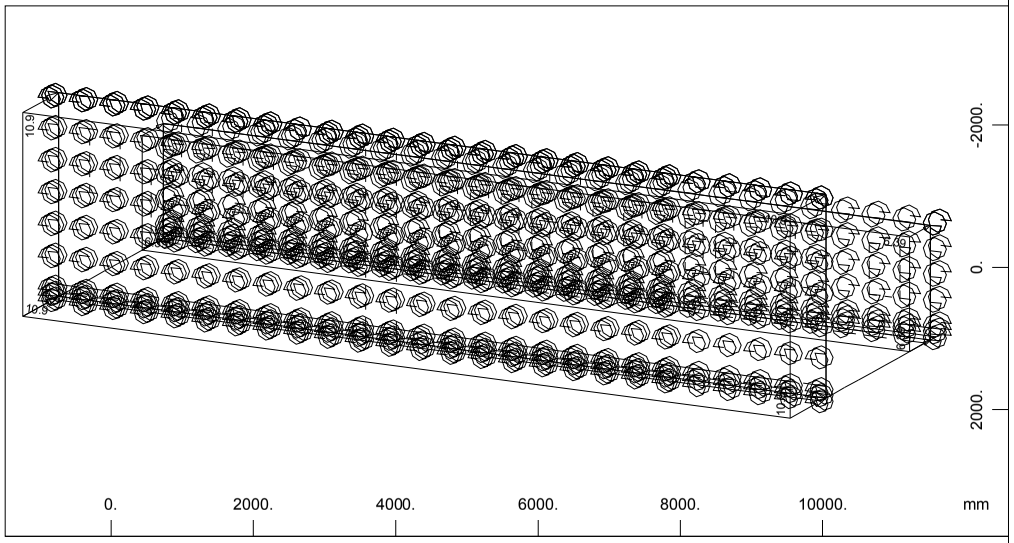
All loads, Loadcase 6 ΟΜΟΙΟΜΟΡΦΗ ΘΕΡΜΟΚΡ. ΔΤ=+35oC , (1 cm
3D = unit) Area element load (uniform temperature change)
(Unit=20.0 °C) (Max=35.0)

M 1 : 114
X * 0.502
Y * 0.906
Z * 0.962



All loads, Loadcase 7 ΟΜΟΙΟΜΟΡΦΗ ΘΕΡΜΟΚΡ. ΔΤ=-25oC , (1 cm
3D = unit) Area element load (uniform temperature change)
(Unit=20.0 °C) (Min=-25.0) (Max=0)

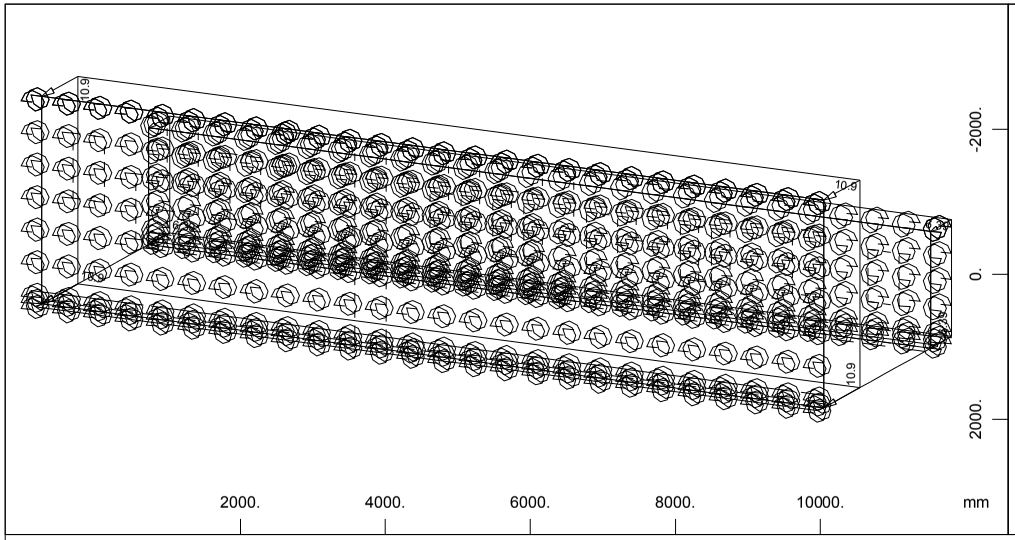
M 1 : 106
X * 0.502
Y * 0.906
Z * 0.962



All loads, Loadcase 13 ΠΡΟΣΘΕΤΕΣ ΣΕΙΜ.ΩΘΗΣΕΙΣ(+X) , (1 cm 3D
= unit) Free area load (force) in global X (Unit=10.0
kN/m2) (Max=10.9)

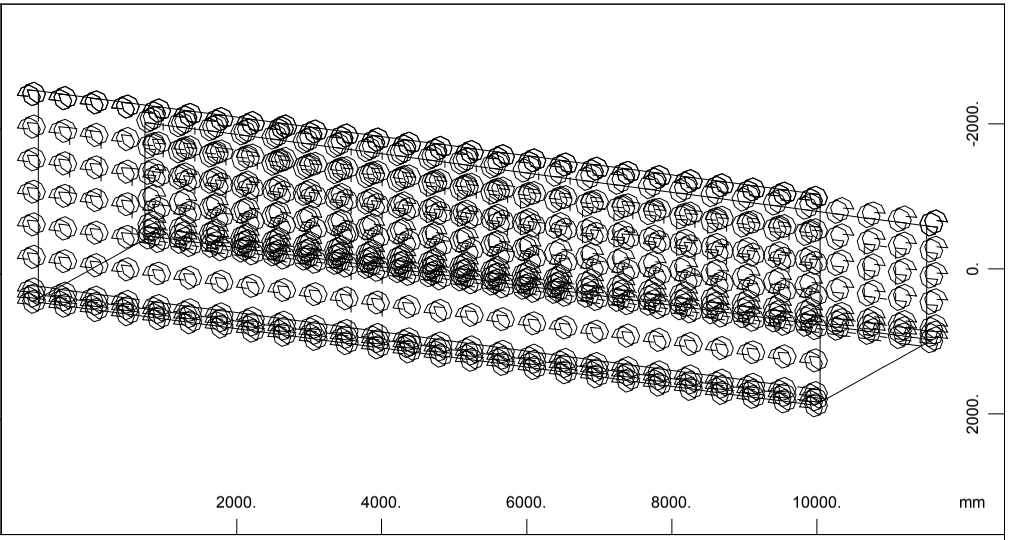
M 1 : 106
X * 0.502
Y * 0.906
Z * 0.962

ΤΑΦΡΟΣ Τ1 (3.00x2.80x1.50)m



All loads, Loadcase 14 ΠΡΟΣΘΕΤΕΣ ΣΕΙΜ.ΩΘΗΣΕΙΣ(-X) , (1 cm 3D = unit) Free area load (force) in global X (Unit=10.0 kN/m2 ⊣▷) (Min=-10.9) (Max=0)

M 1 : 104
X * 0.502
Y * 0.906
Z * 0.962



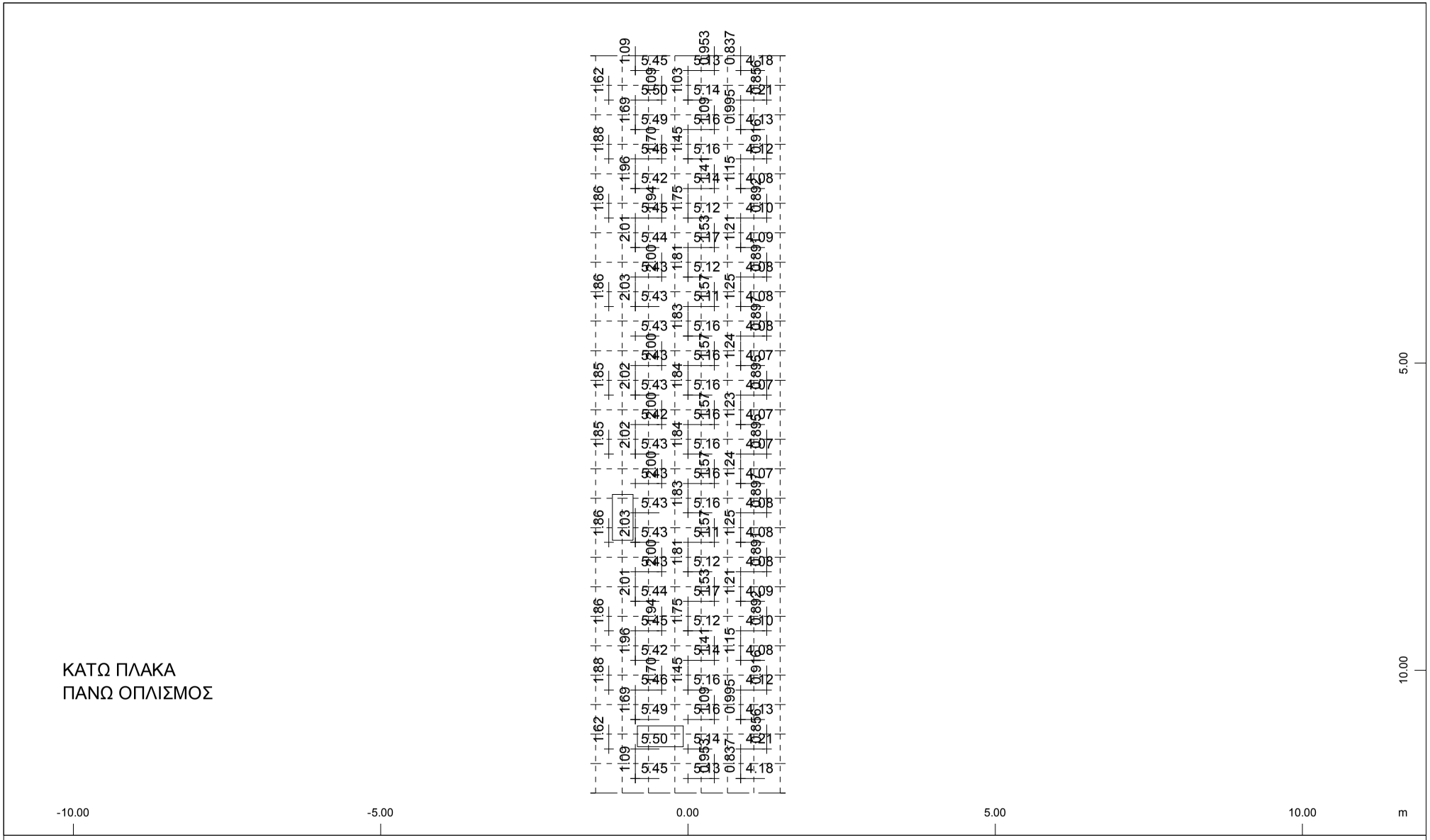
All loads LC 15: NO values found

M 1 : 104
X * 0.502
Y * 0.906
Z * 0.962

ΤΑΦΡΟΣ Τ1 (3.00x2.80x1.50)m

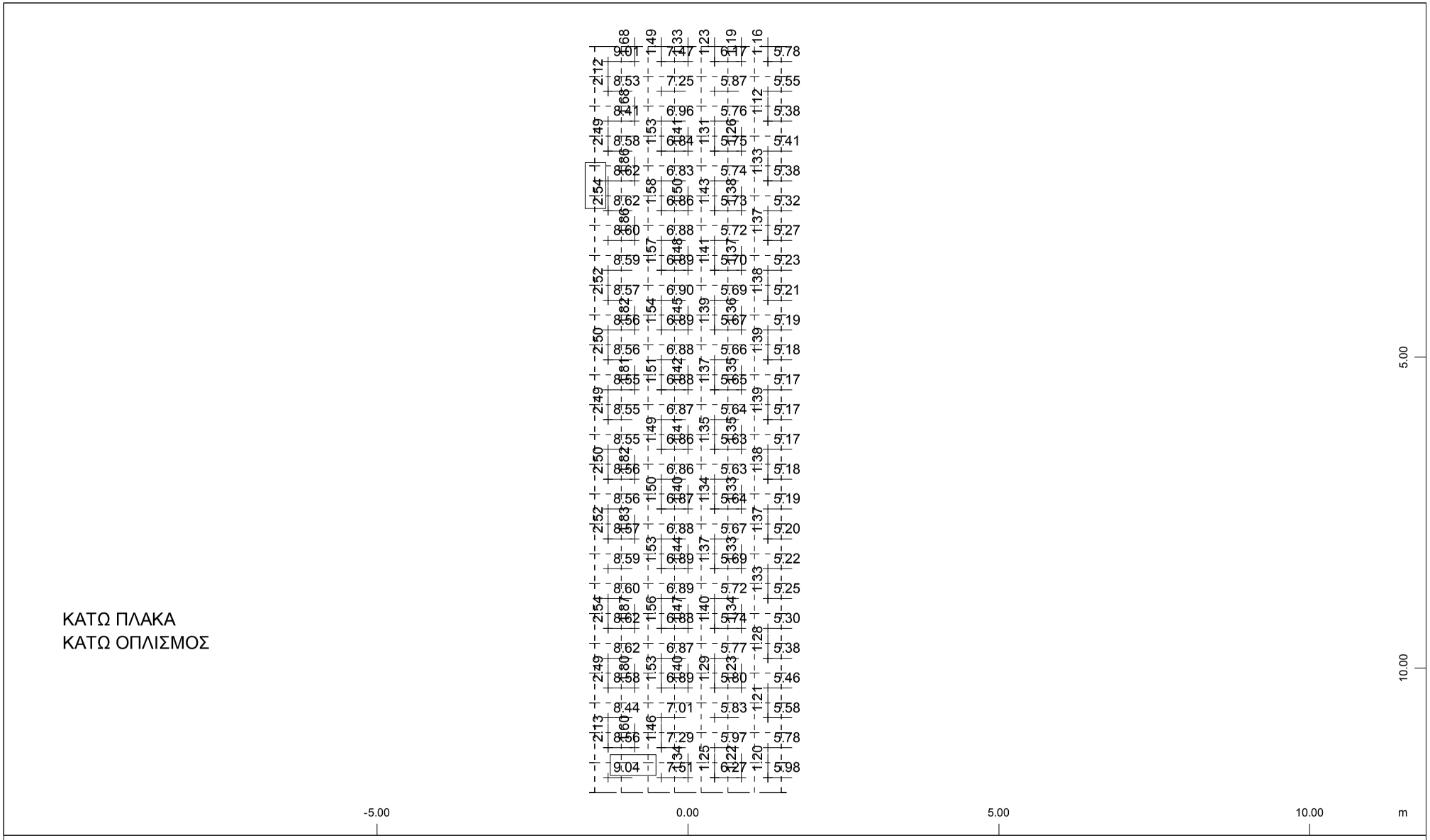
ΤΑΦΡΟΣ T1 (3.00x2.80x1.50)m

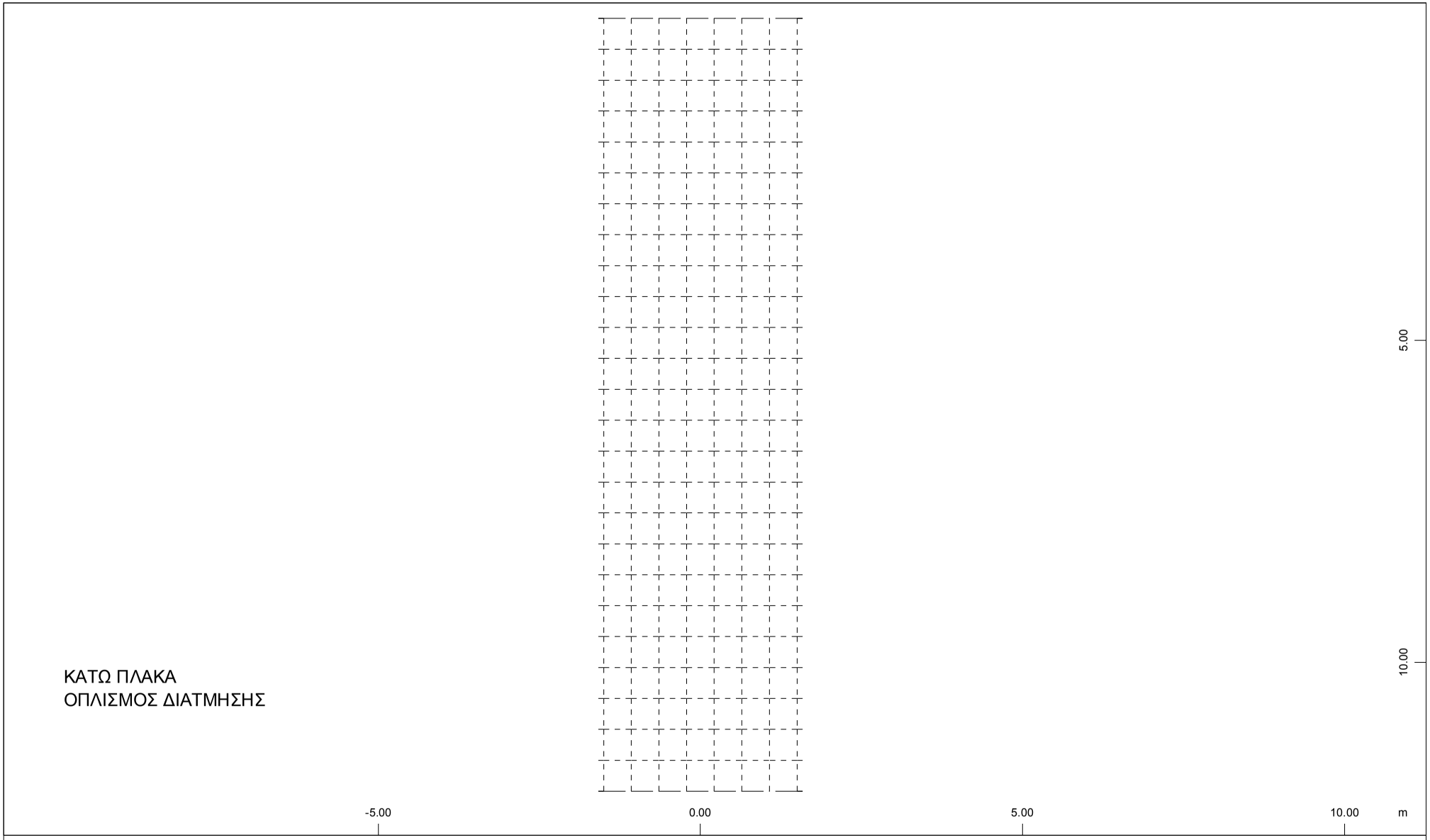
9.3 ΓΡΑΦΙΚΗ ΑΠΕΙΚΟΝΙΣΗ ΟΠΛΙΣΜΟΙ ULS-STATIKA

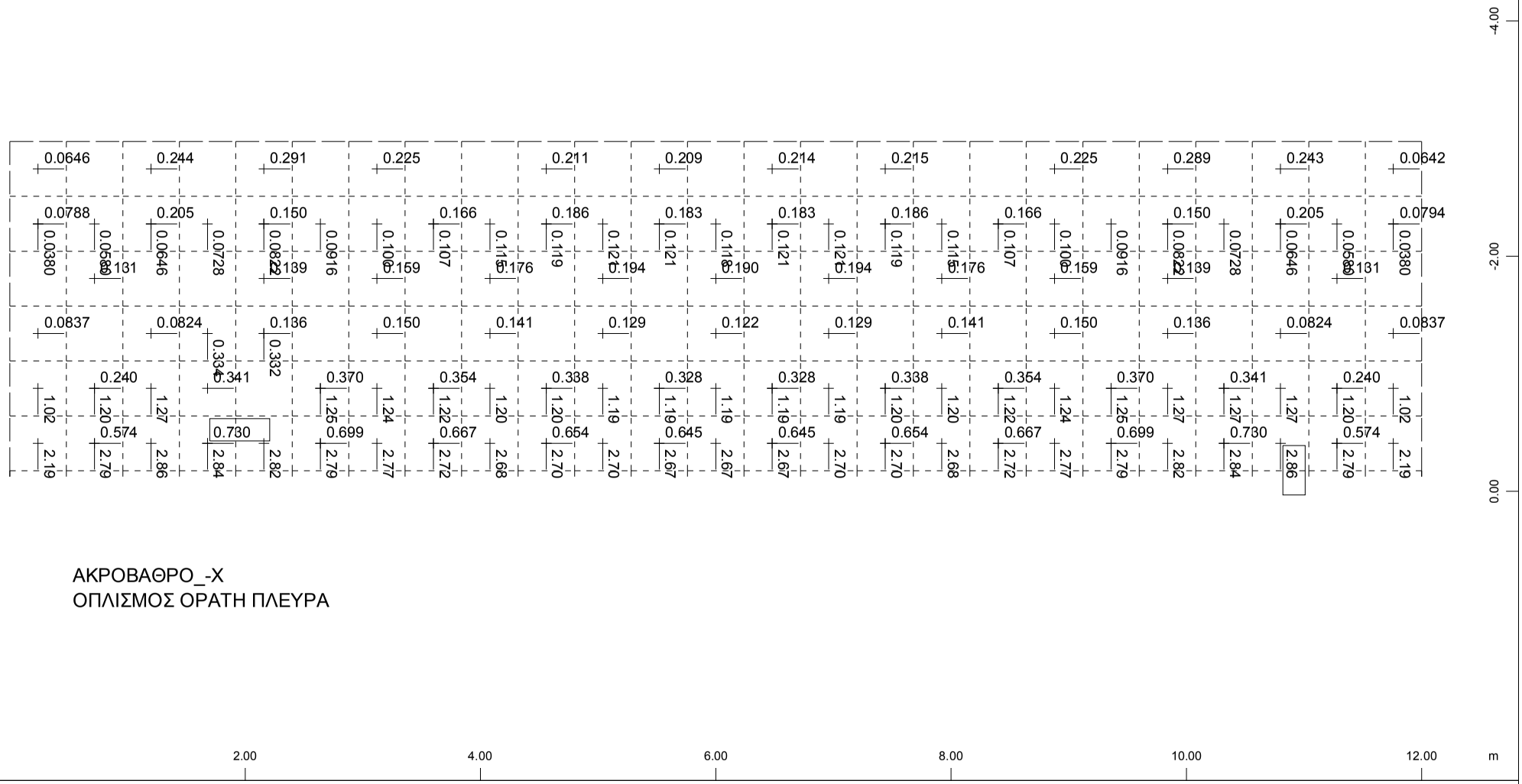


Sector of system Quadrilateral Elements Group 1
Structure
upper Reinforcements in Elements in cm2/m, Design Case 1 (Max=5.50)

M 1 : 87


ΚΑΤΩ ΠΛΑΚΑ
ΚΑΤΩ ΟΠΛΙΣΜΟΣ
-5.00
0.00
5.00
10.00
m
5.00
10.00
Z X
Y
Sector of system Quadrilateral Elements Group 1
lower Reinforcements in Elements in cm2/m, Design Case 1 (Max=9.04)
Structure
M 1 : 86

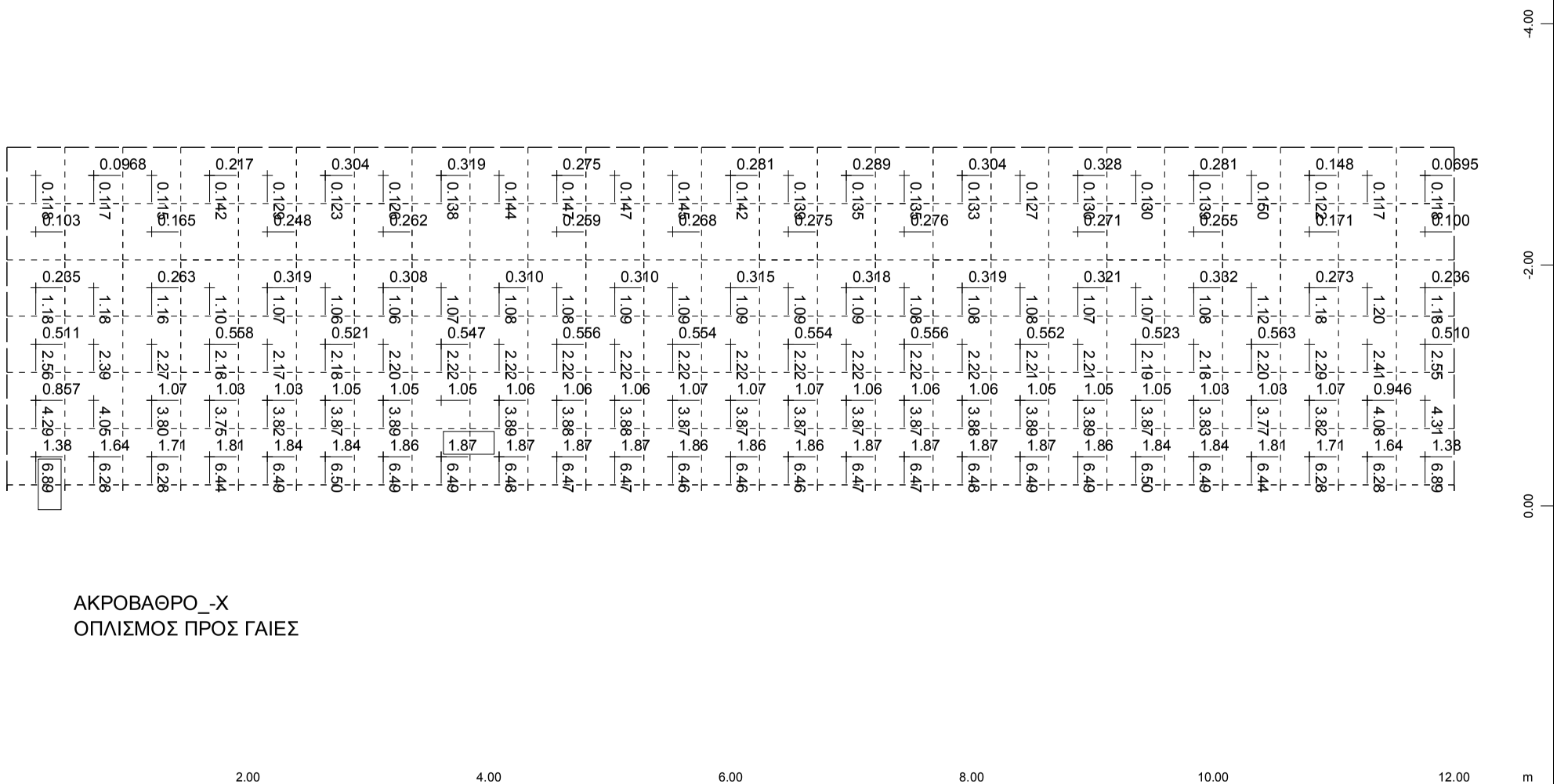

ΚΑΤΩ ΠΛΑΚΑ
ΟΠΛΙΣΜΟΣ ΔΙΑΤΜΗΣΗΣ
5.00
10.00
-5.00
0.00
5.00
10.00
m
Z
X
Y
Sector of system Quadrilateral Elements Group 1
Structure
M 1 : 83



ΑΚΡΟΒΑΘΡΟ_-Χ
ΟΠΛΙΣΜΟΣ ΟΡΑΤΗ ΠΛΕΥΡΑ

Sector of system Quadrilateral Elements Group 2
Structure
upper Reinforcements in Elements in cm2/m, Design Case 1 (Max=2.86)

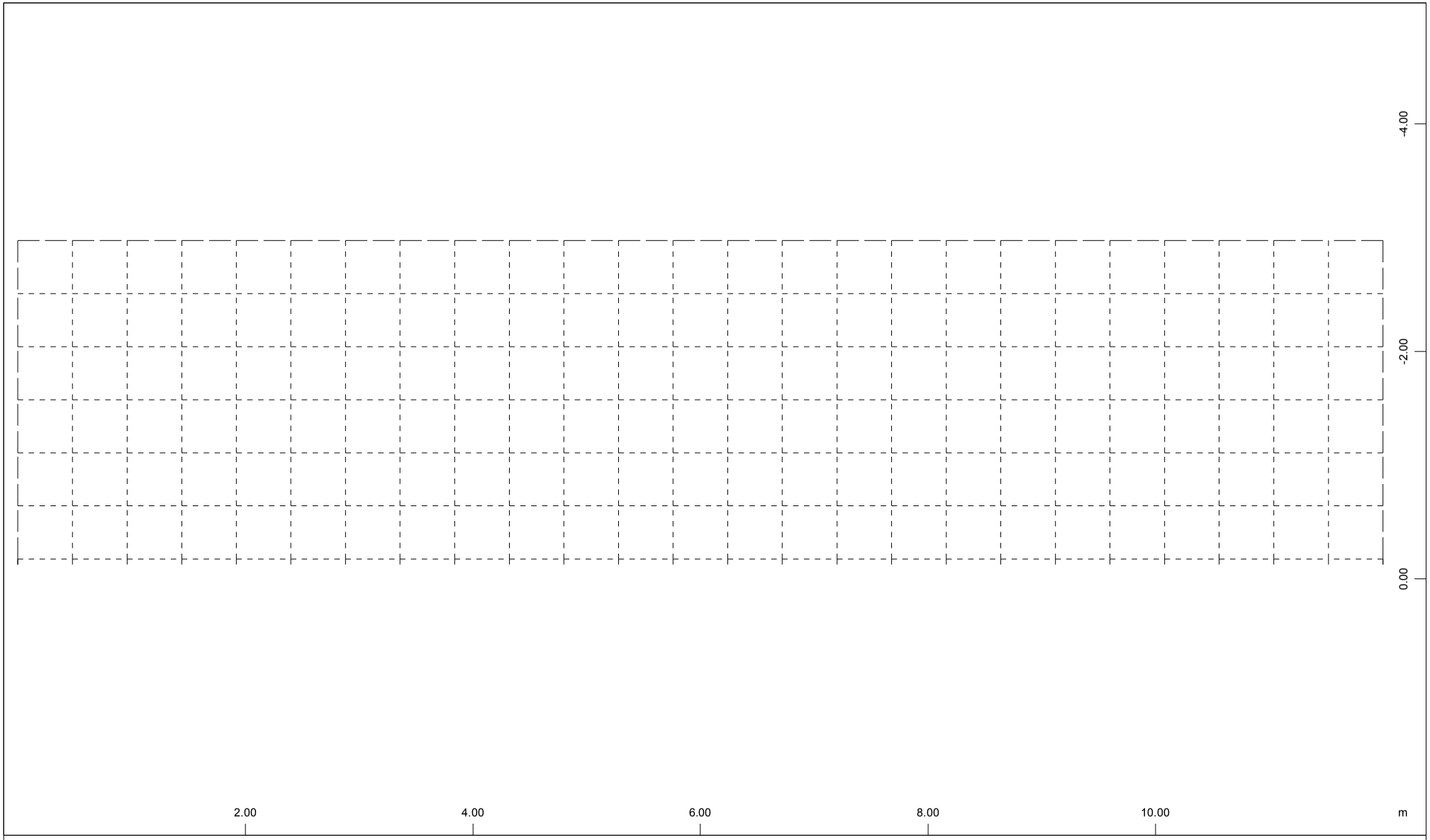
M 1 : 49



X Y Z

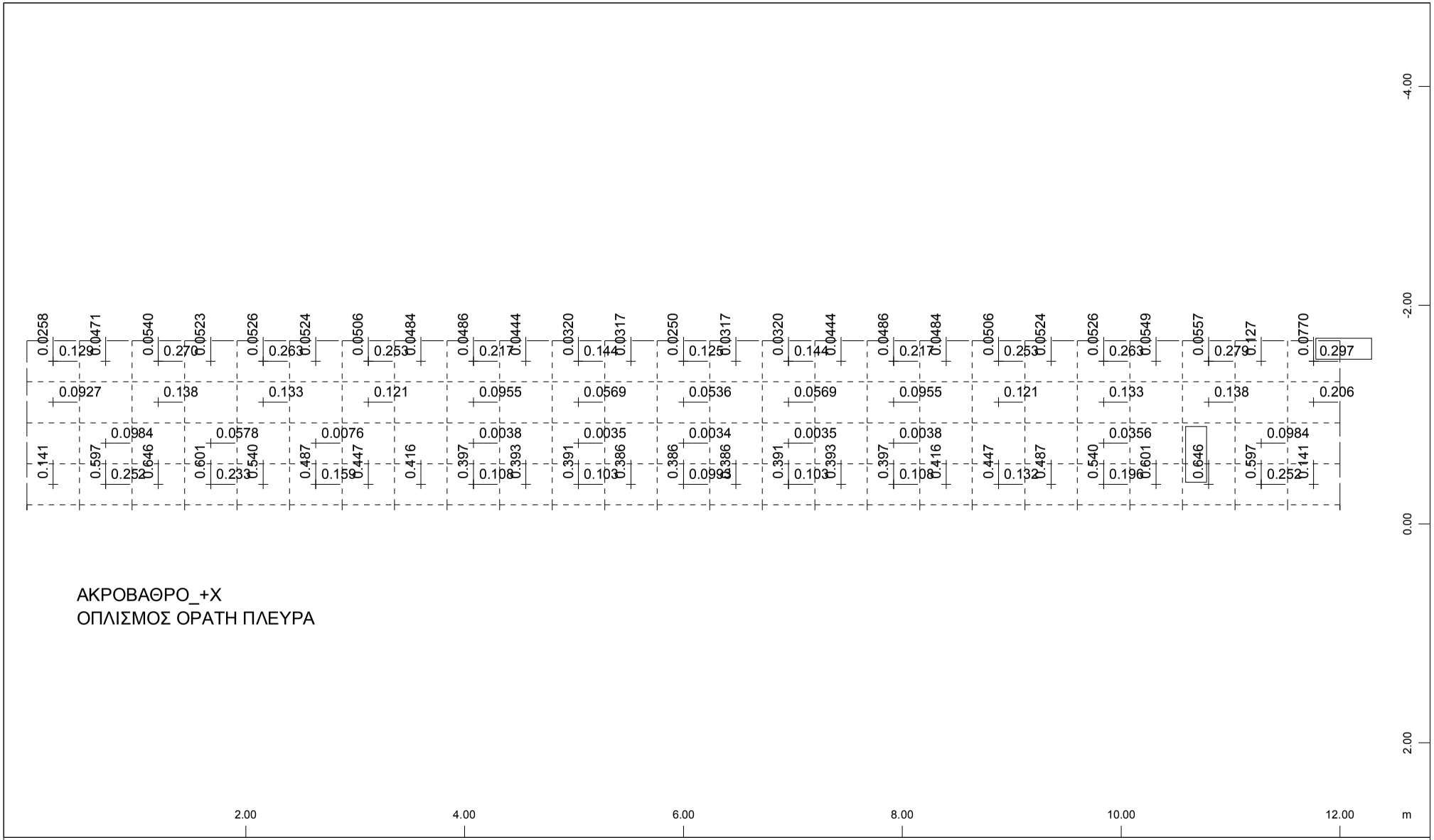
Sector of system Quadrilateral Elements Group 2
lower Reinforcements in Elements in cm2/m, Design Case 1 (Max=6.89)
Structure

M 1 : 49



Sector of system Quadrilateral Elements Group 2
Structure

M 1 : 47

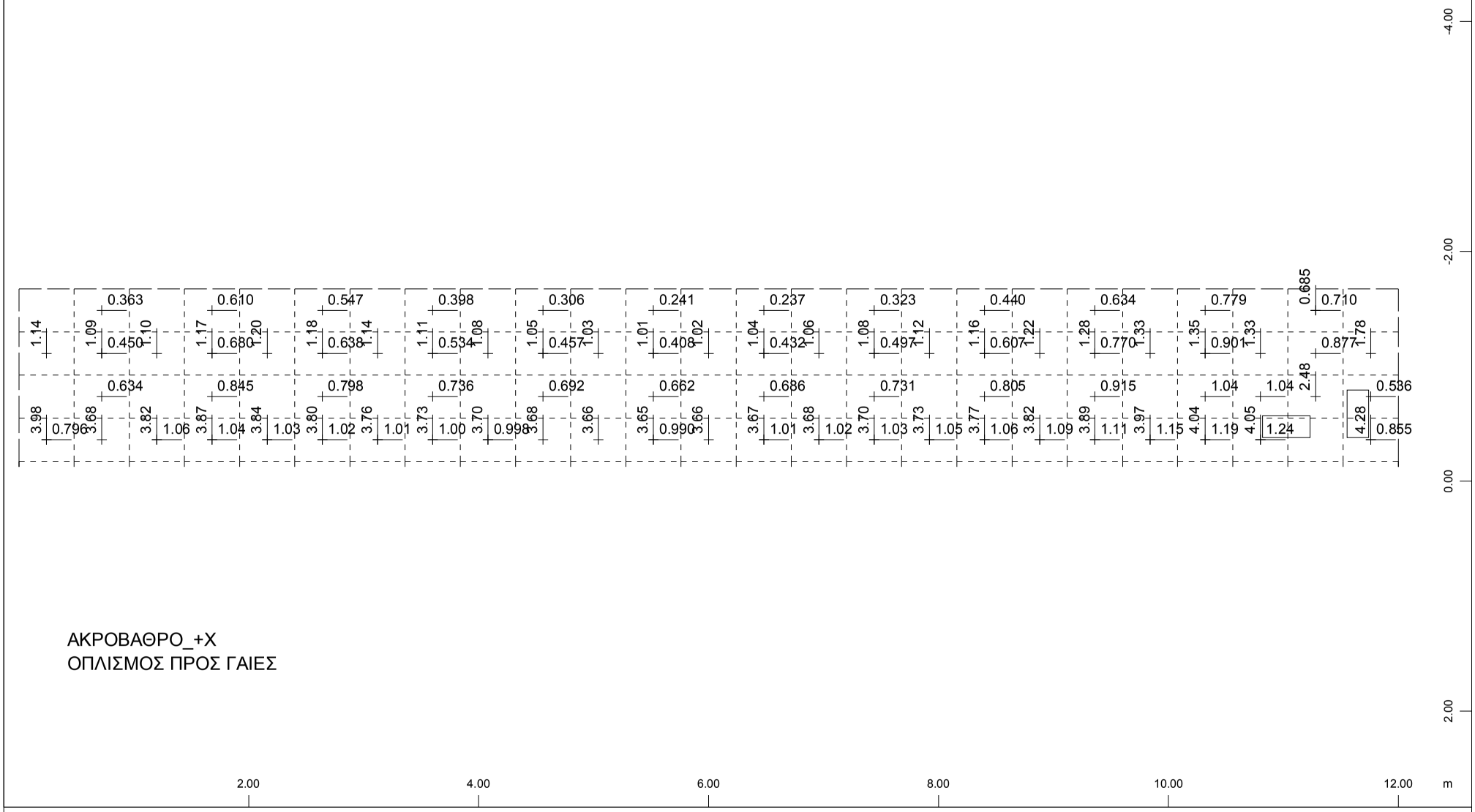


ΑΚΡΟΒΑΘΡΟ_+X
ΟΠΛΙΣΜΟΣ ΟΡΑΤΗ ΠΛΕΥΡΑ

X Y Z

Sector of system Quadrilateral Elements Group 3
Structure
upper Reinforcements in Elements in cm2/m, Design Case 1 (Max=0.646)

M 1 : 49

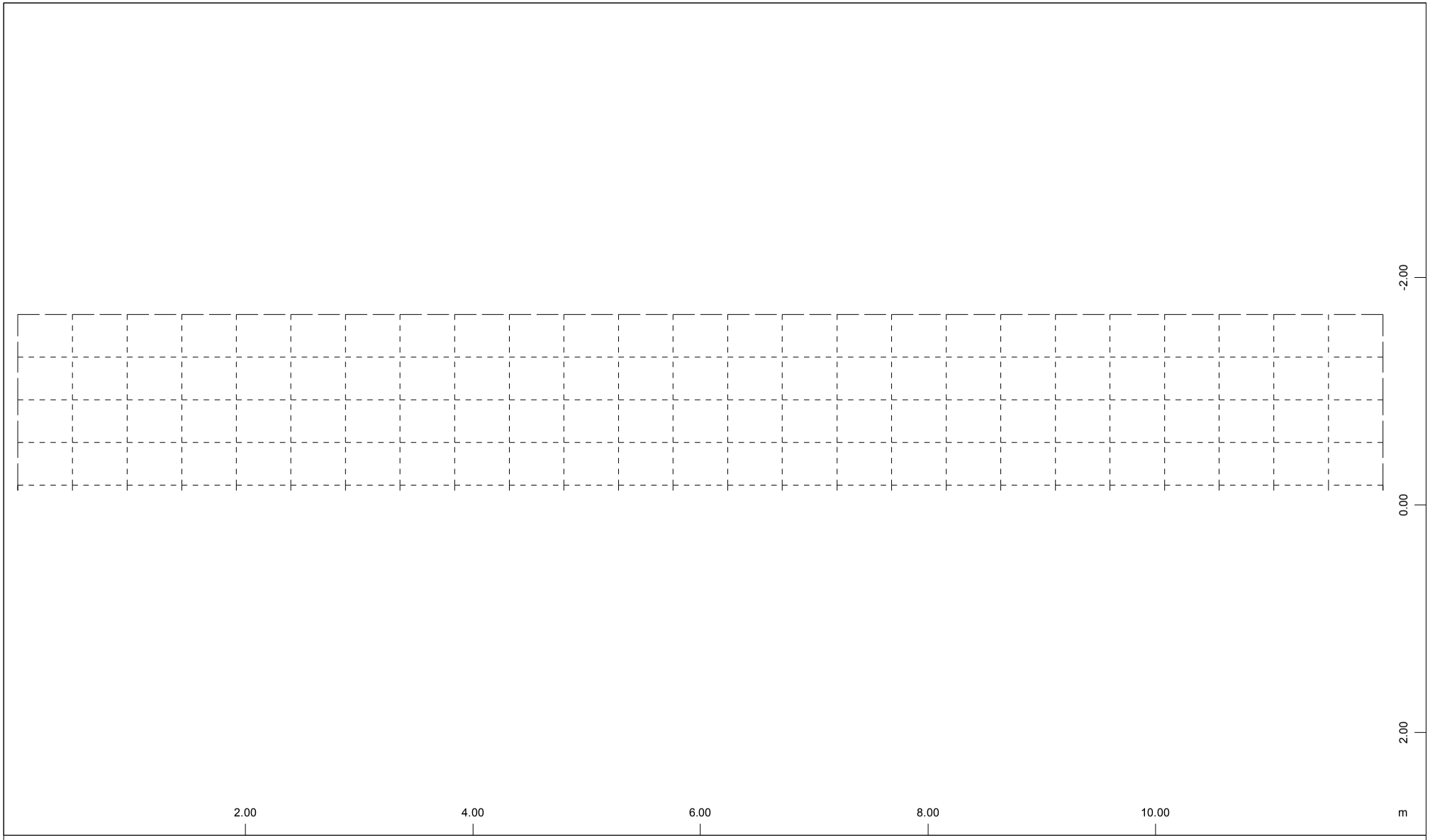


ΑΚΡΟΒΑΘΡΟ_+X
ΟΠΛΙΣΜΟΣ ΠΡΟΣ ΓΑΙΕΣ

X Y Z

Sector of system Quadrilateral Elements Group 3
Structure
lower Reinforcements in Elements in cm2/m, Design Case 1 (Max=4.28)

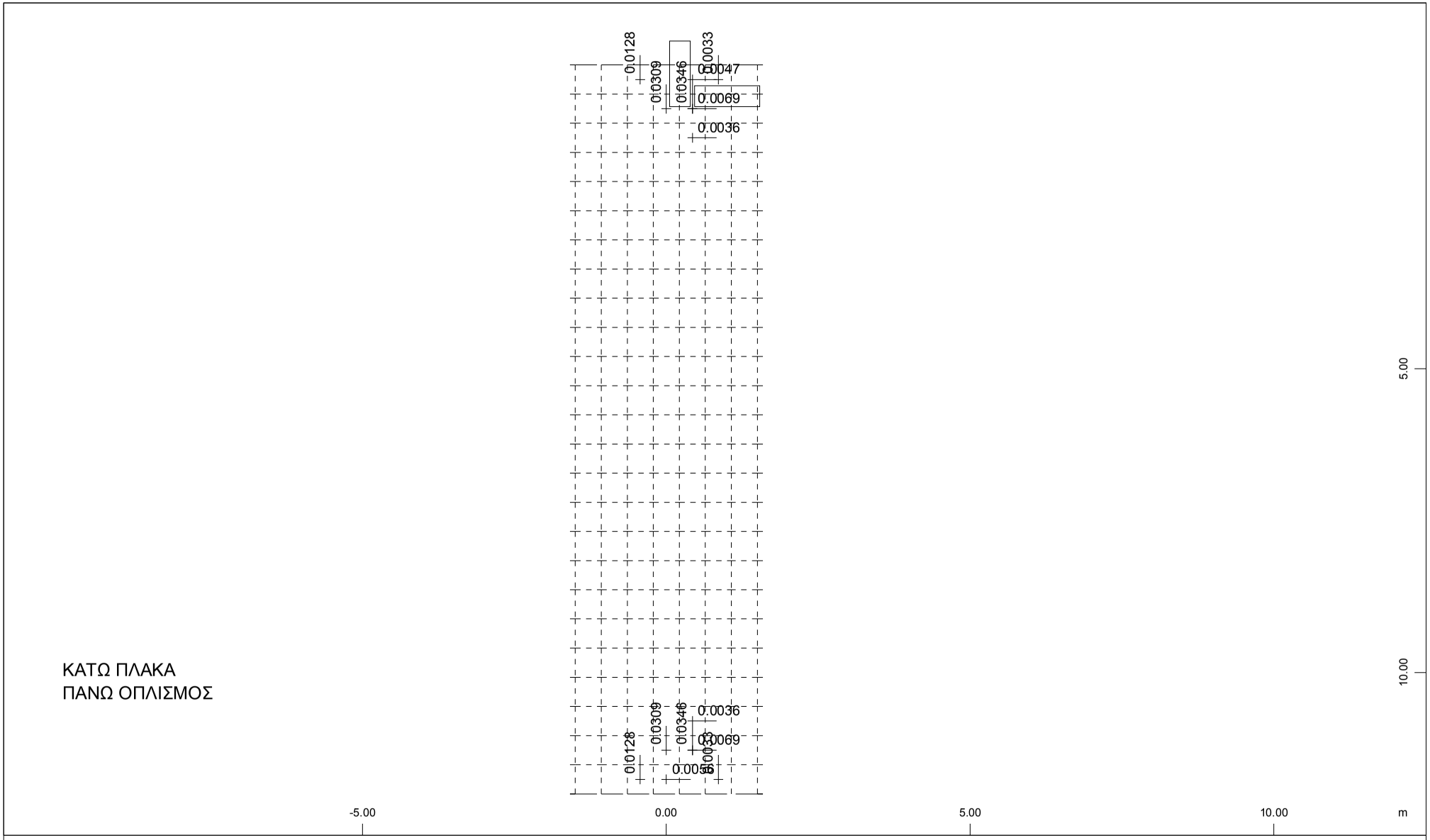
M 1 : 48



ΤΑΦΡΟΣ Τ1 (3.00x2.80x1.50)m
ΟΠΛΙΣΜΟΙ ULS-STATIKA

ΤΑΦΡΟΣ T1 (3.00x2.80x1.50)m

9.5 ΓΡΑΦΙΚΗ ΑΠΕΙΚΟΝΙΣΗ ΟΠΛΙΣΜΟΙ ULS-SEISMIKA QH=1.50/QV=1.00



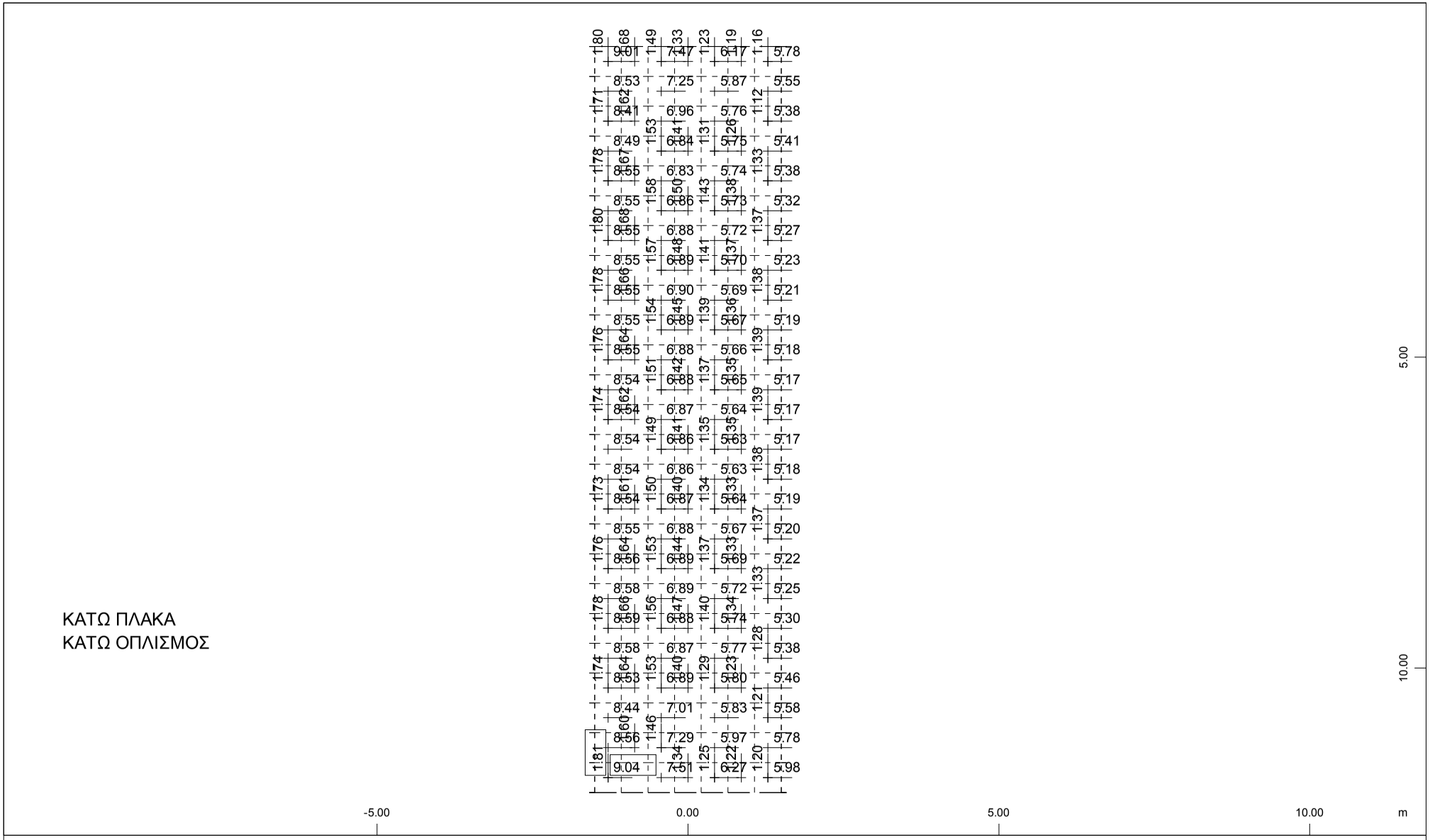
ΚΑΤΩ ΠΛΑΚΑ
ΠΑΝΩ ΟΠΛΙΣΜΟΣ

Z X
Y

Sector of system Quadrilateral Elements Group 1
Structure
upper Reinforcements in Elements in cm2/m, Design Case 3 (Max=0.0346)

M 1 : 88

ΤΑΦΡΟΣ Τ1 (3.00x2.80x1.50)m
ΟΠΛΙΣΜΟΙ ULS-SEISMIKA QH=1.50/QV=1.00

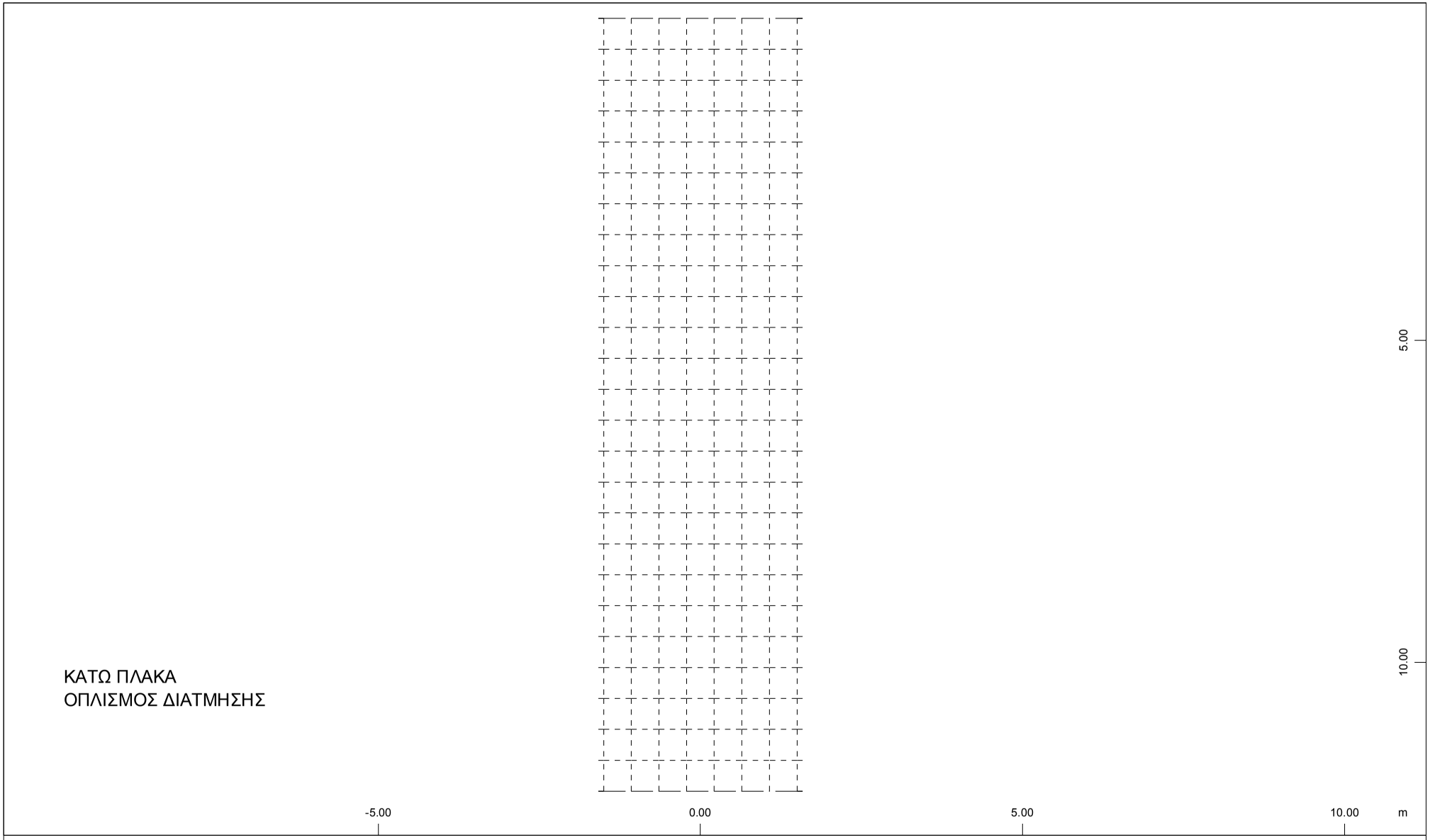


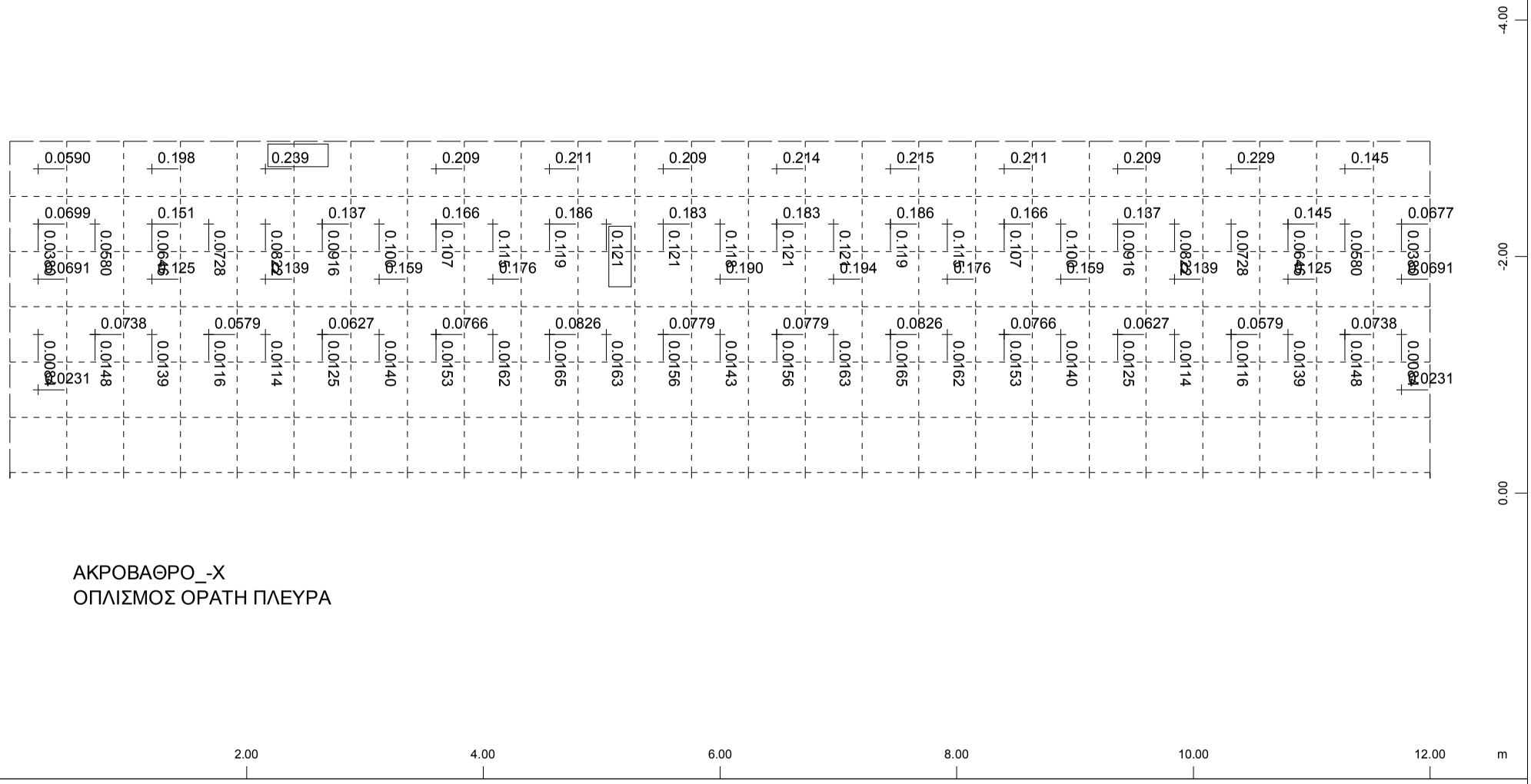
Z X
Y

Sector of system Quadrilateral Elements Group 1
lower Reinforcements in Elements in cm2/m, Design Case 3 (Max=9.04)
Structure

M 1 : 86

ΤΑΦΡΟΣ Τ1 (3.00x2.80x1.50)m
ΟΠΛΙΣΜΟΙ ULS-SEISMIKA QH=1.50/QV=1.00


ΚΑΤΩ ΠΛΑΚΑ
ΟΠΛΙΣΜΟΣ ΔΙΑΤΜΗΣΗΣ
5.00
10.00
-5.00
0.00
5.00
10.00
m
Z
X
Y
Sector of system Quadrilateral Elements Group 1
Structure
M 1 : 83



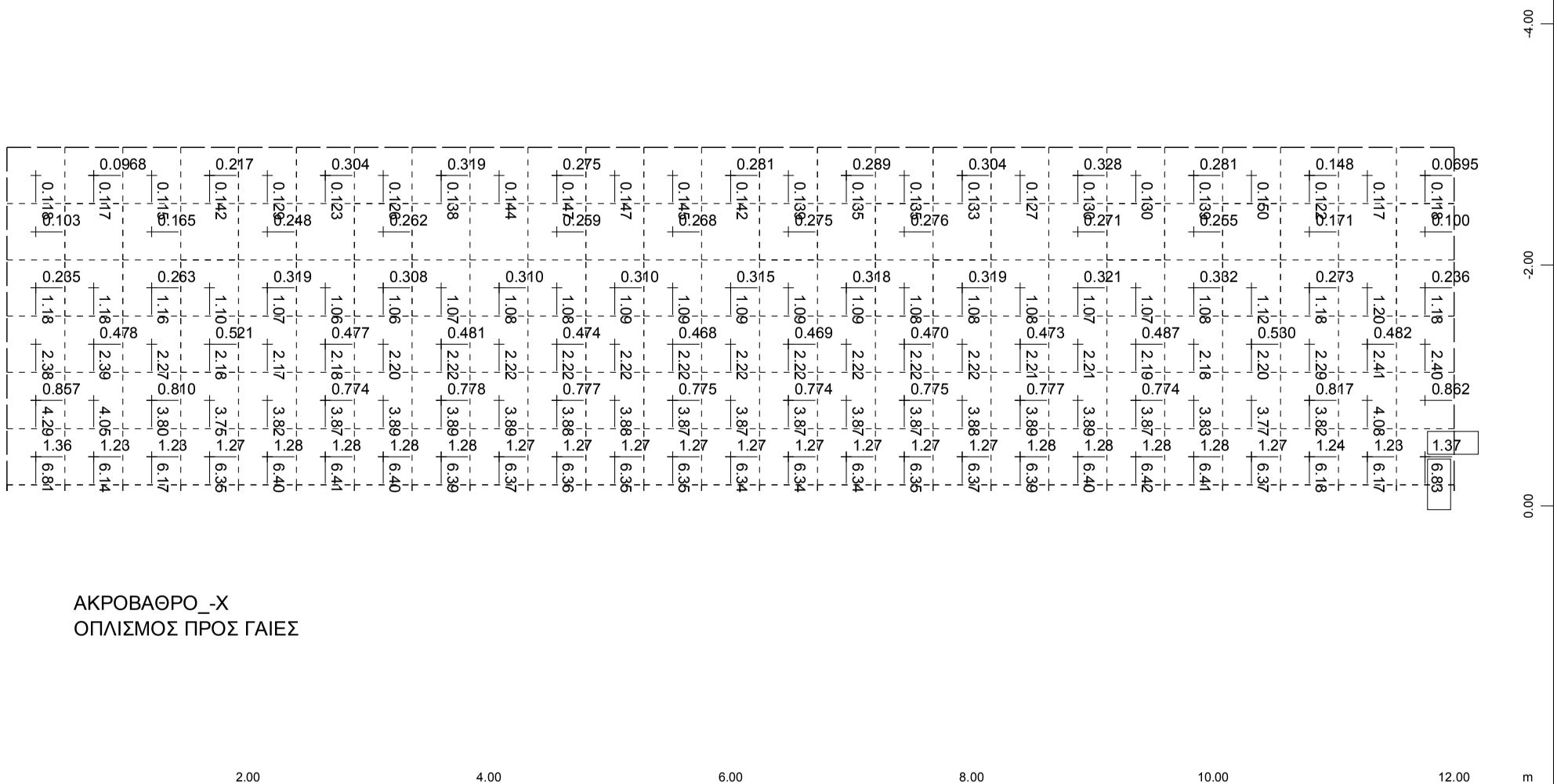
ΑΚΡΟΒΑΘΡΟ_-Χ
ΟΠΛΙΣΜΟΣ ΟΡΑΤΗ ΠΛΕΥΡΑ

X Y Z

Sector of system Quadrilateral Elements Group 2
Structure
upper Reinforcements in Elements in cm2/m, Design Case 3 (Max=0.239)

M 1 : 49

ΤΑΦΡΟΣ Τ1 (3.00x2.80x1.50)m
ΟΠΛΙΣΜΟΙ ULS-SEISMIKA QH=1.50/QV=1.00



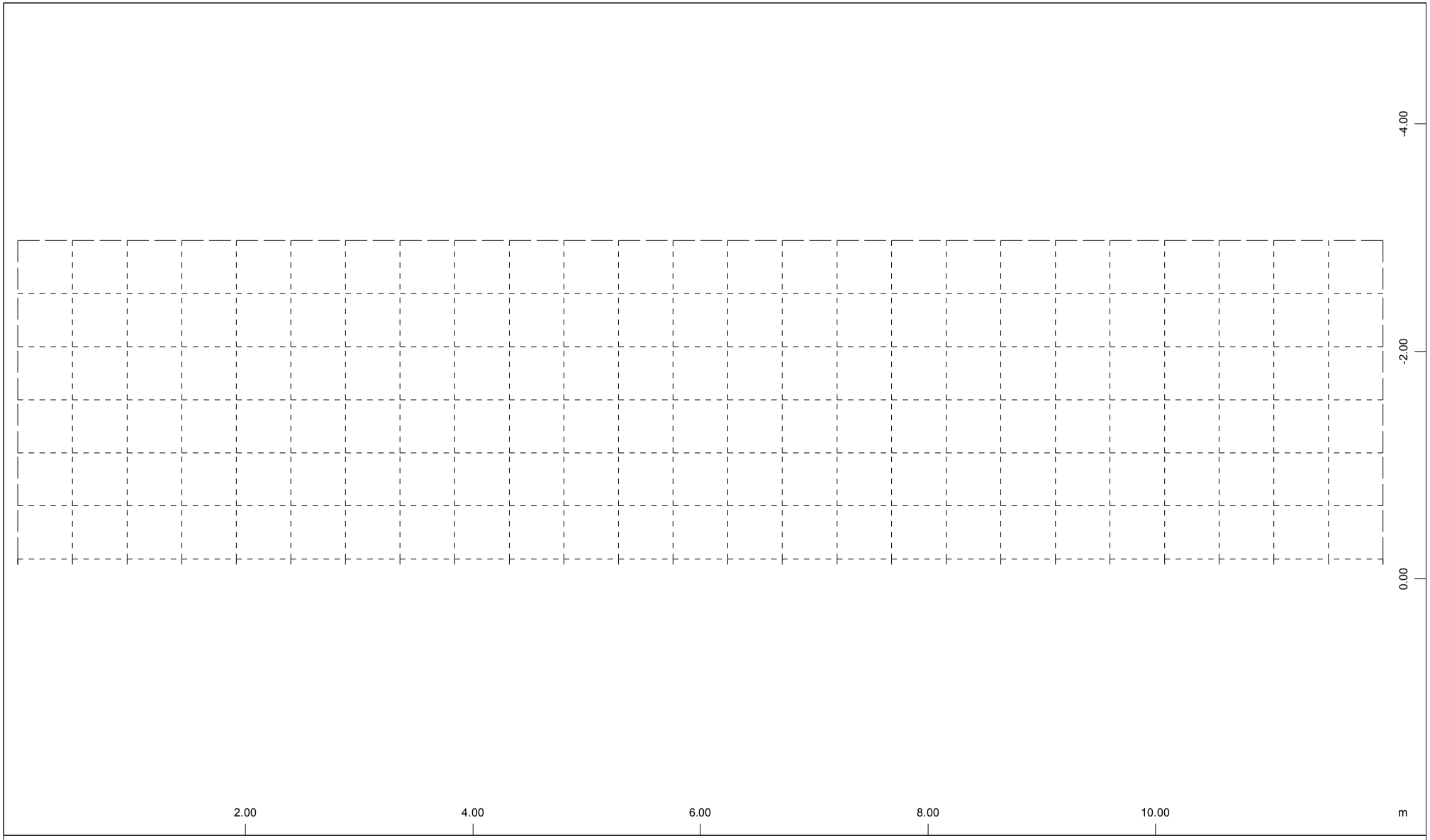
ΑΚΡΟΒΑΘΡΟ_-Χ
ΟΠΛΙΣΜΟΣ ΠΡΟΣ ΓΑΙΕΣ

X Y Z

Sector of system Quadrilateral Elements Group 2
lower Reinforcements in Elements in cm2/m, Design Case 3 (Max=6.83)
Structure

M 1 : 49

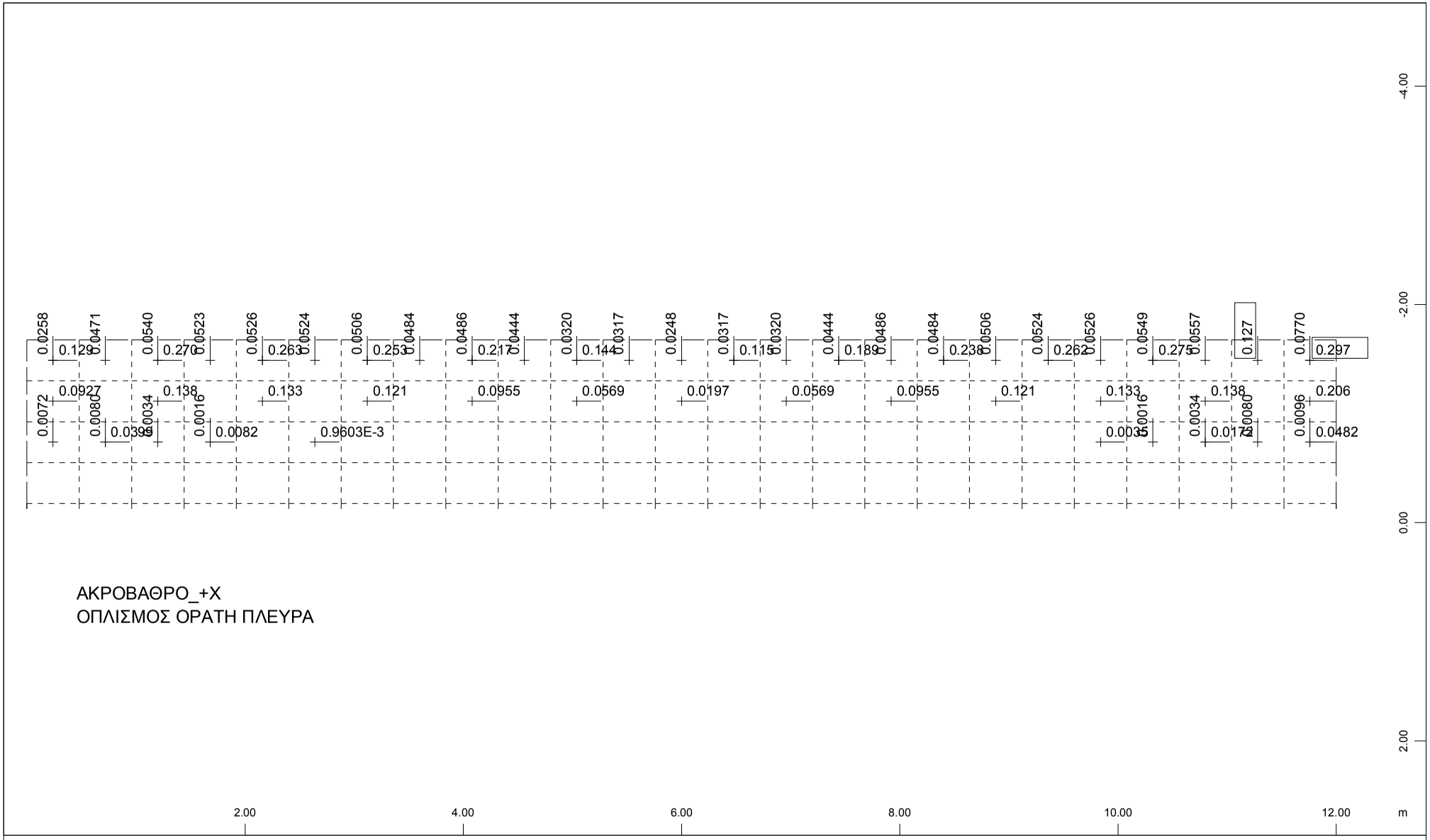
ΤΑΦΡΟΣ Τ1 (3.00x2.80x1.50)m
ΟΠΛΙΣΜΟΙ ULS-SEISMIKA QH=1.50/QV=1.00



Sector of system Quadrilateral Elements Group 2
Structure

M 1 : 47

ΤΑΦΡΟΣ Τ1 (3.00x2.80x1.50)m
ΟΠΛΙΣΜΟΙ ULS-SEISMIKA QH=1.50/QV=1.00

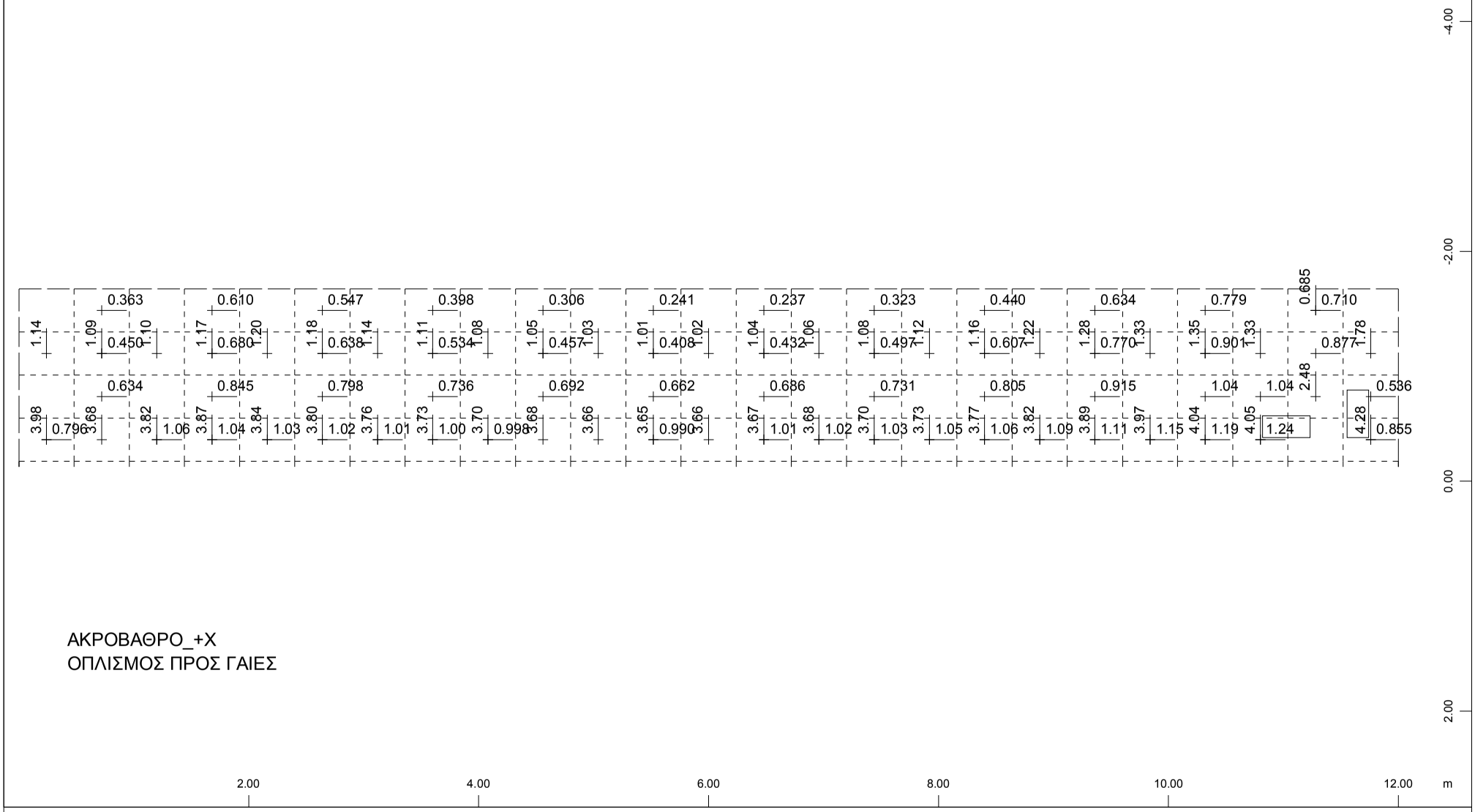


X—Y
Z

Sector of system Quadrilateral Elements Group 3
Structure
upper Reinforcements in Elements in cm2/m, Design Case 3 (Max=0.297)

M 1 : 49

ΤΑΦΡΟΣ Τ1 (3.00x2.80x1.50)m
ΟΠΛΙΣΜΟΙ ULS-SEISMIKA QH=1.50/QV=1.00



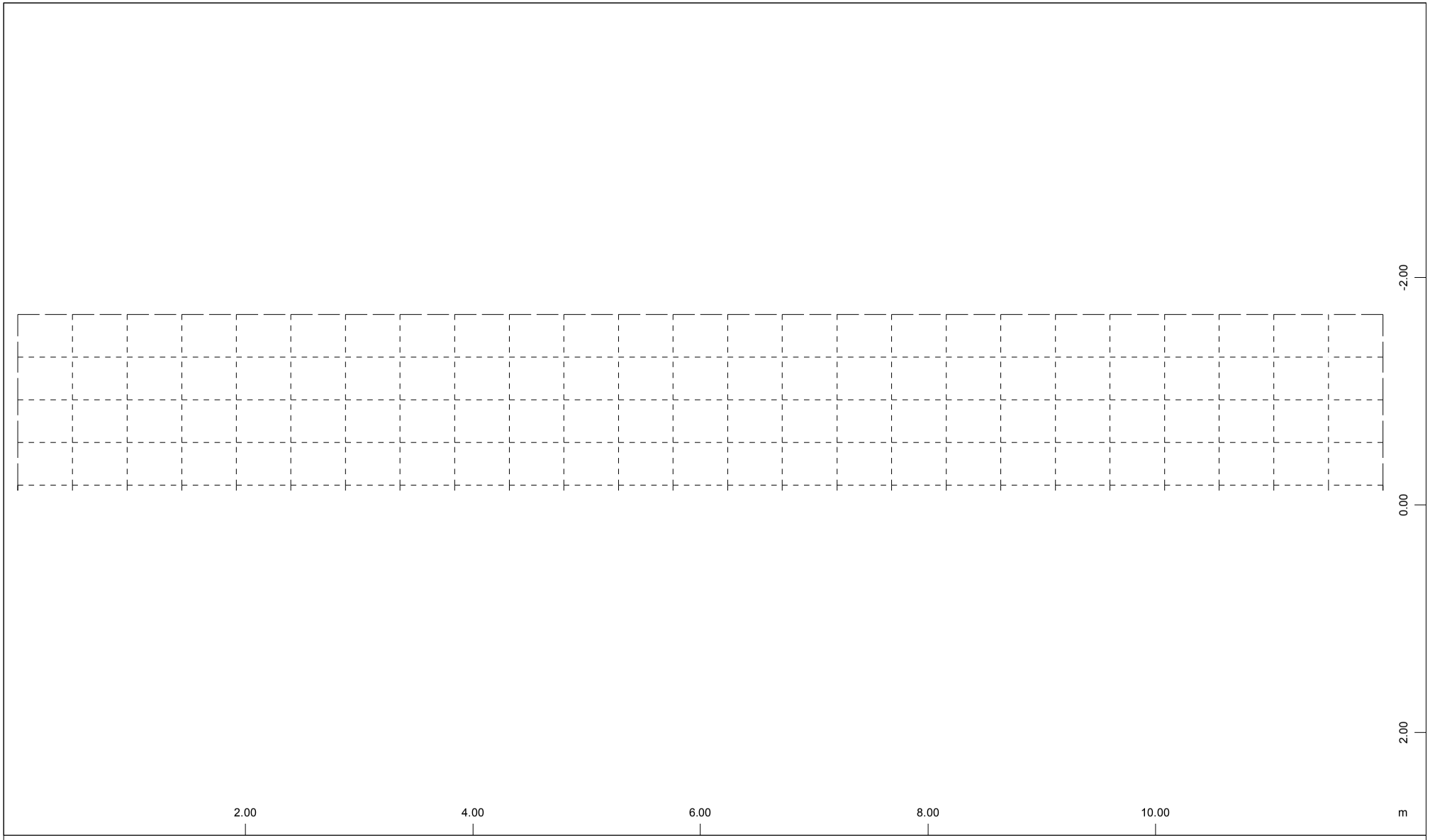
ΑΚΡΟΒΑΘΡΟ_+X
ΟΠΛΙΣΜΟΣ ΠΡΟΣ ΓΑΙΕΣ

X Y Z

Sector of system Quadrilateral Elements Group 3
Structure
lower Reinforcements in Elements in cm2/m, Design Case 3 (Max=4.28)

M 1 : 48

ΤΑΦΡΟΣ Τ1 (3.00x2.80x1.50)m
ΟΠΛΙΣΜΟΙ ULS-SEISMIKA QH=1.50/QV=1.00



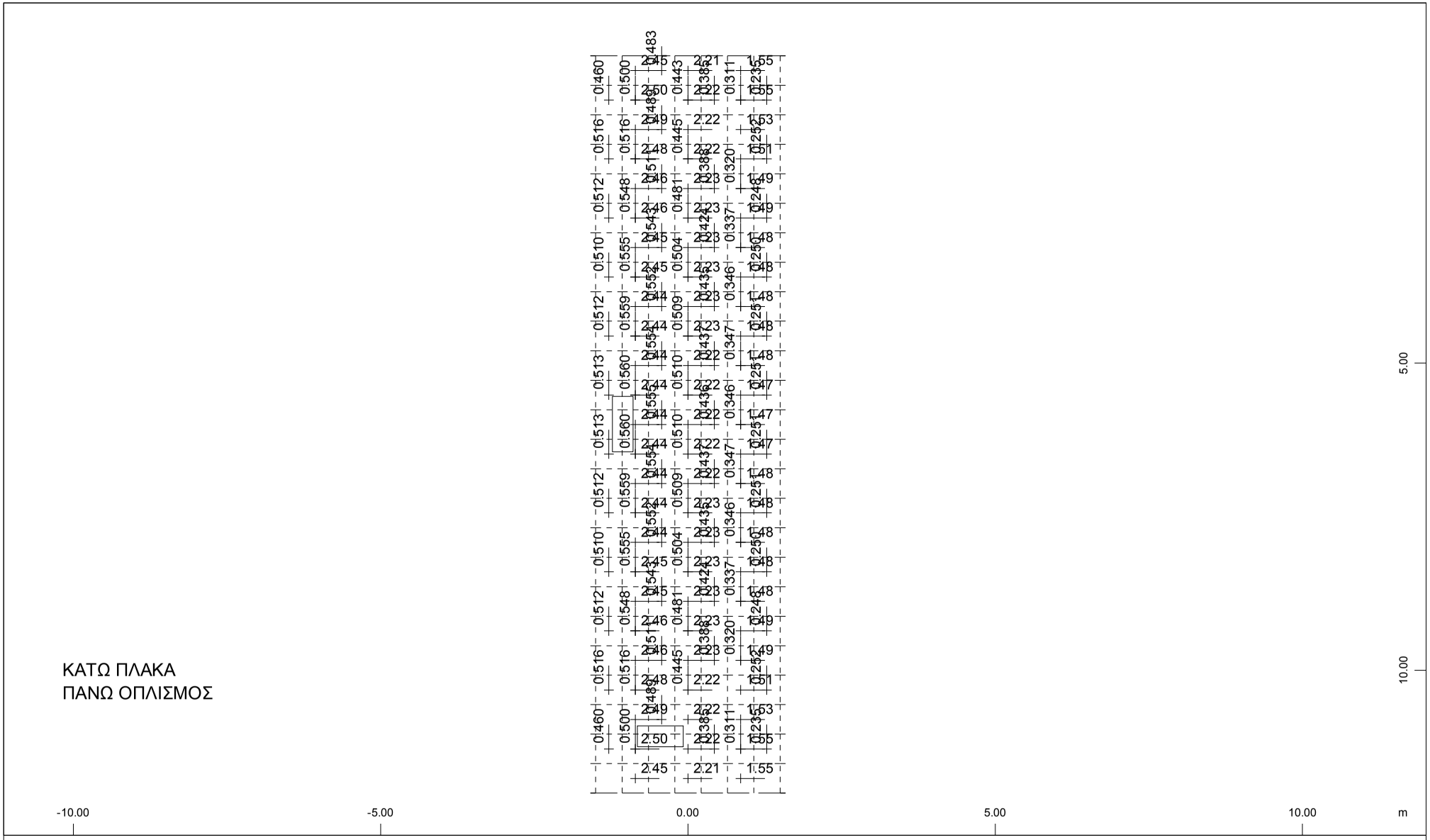
Sector of system Quadrilateral Elements Group 3
Structure

M 1 : 47

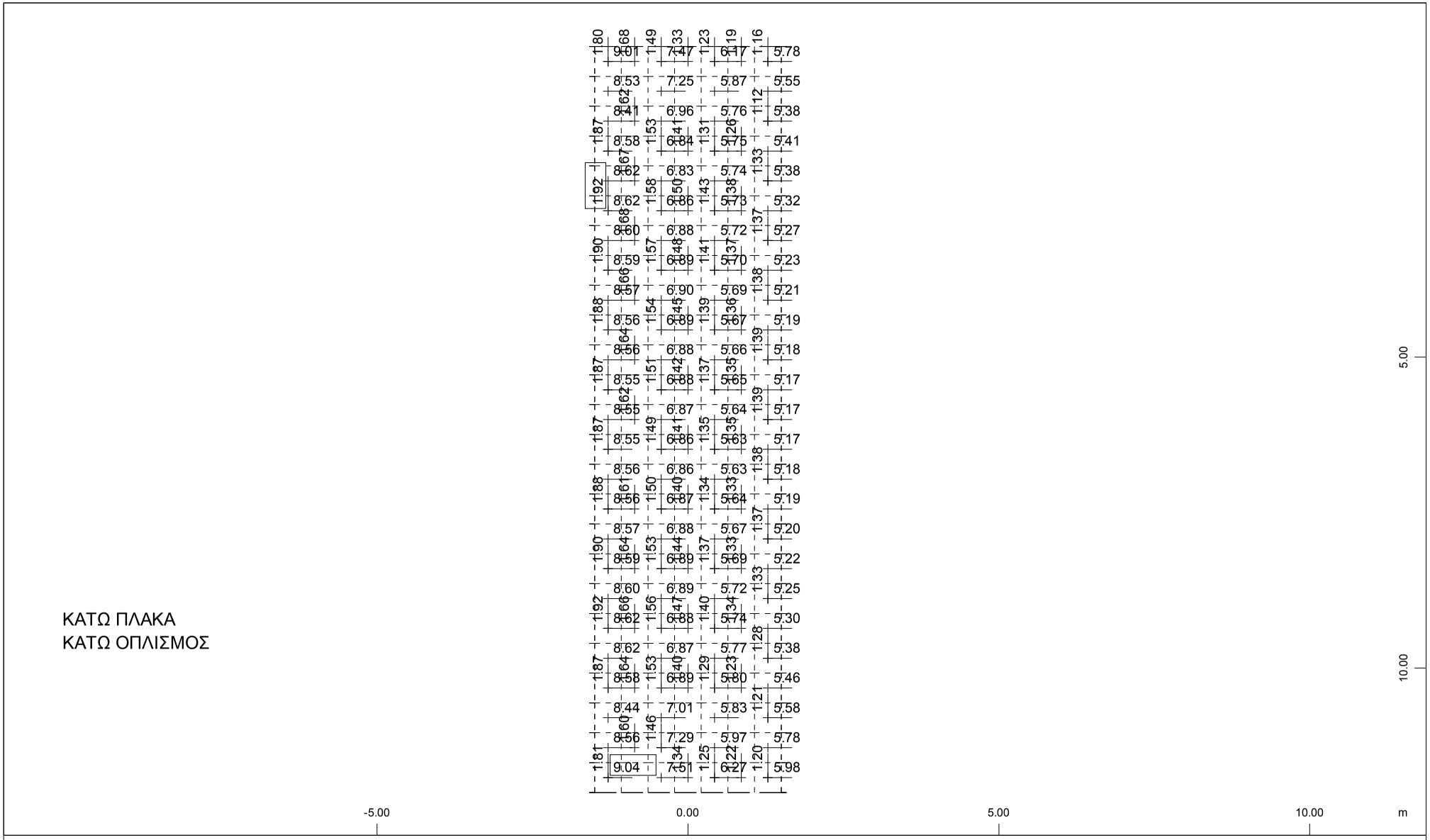
ΤΑΦΡΟΣ Τ1 (3.00x2.80x1.50)m
ΟΠΛΙΣΜΟΙ ULS-SEISMIKA QH=1.50/QV=1.00

ΤΑΦΡΟΣ T1 (3.00x2.80x1.50)m

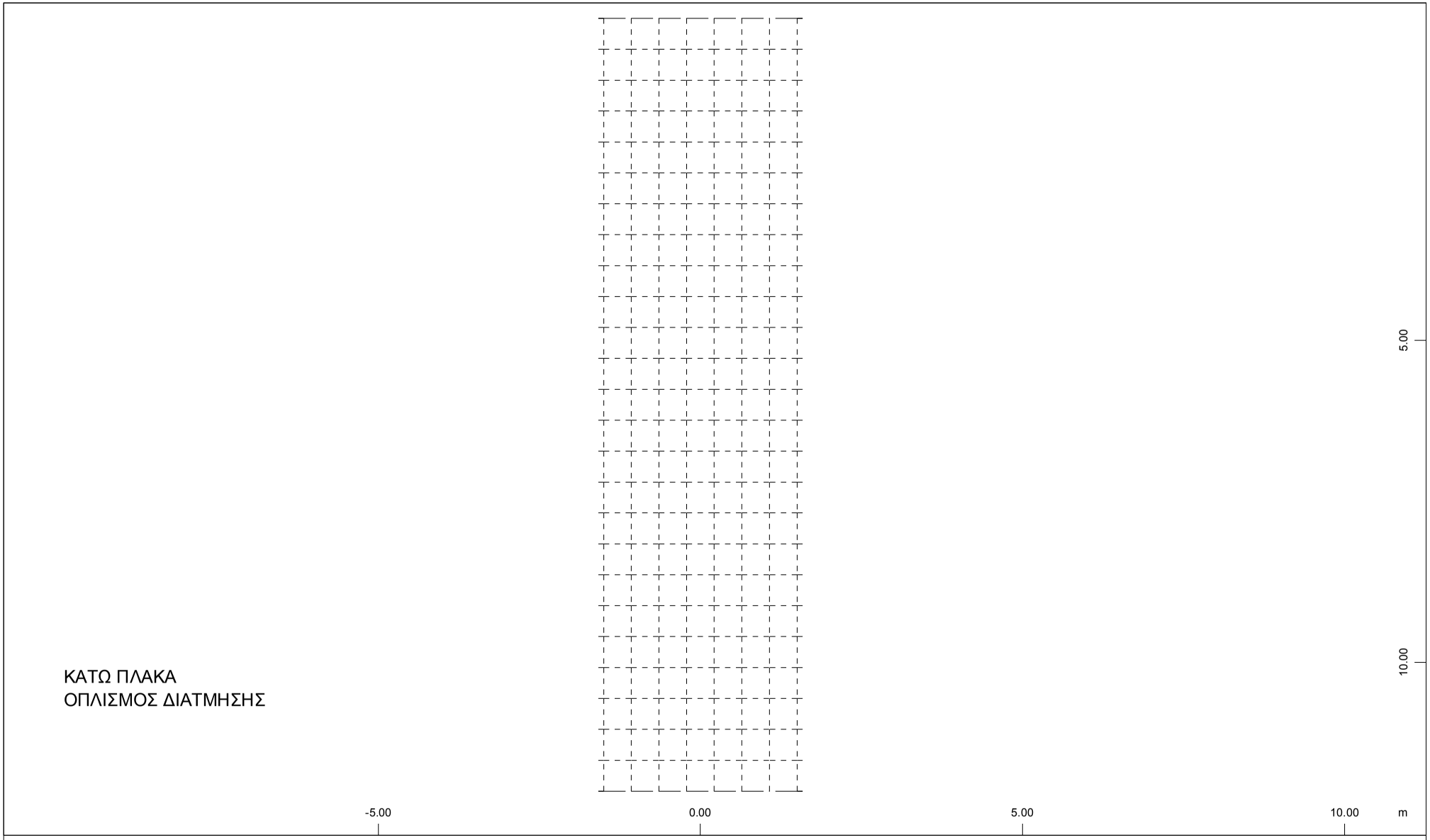
9.6 ΓΡΑΦΙΚΗ ΑΠΕΙΚΟΝΙΣΗ ΟΠΛΙΣΜΟΙ ΜΕΓΙΣΤΑ ΣΤΑΤΙΚΩΝ-ΣΕΙΣΜΙΚΩΝ

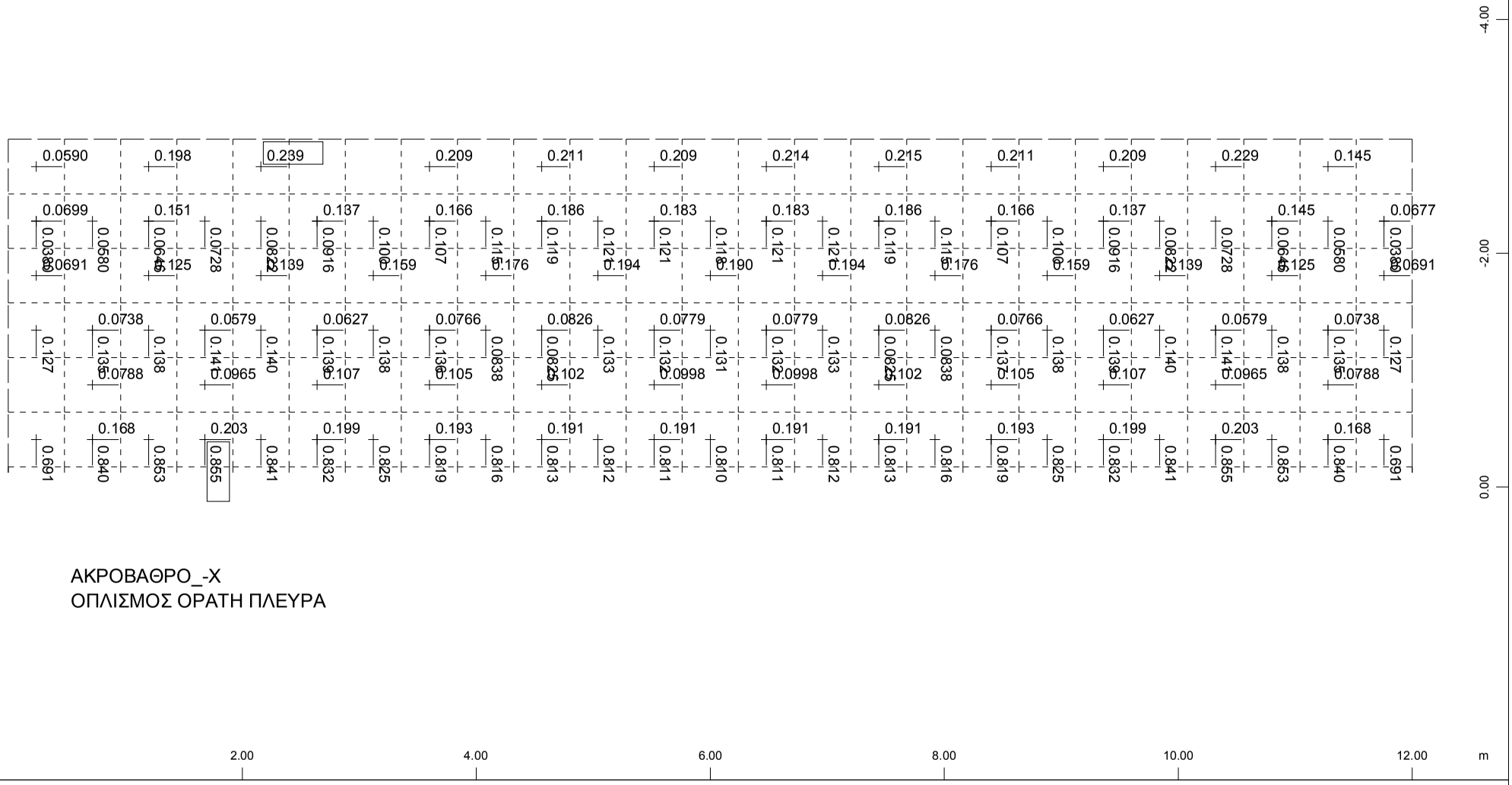


ΤΑΦΡΟΣ Τ1 (3.00x2.80x1.50)m
ΠΕΡΙΒΑΛΛΟΥΣΑ ΟΠΛΙΣΜΩΝ ΣΤΑΤΙΚΩΝ-ΣΕΙΣΜΙΚΩΝ



ΤΑΦΡΟΣ Τ1 (3.00x2.80x1.50)m
ΠΕΡΙΒΑΛΛΟΥΣΑ ΟΠΛΙΣΜΩΝ ΣΤΑΤΙΚΩΝ-ΣΕΙΣΜΙΚΩΝ


ΚΑΤΩ ΠΛΑΚΑ
ΟΠΛΙΣΜΟΣ ΔΙΑΤΜΗΣΗΣ
5.00
10.00
-5.00
0.00
5.00
10.00
m
Z
X
Y
Sector of system Quadrilateral Elements Group 1
Structure
M 1 : 83



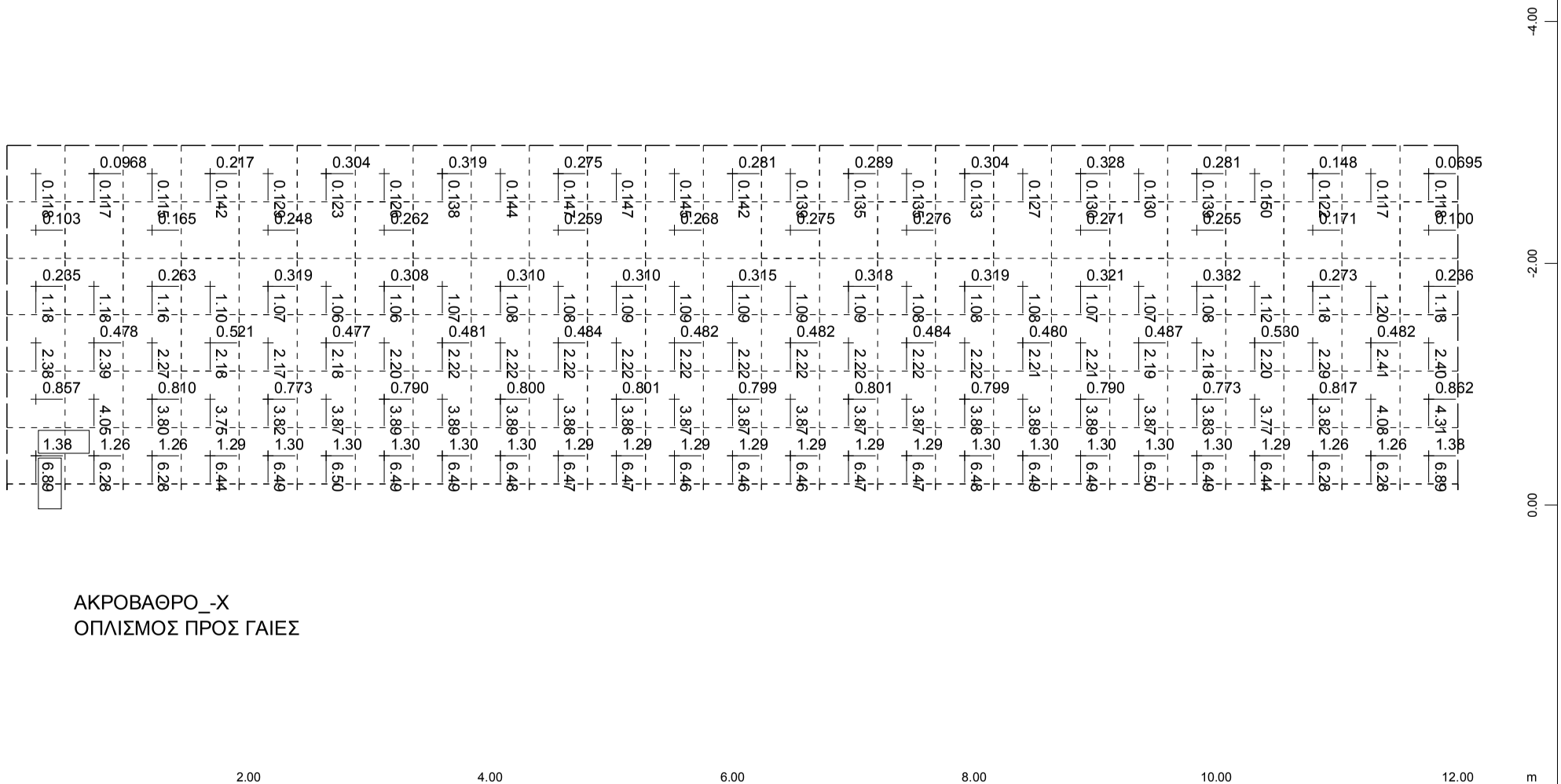
ΑΚΡΟΒΑΘΡΟ_-Χ
ΟΠΛΙΣΜΟΣ ΟΡΑΤΗ ΠΛΕΥΡΑ

X—Y
Z

Sector of system Quadrilateral Elements Group 2
Structure
upper Reinforcements in Elements in cm2/m, Design Case 100 (Max=0.855)

M 1 : 49

ΤΑΦΡΟΣ Τ1 (3.00x2.80x1.50)m
ΠΕΡΙΒΑΛΛΟΥΣΑ ΟΠΛΙΣΜΩΝ ΣΤΑΤΙΚΩΝ-ΣΕΙΣΜΙΚΩΝ



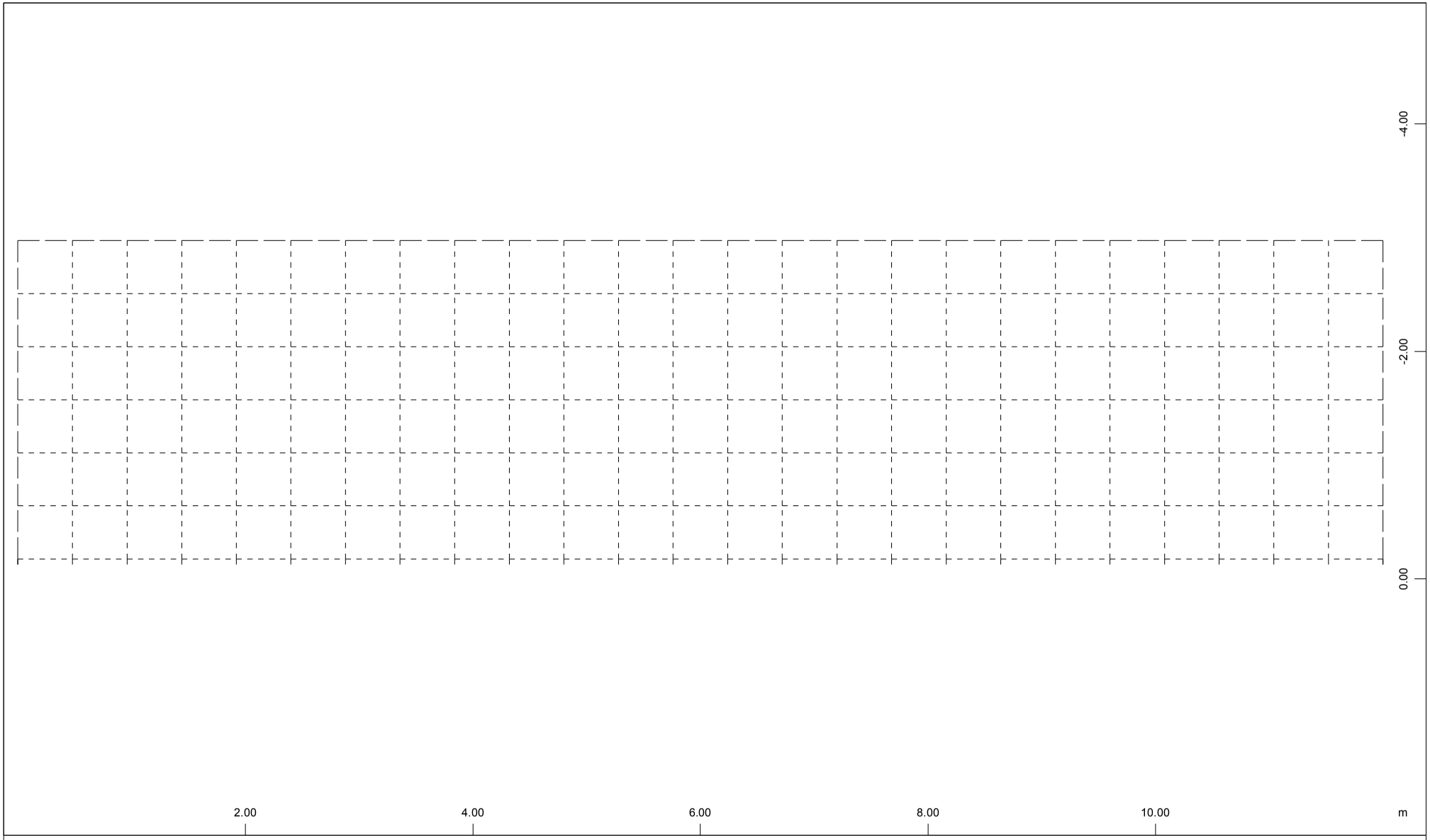
ΑΚΡΟΒΑΘΡΟ_-Χ
ΟΠΛΙΣΜΟΣ ΠΡΟΣ ΓΑΙΕΣ

X Y Z

Sector of system Quadrilateral Elements Group 2
lower Reinforcements in Elements in cm2/m, Design Case 100 (Max=6.89)
Structure

M 1 : 49

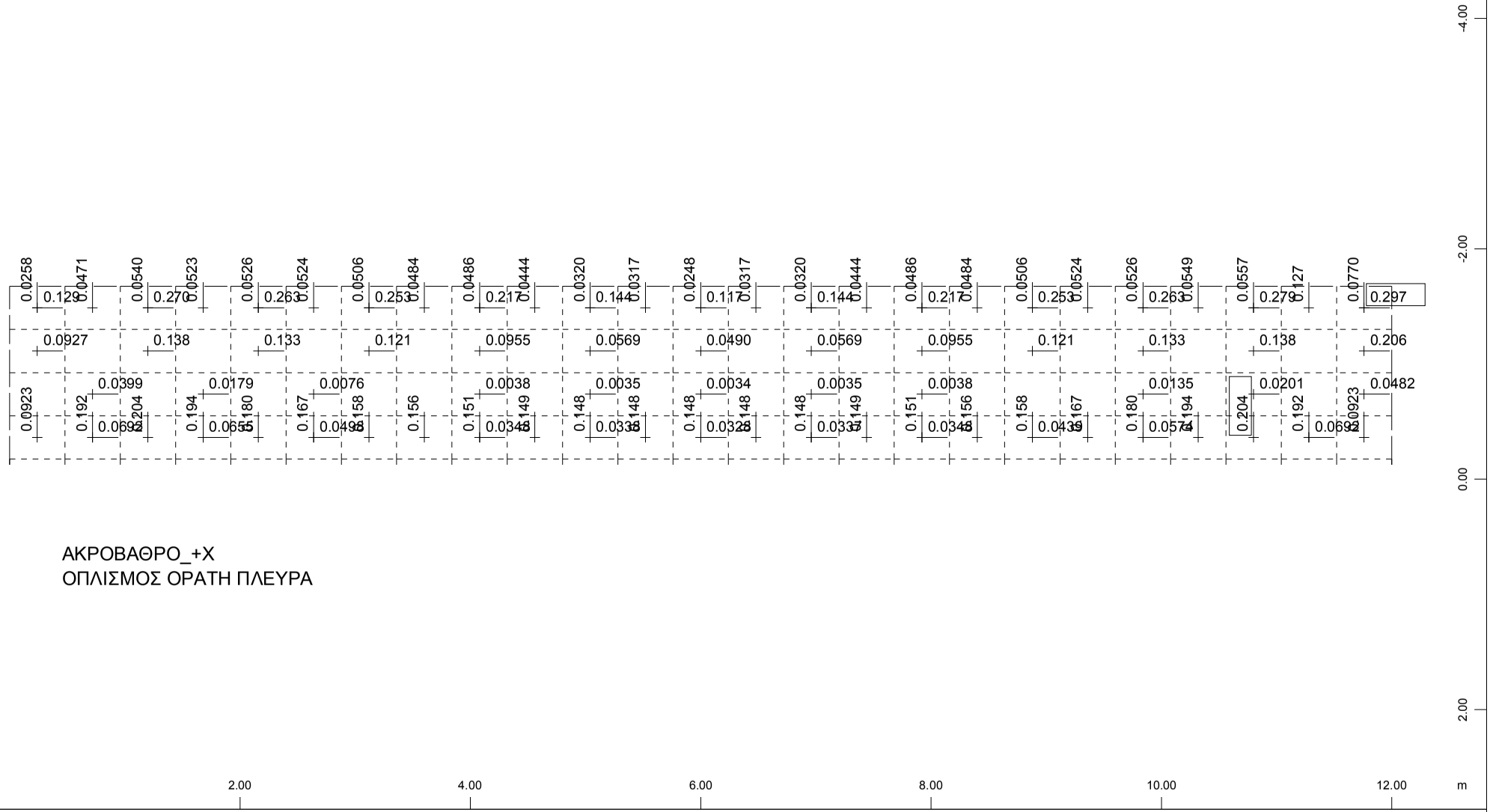
ΤΑΦΡΟΣ Τ1 (3.00x2.80x1.50)m
ΠΕΡΙΒΑΛΛΟΥΣΑ ΟΠΛΙΣΜΩΝ ΣΤΑΤΙΚΩΝ-ΣΕΙΣΜΙΚΩΝ

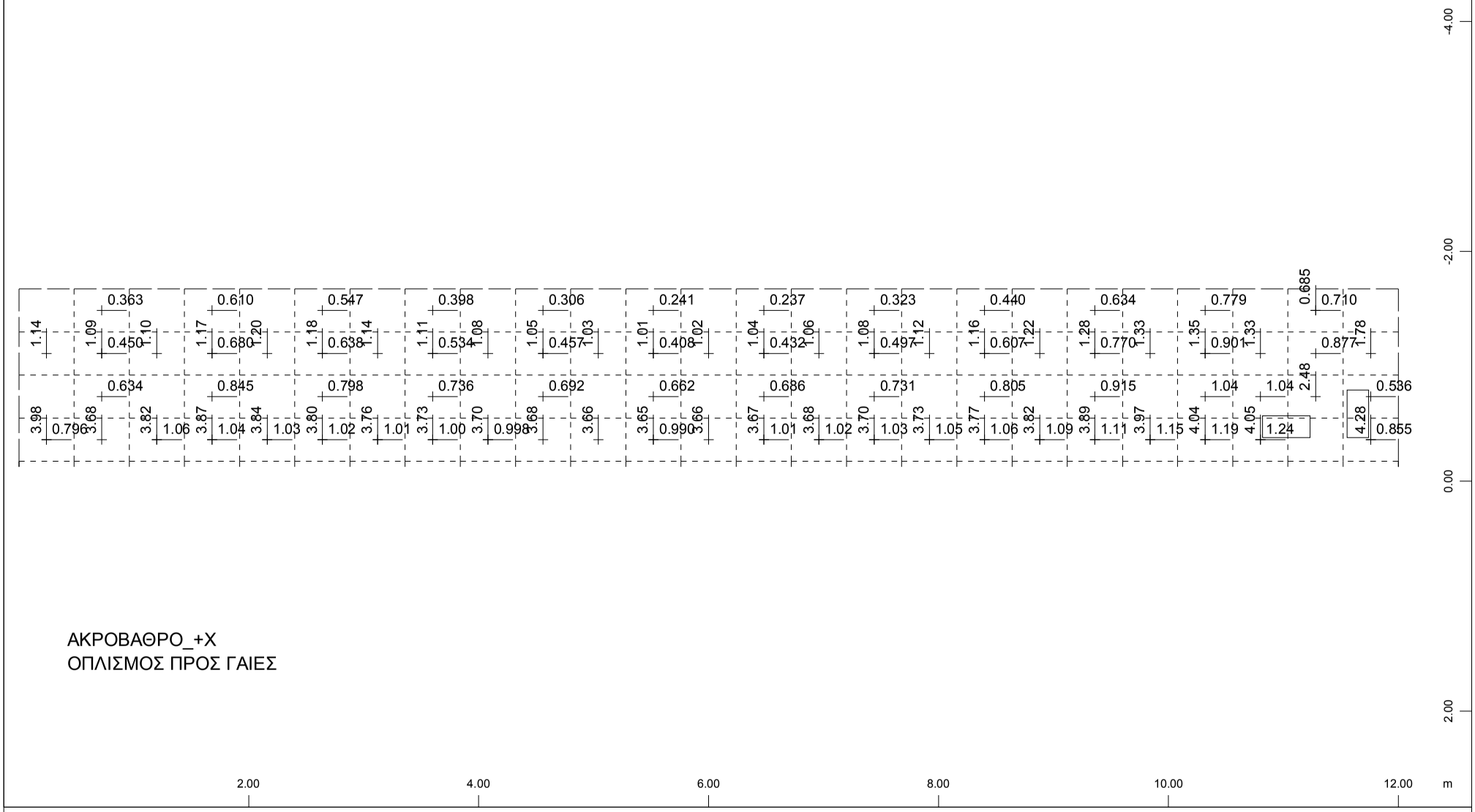


Sector of system Quadrilateral Elements Group 2
Structure

M 1 : 47

ΤΑΦΡΟΣ Τ1 (3.00x2.80x1.50)m
ΠΕΡΙΒΑΛΛΟΥΣΑ ΟΠΛΙΣΜΩΝ ΣΤΑΤΙΚΩΝ-ΣΕΙΣΜΙΚΩΝ


-4.00
-2.00
0.00
2.00
2.00
4.00
6.00
8.00
10.00
12.00
m
ΑΚΡΟΒΑΘΡΟ_+X
ΟΠΛΙΣΜΟΣ ΟΡΑΤΗ ΠΛΕΥΡΑ
Sector of system Quadrilateral Elements Group 3
Structure
upper Reinforcements in Elements in cm2/m, Design Case 100 (Max=0.297)
M 1 : 49

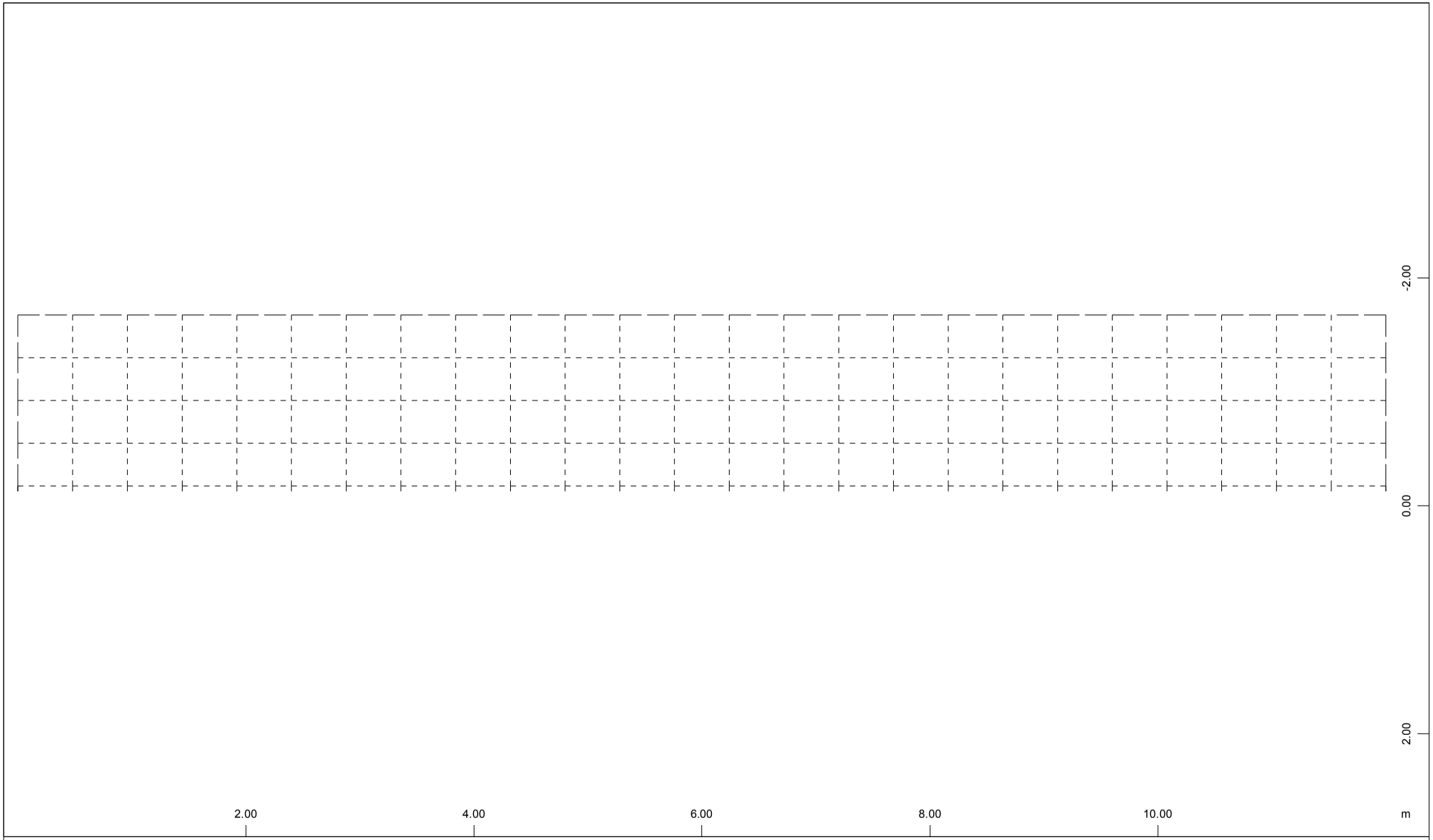


X—Y
Z

Sector of system Quadrilateral Elements Group 3
Structure
lower Reinforcements in Elements in cm2/m, Design Case 100 (Max=4.28)

M 1 : 48

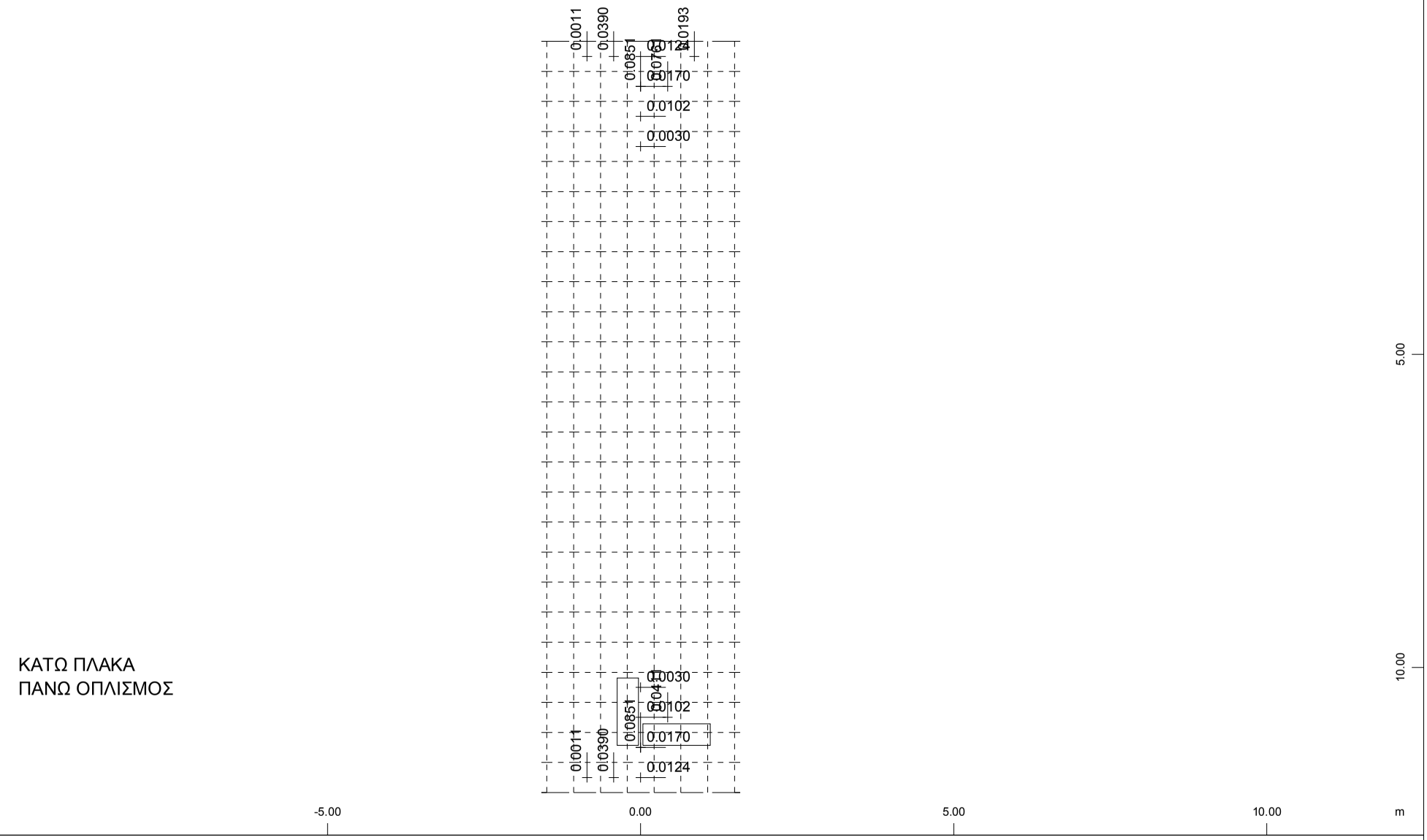
ΤΑΦΡΟΣ Τ1 (3.00x2.80x1.50)m
ΠΕΡΙΒΑΛΛΟΥΣΑ ΟΠΛΙΣΜΩΝ ΣΤΑΤΙΚΩΝ-ΣΕΙΣΜΙΚΩΝ



ΤΑΦΡΟΣ Τ1 (3.00x2.80x1.50)m
ΠΕΡΙΒΑΛΛΟΥΣΑ ΟΠΛΙΣΜΩΝ ΣΤΑΤΙΚΩΝ-ΣΕΙΣΜΙΚΩΝ

ΤΑΦΡΟΣ T1 (3.00x2.80x1.50)m

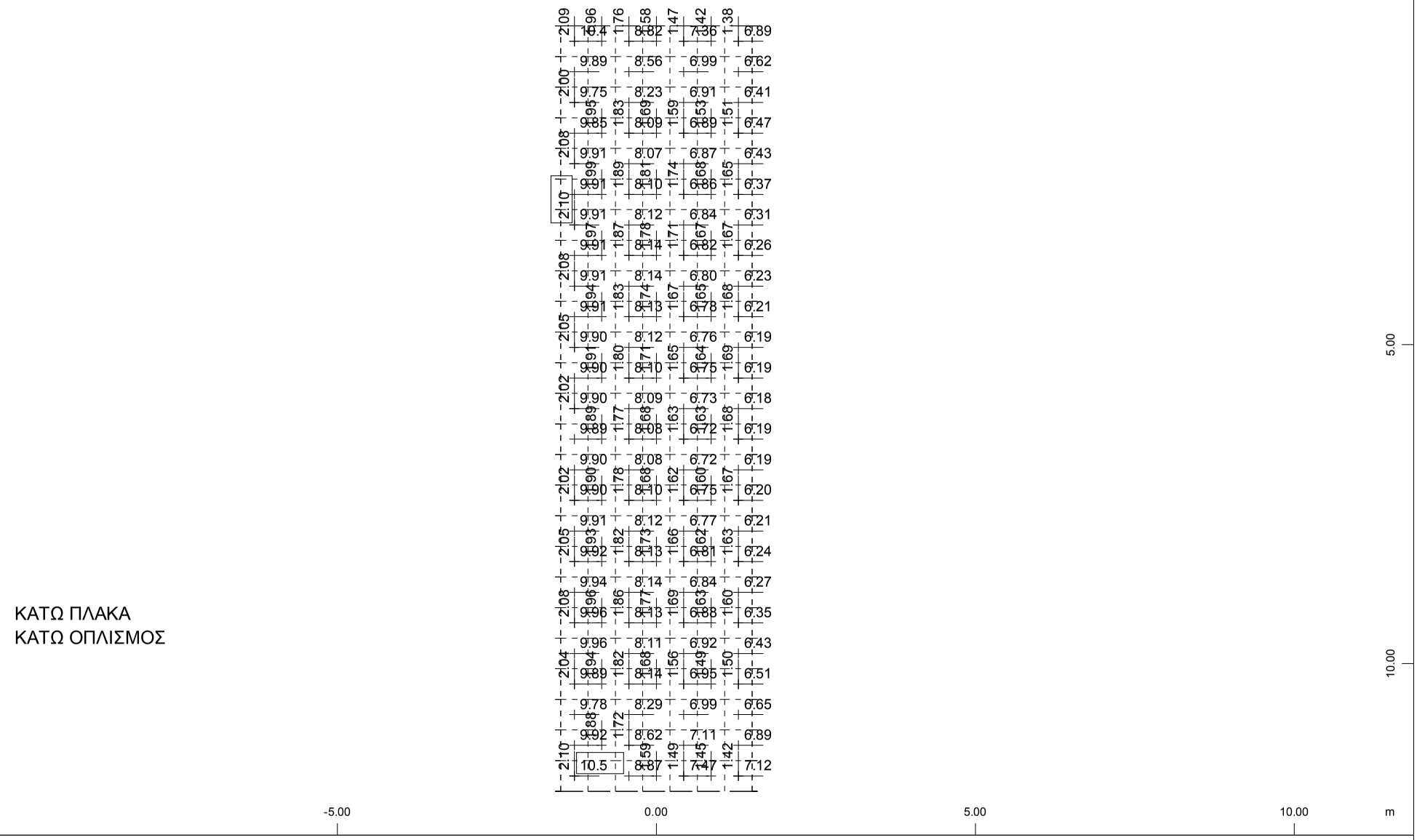
9.7 ΓΡΑΦΙΚΗ ΑΠΕΙΚΟΝΙΣΗ ΟΠΛΙΣΜΟΙ ULS-SEISMIKA (QH=1.00)



Sector of system Quadrilateral Elements Group 1
Structure
upper Reinforcements in Elements in cm2/m, Design Case 4 ULS design (Max=0.0851)

M 1 : 88

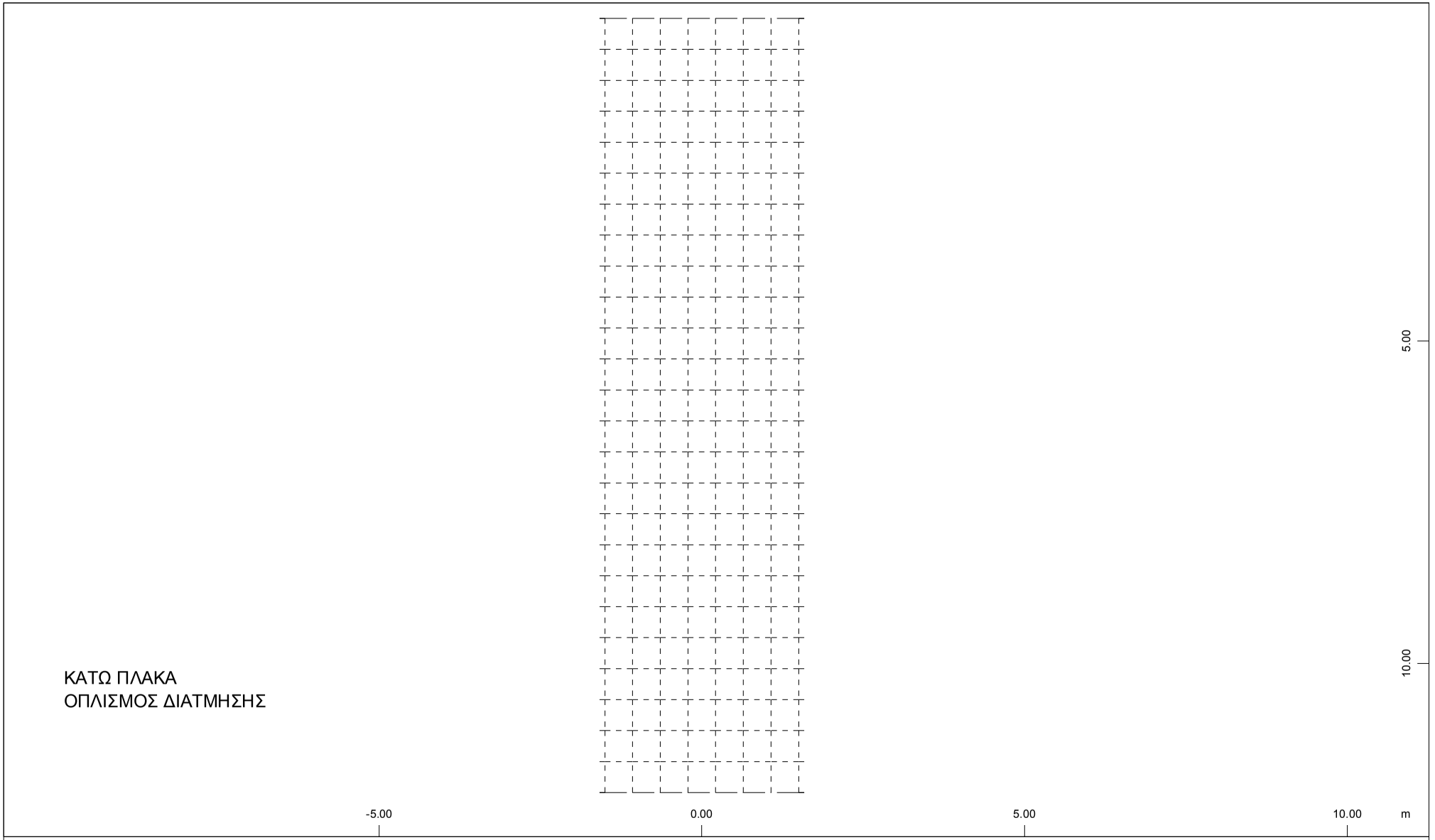
ΤΑΦΡΟΣ Τ1 (3.00x2.80x1.50)m
ΟΠΛΙΣΜΩΝ ULS-SEISMIKA (QH=1.00)

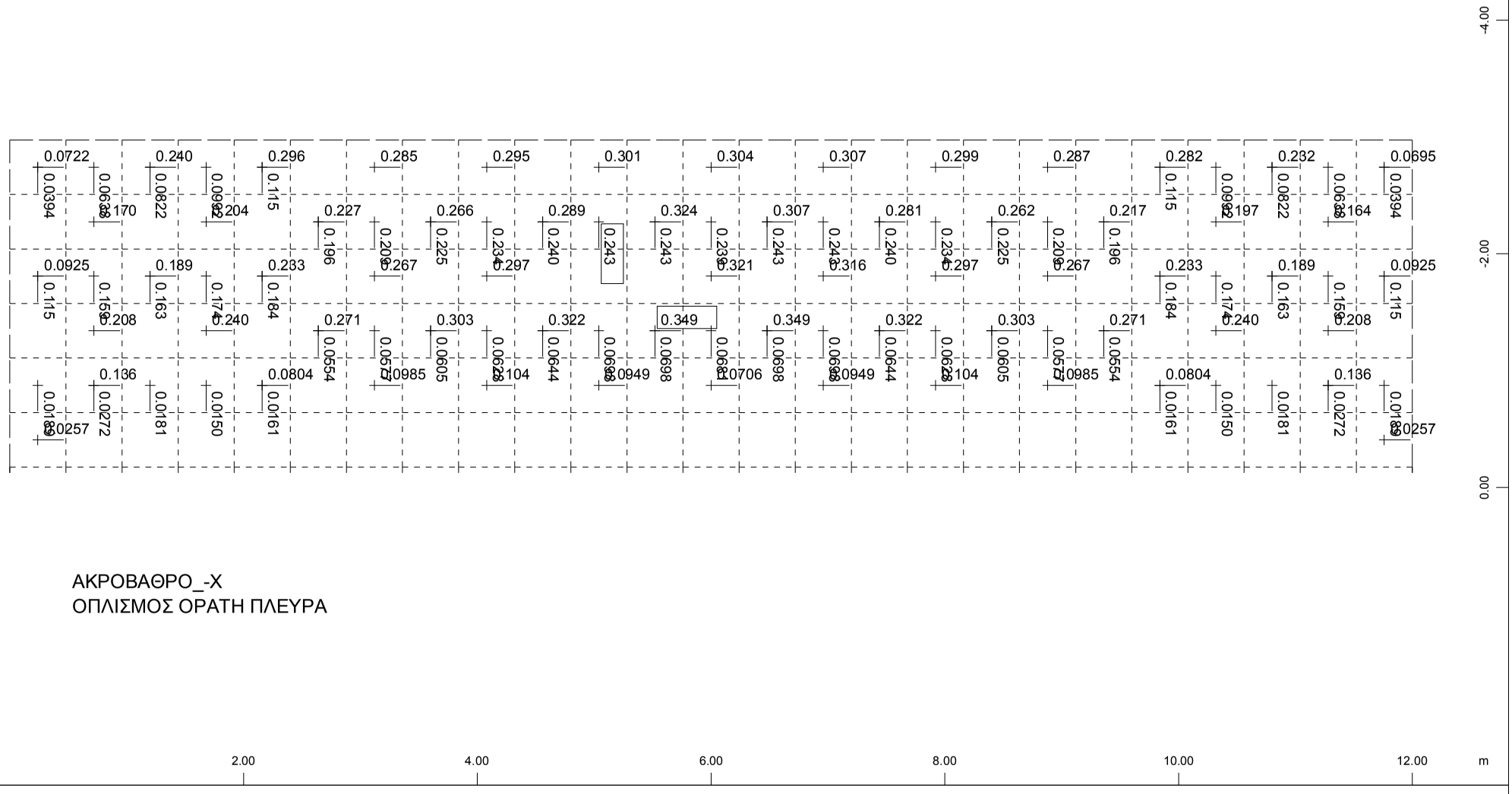


Sector of system Quadrilateral Elements Group 1
lower Reinforcements in Elements in cm2/m, Design Case 4 ULS design (Max=10.5)
Structure

M 1 : 86

ΤΑΦΡΟΣ Τ1 (3.00x2.80x1.50)m
ΟΠΛΙΣΜΩΝ ULS-SEISMIKA (QH=1.00)


ΚΑΤΩ ΠΛΑΚΑ
ΟΠΛΙΣΜΟΣ ΔΙΑΤΜΗΣΗΣ
5.00
10.00
-5.00
0.00
5.00
10.00
m
Z
X
Y
Sector of system Quadrilateral Elements Group 1
Structure
M 1 : 83

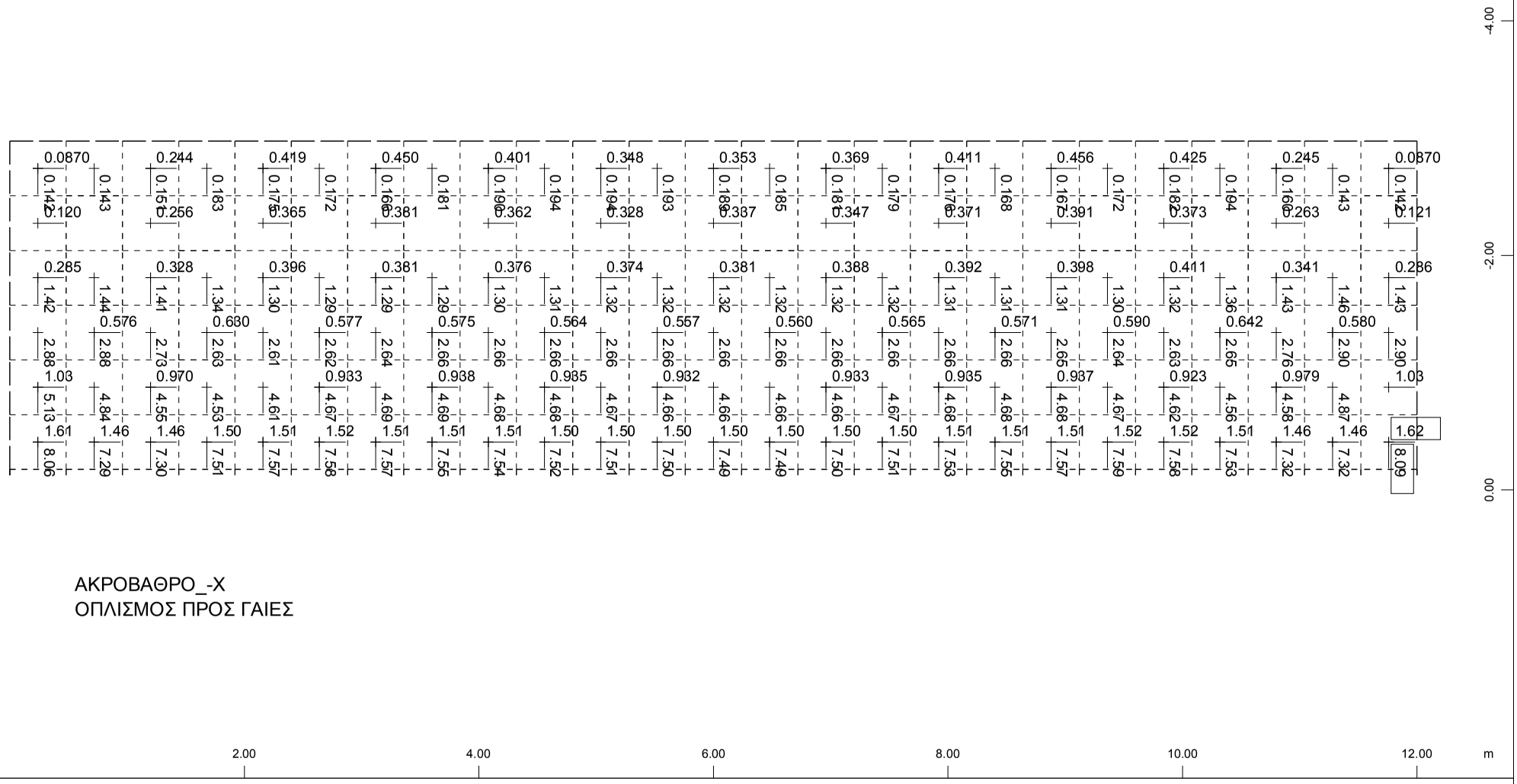


ΑΚΡΟΒΑΘΡΟ_-Χ
ΟΠΛΙΣΜΟΣ ΟΡΑΤΗ ΠΛΕΥΡΑ

X Y Z

Sector of system Quadrilateral Elements Group 2
Structure
upper Reinforcements in Elements in cm2/m, Design Case 4 ULS design (Max=0.349)

M 1 : 49

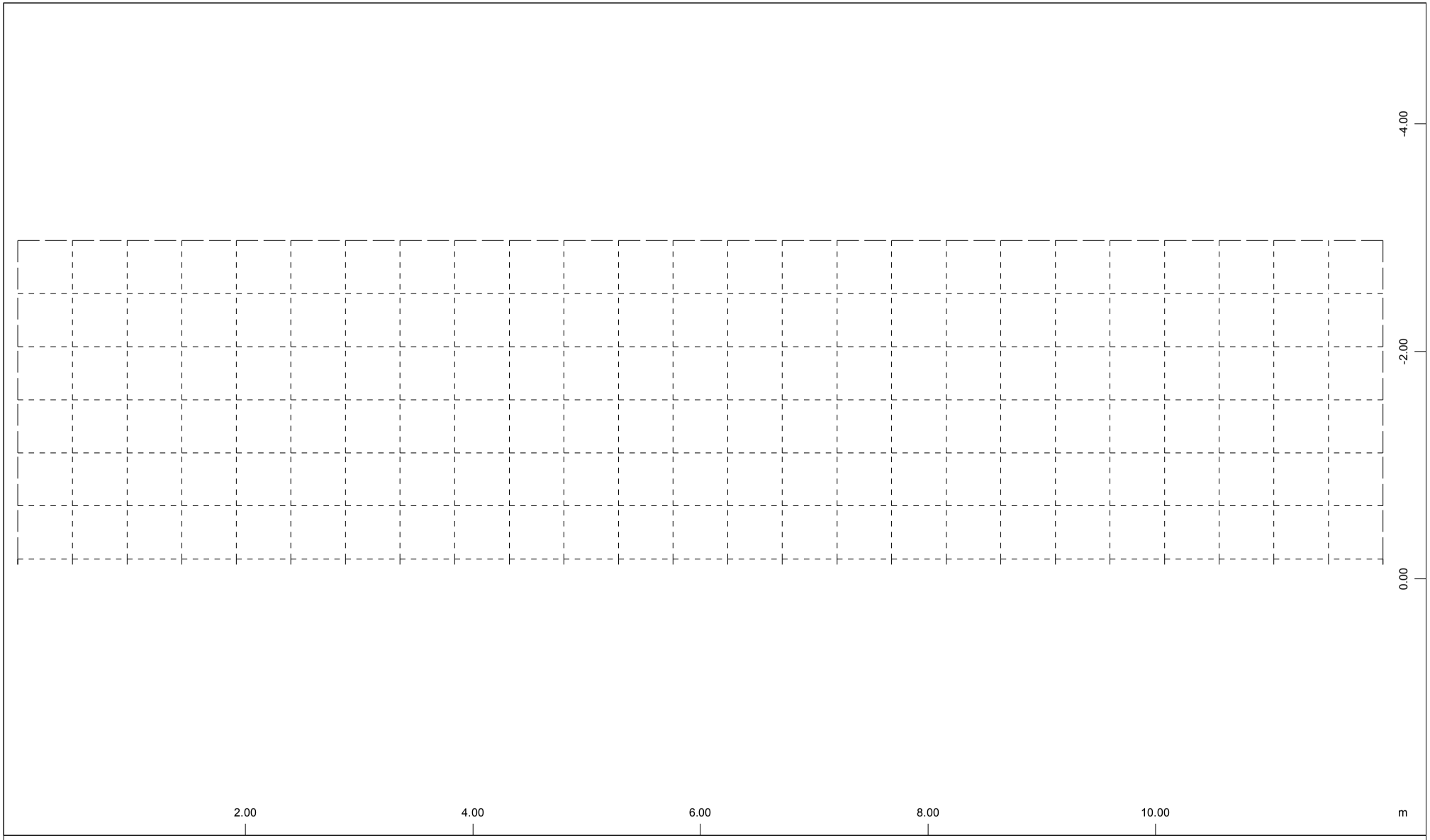


ΑΚΡΟΒΑΘΡΟ_-Χ
ΟΠΛΙΣΜΟΣ ΠΡΟΣ ΓΑΙΕΣ

X Y Z

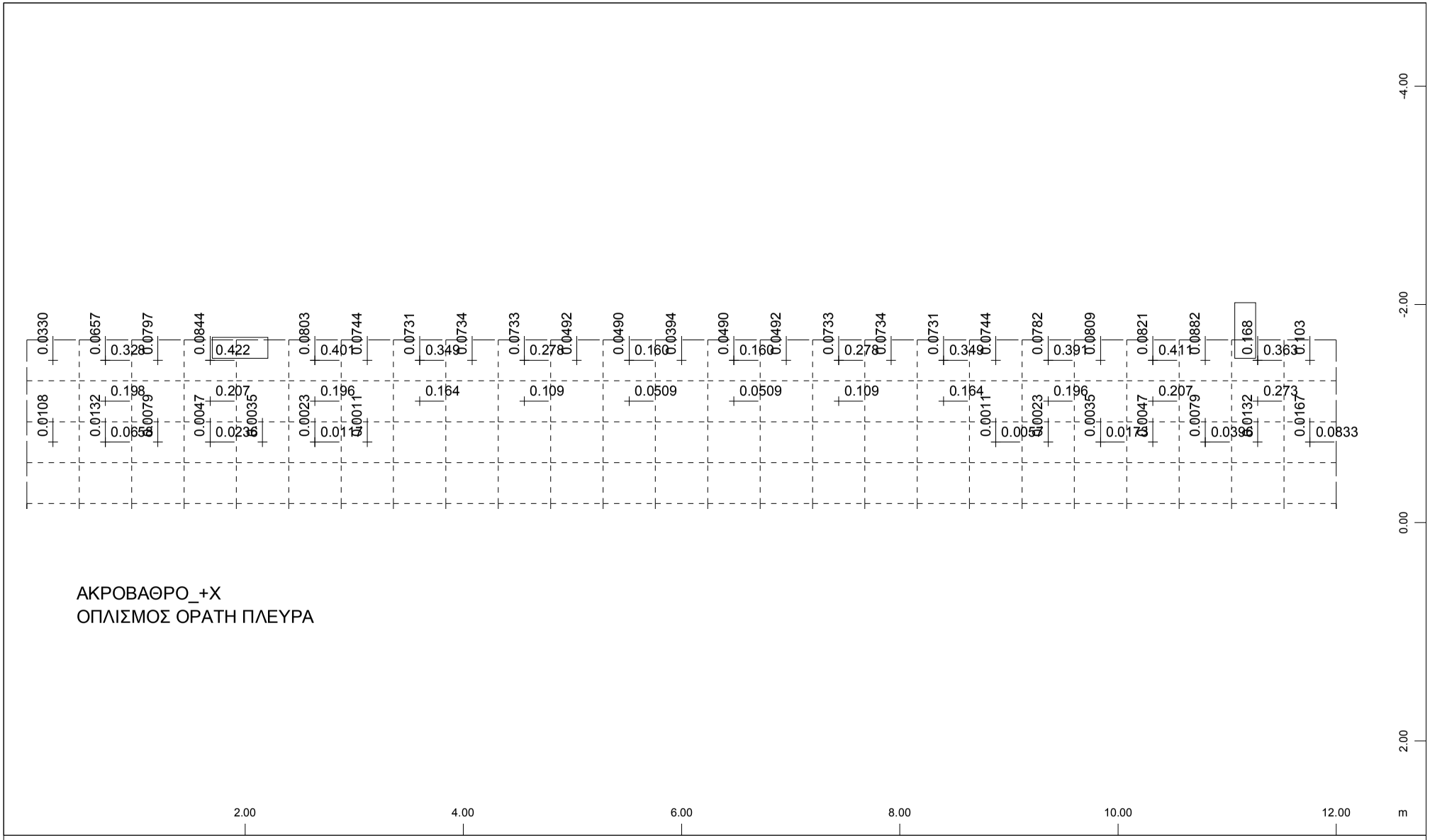
Sector of system Quadrilateral Elements Group 2
lower Reinforcements in Elements in cm2/m, Design Case 4 ULS design (Max=8.09)
Structure

M 1 : 49



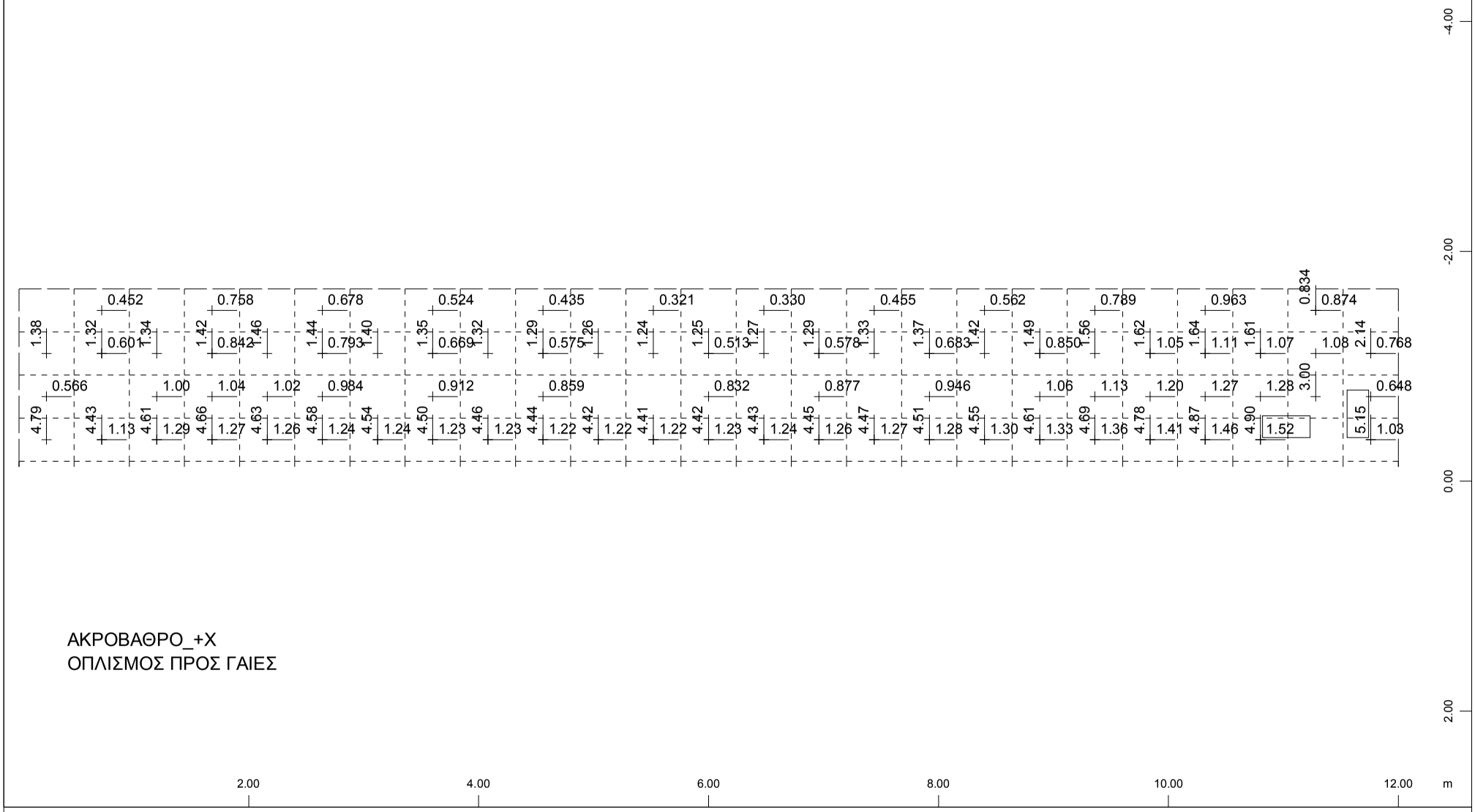
Sector of system Quadrilateral Elements Group 2
Structure

M 1 : 47



Sector of system Quadrilateral Elements Group 3
Structure
upper Reinforcements in Elements in cm2/m, Design Case 4 ULS design (Max=0.422)

M 1 : 49

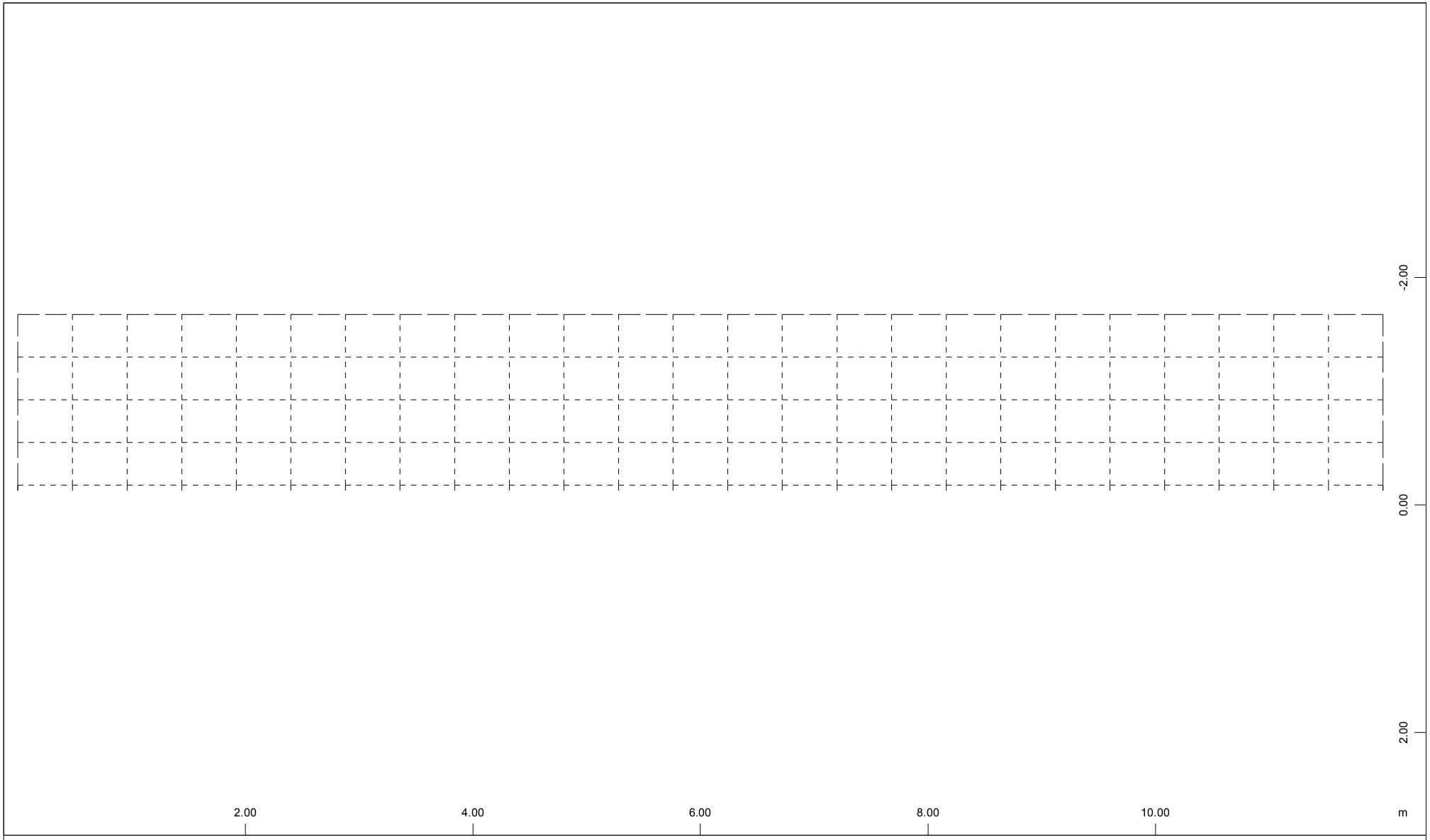


X—Y
Z

Sector of system Quadrilateral Elements Group 3
Structure
lower Reinforcements in Elements in cm2/m, Design Case 4 ULS design (Max=5.15)

M 1 : 48

ΤΑΦΡΟΣ Τ1 (3.00x2.80x1.50)m
ΟΠΛΙΣΜΩΝ ULS-SEISMIKA (QH=1.00)



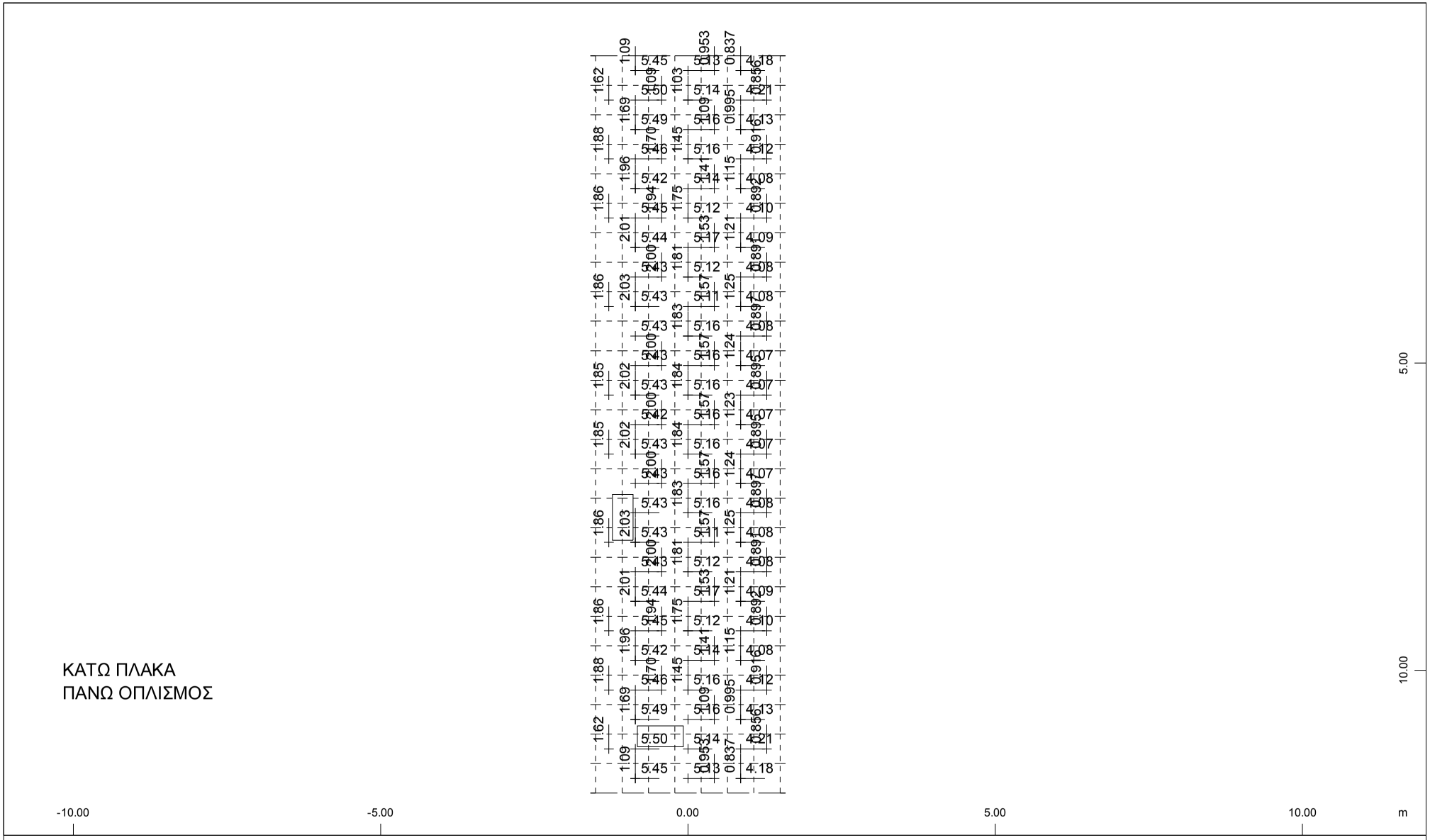
Sector of system Quadrilateral Elements Group 3
Structure

M 1 : 47

ΤΑΦΡΟΣ Τ1 (3.00x2.80x1.50)m
ΟΠΛΙΣΜΩΝ ULS-SEISMIKA (QH=1.00)

ΤΑΦΡΟΣ T1 (3.00x2.80x1.50)m

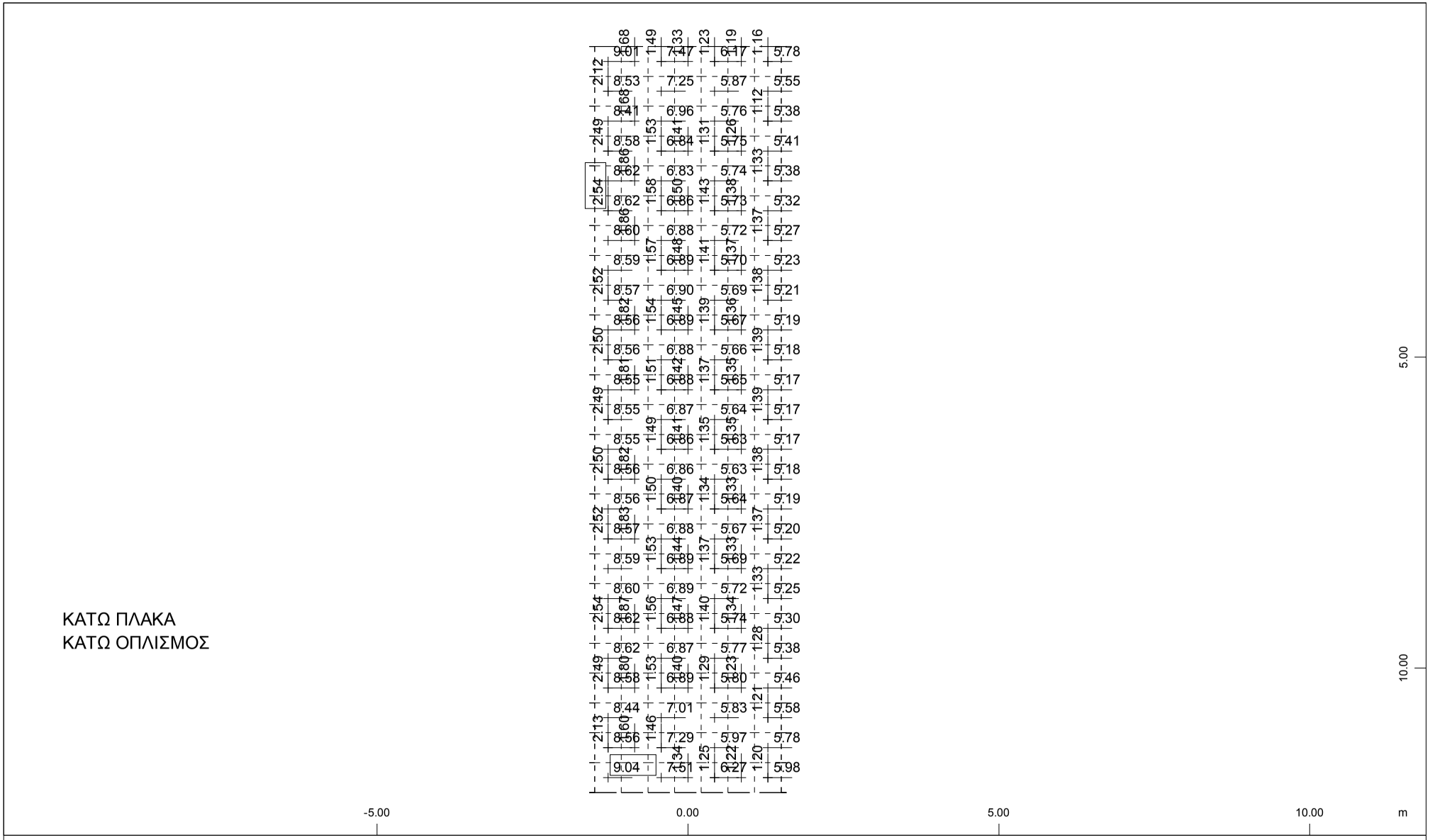
9.8 ΓΡΑΦΗΜΑΤΑ ΤΕΛΙΚΩΝ ΟΠΛΙΣΜΩΝ ΔΙΑΣΤΑΣΙΟΛΟΓΗΣΗΣ



Sector of system Quadrilateral Elements Group 1
Structure
upper Reinforcements in Elements in cm2/m, Design Case 400 SLS design (Max=5.50)

M 1 : 87

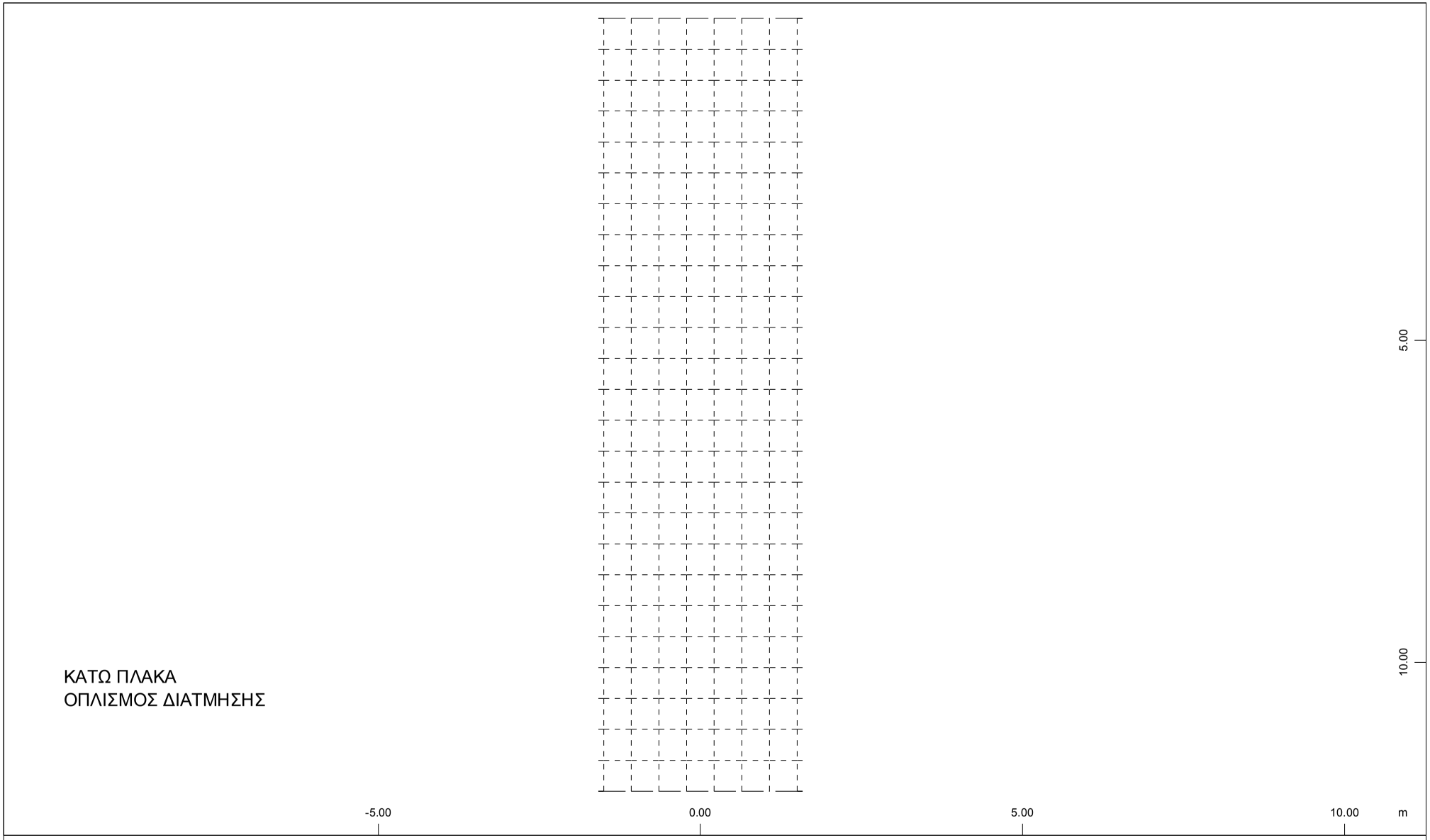
ΤΑΦΡΟΣ Τ1 (3.00x2.80x1.50)m
ΤΕΛΙΚΟΙ ΟΠΛΙΣΜΟΙ ΔΙΑΣΤΑΣΙΟΛΟΓΗΣΗΣ

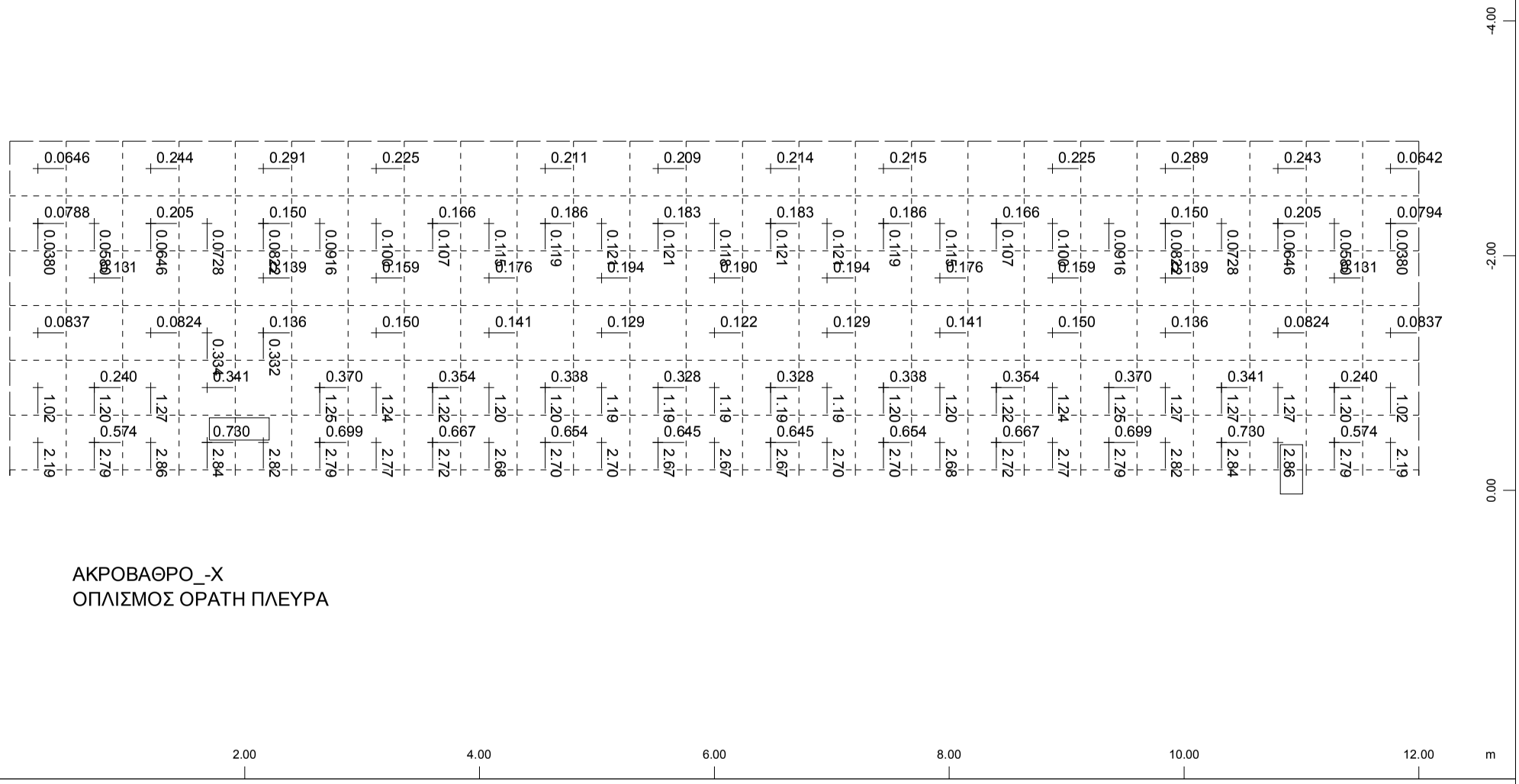


Sector of system Quadrilateral Elements Group 1
lower Reinforcements in Elements in cm2/m, Design Case 400 SLS design (Max=9.04)
Structure

M 1 : 86

ΤΑΦΡΟΣ Τ1 (3.00x2.80x1.50)m
ΤΕΛΙΚΟΙ ΟΠΛΙΣΜΟΙ ΔΙΑΣΤΑΣΙΟΛΟΓΗΣΗΣ


ΚΑΤΩ ΠΛΑΚΑ
ΟΠΛΙΣΜΟΣ ΔΙΑΤΜΗΣΗΣ
5.00
10.00
-5.00
0.00
5.00
10.00
m
Z
X
Y
Sector of system Quadrilateral Elements Group 1
Structure
M 1 : 83

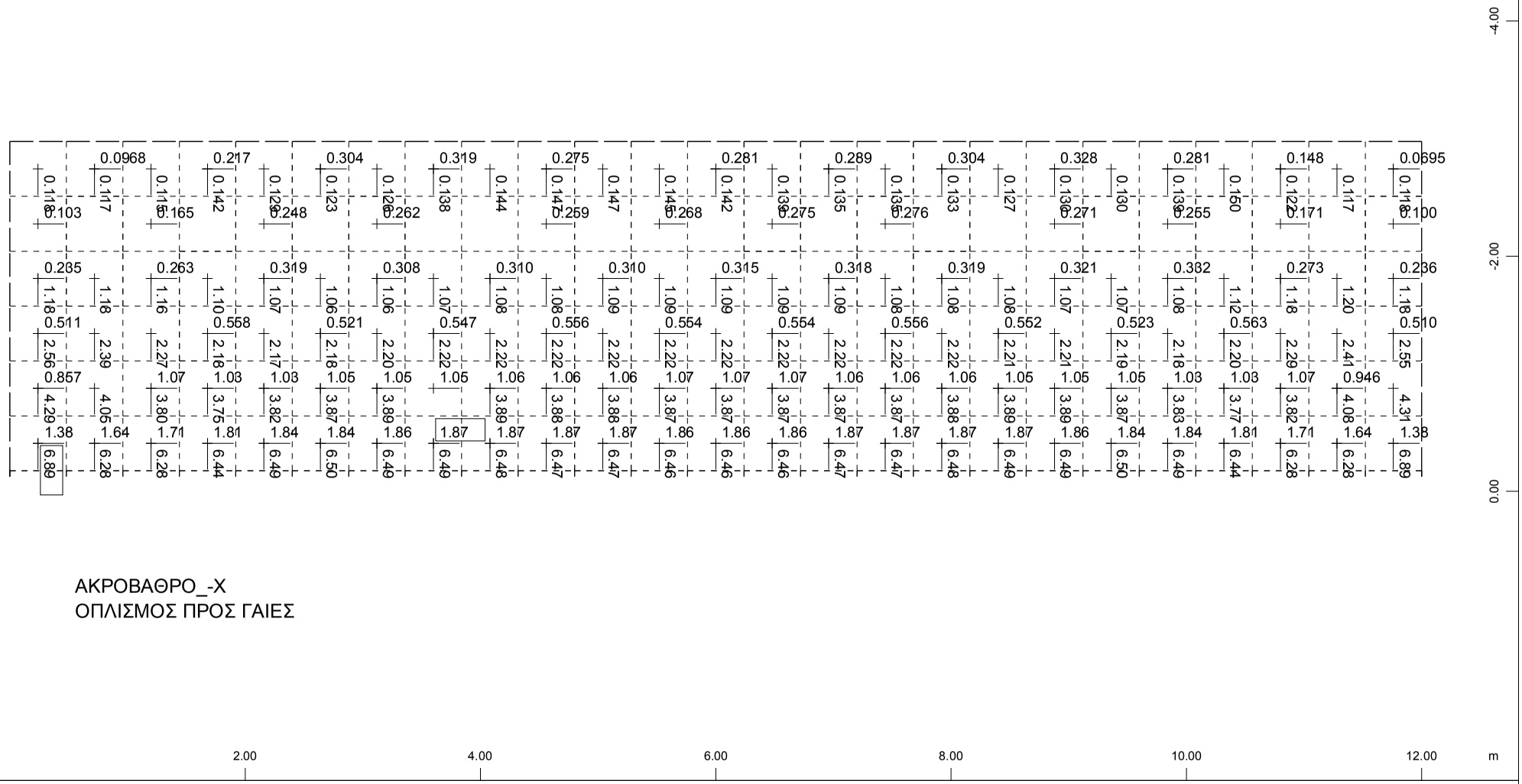


ΑΚΡΟΒΑΘΡΟ_-Χ
ΟΠΛΙΣΜΟΣ ΟΡΑΤΗ ΠΛΕΥΡΑ

X—Y
Z

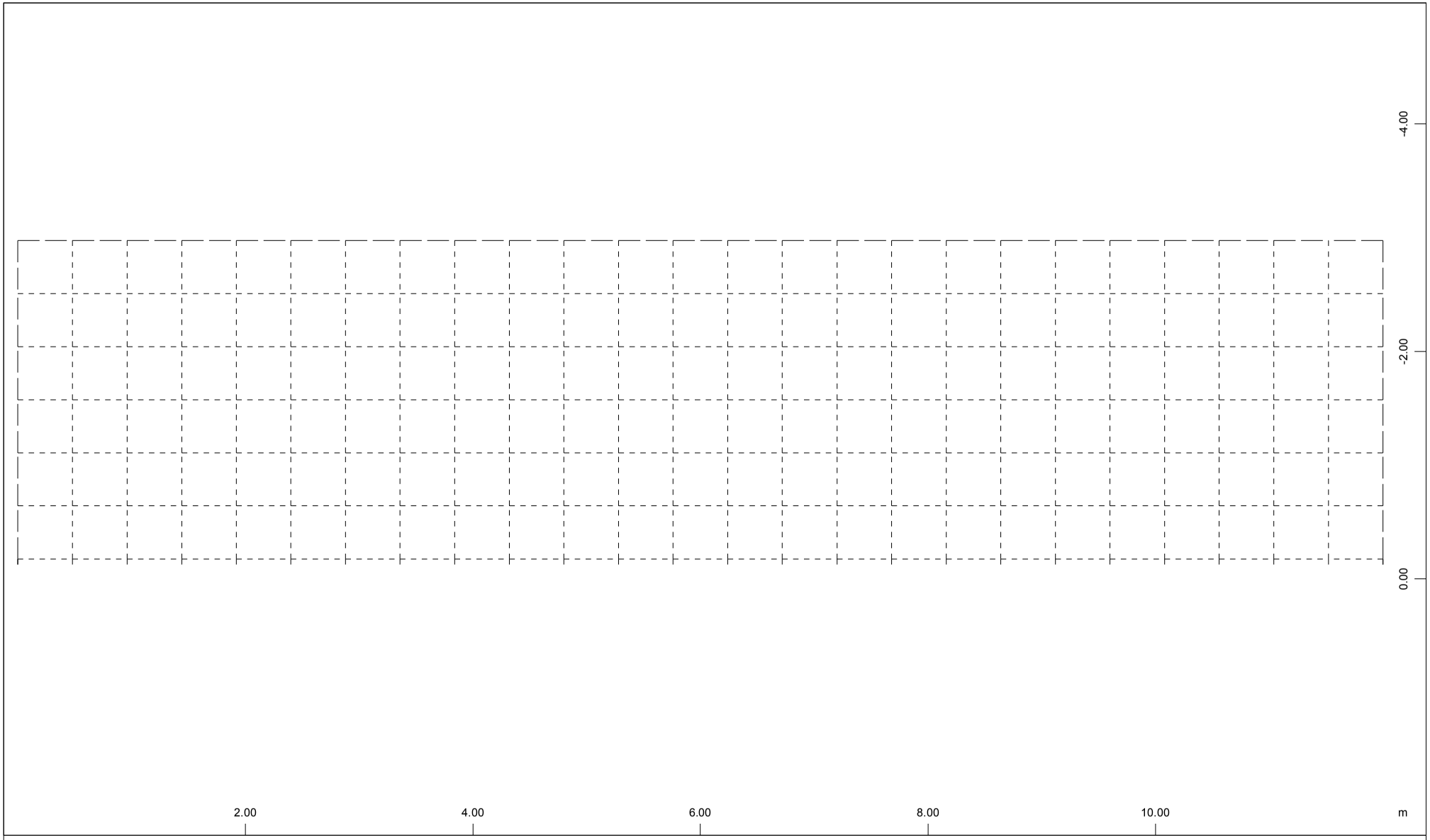
Sector of system Quadrilateral Elements Group 2
Structure
upper Reinforcements in Elements in cm2/m, Design Case 400 SLS design (Max=2.86)

M 1 : 49



Sector of system Quadrilateral Elements Group 2
lower Reinforcements in Elements in cm2/m, Design Case 400 SLS design (Max=6.89)
Structure

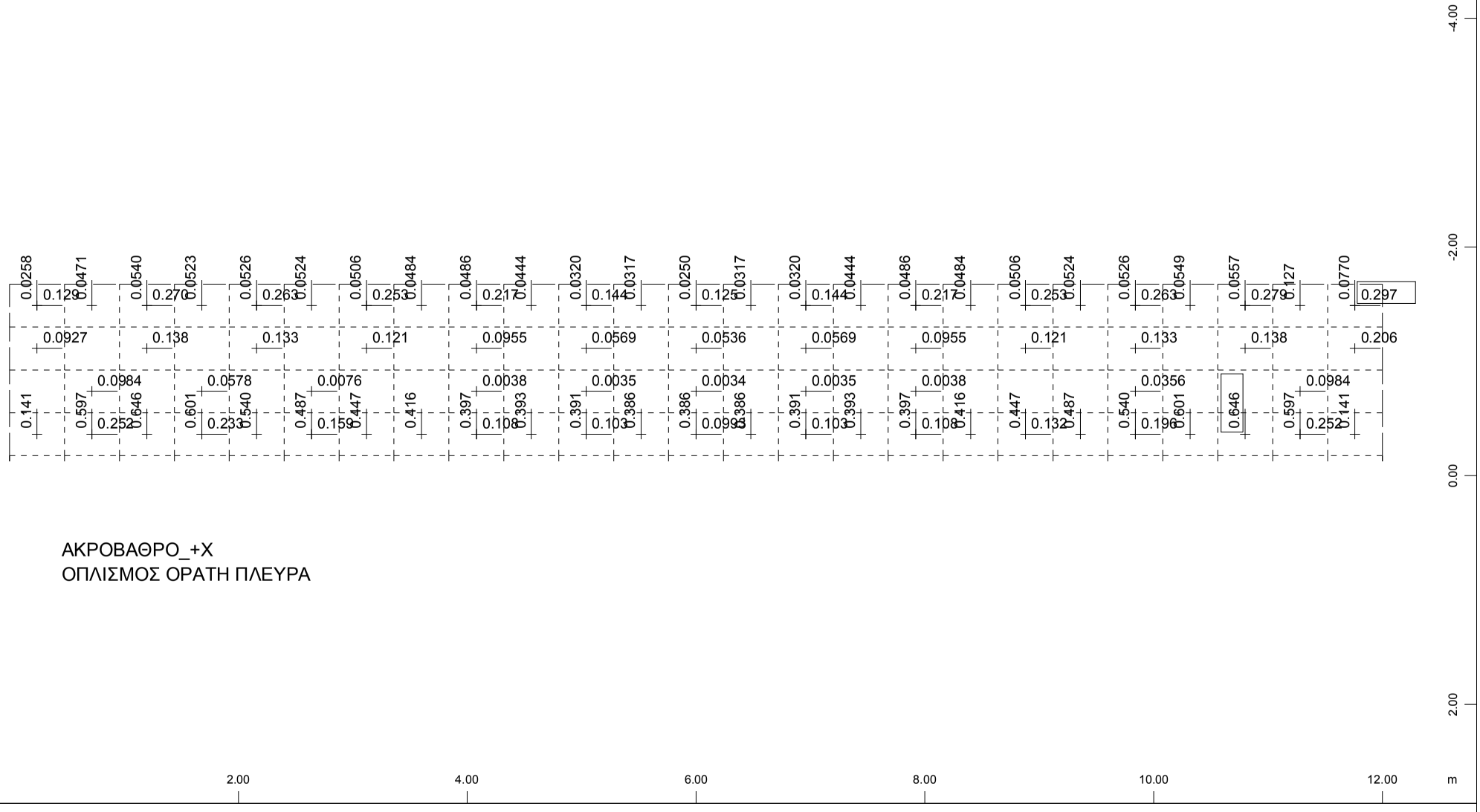
M 1 : 49



Sector of system Quadrilateral Elements Group 2
Structure

M 1 : 47

ΤΑΦΡΟΣ Τ1 (3.00x2.80x1.50)m
ΤΕΛΙΚΟΙ ΟΠΛΙΣΜΟΙ ΔΙΑΣΤΑΣΙΟΛΟΓΗΣΗΣ

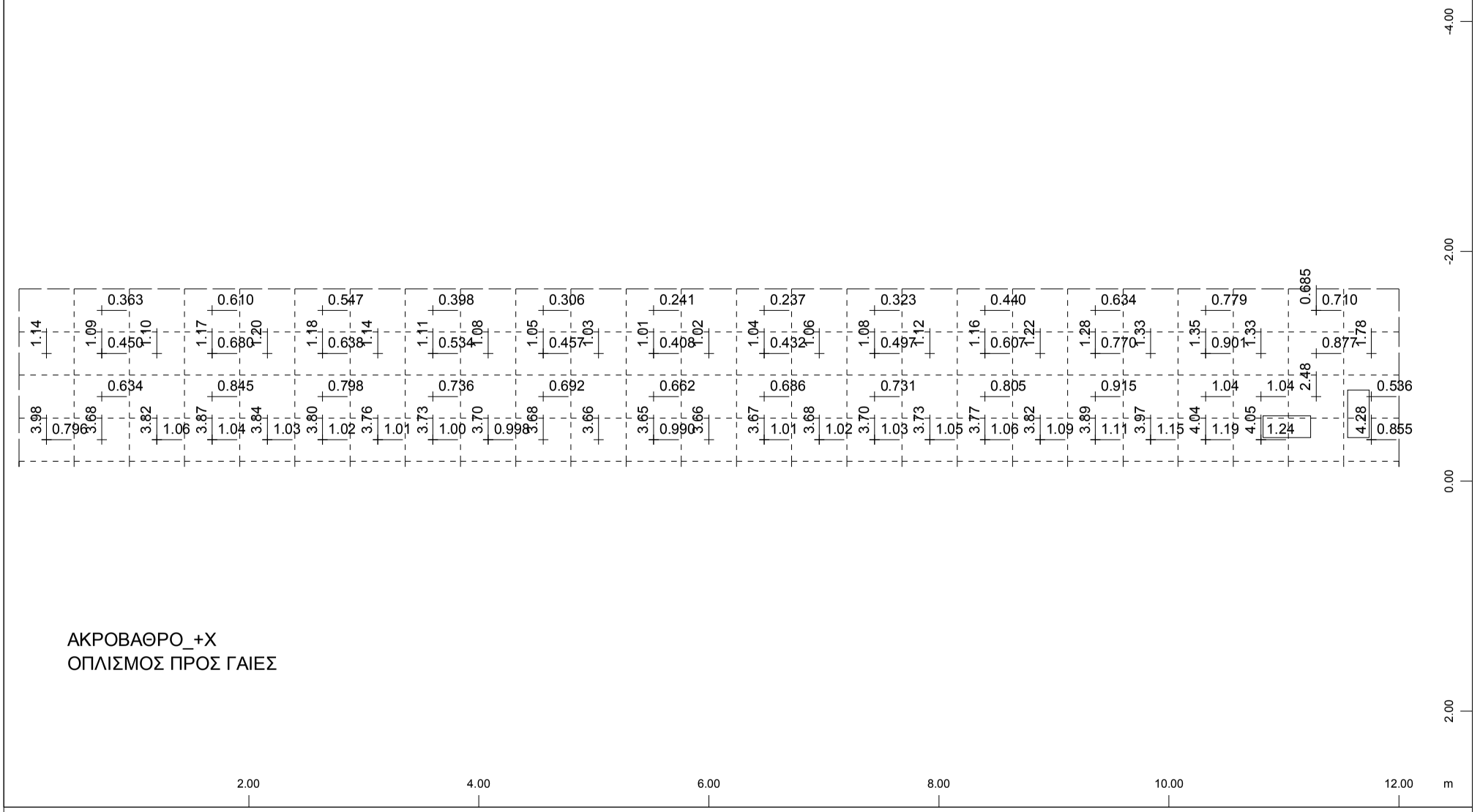


ΑΚΡΟΒΑΘΡΟ_+X
ΟΠΛΙΣΜΟΣ ΟΡΑΤΗ ΠΛΕΥΡΑ

X Y Z

Sector of system Quadrilateral Elements Group 3
Structure
upper Reinforcements in Elements in cm2/m, Design Case 400 SLS design (Max=0.646)

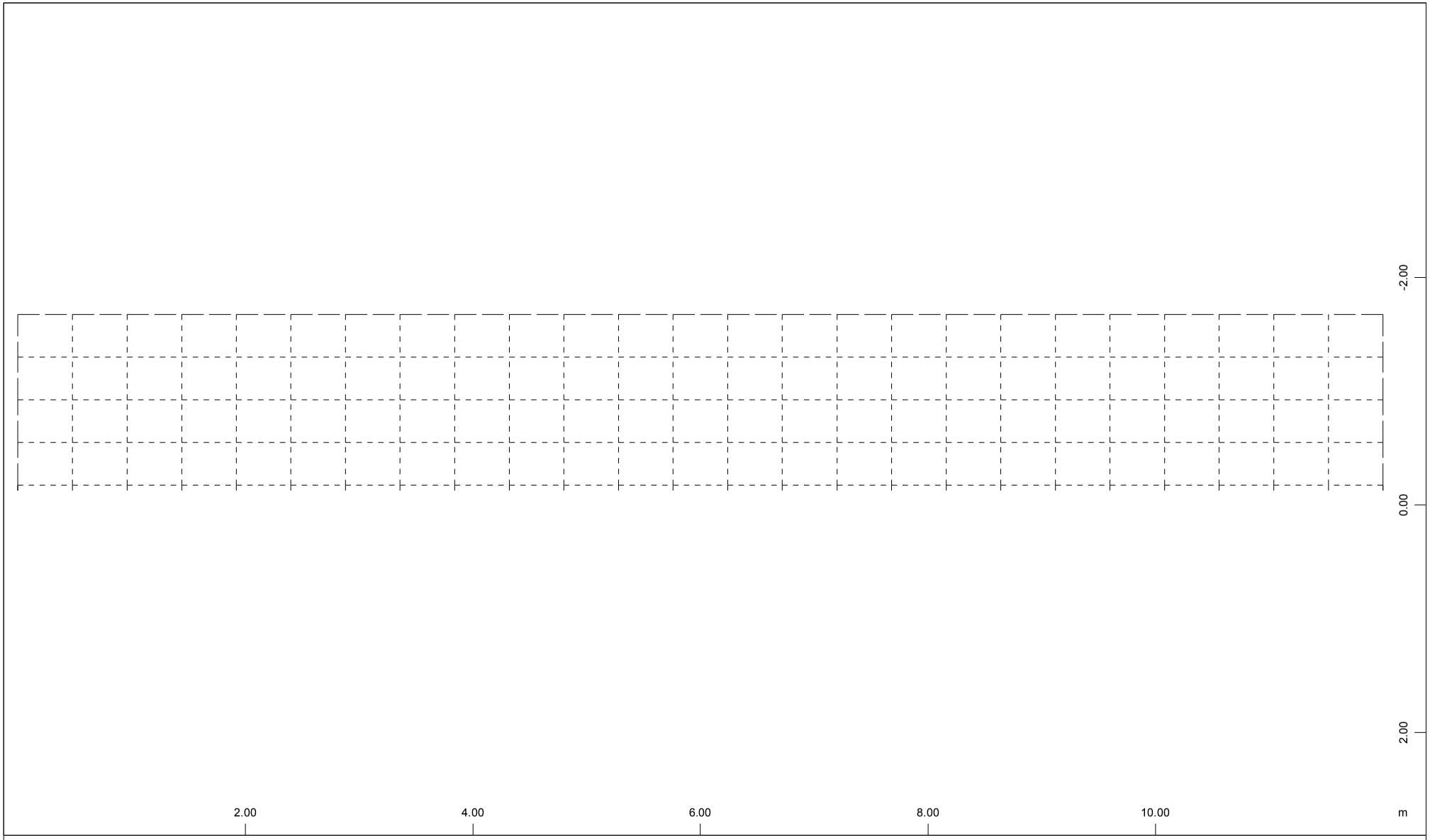
M 1 : 49



Sector of system Quadrilateral Elements Group 3
Structure
lower Reinforcements in Elements in cm2/m, Design Case 400 SLS design (Max=4.28)

M 1 : 48

ΤΑΦΡΟΣ Τ1 (3.00x2.80x1.50)m
ΤΕΛΙΚΟΙ ΟΠΛΙΣΜΟΙ ΔΙΑΣΤΑΣΙΟΛΟΓΗΣΗΣ



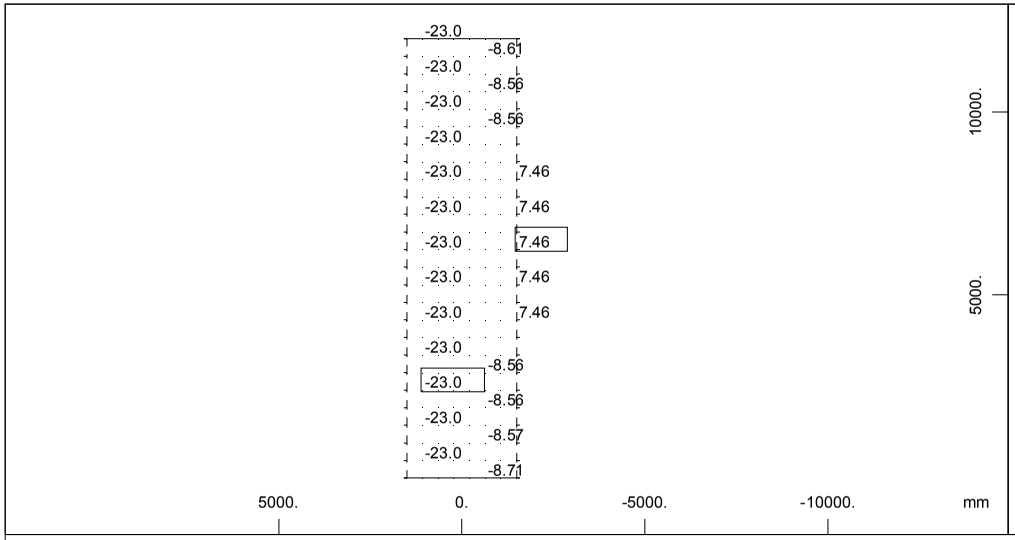
Sector of system Quadrilateral Elements Group 3
Structure

M 1 : 47

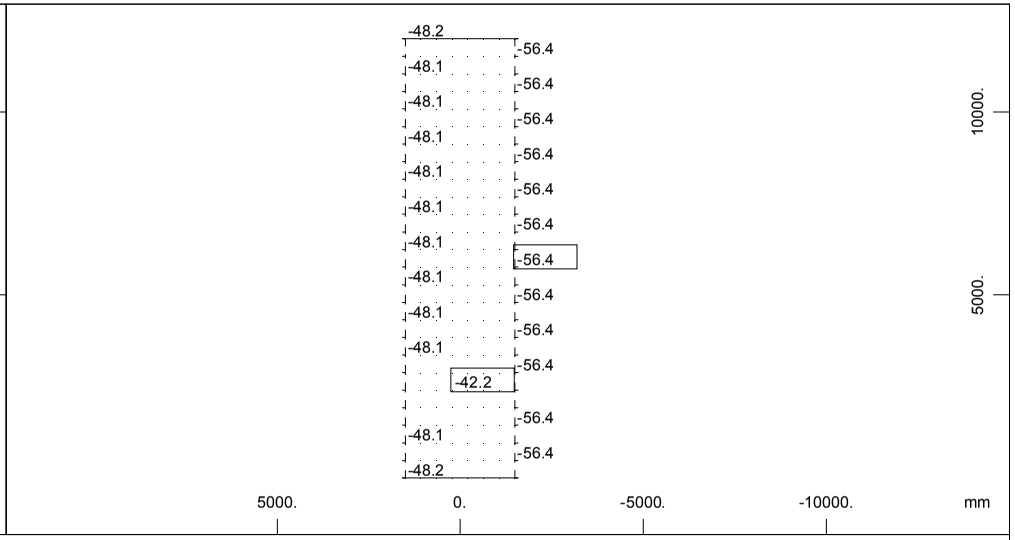
ΤΑΦΡΟΣ Τ1 (3.00x2.80x1.50)m
ΤΕΛΙΚΟΙ ΟΠΛΙΣΜΟΙ ΔΙΑΣΤΑΣΙΟΛΟΓΗΣΗΣ

ΤΑΦΡΟΣ T1 (3.00x2.80x1.50)m

9.9 ΓΡΑΦΗΜΑΤΑ ΤΑΣΕΩΝ ΘΕΜΕΛΙΩΣΗΣ



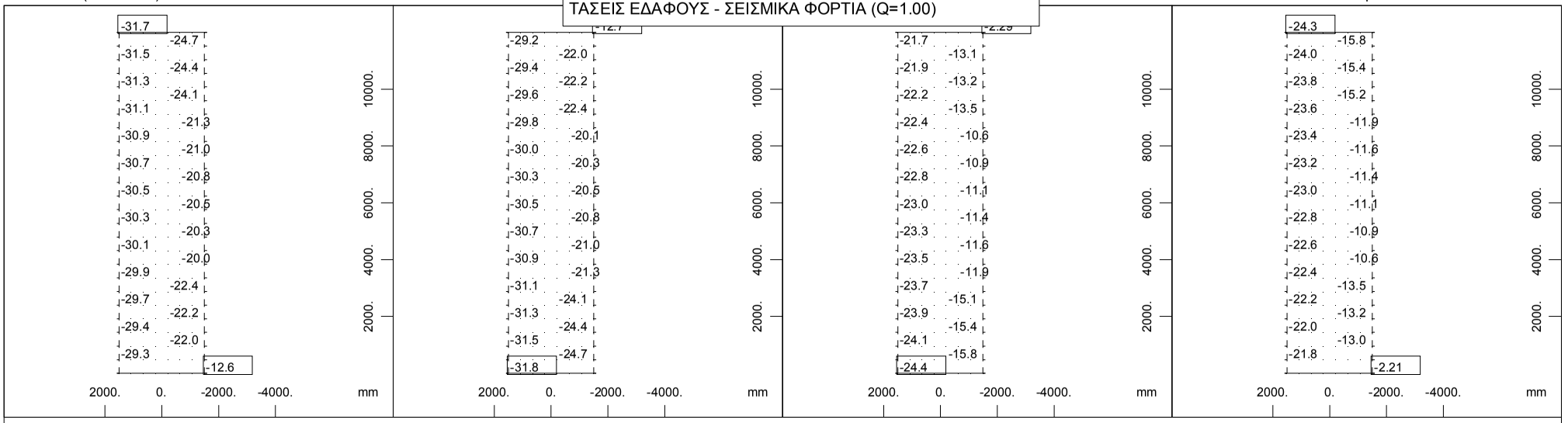
Y
X Z
Sector of system Quadrilateral Elements Group 1 M 1 : 206
Bedding stress in Nodes, Loadcase 1201 MAX-P QUAD bedd.stres
, 1 cm 3D = 20.0 kN/m2 += -= (Min=-23.0) (Max=7.46)



Y
X Z
Sector of system Quadrilateral Elements Group 1 M 1 : 206
Bedding stress in Nodes, Loadcase 1202 MIN-P QUAD bedd.stres
, 1 cm 3D = 50.0 kN/m2 += -= (Min=-56.4) (Max=-42.2)

ΤΑΦΡΟΣ Τ1 (3.00x2.80x1.50)m

ΤΑΣΕΙΣ ΕΔΑΦΟΥΣ - ΣΕΙΣΜΙΚΑ ΦΟΡΤΙΑ (Q=1.00)



Y X Z

Sector of system Quadrilateral
Elements Group 1
Bedding stress in Nodes,
nonlinear Loadcase 2101 ΣΕΙΣΜΟΣ
+1.0EX+0.3EY+0.3EZ , 1 cm 3D =

M 1 : 206

Sector of system Quadrilateral
Elements Group 1
Bedding stress in Nodes,
nonlinear Loadcase 2102 ΣΕΙΣΜΟΣ
+1.0EX-0.3EY+0.3EZ , 1 cm 3D =

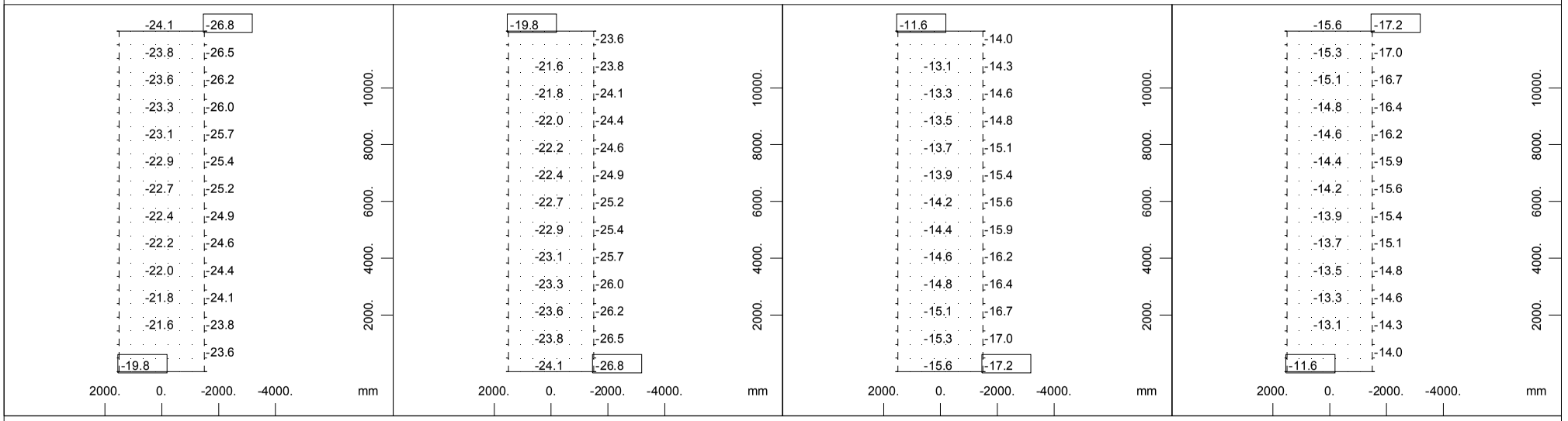
M 1 : 206

Sector of system Quadrilateral
Elements Group 1
Bedding stress in Nodes,
nonlinear Loadcase 2103 ΣΕΙΣΜΟΣ
+1.0EX-0.3EY-0.3EZ , 1 cm 3D =

M 1 : 206

Sector of system Quadrilateral
Elements Group 1
Bedding stress in Nodes,
nonlinear Loadcase 2104 ΣΕΙΣΜΟΣ
+1.0EX+0.3EY-0.3EZ , 1 cm 3D =

M 1 : 206



Y X Z

Sector of system Quadrilateral
Elements Group 1
Bedding stress in Nodes,
nonlinear Loadcase 2105 ΣΕΙΣΜΟΣ
-1.0EX+0.3EY+0.3EZ , 1 cm 3D =

M 1 : 206

Sector of system Quadrilateral
Elements Group 1
Bedding stress in Nodes,
nonlinear Loadcase 2106 ΣΕΙΣΜΟΣ
-1.0EX-0.3EY+0.3EZ , 1 cm 3D =

M 1 : 206

Sector of system Quadrilateral
Elements Group 1
Bedding stress in Nodes,
nonlinear Loadcase 2107 ΣΕΙΣΜΟΣ
-1.0EX-0.3EY-0.3EZ , 1 cm 3D =

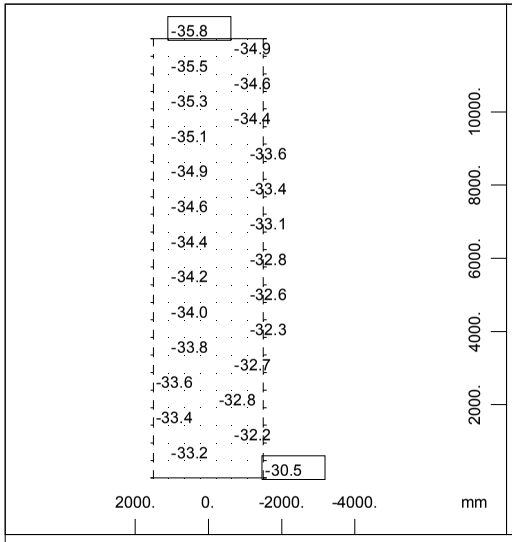
M 1 : 206

Sector of system Quadrilateral
Elements Group 1
Bedding stress in Nodes,
nonlinear Loadcase 2108 ΣΕΙΣΜΟΣ
-1.0EX+0.3EY-0.3EZ , 1 cm 3D =

M 1 : 206

ΤΑΦΡΟΣ Τ1 (3.00x2.80x1.50)m

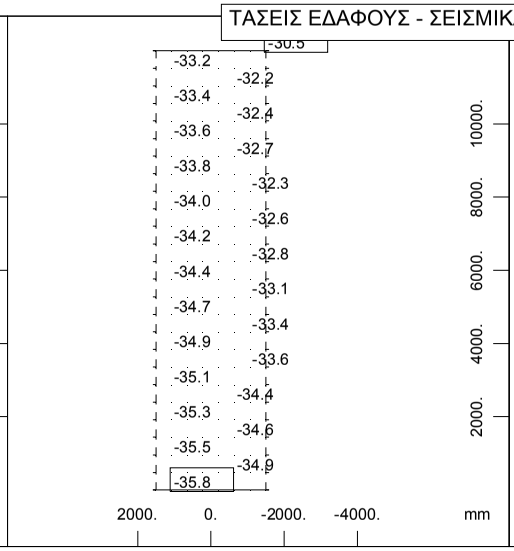
ΤΑΣΕΙΣ ΕΔΑΦΟΥΣ - ΣΕΙΣΜΙΚΑ ΦΟΡΤΙΑ (Q=1.00)



Y
X—Z

Sector of system Quadrilateral
Elements Group 1
Bedding stress in Nodes,
nonlinear Loadcase 2121 ΣΕΙΣΜΟΣ
+0.3EX+0.3EY+1.0EZ , 1 cm 3D =

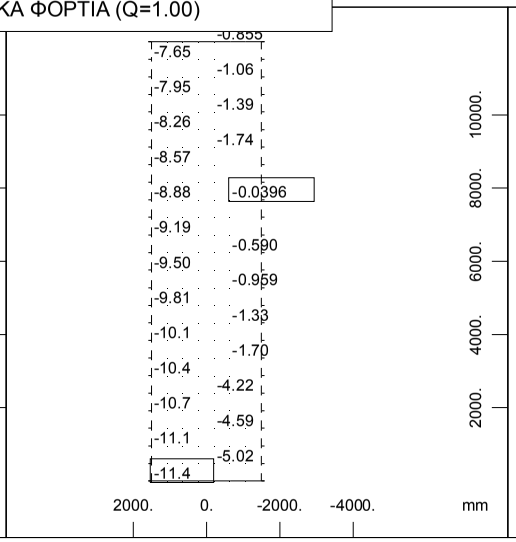
M 1 : 206



Y
X—Z

Sector of system Quadrilateral
Elements Group 1
Bedding stress in Nodes,
nonlinear Loadcase 2122 ΣΕΙΣΜΟΣ
+0.3EX-0.3EY+1.0EZ , 1 cm 3D =

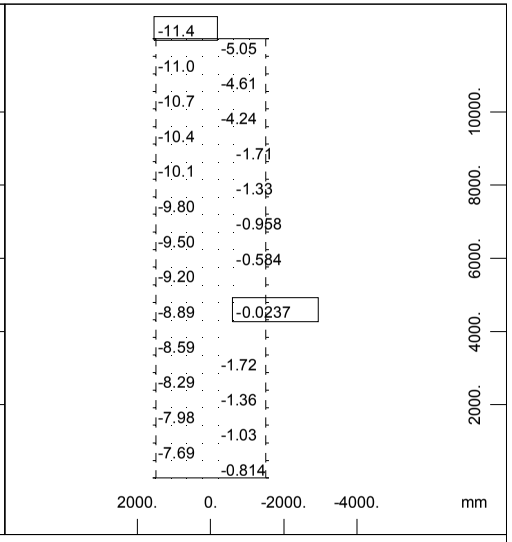
M 1 : 206



Y
X—Z

Sector of system Quadrilateral
Elements Group 1
Bedding stress in Nodes,
nonlinear Loadcase 2123 ΣΕΙΣΜΟΣ
+0.3EX-0.3EY-1.0EZ , 1 cm 3D =

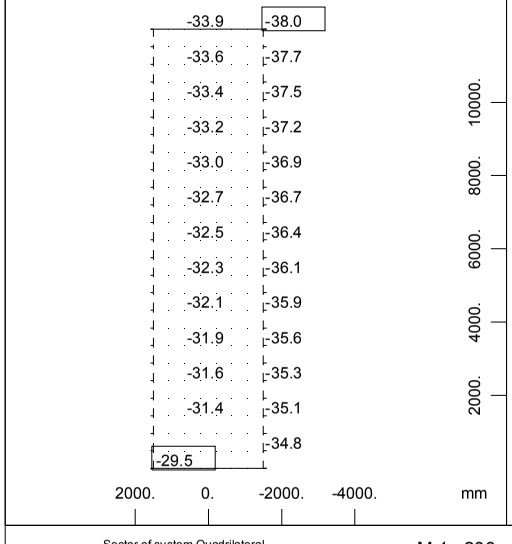
M 1 : 206



Y
X—Z

Sector of system Quadrilateral
Elements Group 1
Bedding stress in Nodes,
nonlinear Loadcase 2124 ΣΕΙΣΜΟΣ
+0.3EX+0.3EY-1.0EZ , 1 cm 3D =

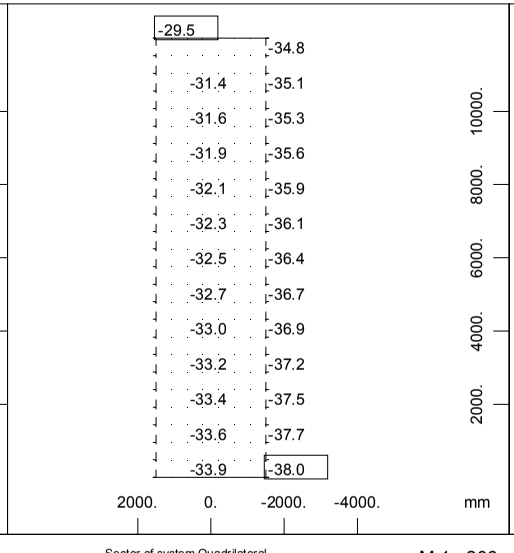
M 1 : 206



Y
X—Z

Sector of system Quadrilateral
Elements Group 1
Bedding stress in Nodes,
nonlinear Loadcase 2125 ΣΕΙΣΜΟΣ
-0.3EX+0.3EY+1.0EZ , 1 cm 3D =

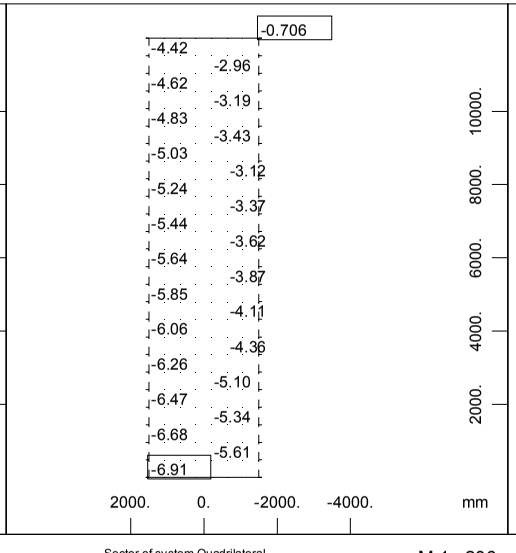
M 1 : 206



Y
X—Z

Sector of system Quadrilateral
Elements Group 1
Bedding stress in Nodes,
nonlinear Loadcase 2126 ΣΕΙΣΜΟΣ
-0.3EX-0.3EY+1.0EZ , 1 cm 3D =

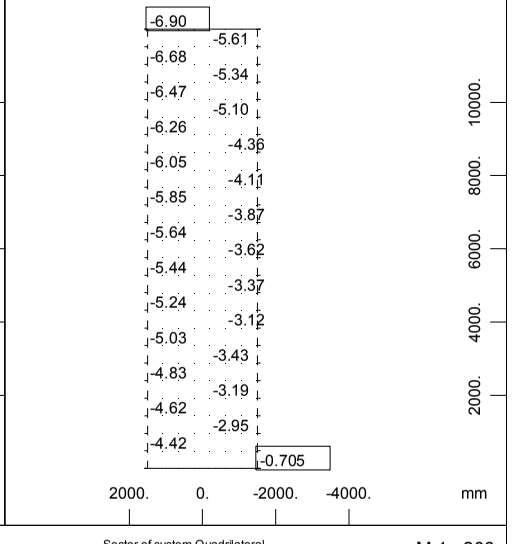
M 1 : 206



Y
X—Z

Sector of system Quadrilateral
Elements Group 1
Bedding stress in Nodes,
nonlinear Loadcase 2127 ΣΕΙΣΜΟΣ
-0.3EX-0.3EY-1.0EZ , 1 cm 3D =

M 1 : 206



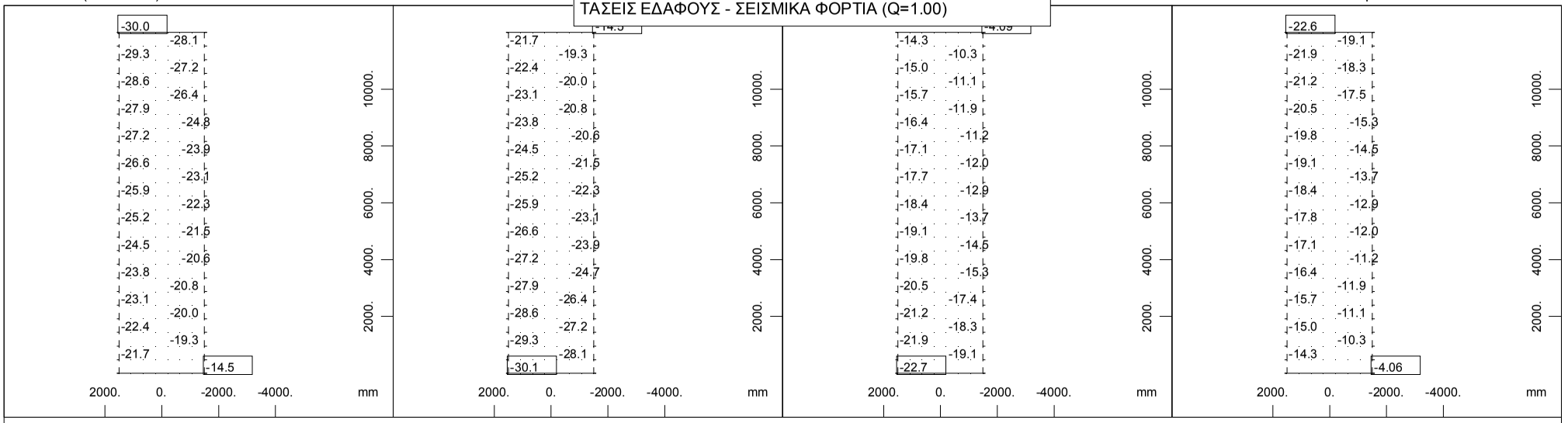
Y
X—Z

Sector of system Quadrilateral
Elements Group 1
Bedding stress in Nodes,
nonlinear Loadcase 2128 ΣΕΙΣΜΟΣ
-0.3EX+0.3EY-1.0EZ , 1 cm 3D =

M 1 : 206

ΤΑΦΡΟΣ Τ1 (3.00x2.80x1.50)m

ΤΑΣΕΙΣ ΕΔΑΦΟΥΣ - ΣΕΙΣΜΙΚΑ ΦΟΡΤΙΑ (Q=1.00)

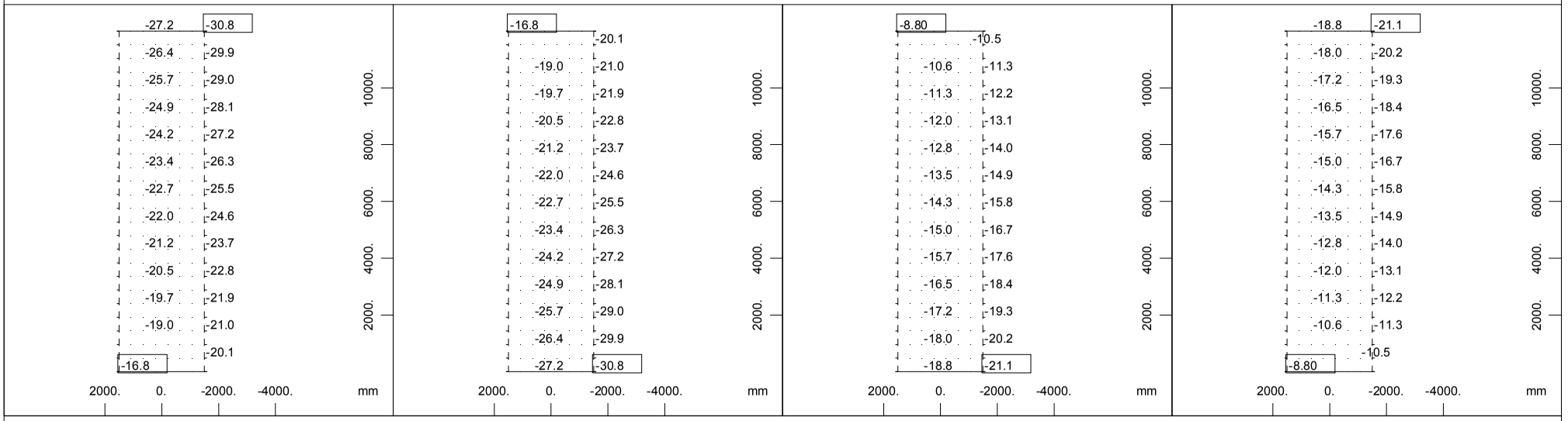


Sector of system Quadrilateral
Elements Group 1
Bedding stress in Nodes,
nonlinear Loadcase 2111 ΣΕΙΣΜΟΣ
+0.3EX+1.0EY+0.3EZ , 1 cm 3D =
M 1 : 206

Sector of system Quadrilateral
Elements Group 1
Bedding stress in Nodes,
nonlinear Loadcase 2112 ΣΕΙΣΜΟΣ
+0.3EX-1.0EY+0.3EZ , 1 cm 3D =
M 1 : 206

Sector of system Quadrilateral
Elements Group 1
Bedding stress in Nodes,
nonlinear Loadcase 2113 ΣΕΙΣΜΟΣ
+0.3EX-1.0EY-0.3EZ , 1 cm 3D =
M 1 : 206

Sector of system Quadrilateral
Elements Group 1
Bedding stress in Nodes,
nonlinear Loadcase 2114 ΣΕΙΣΜΟΣ
+0.3EX+1.0EY-0.3EZ , 1 cm 3D =
M 1 : 206



Sector of system Quadrilateral
Elements Group 1
Bedding stress in Nodes,
nonlinear Loadcase 2115 ΣΕΙΣΜΟΣ
-0.3EX+1.0EY+0.3EZ , 1 cm 3D =
M 1 : 206

Sector of system Quadrilateral
Elements Group 1
Bedding stress in Nodes,
nonlinear Loadcase 2116 ΣΕΙΣΜΟΣ
-0.3EX-1.0EY+0.3EZ , 1 cm 3D =
M 1 : 206

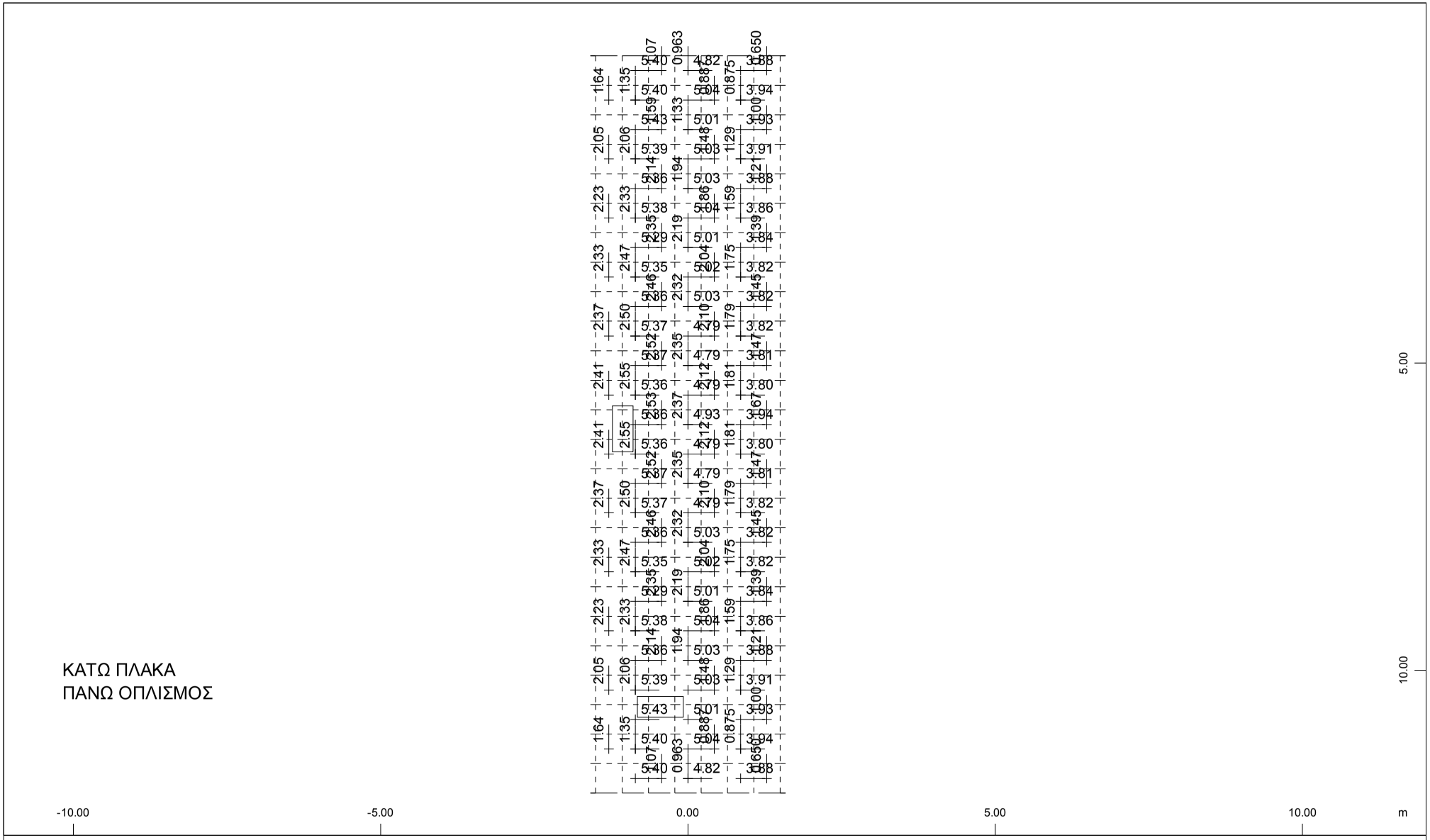
Sector of system Quadrilateral
Elements Group 1
Bedding stress in Nodes,
nonlinear Loadcase 2117 ΣΕΙΣΜΟΣ
-0.3EX-1.0EY-0.3EZ , 1 cm 3D =
M 1 : 206

Sector of system Quadrilateral
Elements Group 1
Bedding stress in Nodes,
nonlinear Loadcase 2118 ΣΕΙΣΜΟΣ
-0.3EX+1.0EY-0.3EZ , 1 cm 3D =
M 1 : 206

ΤΑΦΡΟΣ Τ1 (3.00x2.80x1.50)m

ΤΑΦΡΟΣ T1 (3.00x2.80x1.50)m

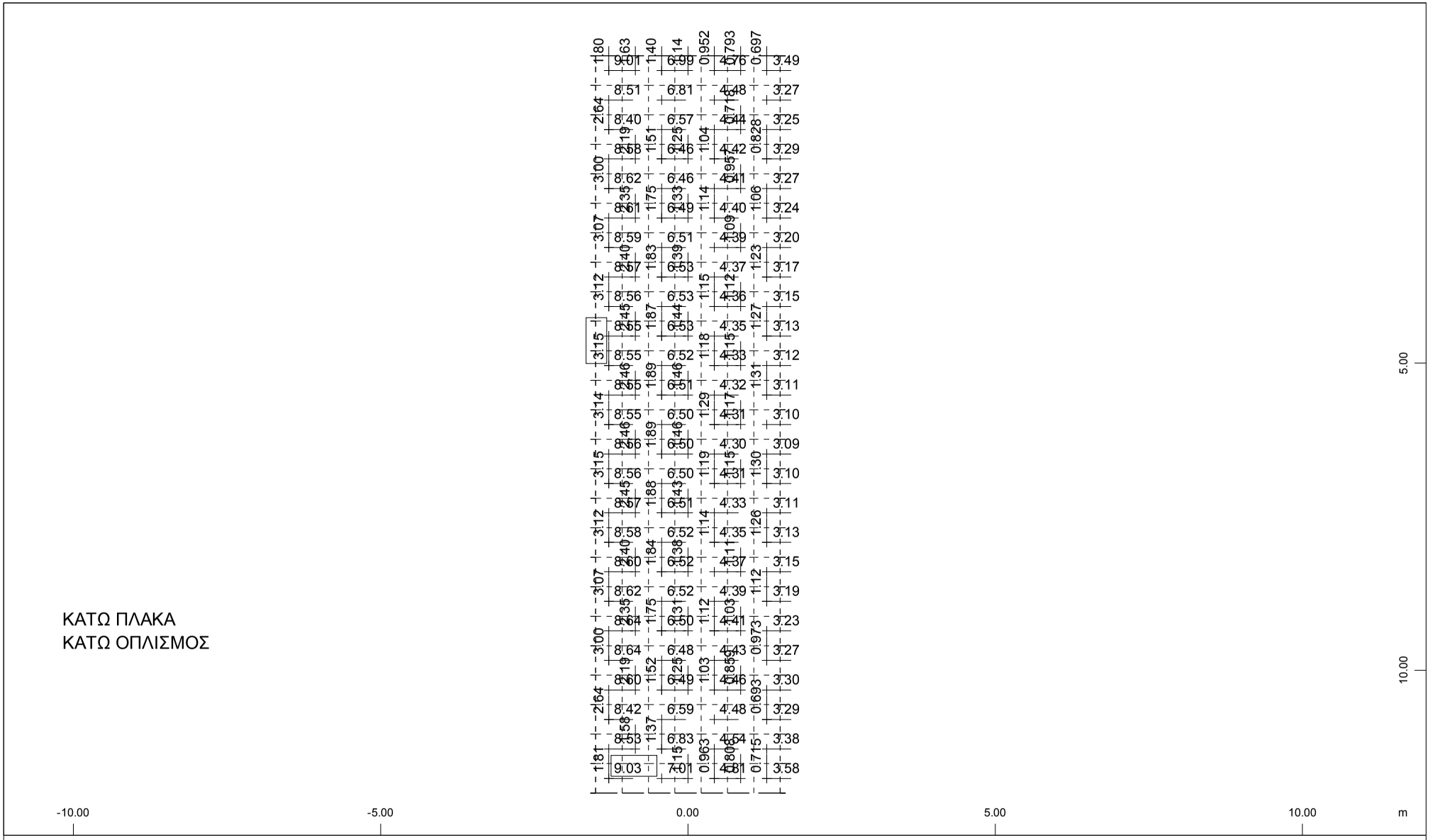
10. ΓΡΑΦΗΜΑΤΑ ΤΕΛΙΚΩΝ ΟΠΛΙΣΜΩΝ ΔΙΑΣΤΑΣΙΟΛΟΓΗΣΗΣ (Kv=20.000KN/m3)



Sector of system Quadrilateral Elements Group 1
Structure
upper Reinforcements in Elements in cm2/m, Design Case 400 SLS design (Max=5.43)

M 1 : 87

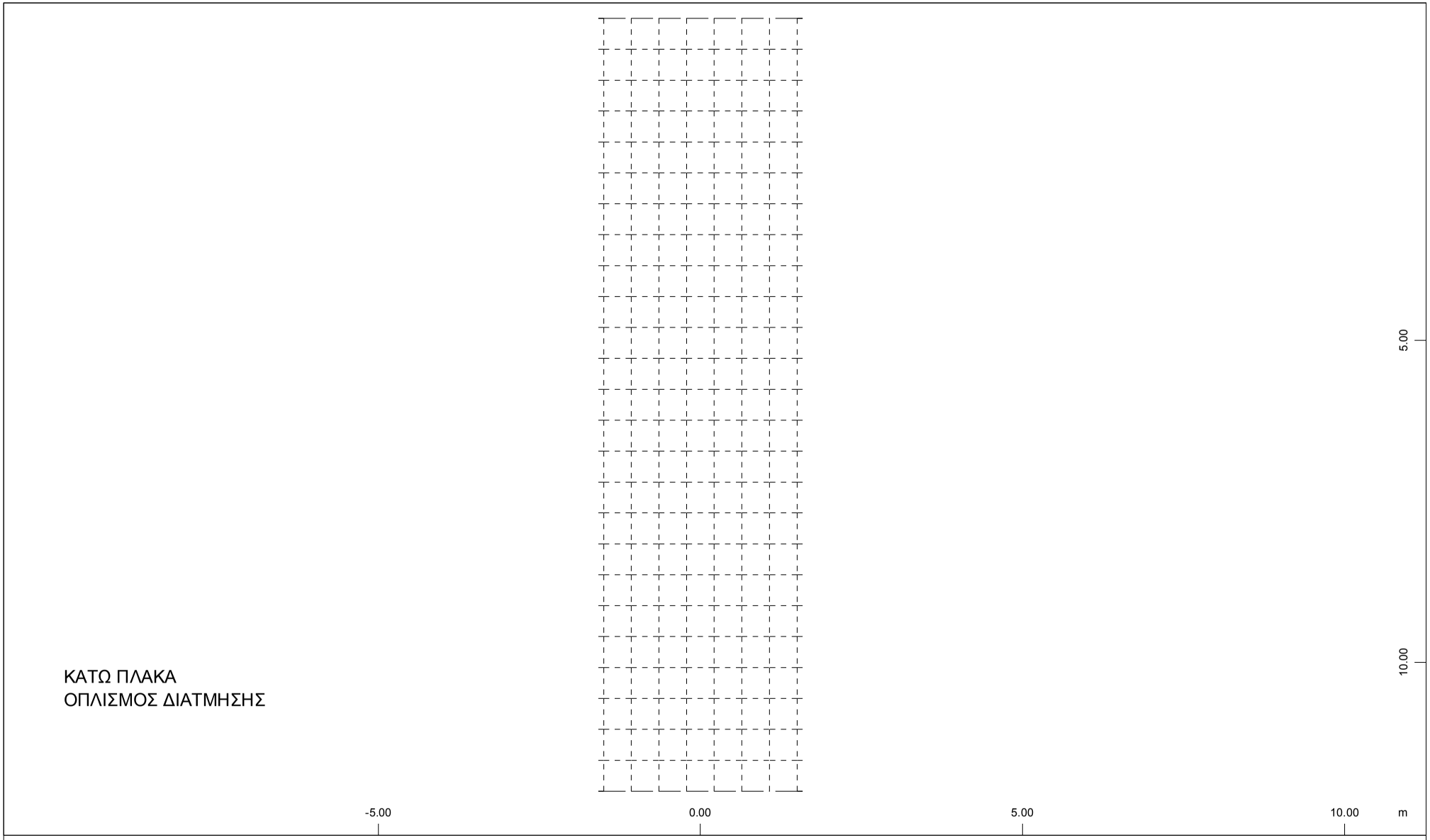
ΤΑΦΡΟΣ Τ1 (3.00x2.80x1.50)m
ΤΕΛΙΚΟΙ ΟΠΛΙΣΜΟΙ ΔΙΑΣΤΑΣΙΟΛΟΓΗΣΗΣ



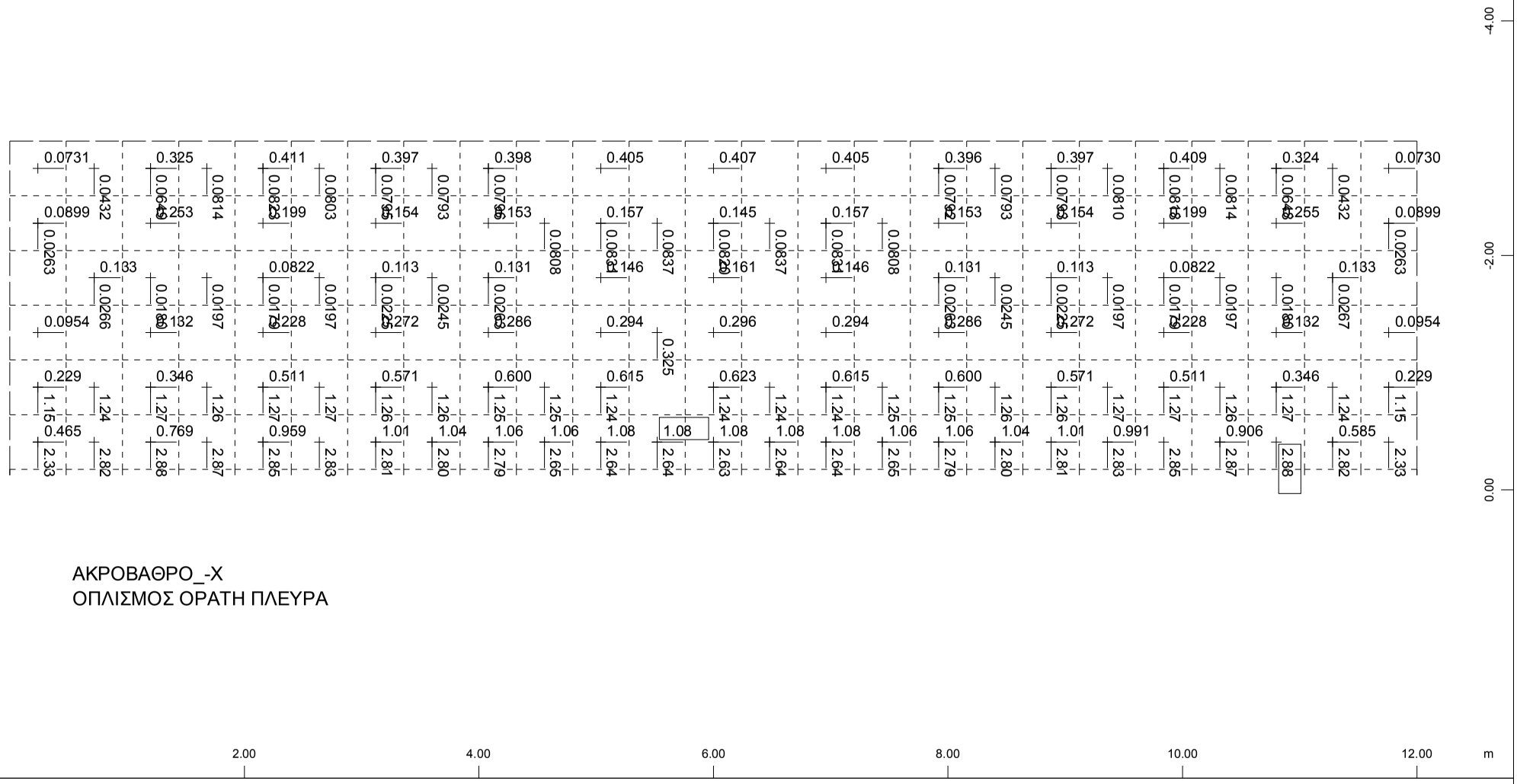
Sector of system Quadrilateral Elements Group 1
lower Reinforcements in Elements in cm2/m, Design Case 400 SLS design (Max=9.03)
Structure

M 1 : 87

ΤΑΦΡΟΣ Τ1 (3.00x2.80x1.50)m
ΤΕΛΙΚΟΙ ΟΠΛΙΣΜΟΙ ΔΙΑΣΤΑΣΙΟΛΟΓΗΣΗΣ



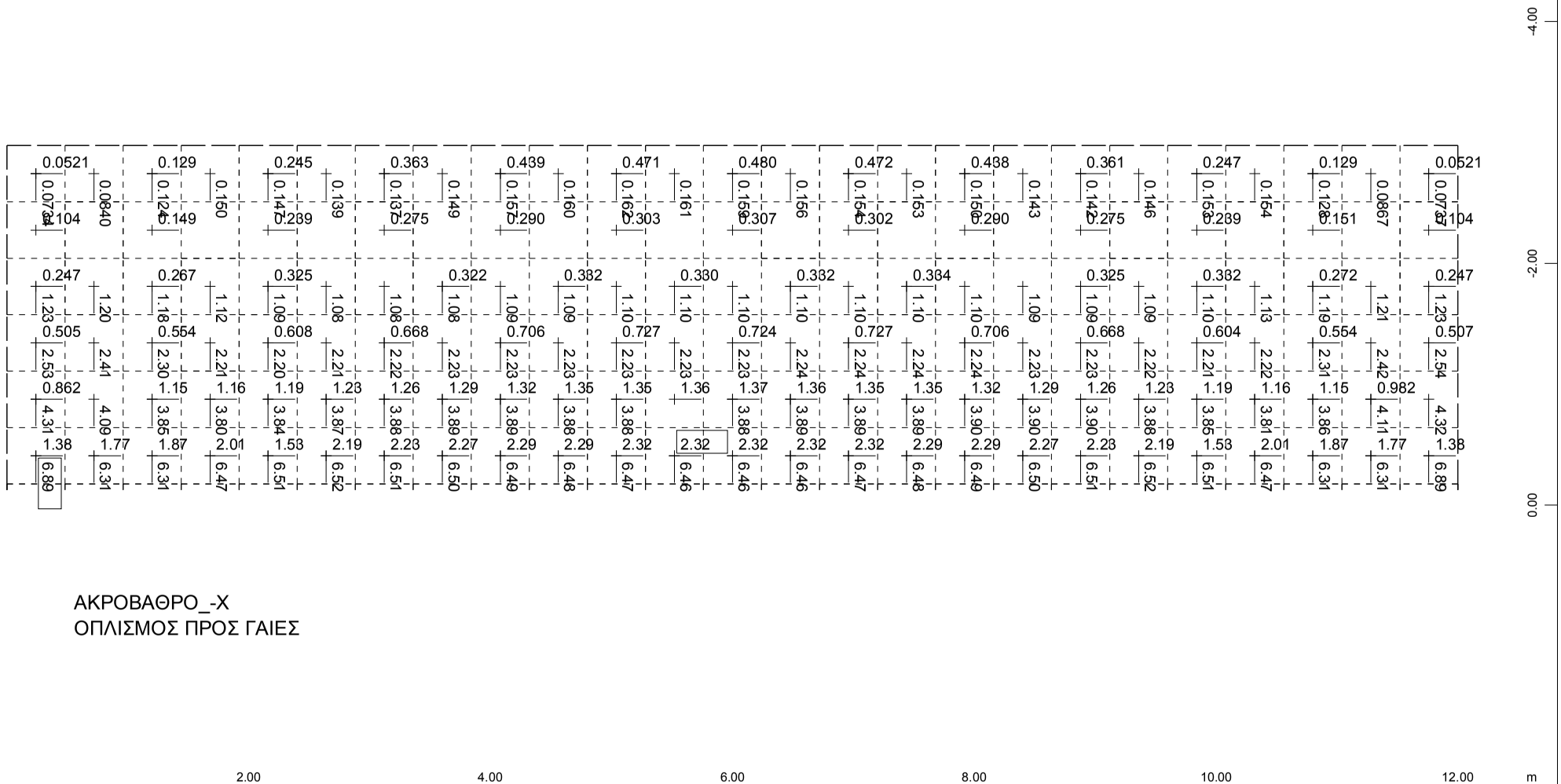
ΤΑΦΡΟΣ Τ1 (3.00x2.80x1.50)m
ΤΕΛΙΚΟΙ ΟΠΛΙΣΜΟΙ ΔΙΑΣΤΑΣΙΟΛΟΓΗΣΗΣ



ΑΚΡΟΒΑΘΡΟ_-Χ
ΟΠΛΙΣΜΟΣ ΟΡΑΤΗ ΠΛΕΥΡΑ

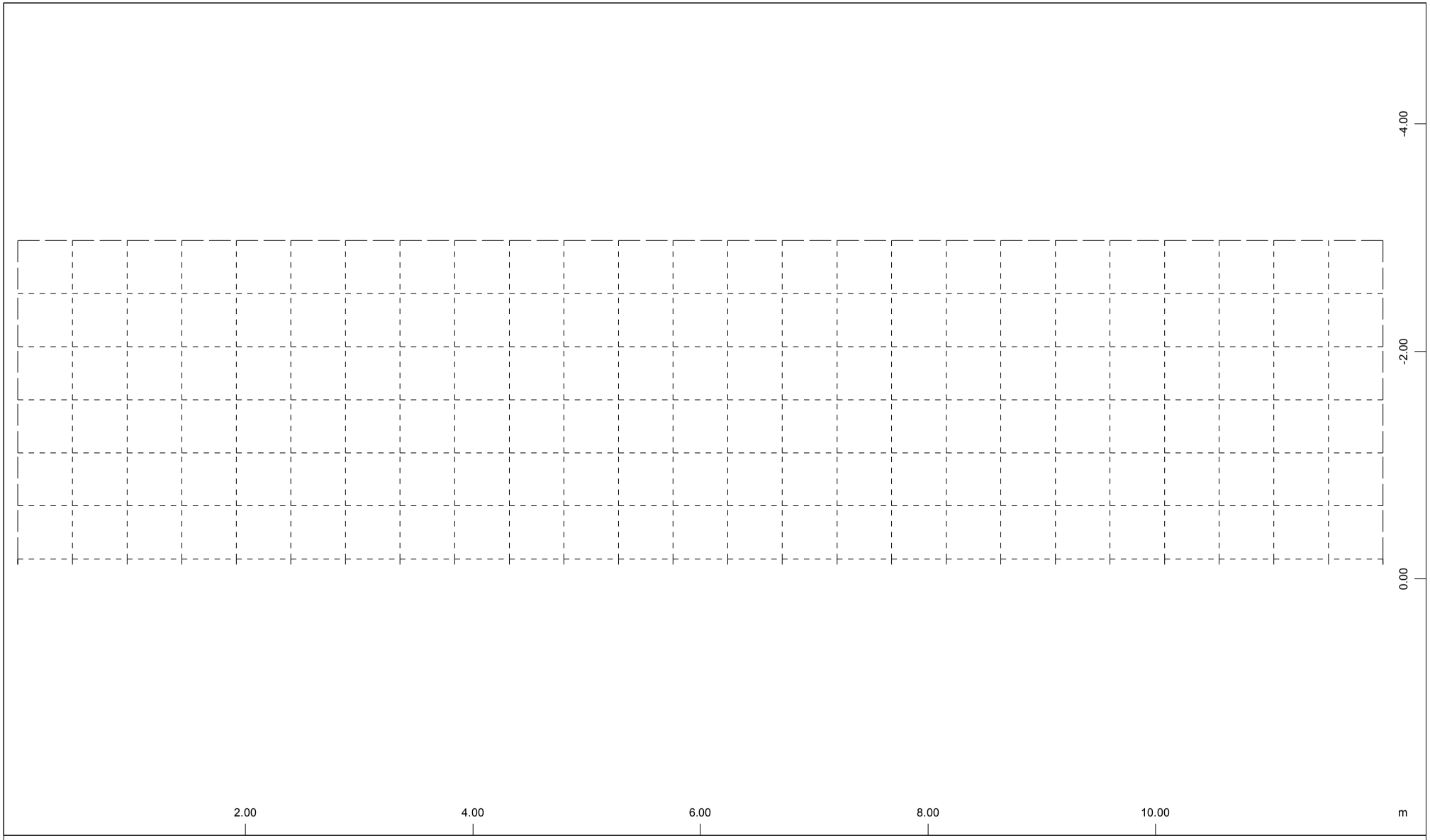
Sector of system Quadrilateral Elements Group 2
Structure
upper Reinforcements in Elements in cm2/m, Design Case 400 SLS design (Max=2.88)

M 1 : 49



Sector of system Quadrilateral Elements Group 2
lower Reinforcements in Elements in cm2/m, Design Case 400 SLS design (Max=6.89)
Structure

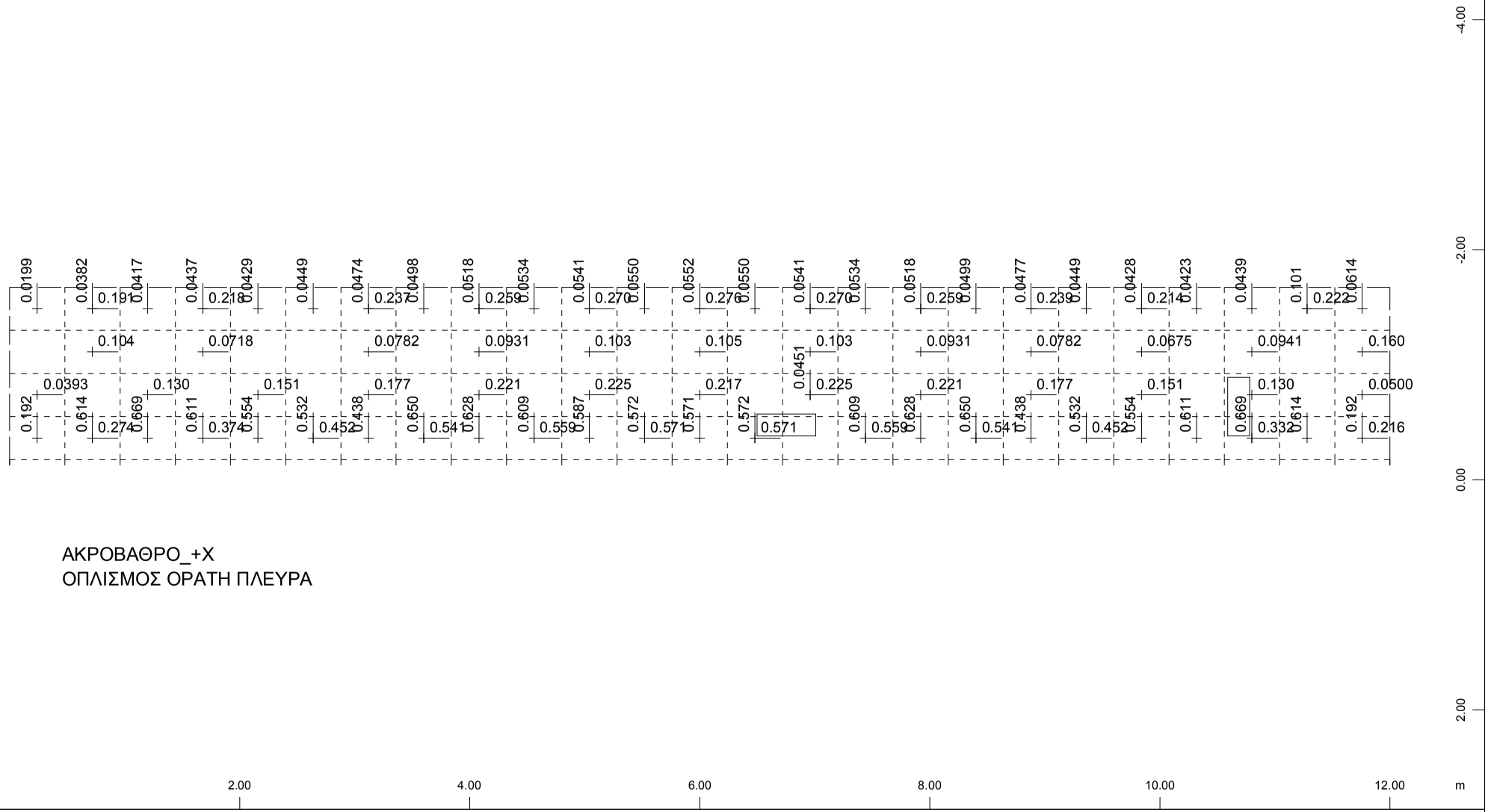
M 1 : 49



Sector of system Quadrilateral Elements Group 2
Structure

M 1 : 47

ΤΑΦΡΟΣ Τ1 (3.00x2.80x1.50)m
ΤΕΛΙΚΟΙ ΟΠΛΙΣΜΟΙ ΔΙΑΣΤΑΣΙΟΛΟΓΗΣΗΣ



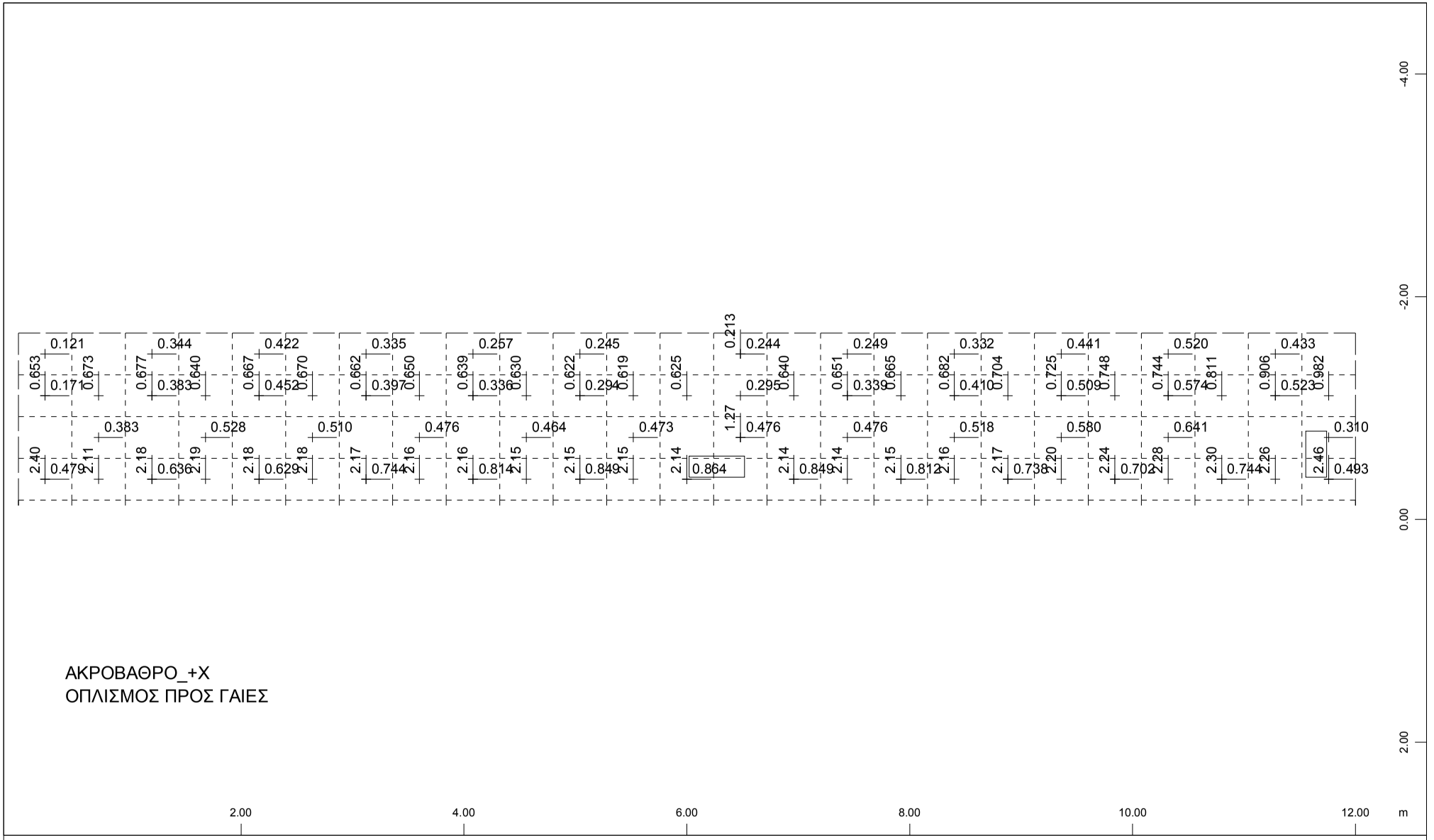
ΑΚΡΟΒΑΘΡΟ_+X
ΟΠΛΙΣΜΟΣ ΟΡΑΤΗ ΠΛΕΥΡΑ

X Y Z

Sector of system Quadrilateral Elements Group 3
Structure
upper Reinforcements in Elements in cm2/m, Design Case 400 SLS design (Max=0.669)

M 1 : 49

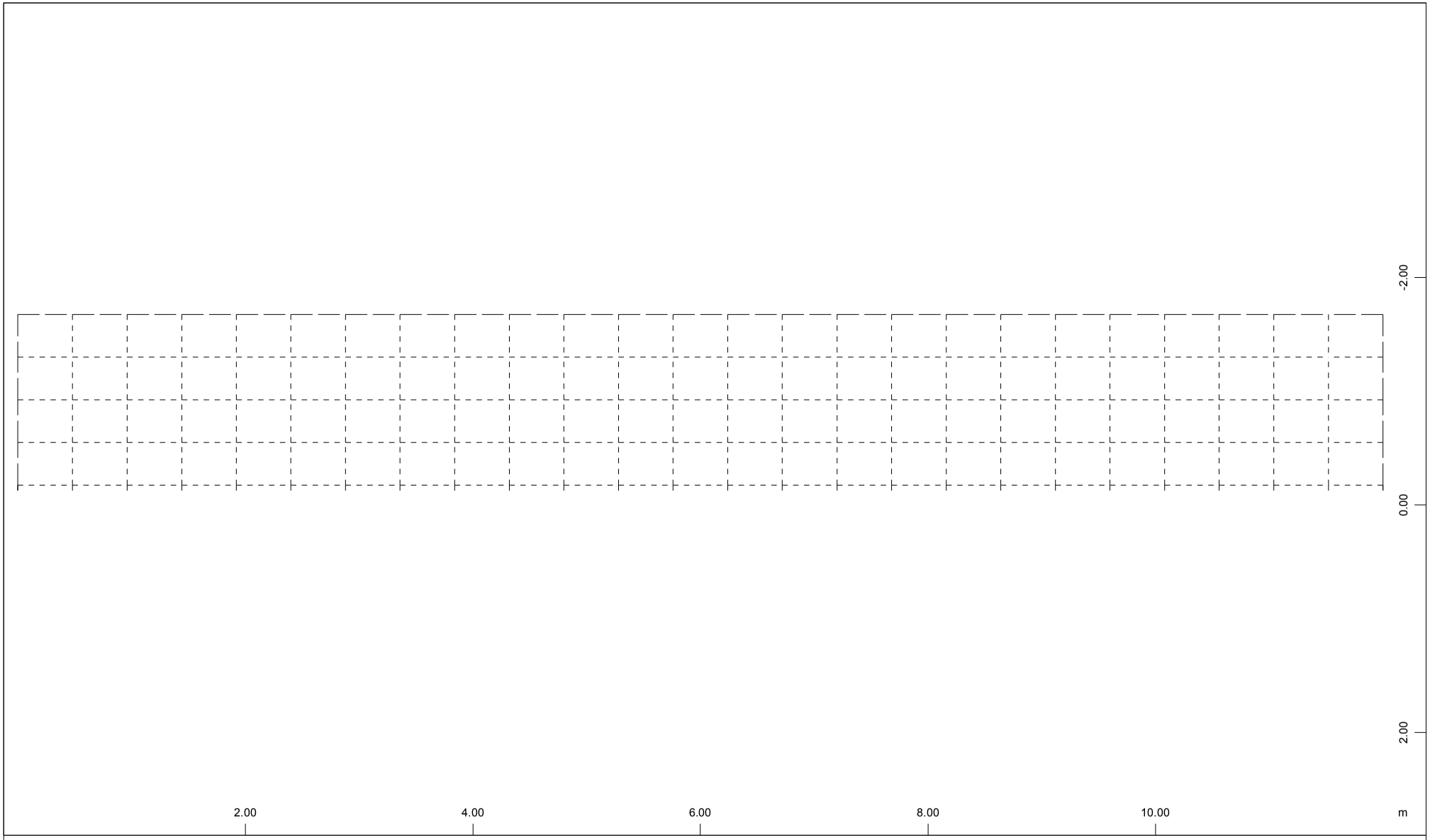
ΤΑΦΡΟΣ Τ1 (3.00x2.80x1.50)m
ΤΕΛΙΚΟΙ ΟΠΛΙΣΜΟΙ ΔΙΑΣΤΑΣΙΟΛΟΓΗΣΗΣ



X Y Z

Sector of system Quadrilateral Elements Group 3
Structure
lower Reinforcements in Elements in cm2/m, Design Case 400 SLS design (Max=2.46)

M 1 : 48



ΤΑΦΡΟΣ Τ1 (3.00x2.80x1.50)m
ΤΕΛΙΚΟΙ ΟΠΛΙΣΜΟΙ ΔΙΑΣΤΑΣΙΟΛΟΓΗΣΗΣ