

Pał 400x400mm**Strength of column (double eccentricity)**

(EC2 EN1992-1-1:2004, EC0 EN1990:2002,)

b =0.400 m, h =0.400 m**As=12Ø12(13.56cm²)**

Concrete-Steel class: C40/50-B500C (EC2 §3)

Environmental class : XC2 (EC2 §4.4.1)

Concrete cover : Cnom=51 mm (EC2 §4.4.1)

Uwaga! Rzeczywista grubość otuliny to 40mm - wartość zmieniono aby uzyskać w programie prawidłowe położenie osi układu prętów zbrojenia głównego

 $\gamma_c=1.40, \gamma_s=1.15$ (EC2 Table 2.1N) $f_{cd}=\alpha_{cc} \cdot f_{ck}/\gamma_c=0.85 \times 40/1.40=24.29$ MPa (EC2 §3.1.6) $f_{yd}=f_{yk}/\gamma_s=500/1.15=435$ MPa (EC2 §3.2.7)**Dimensions and loads**Column of rectangular cross section $b=0.400$ m, $h=0.400$ mReinforcement 12Ø12(13.56cm²) $A_{stot}/A_c=0.85\%$ Effective depth of cross section $d=h-d_1, d_1=d_2=C_{nom}+\phi_s+\phi/2=51+5+12/2=62$ mm, $d_x=338$ mm, $d_y=338$ mm**Capacity of column cross-section (double eccentricity)**

(EC2 EN1992-1-1:2004, §6.1)

Design chart for column capacity obtained from numerical integration using a grid of 10x10=100 cross-section subdivisions
 $b=0.40$ m, $h=0.40$ m $d_1/h=0.15, d_1/b=0.15$

Fe=12Ø12

Astot=(13.56cm²)

Astot/Ac=0.85%

Neutral axis slope $\theta=0.00^\circ$ Neutral axis slope $\theta=7.50^\circ$

N= 4476	Myy= 0	Mzz= 0	($\epsilon_c2/\epsilon_s1=-3.50/-3.47$)	N= 4476	Myy= 0	Mzz= 0	($\epsilon_c2/\epsilon_s1=-3.50/-3.48$)
N= 4476	Myy= 0	Mzz= 0	($\epsilon_c2/\epsilon_s1=-3.50/-3.44$)	N= 4476	Myy= 0	Mzz= 0	($\epsilon_c2/\epsilon_s1=-3.50/-3.45$)
N= 4476	Myy= 0	Mzz= 0	($\epsilon_c2/\epsilon_s1=-3.50/-3.38$)	N= 4476	Myy= 0	Mzz= 0	($\epsilon_c2/\epsilon_s1=-3.50/-3.41$)
N= 4476	Myy= 0	Mzz= 0	($\epsilon_c2/\epsilon_s1=-3.50/-3.20$)	N= 4476	Myy= 0	Mzz= 0	($\epsilon_c2/\epsilon_s1=-3.50/-3.27$)
N= 4476	Myy= 0	Mzz= 0	($\epsilon_c2/\epsilon_s1=-3.50/-2.91$)	N= 4476	Myy= 0	Mzz= 0	($\epsilon_c2/\epsilon_s1=-3.50/-3.03$)
N= 4476	Myy= 0	Mzz= 0	($\epsilon_c2/\epsilon_s1=-3.50/-2.51$)	N= 4476	Myy= 0	Mzz= 0	($\epsilon_c2/\epsilon_s1=-3.50/-2.72$)
N= 3520	Myy= 135	Mzz= 0	($\epsilon_c2/\epsilon_s1=-3.50/-0.54$)	N= 4168	Myy= 45	Mzz= 7	($\epsilon_c2/\epsilon_s1=-3.50/-1.15$)
N= 3324	Myy= 160	Mzz= 0	($\epsilon_c2/\epsilon_s1=-3.50/-0.39$)	N= 4088	Myy= 56	Mzz= 9	($\epsilon_c2/\epsilon_s1=-3.50/-1.03$)
N= 3162	Myy= 177	Mzz= 0	($\epsilon_c2/\epsilon_s1=-3.50/-0.21$)	N= 3987	Myy= 70	Mzz= 11	($\epsilon_c2/\epsilon_s1=-3.50/-0.89$)
N= 2958	Myy= 198	Mzz= 0	($\epsilon_c2/\epsilon_s1=-3.50/-0.02$)	N= 3857	Myy= 88	Mzz= 13	($\epsilon_c2/\epsilon_s1=-3.50/-0.74$)
N= 2792	Myy= 211	Mzz= 0	($\epsilon_c2/\epsilon_s1=-3.50/ 0.20$)	N= 3689	Myy= 110	Mzz= 16	($\epsilon_c2/\epsilon_s1=-3.50/-0.57$)
N= 2580	Myy= 227	Mzz= 0	($\epsilon_c2/\epsilon_s1=-3.50/ 0.44$)	N= 3472	Myy= 138	Mzz= 19	($\epsilon_c2/\epsilon_s1=-3.50/-0.37$)
N= 2407	Myy= 237	Mzz= 0	($\epsilon_c2/\epsilon_s1=-3.50/ 0.72$)	N= 3223	Myy= 168	Mzz= 20	($\epsilon_c2/\epsilon_s1=-3.50/-0.15$)
N= 1998	Myy= 255	Mzz= 0	($\epsilon_c2/\epsilon_s1=-3.50/ 1.43$)	N= 2700	Myy= 215	Mzz= 20	($\epsilon_c2/\epsilon_s1=-3.50/ 0.41$)
N= 1585	Myy= 265	Mzz= 0	($\epsilon_c2/\epsilon_s1=-3.50/ 2.41$)	N= 2154	Myy= 244	Mzz= 21	($\epsilon_c2/\epsilon_s1=-3.50/ 1.19$)
N= 1267	Myy= 248	Mzz= 0	($\epsilon_c2/\epsilon_s1=-3.50/ 3.89$)	N= 1541	Myy= 255	Mzz= 23	($\epsilon_c2/\epsilon_s1=-3.50/ 2.37$)
N= 899	Myy= 215	Mzz= 0	($\epsilon_c2/\epsilon_s1=-3.50/ 6.36$)	N= 1027	Myy= 225	Mzz= 24	($\epsilon_c2/\epsilon_s1=-3.50/ 4.32$)
N= 627	Myy= 185	Mzz= 0	($\epsilon_c2/\epsilon_s1=-3.50/ 8.33$)	N= 748	Myy= 196	Mzz= 25	($\epsilon_c2/\epsilon_s1=-3.50/ 5.89$)
N= 318	Myy= 142	Mzz= 0	($\epsilon_c2/\epsilon_s1=-3.50/13.40$)	N= 285	Myy= 137	Mzz= 29	($\epsilon_c2/\epsilon_s1=-3.50/ 9.91$)

(Ned [kN], Med [kNm], $\epsilon_c2 \epsilon_s1$ [o/oo])

Neutral axis slope $\theta=10.00^\circ$

N= 4476 Myy= 0 Mzz= 0 ($\epsilon c2/\epsilon s1=-3.50/-3.48$)
 N= 4476 Myy= 0 Mzz= 0 ($\epsilon c2/\epsilon s1=-3.50/-3.45$)
 N= 4476 Myy= 0 Mzz= 0 ($\epsilon c2/\epsilon s1=-3.50/-3.40$)
 N= 4476 Myy= 0 Mzz= 0 ($\epsilon c2/\epsilon s1=-3.50/-3.26$)
 N= 4476 Myy= 0 Mzz= 0 ($\epsilon c2/\epsilon s1=-3.50/-3.02$)
 N= 4476 Myy= 0 Mzz= 0 ($\epsilon c2/\epsilon s1=-3.50/-2.69$)
 N= 4139 Myy= 49 Mzz= 10 ($\epsilon c2/\epsilon s1=-3.50/-1.08$)
 N= 4053 Myy= 61 Mzz= 12 ($\epsilon c2/\epsilon s1=-3.50/-0.95$)
 N= 3944 Myy= 76 Mzz= 15 ($\epsilon c2/\epsilon s1=-3.50/-0.81$)
 N= 3805 Myy= 94 Mzz= 18 ($\epsilon c2/\epsilon s1=-3.50/-0.65$)
 N= 3625 Myy= 117 Mzz= 22 ($\epsilon c2/\epsilon s1=-3.50/-0.47$)
 N= 3401 Myy= 145 Mzz= 26 ($\epsilon c2/\epsilon s1=-3.50/-0.27$)
 N= 3148 Myy= 174 Mzz= 27 ($\epsilon c2/\epsilon s1=-3.50/-0.04$)
 N= 2624 Myy= 218 Mzz= 27 ($\epsilon c2/\epsilon s1=-3.50/ 0.54$)
 N= 2058 Myy= 243 Mzz= 30 ($\epsilon c2/\epsilon s1=-3.50/ 1.35$)
N= 1452 Myy= 248 Mzz= 31 ($\epsilon c2/\epsilon s1=-3.50/ 2.56$)
 N= 926 Myy= 214 Mzz= 32 ($\epsilon c2/\epsilon s1=-3.50/ 4.58$)
 N= 644 Myy= 183 Mzz= 33 ($\epsilon c2/\epsilon s1=-3.50/ 6.19$)
 N= 170 Myy= 119 Mzz= 38 ($\epsilon c2/\epsilon s1=-3.50/10.34$)
 (Ned [kN], Med [kNm], $\epsilon c2$ $\epsilon s1$ [o/oo])

Neutral axis slope $\theta=15.00^\circ$

N= 4476 Myy= 0 Mzz= 0 ($\epsilon c2/\epsilon s1=-3.50/-3.47$)
 N= 4476 Myy= 0 Mzz= 0 ($\epsilon c2/\epsilon s1=-3.50/-3.45$)
 N= 4476 Myy= 0 Mzz= 0 ($\epsilon c2/\epsilon s1=-3.50/-3.40$)
 N= 4476 Myy= 0 Mzz= 0 ($\epsilon c2/\epsilon s1=-3.50/-3.24$)
 N= 4476 Myy= 0 Mzz= 0 ($\epsilon c2/\epsilon s1=-3.50/-2.99$)
 N= 4476 Myy= 0 Mzz= 0 ($\epsilon c2/\epsilon s1=-3.50/-2.65$)
 N= 4083 Myy= 56 Mzz= 17 ($\epsilon c2/\epsilon s1=-3.50/-0.94$)
 N= 3986 Myy= 69 Mzz= 20 ($\epsilon c2/\epsilon s1=-3.50/-0.80$)
 N= 3862 Myy= 85 Mzz= 24 ($\epsilon c2/\epsilon s1=-3.50/-0.65$)
 N= 3704 Myy= 105 Mzz= 30 ($\epsilon c2/\epsilon s1=-3.50/-0.49$)
 N= 3506 Myy= 130 Mzz= 35 ($\epsilon c2/\epsilon s1=-3.50/-0.30$)
 N= 3275 Myy= 156 Mzz= 39 ($\epsilon c2/\epsilon s1=-3.50/-0.08$)
 N= 3020 Myy= 182 Mzz= 40 ($\epsilon c2/\epsilon s1=-3.50/ 0.16$)
 N= 2470 Myy= 220 Mzz= 43 ($\epsilon c2/\epsilon s1=-3.50/ 0.77$)
N= 1885 Myy= 238 Mzz= 47 ($\epsilon c2/\epsilon s1=-3.50/ 1.62$)
 N= 1282 Myy= 233 Mzz= 47 ($\epsilon c2/\epsilon s1=-3.50/ 2.90$)
 N= 730 Myy= 189 Mzz= 48 ($\epsilon c2/\epsilon s1=-3.50/ 5.04$)
 N= 437 Myy= 154 Mzz= 50 ($\epsilon c2/\epsilon s1=-3.50/ 6.75$)
 N= -42 Myy= 85 Mzz= 53 ($\epsilon c2/\epsilon s1=-3.50/11.14$)

Neutral axis slope $\theta=22.50^\circ$

N= 4476 Myy= 0 Mzz= 0 ($\epsilon c2/\epsilon s1=-3.50/-3.47$)
 N= 4476 Myy= 0 Mzz= 0 ($\epsilon c2/\epsilon s1=-3.50/-3.45$)
 N= 4476 Myy= 0 Mzz= 0 ($\epsilon c2/\epsilon s1=-3.50/-3.39$)
 N= 4476 Myy= 0 Mzz= 0 ($\epsilon c2/\epsilon s1=-3.50/-3.23$)
 N= 4476 Myy= 0 Mzz= 0 ($\epsilon c2/\epsilon s1=-3.50/-2.95$)
 N= 4476 Myy= 0 Mzz= 0 ($\epsilon c2/\epsilon s1=-3.50/-2.59$)
 N= 4009 Myy= 64 Mzz= 28 ($\epsilon c2/\epsilon s1=-3.50/-0.77$)
 N= 3895 Myy= 78 Mzz= 33 ($\epsilon c2/\epsilon s1=-3.50/-0.62$)
 N= 3751 Myy= 96 Mzz= 40 ($\epsilon c2/\epsilon s1=-3.50/-0.46$)
 N= 3571 Myy= 117 Mzz= 48 ($\epsilon c2/\epsilon s1=-3.50/-0.29$)
 N= 3357 Myy= 139 Mzz= 55 ($\epsilon c2/\epsilon s1=-3.50/-0.08$)
 N= 3114 Myy= 162 Mzz= 61 ($\epsilon c2/\epsilon s1=-3.50/ 0.14$)
 N= 2847 Myy= 183 Mzz= 65 ($\epsilon c2/\epsilon s1=-3.50/ 0.40$)
 N= 2270 Myy= 214 Mzz= 69 ($\epsilon c2/\epsilon s1=-3.50/ 1.05$)
N= 1653 Myy= 224 Mzz= 74 ($\epsilon c2/\epsilon s1=-3.50/ 1.96$)
 N= 1051 Myy= 205 Mzz= 72 ($\epsilon c2/\epsilon s1=-3.50/ 3.33$)
 N= 466 Myy= 152 Mzz= 70 ($\epsilon c2/\epsilon s1=-3.50/ 5.61$)
 N= 189 Myy= 115 Mzz= 68 ($\epsilon c2/\epsilon s1=-3.50/ 7.43$)
 (Ned [kN], Med [kNm], $\epsilon c2$ $\epsilon s1$ [o/oo])

Neutral axis slope $\theta=30.00^\circ$

N= 4476 Myy= 0 Mzz= 0 ($\epsilon c2/\epsilon s1=-3.50/-3.47$)
 N= 4476 Myy= 0 Mzz= 0 ($\epsilon c2/\epsilon s1=-3.50/-3.44$)
 N= 4476 Myy= 0 Mzz= 0 ($\epsilon c2/\epsilon s1=-3.50/-3.39$)
 N= 4476 Myy= 0 Mzz= 0 ($\epsilon c2/\epsilon s1=-3.50/-3.21$)
 N= 4476 Myy= 0 Mzz= 0 ($\epsilon c2/\epsilon s1=-3.50/-2.93$)
 N= 4476 Myy= 0 Mzz= 0 ($\epsilon c2/\epsilon s1=-3.50/-2.55$)
 N= 3948 Myy= 68 Mzz= 39 ($\epsilon c2/\epsilon s1=-3.50/-0.64$)
 N= 3818 Myy= 82 Mzz= 48 ($\epsilon c2/\epsilon s1=-3.50/-0.49$)
 N= 3656 Myy= 99 Mzz= 58 ($\epsilon c2/\epsilon s1=-3.50/-0.33$)
 N= 3464 Myy= 118 Mzz= 68 ($\epsilon c2/\epsilon s1=-3.50/-0.14$)
 N= 3243 Myy= 138 Mzz= 77 ($\epsilon c2/\epsilon s1=-3.50/ 0.07$)
 N= 2995 Myy= 157 Mzz= 84 ($\epsilon c2/\epsilon s1=-3.50/ 0.31$)
 N= 2721 Myy= 175 Mzz= 90 ($\epsilon c2/\epsilon s1=-3.50/ 0.58$)
 N= 2115 Myy= 201 Mzz= 96 ($\epsilon c2/\epsilon s1=-3.50/ 1.26$)
N= 1470 Myy= 204 Mzz= 102 ($\epsilon c2/\epsilon s1=-3.50/ 2.21$)
 N= 865 Myy= 176 Mzz= 95 ($\epsilon c2/\epsilon s1=-3.50/ 3.64$)
 N= 289 Myy= 124 Mzz= 83 ($\epsilon c2/\epsilon s1=-3.50/ 6.02$)
 N= 38 Myy= 92 Mzz= 77 ($\epsilon c2/\epsilon s1=-3.50/ 7.93$)

Neutral axis slope $\theta=37.50^\circ$

N= 4476	Myy= 0	Mzz= 0	($\epsilon c2/\epsilon s1=-3.50/-3.47$)
N= 4476	Myy= 0	Mzz= 0	($\epsilon c2/\epsilon s1=-3.50/-3.44$)
N= 4476	Myy= 0	Mzz= 0	($\epsilon c2/\epsilon s1=-3.50/-3.38$)
N= 4476	Myy= 0	Mzz= 0	($\epsilon c2/\epsilon s1=-3.50/-3.21$)
N= 4476	Myy= 0	Mzz= 0	($\epsilon c2/\epsilon s1=-3.50/-2.91$)
N= 4476	Myy= 0	Mzz= 0	($\epsilon c2/\epsilon s1=-3.50/-2.52$)
N= 3903	Myy= 66	Mzz= 51	($\epsilon c2/\epsilon s1=-3.50/-0.57$)
N= 3764	Myy= 80	Mzz= 62	($\epsilon c2/\epsilon s1=-3.50/-0.41$)
N= 3596	Myy= 96	Mzz= 74	($\epsilon c2/\epsilon s1=-3.50/-0.24$)
N= 3400	Myy= 113	Mzz= 86	($\epsilon c2/\epsilon s1=-3.50/-0.05$)
N= 3175	Myy= 129	Mzz= 97	($\epsilon c2/\epsilon s1=-3.50/ 0.17$)
N= 2924	Myy= 146	Mzz= 107	($\epsilon c2/\epsilon s1=-3.50/ 0.41$)
N= 2645	Myy= 160	Mzz= 115	($\epsilon c2/\epsilon s1=-3.50/ 0.69$)
N= 2019	Myy= 180	Mzz= 125	($\epsilon c2/\epsilon s1=-3.50/ 1.39$)
N= 1350	Myy= 179	Mzz= 128	($\epsilon c2/\epsilon s1=-3.50/ 2.36$)
N= 749	Myy= 150	Mzz= 115	($\epsilon c2/\epsilon s1=-3.50/ 3.83$)
N= 187	Myy= 107	Mzz= 91	($\epsilon c2/\epsilon s1=-3.50/ 6.27$)

(Ned [kN], Med [kNm], $\epsilon c2$ $\epsilon s1$ [o/oo])

Neutral axis slope $\theta=45.00^\circ$

N= 4476	Myy= 0	Mzz= 0	($\epsilon c2/\epsilon s1=-3.50/-3.47$)
N= 4476	Myy= 0	Mzz= 0	($\epsilon c2/\epsilon s1=-3.50/-3.44$)
N= 4476	Myy= 0	Mzz= 0	($\epsilon c2/\epsilon s1=-3.50/-3.38$)
N= 4476	Myy= 0	Mzz= 0	($\epsilon c2/\epsilon s1=-3.50/-3.20$)
N= 4476	Myy= 0	Mzz= 0	($\epsilon c2/\epsilon s1=-3.50/-2.91$)
N= 4476	Myy= 0	Mzz= 0	($\epsilon c2/\epsilon s1=-3.50/-2.51$)
N= 3888	Myy= 61	Mzz= 61	($\epsilon c2/\epsilon s1=-3.50/-0.54$)
N= 3746	Myy= 73	Mzz= 73	($\epsilon c2/\epsilon s1=-3.50/-0.39$)
N= 3575	Myy= 87	Mzz= 87	($\epsilon c2/\epsilon s1=-3.50/-0.21$)
N= 3377	Myy= 101	Mzz= 101	($\epsilon c2/\epsilon s1=-3.50/-0.02$)
N= 3150	Myy= 116	Mzz= 116	($\epsilon c2/\epsilon s1=-3.50/ 0.20$)
N= 2895	Myy= 129	Mzz= 129	($\epsilon c2/\epsilon s1=-3.50/ 0.44$)
N= 2614	Myy= 140	Mzz= 140	($\epsilon c2/\epsilon s1=-3.50/ 0.72$)
N= 1979	Myy= 154	Mzz= 154	($\epsilon c2/\epsilon s1=-3.50/ 1.43$)
N= 1294	Myy= 153	Mzz= 153	($\epsilon c2/\epsilon s1=-3.50/ 2.41$)
N= 702	Myy= 131	Mzz= 131	($\epsilon c2/\epsilon s1=-3.50/ 3.89$)
N= 129	Myy= 97	Mzz= 97	($\epsilon c2/\epsilon s1=-3.50/ 6.36$)

Neutral axis slope $\theta=52.50^\circ$

N= 4476	Myy= 0	Mzz= 0	($\epsilon c2/\epsilon s1=-3.50/-3.47$)
N= 4476	Myy= 0	Mzz= 0	($\epsilon c2/\epsilon s1=-3.50/-3.44$)
N= 4476	Myy= 0	Mzz= 0	($\epsilon c2/\epsilon s1=-3.50/-3.38$)
N= 4476	Myy= 0	Mzz= 0	($\epsilon c2/\epsilon s1=-3.50/-3.21$)
N= 4476	Myy= 0	Mzz= 0	($\epsilon c2/\epsilon s1=-3.50/-2.91$)
N= 4476	Myy= 0	Mzz= 0	($\epsilon c2/\epsilon s1=-3.50/-2.52$)
N= 3903	Myy= 51	Mzz= 66	($\epsilon c2/\epsilon s1=-3.50/-0.57$)
N= 3764	Myy= 62	Mzz= 80	($\epsilon c2/\epsilon s1=-3.50/-0.41$)
N= 3596	Myy= 74	Mzz= 96	($\epsilon c2/\epsilon s1=-3.50/-0.24$)
N= 3400	Myy= 86	Mzz= 113	($\epsilon c2/\epsilon s1=-3.50/-0.05$)
N= 3175	Myy= 97	Mzz= 129	($\epsilon c2/\epsilon s1=-3.50/ 0.17$)
N= 2924	Myy= 107	Mzz= 146	($\epsilon c2/\epsilon s1=-3.50/ 0.41$)
N= 2645	Myy= 115	Mzz= 160	($\epsilon c2/\epsilon s1=-3.50/ 0.69$)
N= 2019	Myy= 125	Mzz= 180	($\epsilon c2/\epsilon s1=-3.50/ 1.39$)
N= 1350	Myy= 128	Mzz= 179	($\epsilon c2/\epsilon s1=-3.50/ 2.36$)
N= 749	Myy= 115	Mzz= 150	($\epsilon c2/\epsilon s1=-3.50/ 3.83$)
N= 187	Myy= 91	Mzz= 107	($\epsilon c2/\epsilon s1=-3.50/ 6.27$)

(Ned [kN], Med [kNm], $\epsilon c2$ $\epsilon s1$ [o/oo])

Neutral axis slope $\theta=60.00^\circ$

N= 4476	Myy= 0	Mzz= 0	($\epsilon c2/\epsilon s1=-3.50/-3.47$)
N= 4476	Myy= 0	Mzz= 0	($\epsilon c2/\epsilon s1=-3.50/-3.44$)
N= 4476	Myy= 0	Mzz= 0	($\epsilon c2/\epsilon s1=-3.50/-3.39$)
N= 4476	Myy= 0	Mzz= 0	($\epsilon c2/\epsilon s1=-3.50/-3.21$)
N= 4476	Myy= 0	Mzz= 0	($\epsilon c2/\epsilon s1=-3.50/-2.93$)
N= 4476	Myy= 0	Mzz= 0	($\epsilon c2/\epsilon s1=-3.50/-2.55$)
N= 3948	Myy= 39	Mzz= 68	($\epsilon c2/\epsilon s1=-3.50/-0.64$)
N= 3818	Myy= 48	Mzz= 82	($\epsilon c2/\epsilon s1=-3.50/-0.49$)
N= 3656	Myy= 58	Mzz= 99	($\epsilon c2/\epsilon s1=-3.50/-0.33$)
N= 3464	Myy= 68	Mzz= 118	($\epsilon c2/\epsilon s1=-3.50/-0.14$)
N= 3243	Myy= 77	Mzz= 138	($\epsilon c2/\epsilon s1=-3.50/ 0.07$)
N= 2995	Myy= 84	Mzz= 157	($\epsilon c2/\epsilon s1=-3.50/ 0.31$)
N= 2721	Myy= 90	Mzz= 175	($\epsilon c2/\epsilon s1=-3.50/ 0.58$)
N= 2115	Myy= 96	Mzz= 201	($\epsilon c2/\epsilon s1=-3.50/ 1.26$)
N= 1470	Myy= 102	Mzz= 204	($\epsilon c2/\epsilon s1=-3.50/ 2.21$)
N= 865	Myy= 95	Mzz= 176	($\epsilon c2/\epsilon s1=-3.50/ 3.64$)
N= 289	Myy= 83	Mzz= 124	($\epsilon c2/\epsilon s1=-3.50/ 6.02$)

Neutral axis slope $\theta=67.50^\circ$				Neutral axis slope $\theta=75.00^\circ$			
N= 4476	Myy= 0	Mzz= 0	($\epsilon c2/\epsilon s1=-3.50/-3.47$)	N= 4476	Myy= 0	Mzz= 0	($\epsilon c2/\epsilon s1=-3.50/-3.47$)
N= 4476	Myy= 0	Mzz= 0	($\epsilon c2/\epsilon s1=-3.50/-3.45$)	N= 4476	Myy= 0	Mzz= 0	($\epsilon c2/\epsilon s1=-3.50/-3.45$)
N= 4476	Myy= 0	Mzz= 0	($\epsilon c2/\epsilon s1=-3.50/-3.39$)	N= 4476	Myy= 0	Mzz= 0	($\epsilon c2/\epsilon s1=-3.50/-3.40$)
N= 4476	Myy= 0	Mzz= 0	($\epsilon c2/\epsilon s1=-3.50/-3.23$)	N= 4476	Myy= 0	Mzz= 0	($\epsilon c2/\epsilon s1=-3.50/-3.24$)
N= 4476	Myy= 0	Mzz= 0	($\epsilon c2/\epsilon s1=-3.50/-2.95$)	N= 4476	Myy= 0	Mzz= 0	($\epsilon c2/\epsilon s1=-3.50/-2.99$)
N= 4476	Myy= 0	Mzz= 0	($\epsilon c2/\epsilon s1=-3.50/-2.59$)	N= 4476	Myy= 0	Mzz= 0	($\epsilon c2/\epsilon s1=-3.50/-2.65$)
N= 4009	Myy= 28	Mzz= 64	($\epsilon c2/\epsilon s1=-3.50/-0.77$)	N= 4083	Myy= 17	Mzz= 56	($\epsilon c2/\epsilon s1=-3.50/-0.94$)
N= 3895	Myy= 33	Mzz= 78	($\epsilon c2/\epsilon s1=-3.50/-0.62$)	N= 3986	Myy= 20	Mzz= 69	($\epsilon c2/\epsilon s1=-3.50/-0.80$)
N= 3751	Myy= 40	Mzz= 96	($\epsilon c2/\epsilon s1=-3.50/-0.46$)	N= 3862	Myy= 24	Mzz= 85	($\epsilon c2/\epsilon s1=-3.50/-0.65$)
N= 3571	Myy= 48	Mzz= 117	($\epsilon c2/\epsilon s1=-3.50/-0.29$)	N= 3704	Myy= 30	Mzz= 105	($\epsilon c2/\epsilon s1=-3.50/-0.49$)
N= 3357	Myy= 55	Mzz= 139	($\epsilon c2/\epsilon s1=-3.50/-0.08$)	N= 3506	Myy= 35	Mzz= 130	($\epsilon c2/\epsilon s1=-3.50/-0.30$)
N= 3114	Myy= 61	Mzz= 162	($\epsilon c2/\epsilon s1=-3.50/ 0.14$)	N= 3275	Myy= 39	Mzz= 156	($\epsilon c2/\epsilon s1=-3.50/-0.08$)
N= 2847	Myy= 65	Mzz= 183	($\epsilon c2/\epsilon s1=-3.50/ 0.40$)	N= 3020	Myy= 40	Mzz= 182	($\epsilon c2/\epsilon s1=-3.50/ 0.16$)
N= 2270	Myy= 69	Mzz= 214	($\epsilon c2/\epsilon s1=-3.50/ 1.05$)	N= 2470	Myy= 43	Mzz= 220	($\epsilon c2/\epsilon s1=-3.50/ 0.77$)
N= 1653	Myy= 74	Mzz= 224	($\epsilon c2/\epsilon s1=-3.50/ 1.96$)	N= 1885	Myy= 47	Mzz= 238	($\epsilon c2/\epsilon s1=-3.50/ 1.62$)
N= 1051	Myy= 72	Mzz= 205	($\epsilon c2/\epsilon s1=-3.50/ 3.33$)	N= 1282	Myy= 47	Mzz= 233	($\epsilon c2/\epsilon s1=-3.50/ 2.90$)
N= 466	Myy= 70	Mzz= 152	($\epsilon c2/\epsilon s1=-3.50/ 5.61$)	N= 730	Myy= 48	Mzz= 189	($\epsilon c2/\epsilon s1=-3.50/ 5.04$)
N= 189	Myy= 68	Mzz= 115	($\epsilon c2/\epsilon s1=-3.50/ 7.43$)	N= 437	Myy= 50	Mzz= 154	($\epsilon c2/\epsilon s1=-3.50/ 6.75$)
(Ned [kN], Med [kNm], $\epsilon c2$ $\epsilon s1$ [o/oo])							

Neutral axis slope $\theta=82.50^\circ$				Neutral axis slope $\theta=90.00^\circ$			
N= 4476	Myy= 0	Mzz= 0	($\epsilon c2/\epsilon s1=-3.50/-3.48$)	N= 4476	Myy= 0	Mzz= 0	($\epsilon c2/\epsilon s1=-3.50/-3.47$)
N= 4476	Myy= 0	Mzz= 0	($\epsilon c2/\epsilon s1=-3.50/-3.45$)	N= 4476	Myy= 0	Mzz= 0	($\epsilon c2/\epsilon s1=-3.50/-3.44$)
N= 4476	Myy= 0	Mzz= 0	($\epsilon c2/\epsilon s1=-3.50/-3.41$)	N= 4476	Myy= 0	Mzz= 0	($\epsilon c2/\epsilon s1=-3.50/-3.38$)
N= 4476	Myy= 0	Mzz= 0	($\epsilon c2/\epsilon s1=-3.50/-3.27$)	N= 4476	Myy= 0	Mzz= 0	($\epsilon c2/\epsilon s1=-3.50/-3.20$)
N= 4476	Myy= 0	Mzz= 0	($\epsilon c2/\epsilon s1=-3.50/-3.03$)	N= 4476	Myy= 0	Mzz= 0	($\epsilon c2/\epsilon s1=-3.50/-2.91$)
N= 4476	Myy= 0	Mzz= 0	($\epsilon c2/\epsilon s1=-3.50/-2.72$)	N= 4476	Myy= 0	Mzz= 0	($\epsilon c2/\epsilon s1=-3.50/-2.51$)
N= 4168	Myy= 7	Mzz= 45	($\epsilon c2/\epsilon s1=-3.50/-1.15$)	N= 3520	Myy= 0	Mzz= 135	($\epsilon c2/\epsilon s1=-3.50/-0.54$)
N= 4088	Myy= 9	Mzz= 56	($\epsilon c2/\epsilon s1=-3.50/-1.03$)	N= 3324	Myy= 0	Mzz= 160	($\epsilon c2/\epsilon s1=-3.50/-0.39$)
N= 3987	Myy= 11	Mzz= 70	($\epsilon c2/\epsilon s1=-3.50/-0.89$)	N= 3162	Myy= 0	Mzz= 177	($\epsilon c2/\epsilon s1=-3.50/-0.21$)
N= 3857	Myy= 13	Mzz= 88	($\epsilon c2/\epsilon s1=-3.50/-0.74$)	N= 2958	Myy= 0	Mzz= 198	($\epsilon c2/\epsilon s1=-3.50/-0.02$)
N= 3689	Myy= 16	Mzz= 110	($\epsilon c2/\epsilon s1=-3.50/-0.57$)	N= 2792	Myy= 0	Mzz= 211	($\epsilon c2/\epsilon s1=-3.50/ 0.20$)
N= 3472	Myy= 19	Mzz= 138	($\epsilon c2/\epsilon s1=-3.50/-0.37$)	N= 2580	Myy= 0	Mzz= 227	($\epsilon c2/\epsilon s1=-3.50/ 0.44$)
N= 3223	Myy= 20	Mzz= 168	($\epsilon c2/\epsilon s1=-3.50/-0.15$)	N= 2407	Myy= 0	Mzz= 237	($\epsilon c2/\epsilon s1=-3.50/ 0.72$)
N= 2700	Myy= 20	Mzz= 215	($\epsilon c2/\epsilon s1=-3.50/ 0.41$)	N= 1998	Myy= 0	Mzz= 255	($\epsilon c2/\epsilon s1=-3.50/ 1.43$)
N= 2154	Myy= 21	Mzz= 244	($\epsilon c2/\epsilon s1=-3.50/ 1.19$)	N= 1585	Myy= 0	Mzz= 265	($\epsilon c2/\epsilon s1=-3.50/ 2.41$)
N= 1541	Myy= 23	Mzz= 255	($\epsilon c2/\epsilon s1=-3.50/ 2.37$)	N= 1267	Myy= 0	Mzz= 248	($\epsilon c2/\epsilon s1=-3.50/ 3.89$)
N= 1027	Myy= 24	Mzz= 225	($\epsilon c2/\epsilon s1=-3.50/ 4.32$)	N= 899	Myy= 0	Mzz= 215	($\epsilon c2/\epsilon s1=-3.50/ 6.36$)
N= 748	Myy= 25	Mzz= 196	($\epsilon c2/\epsilon s1=-3.50/ 5.89$)	N= 627	Myy= 0	Mzz= 185	($\epsilon c2/\epsilon s1=-3.50/ 8.33$)
N= 285	Myy= 29	Mzz= 137	($\epsilon c2/\epsilon s1=-3.50/ 9.91$)	N= 318	Myy= 0	Mzz= 142	($\epsilon c2/\epsilon s1=-3.50/13.40$)
(Ned [kN], Med [kNm], $\epsilon c2$ $\epsilon s1$ [o/oo])							