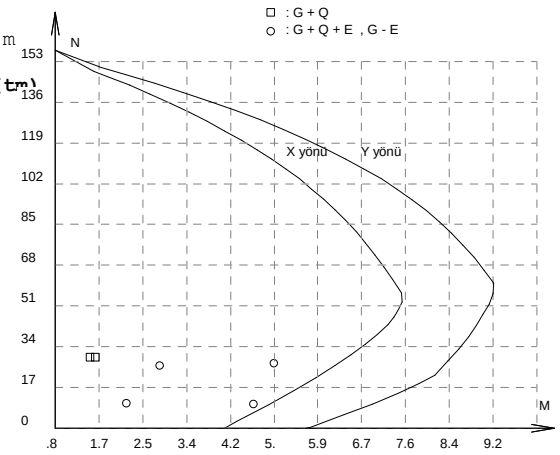
SZ01 KOLONU

I/J :2/1 Bx/By :25/35 βx:1.000 βy:1.000 Hk :3.0 m
Material:E1 C25 S420



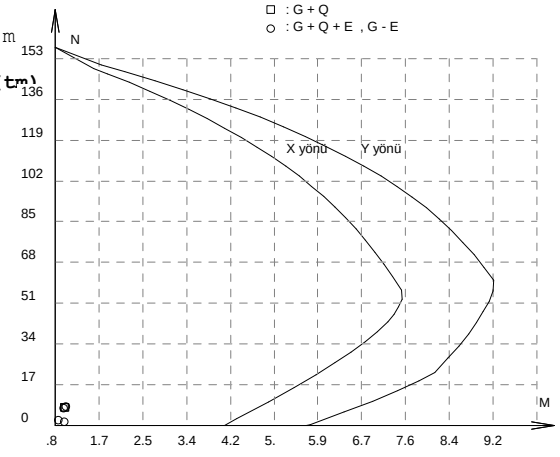
KOMBİNASYON	maxNd (t)	üstMx	altMx	üstMy	altMy (tm)
1.(G+G+G+G)	18.41	-0.17	-0.07	-0.43	-0.18
2.(Q+Q+Q+Q)	2.44	-0.04	-0.02	-0.08	-0.04
3.(o+Q+o+Q)	1.19	0.01	0.00	0.03	0.01
4.(Q+o+Q+o)	1.23	-0.04	-0.02	-0.11	-0.05
5.(Q+Q+o+Q)	1.86	-0.04	-0.02	-0.11	-0.05
6.(o+Q+Q+o)	1.79	-0.03	-0.01	-0.07	-0.03
7.(o+o+Q+Q)	1.17	0.00	0.00	0.01	0.01
Zemin itkisi	0.00	0.00	0.00	0.00	0.00
X-Deprem+%5	-6.14	1.20	1.43	0.49	0.62
X-Deprem-%5	-5.51	1.62	1.91	-0.46	-0.64
Y-Deprem+%5	-5.41	0.10	0.11	1.50	2.12
Y-Deprem-%5	-6.33	-0.51	-0.59	2.88	3.96
X-Rüzgar+%5	-0.66	0.14	0.16	0.06	0.07
X-Rüzgar-%5	-0.59	0.19	0.22	-0.06	-0.08
Y-Rüzgar+%5	-0.75	0.02	0.02	0.23	0.32
Y-Rüzgar-%5	-0.88	-0.08	-0.09	0.44	0.60

BETONARME :	X-(G+Q)	X-(G+Q+E)	Y-(G+Q)	Y-(G+Q+E)	X-(G-E)	Y-(G-E)	
max. Nd (t) :	29.490	26.241	29.490	27.065	10.430	10.234	
minor M (tm):	-0.772	0.411	-0.315	0.498	0.454	-0.656	
major M (tm):	-0.664	-2.004	-0.773	-4.187	1.365	3.795	
fcd (kg/cm²):	166.667	166.667	166.667	166.667	166.667	166.667	
μ :	0.0025	0.0025	0.0025	0.0025	0.0025	0.0025	
As (cm²):	2.188	2.188	2.188	2.188	2.188	2.188	Cqa=0.952

DONATI :2x2ø14+2x1ø14 (govde) + ø8/12/8(etriye)

SB01 KOLONU

I/J :1/ Bx/By :25/35 βx:1.000 βy:1.000 Hk :3.0 m
Material:E1 C25 S420



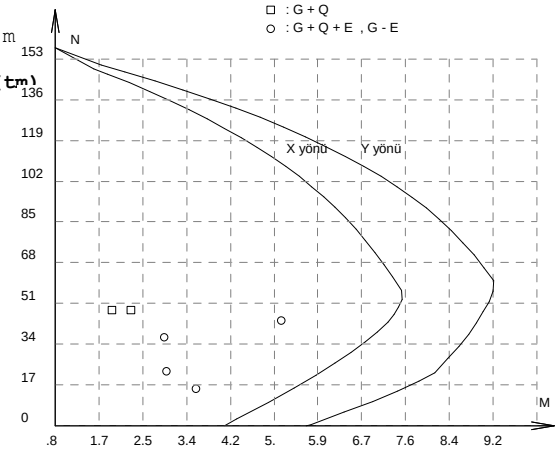
KOMBİNASYON	maxNd (t)	üstMx	altMx	üstMy	altMy (tm)
1.(G+G+G+G)	4.86	0.01	0.01	0.03	0.01
2.(Q+Q+Q+Q)	0.59	0.00	0.00	0.00	0.00
3.(o+Q+o+Q)	0.33	0.00	0.00	0.00	0.00
4.(Q+o+Q+o)	0.25	0.00	0.00	0.00	0.00
5.(Q+Q+o+Q)	0.46	0.00	0.00	0.00	0.00
6.(o+Q+Q+o)	0.37	0.00	0.00	0.00	0.00
7.(o+o+Q+Q)	0.33	0.00	0.00	0.00	0.00
Zemin itkisi	0.07	0.00	0.00	0.00	-0.01
X-Deprem+%5	-2.14	0.04	0.05	-0.02	-0.01
X-Deprem-%5	-1.97	0.04	0.05	-0.02	-0.01
Y-Deprem+%5	-2.45	-0.01	-0.01	0.13	0.16
Y-Deprem-%5	-2.71	-0.02	-0.01	0.13	0.16
X-Rüzgar+%5	-0.23	0.00	0.01	0.00	0.00
X-Rüzgar-%5	-0.21	0.00	0.01	0.00	0.00
Y-Rüzgar+%5	-0.35	0.00	0.00	0.02	0.02
Y-Rüzgar-%5	-0.38	0.00	0.00	0.02	0.02

BETONARME :	X-(G+Q)	X-(G+Q+E)	Y-(G+Q)	Y-(G+Q+E)	X-(G-E)	Y-(G-E)	
max. Nd (t) :	7.466	7.245	7.466	7.980	2.227	1.664	
minor M (tm):	0.046	0.010	0.016	-0.004	0.005	-0.005	
major M (tm):	0.168	0.163	0.190	0.203	0.056	0.176	
fcd (kg/cm²):	166.667	166.667	166.667	166.667	166.667	166.667	
μ :	0.0025	0.0025	0.0025	0.0025	0.0025	0.0025	
As (cm²):	2.188	2.188	2.188	2.188	2.188	2.188	Cqa=0.600

DONATI :2x2ø14+2x1ø14 (govde) + ø8/10(etriye)

SZ02 KOLONU

I/J :6/8 Bx/By :25/35 βx:1.000 βy:1.000 Hk :3.0 m
Material:E1 C25 S420



KOMBİNASYON	maxNd (t)	üstMx	altMx	üstMy	altMy (tm)
1.(G+G+G+G)	28.50	-0.07	-0.03	-0.69	-0.71
2.(Q+Q+Q+Q)	5.44	-0.02	-0.01	-0.27	-0.28
3.(o+Q+o+Q)	2.68	-0.04	-0.02	-0.07	-0.18
4.(Q+o+Q+o)	2.71	0.02	0.01	-0.21	-0.09
5.(Q+Q+o+Q)	3.65	0.02	0.01	-0.28	-0.26
6.(o+Q+Q+o)	4.07	-0.03	-0.01	-0.17	-0.10
7.(o+o+Q+Q)	3.05	-0.03	-0.02	-0.10	-0.20
Zemin itkisi	0.00	0.00	0.00	0.00	0.00
X-Deprem+%5	0.83	1.49	1.58	0.37	0.41
X-Deprem-%5	3.06	1.99	2.10	-0.40	-0.45
Y-Deprem+%5	-6.77	0.13	0.14	1.77	2.07
Y-Deprem-%5	-10.06	-0.59	-0.62	2.89	3.34
X-Rüzgar+%5	0.09	0.17	0.18	0.04	0.05
X-Rüzgar-%5	0.33	0.23	0.24	-0.05	-0.05
Y-Rüzgar+%5	-0.93	0.02	0.02	0.27	0.31
Y-Rüzgar-%5	-1.39	-0.09	-0.10	0.44	0.51

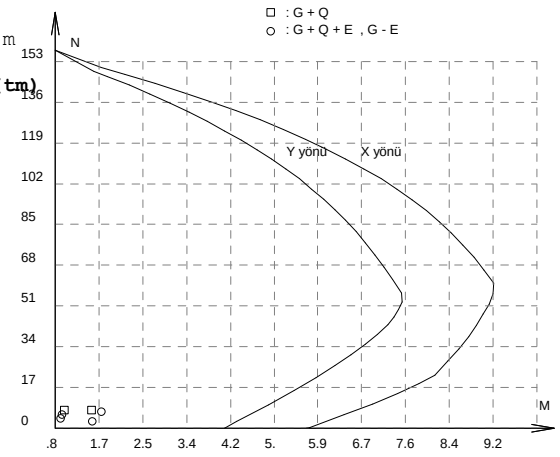
BETONARME :	X-(G+Q)	X-(G+Q+E)	Y-(G+Q)	Y-(G+Q+E)	X-(G-E)	Y-(G-E)	
max. Nd (t) :	48.196	36.744	48.196	43.745	22.590	15.588	
minor M (tm):	-1.079	-1.420	-0.056	0.584	-0.189	-0.649	
major M (tm):	-1.084	2.087	-1.446	-4.331	-2.131	2.697	
fcd (kg/cm²):	166.667	166.667	166.667	166.667	166.667	166.667	
μ :	0.0025	0.0025	0.0025	0.0025	0.0025	0.0025	
As (cm²):	2.188	2.188	2.188	2.188	2.188	2.188	Cqa=0.952

DONATI :2x2ø14+2x1ø14 (govde) + ø8/12/8(etriye)

SB05 KOLONU

I/J :9/ Bx/By :35/25 βx:1.000 βy:1.000 Hk :3.0 m
Material:E1 C25 S420

KOMBİNASYON	maxNd (t)	üstMx	altMx	üstMy	altMy (tm)
1.(G+G+G+G)	4.88	-0.35	-0.17	0.00	0.00
2.(Q+Q+Q+Q)	0.76	-0.13	-0.06	0.00	0.00
3.(o+Q+o+Q)	0.40	-0.13	-0.06	0.00	0.00
4.(Q+o+Q+o)	0.35	0.00	0.00	0.00	0.00
5.(Q+Q+o+Q)	0.54	-0.09	-0.05	0.00	0.00
6.(o+Q+Q+o)	0.50	-0.04	-0.02	0.00	0.00
7.(o+o+Q+Q)	0.46	-0.13	-0.06	0.00	0.00
Zemin itkisi	0.00	0.00	0.00	0.00	0.00
X-Deprem+%5	-1.26	-0.34	-0.09	0.00	0.00
X-Deprem-%5	-1.46	-0.40	-0.12	0.00	0.00
Y-Deprem+%5	0.03	-0.02	-0.01	0.09	0.09
Y-Deprem-%5	0.32	0.07	0.03	0.09	0.10
X-Rüzgar+%5	-0.14	-0.04	-0.01	0.00	0.00
X-Rüzgar-%5	-0.16	-0.05	-0.02	0.00	0.00
Y-Rüzgar+%5	0.00	0.00	0.00	0.01	0.01
Y-Rüzgar-%5	0.04	0.01	0.01	0.01	0.01



BETONARME :	X-(G+Q)	X-(G+Q+E)	Y-(G+Q)	Y-(G+Q+E)	X-(G-E)	Y-(G-E)
max. Nd (t) :	7.570	6.804	7.570	5.661	2.932	4.074
minor M (tm):	-0.007	-0.008	-0.550	-0.404	-0.004	-0.184
major M (tm):	-0.703	-0.885	-0.170	0.127	-0.714	-0.097
fcd (kg/cm²):	166.667	166.667	166.667	166.667	166.667	166.667
μ :	0.0025	0.0025	0.0025	0.0025	0.0025	0.0025
As (cm²):	2.188	2.188	2.188	2.188	2.188	2.188

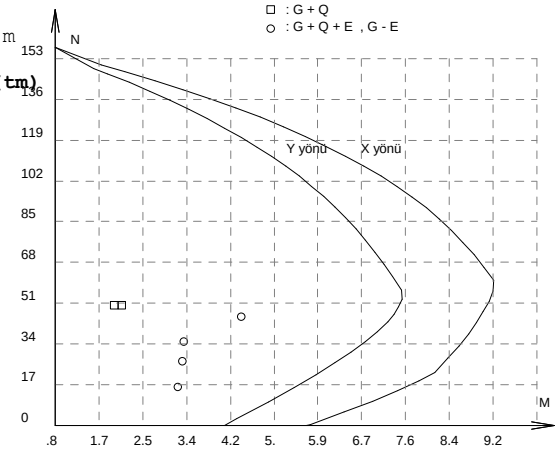
Cqa=0.600

DONATI :2x2ø14+2x1ø14 (govde) + ø8/10(etriye)

SZ06 KOLONU

I/J :15/29 Bx/By :35/25 βx:1.000 βy:1.000 Hk :3.0 m
Material:E1 C25 S420

KOMBİNASYON	maxNd (t)	üstMx	altMx	üstMy	altMy (tm)
1.(G+G+G+G)	29.65	-0.51	-0.53	0.00	0.00
2.(Q+Q+Q+Q)	5.68	-0.22	-0.22	0.00	0.00
3.(o+Q+o+Q)	2.78	-0.07	-0.13	0.05	0.02
4.(Q+o+Q+o)	2.84	-0.15	-0.09	-0.05	-0.02
5.(Q+Q+o+Q)	3.77	-0.19	-0.17	-0.04	-0.02
6.(o+Q+Q+o)	3.71	-0.14	-0.10	0.04	0.02
7.(o+o+Q+Q)	3.75	-0.11	-0.17	0.00	0.00
Zemin itkisi	0.00	0.00	0.00	0.00	0.00
X-Deprem+%5	-10.46	2.44	2.82	0.35	0.38
X-Deprem-%5	-10.46	2.44	2.82	-0.35	-0.38
Y-Deprem+%5	0.00	0.00	0.00	1.22	1.34
Y-Deprem-%5	0.00	0.00	0.00	2.26	2.44
X-Rüzgar+%5	-1.12	0.29	0.33	0.04	0.04
X-Rüzgar-%5	-1.12	0.29	0.33	-0.04	-0.04
Y-Rüzgar+%5	0.00	0.00	0.00	0.18	0.20
Y-Rüzgar-%5	0.00	0.00	0.00	0.34	0.37



BETONARME :	X-(G+Q)	X-(G+Q+E)	Y-(G+Q)	Y-(G+Q+E)	X-(G-E)	Y-(G-E)
max. Nd (t) :	50.166	45.517	50.166	35.060	16.225	26.683
minor M (tm):	-0.002	-0.380	-0.957	-0.613	-0.379	-0.473
major M (tm):	-1.279	-3.565	-1.129	-2.468	2.345	2.443
fcd (kg/cm²):	166.667	166.667	166.667	166.667	166.667	166.667
μ :	0.0025	0.0025	0.0025	0.0025	0.0025	0.0025
As (cm²):	2.188	2.188	2.188	2.188	2.188	2.188

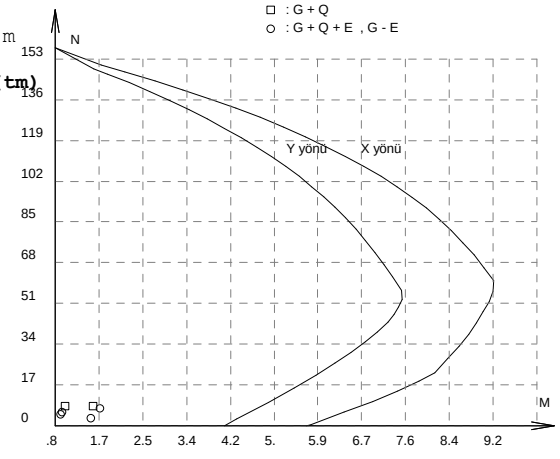
Cqa=0.953

DONATI :2x2ø14+2x1ø14 (govde) + ø8/12/8(etriye)

SB06 KOLONU

I/J :29/ Bx/By :35/25 βx:1.000 βy:1.000 Hk :3.0 m
Material:E1 C25 S420

KOMBİNASYON	maxNd (t)	üstMx	altMx	üstMy	altMy (tm)
1.(G+G+G+G)	5.18	-0.35	-0.17	0.00	0.00
2.(Q+Q+Q+Q)	0.84	-0.14	-0.07	0.00	0.00
3.(o+Q+o+Q)	0.44	-0.13	-0.06	0.00	0.00
4.(Q+o+Q+o)	0.39	-0.01	0.00	0.00	0.00
5.(Q+Q+o+Q)	0.56	-0.09	-0.05	0.00	0.00
6.(o+Q+Q+o)	0.55	-0.04	-0.02	0.00	0.00
7.(o+o+Q+Q)	0.55	-0.14	-0.07	0.00	0.00
Zemin itkisi	0.00	0.00	0.00	0.00	0.00
X-Deprem+%5	-1.41	-0.37	-0.11	0.00	0.00
X-Deprem-%5	-1.41	-0.37	-0.11	0.00	0.00
Y-Deprem+%5	0.00	0.00	0.00	0.09	0.09
Y-Deprem-%5	0.00	0.00	0.00	0.10	0.10
X-Rüzgar+%5	-0.15	-0.04	-0.01	0.00	0.00
X-Rüzgar-%5	-0.15	-0.04	-0.01	0.00	0.00
Y-Rüzgar+%5	0.00	0.00	0.00	0.01	0.01
Y-Rüzgar-%5	0.00	0.00	0.00	0.01	0.01



BETONARME :	X-(G+Q)	X-(G+Q+E)	Y-(G+Q)	Y-(G+Q+E)	X-(G-E)	Y-(G-E)
max. Nd (t) :	8.058	7.099	8.058	5.684	3.247	4.662
minor M (tm):	-0.003	0.002	-0.701	-0.356	-0.002	-0.315
major M (tm):	-0.721	-0.863	-0.181	0.128	-0.687	0.100
fcd (kg/cm²):	166.667	166.667	166.667	166.667	166.667	166.667
μ :	0.0025	0.0025	0.0025	0.0025	0.0025	0.0025
As (cm²):	2.188	2.188	2.188	2.188	2.188	2.188

Cqa=0.600

DONATI :2x2ø14+2x1ø14 (govde) + ø8/10(etriye)

SZ13 KOLONU

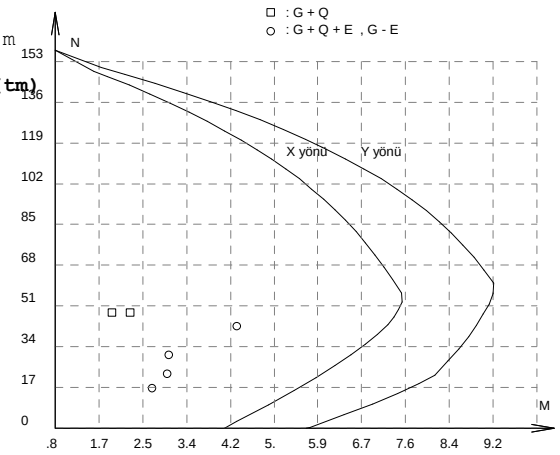
I/J :69/97 Bx/By :25/35 βx:1.000 βy:1.000 Hk :3.0 m
Material:E1 C25 S420

KOMBİNASYON	maxNd (t)	üstMx	altMx	üstMy	altMy (tm)
1.(G+G+G+G)	28.48	0.08	0.04	-0.68	-0.70
2.(Q+Q+Q+Q)	5.44	0.02	0.01	-0.27	-0.28
3.(o+Q+o+Q)	2.63	0.00	0.00	-0.07	-0.19
4.(Q+o+Q+o)	2.75	0.02	0.01	-0.20	-0.09
5.(Q+Q+o+Q)	3.66	-0.02	-0.01	-0.28	-0.25
6.(o+Q+Q+o)	4.02	0.02	0.01	-0.17	-0.10
7.(o+o+Q+Q)	3.08	0.04	0.02	-0.09	-0.20
Zemin itkisi	0.00	0.00	0.00	0.00	0.00
X-Deprem+%5	-0.95	1.49	1.58	-0.30	-0.34
X-Deprem-%5	-2.96	1.99	2.10	0.32	0.37
Y-Deprem+%5	-8.83	0.13	0.14	2.12	2.49
Y-Deprem-%5	-5.86	-0.59	-0.62	1.21	1.46
X-Rüzgar+%5	-0.10	0.17	0.18	-0.04	-0.04
X-Rüzgar-%5	-0.32	0.23	0.24	0.04	0.04
Y-Rüzgar+%5	-1.24	0.02	0.02	0.32	0.37
Y-Rüzgar-%5	-0.83	-0.09	-0.10	0.18	0.21

BETONARME :	X-(G+Q)	X-(G+Q+E)	Y-(G+Q)	Y-(G+Q+E)	X-(G-E)	Y-(G-E)
max. Nd (t) :	48.165	30.699	48.165	42.493	22.669	16.803
minor M (tm):	-1.105	-0.530	0.082	-0.088	-0.263	0.184
major M (tm):	1.084	2.170	-1.432	-3.477	2.144	1.861
fcd (kg/cm²):	166.667	166.667	166.667	166.667	166.667	166.667
μ :	0.0025	0.0025	0.0025	0.0025	0.0025	0.0025
As (cm²):	2.188	2.188	2.188	2.188	2.188	2.188

Cqa=0.952

DONATI :2x2ø14+2x1ø14 (govde) + ø8/12/8(etriye)



SB13 KOLONU

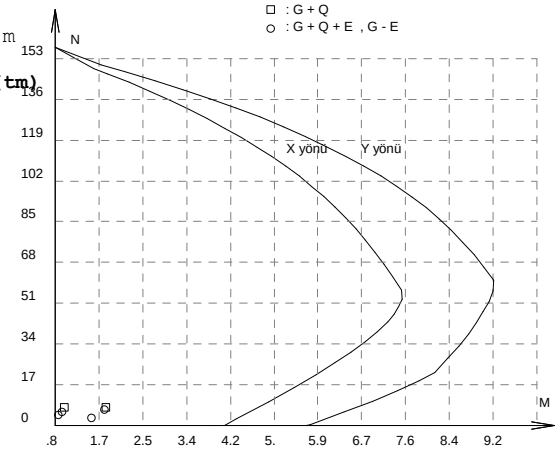
I/J :97/ Bx/By :25/35 βx:1.000 βy:1.000 Hk :3.0 m
Material:E1 C25 S420

KOMBİNASYON	maxNd (t)	üstMx	altMx	üstMy	altMy (tm)
1.(G+G+G+G)	4.93	0.00	0.00	-0.45	-0.22
2.(Q+Q+Q+Q)	0.80	0.00	0.00	-0.18	-0.09
3.(o+Q+o+Q)	0.47	0.00	0.00	-0.20	-0.10
4.(Q+o+Q+o)	0.32	0.00	0.00	0.02	0.01
5.(Q+Q+o+Q)	0.59	0.00	0.00	-0.14	-0.07
6.(o+Q+Q+o)	0.52	0.00	0.00	-0.01	0.00
7.(o+o+Q+Q)	0.47	0.00	0.00	-0.20	-0.10
Zemin itkisi	0.00	0.00	0.00	0.00	-0.01
X-Deprem+%5	0.13	0.05	0.06	0.07	0.03
X-Deprem-%5	-0.11	0.06	0.06	-0.05	-0.02
Y-Deprem+%5	-1.32	0.01	0.00	-0.29	-0.03
Y-Deprem-%5	-0.96	0.00	0.00	-0.11	0.05
X-Rüzgar+%5	0.01	0.01	0.01	0.01	0.00
X-Rüzgar-%5	-0.01	0.01	0.01	-0.01	0.00
Y-Rüzgar+%5	-0.19	0.00	0.00	-0.04	-0.01
Y-Rüzgar-%5	-0.14	0.00	0.00	-0.02	0.01

BETONARME :	X-(G+Q)	X-(G+Q+E)	Y-(G+Q)	Y-(G+Q+E)	X-(G-E)	Y-(G-E)
max. Nd (t) :	7.670	5.524	7.670	6.730	4.303	3.115
minor M (tm):	-0.918	-0.326	0.000	0.006	-0.232	0.007
major M (tm):	0.173	0.124	-0.965	-0.947	-0.057	-0.695
fcd (kg/cm²):	166.667	166.667	166.667	166.667	166.667	166.667
μ :	0.0025	0.0025	0.0025	0.0025	0.0025	0.0025
As (cm²):	2.188	2.188	2.188	2.188	2.188	2.188

Cqa=0.600

DONATI :2x2ø14+2x1ø14 (govde) + ø8/10(etriye)



SZ14 KOLONU

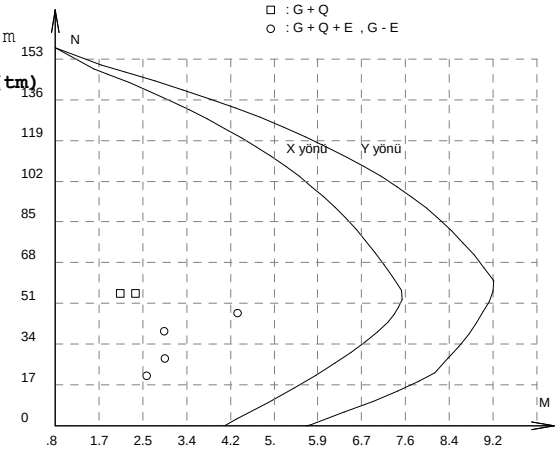
I/J :45/70 Bx/By :25/35 βx:1.000 βy:1.000 Hk :3.0 m
Material:E1 C25 S420

KOMBİNASYON	maxNd (t)	üstMx	altMx	üstMy	altMy (tm)
1.(G+G+G+G)	32.29	0.03	0.02	-0.72	-0.75
2.(Q+Q+Q+Q)	6.60	0.01	0.00	-0.30	-0.31
3.(o+Q+o+Q)	3.28	0.05	0.02	-0.09	-0.20
4.(Q+o+Q+o)	3.26	-0.04	-0.02	-0.21	-0.11
5.(Q+Q+o+Q)	4.48	0.05	0.02	-0.30	-0.28
6.(o+Q+Q+o)	4.90	0.01	0.00	-0.19	-0.12
7.(o+o+Q+Q)	3.70	-0.04	-0.02	-0.11	-0.21
Zemin itkisi	0.00	0.00	0.00	0.00	0.00
X-Deprem+%5	-0.09	1.45	1.57	-0.14	-0.16
X-Deprem-%5	-0.93	1.94	2.09	0.15	0.17
Y-Deprem+%5	-8.28	0.13	0.14	2.07	2.43
Y-Deprem-%5	-7.04	-0.58	-0.61	1.65	1.95
X-Rüzgar+%5	-0.01	0.17	0.18	-0.02	-0.02
X-Rüzgar-%5	-0.10	0.22	0.24	0.02	0.02
Y-Rüzgar+%5	-1.16	0.02	0.02	0.31	0.36
Y-Rüzgar-%5	-0.98	-0.09	-0.09	0.25	0.29

BETONARME :	X-(G+Q)	X-(G+Q+E)	Y-(G+Q)	Y-(G+Q+E)	X-(G-E)	Y-(G-E)
max. Nd (t) :	55.250	39.499	55.250	46.850	28.129	20.779
minor M (tm):	-1.149	-1.128	0.035	-0.117	-0.506	0.159
major M (tm):	1.243	-2.088	-1.543	-3.489	2.105	1.755
fcd (kg/cm²):	166.667	166.667	166.667	166.667	166.667	166.667
μ :	0.0025	0.0025	0.0025	0.0025	0.0025	0.0025
As (cm²):	2.188	2.188	2.188	2.188	2.188	2.188

Cqa=0.951

DONATI :2x2ø14+2x1ø14 (govde) + ø8/12/8(etriye)



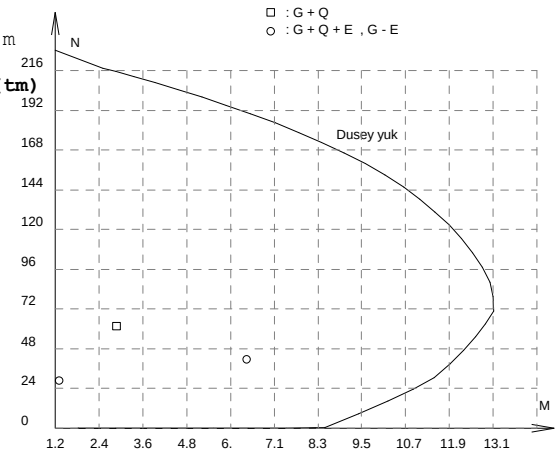
SZ19 KOLONU

I/J :122/128 Bx/By :40/ βx:1.000 βy:1.000 Hk :3.0 m
Material:E1 C25 S420

KOMBİNASYON	maxNd (t)	üstMx	altMx	üstMy	altMy (tm)
1.(G+G+G+G)	33.47	0.27	0.35	0.00	0.00
2.(Q+Q+Q+Q)	9.75	0.12	0.13	0.00	0.00
3.(o+Q+o+Q)	4.70	0.04	0.07	0.11	-0.07
4.(Q+o+Q+o)	4.90	0.07	0.05	-0.11	0.07
5.(Q+Q+o+Q)	5.92	-0.03	0.04	-0.07	0.07
6.(o+Q+Q+o)	6.38	0.15	0.19	0.15	0.07
7.(o+o+Q+Q)	6.91	0.11	0.01	-0.08	-0.14
Zemin itkisi	0.00	0.00	0.00	0.00	0.00
X-Deprem+%5	-1.23	4.29	4.66	-0.53	-0.57
X-Deprem-%5	-1.23	4.29	4.66	0.53	0.57
Y-Deprem+%5	0.00	0.00	0.00	3.68	4.05
Y-Deprem-%5	0.00	0.00	0.00	2.14	2.38
X-Rüzgar+%5	-0.14	0.50	0.54	-0.06	-0.07
X-Rüzgar-%5	-0.14	0.50	0.54	0.06	0.07
Y-Rüzgar+%5	0.00	0.00	0.00	0.55	0.60
Y-Rüzgar-%5	0.00	0.00	0.00	0.31	0.35

BETONARME :	X-(G+Q)	X-(G+Q+E)	Y-(G+Q)	Y-(G+Q+E)	X-(G-E)	Y-(G-E)	
max. Nd (t) :	61.667	41.491	61.667	42.725	28.885	30.119	
minor M (tm):	0.110	-0.500	0.610	0.415	0.569	0.313	
major M (tm):	1.665	5.192	-1.665	3.833	4.970	-4.049	
fcd (kg/cm²):	166.667	166.667	166.667	166.667	166.667	166.667	
μ :	0.0110	0.0110	0.0110	0.0110	0.0110	0.0110	
As (cm²):	13.757	13.757	13.757	13.757	13.757	13.757	Cqa=0.950

DONATI :9ø14 + ø8/15/5(etriye)



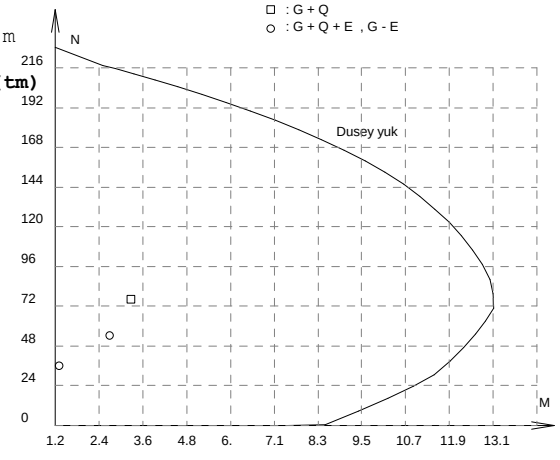
SB19 KOLONU

I/J :128/ Bx/By :40/ βx:1.000 βy:1.000 Hk :3.0 m
Material:E1 C25 S420

KOMBİNASYON	maxNd (t)	üstMx	altMx	üstMy	altMy (tm)
1.(G+G+G+G)	41.89	0.26	0.13	0.00	0.00
2.(Q+Q+Q+Q)	12.36	0.08	0.04	0.00	0.00
3.(o+Q+o+Q)	6.70	0.07	0.03	-0.19	-0.09
4.(Q+o+Q+o)	5.49	0.01	0.00	0.19	0.09
5.(Q+Q+o+Q)	7.78	0.08	0.04	0.15	0.07
6.(o+Q+Q+o)	8.73	0.14	0.07	-0.01	-0.01
7.(o+o+Q+Q)	7.87	-0.06	-0.03	-0.14	-0.07
Zemin itkisi	0.00	0.00	0.00	-0.01	-0.01
X-Deprem+%5	-1.72	-0.31	-0.05	0.07	0.03
X-Deprem-%5	-1.72	-0.31	-0.05	-0.07	-0.03
Y-Deprem+%5	0.00	0.00	0.00	-0.27	0.03
Y-Deprem-%5	0.00	0.00	0.00	-0.06	0.12
X-Rüzgar+%5	-0.20	-0.04	-0.01	0.01	0.00
X-Rüzgar-%5	-0.20	-0.04	-0.01	-0.01	0.00
Y-Rüzgar+%5	0.00	0.00	0.00	-0.04	0.00
Y-Rüzgar-%5	0.00	0.00	0.00	-0.01	0.02

BETONARME :	X-(G+Q)	X-(G+Q+E)	Y-(G+Q)	Y-(G+Q+E)	X-(G-E)	Y-(G-E)	
max. Nd (t) :	76.101	54.521	76.101	52.800	35.984	37.705	
minor M (tm):	-0.021	-0.083	0.475	0.270	-0.070	0.235	
major M (tm):	2.055	1.472	2.055	1.426	-0.074	0.269	
fcd (kg/cm²):	166.667	166.667	166.667	166.667	166.667	166.667	
μ :	0.0110	0.0110	0.0110	0.0110	0.0110	0.0110	
As (cm²):	13.757	13.757	13.757	13.757	13.757	13.757	Cqa=0.882

DONATI :9ø14 + ø8/15/5(etriye)



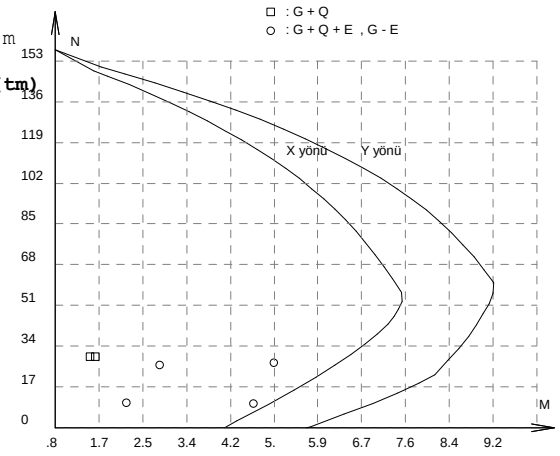
SZ20 KOLONU

I/J :49/73 Bx/By :25/35 βx:1.000 βy:1.000 Hk :3.0 m
Material:E1 C25 S420

KOMBİNASYON	maxNd (t)	üstMx	altMx	üstMy	altMy (tm)
1.(G+G+G+G)	18.41	-0.17	-0.07	0.43	0.18
2.(Q+Q+Q+Q)	2.44	-0.04	-0.02	0.08	0.04
3.(o+Q+o+Q)	1.21	0.01	0.00	0.11	0.05
4.(Q+o+Q+o)	1.20	-0.04	-0.02	-0.03	-0.01
5.(Q+Q+o+Q)	1.83	-0.04	-0.02	0.09	0.04
6.(o+Q+Q+o)	1.80	-0.03	-0.01	0.09	0.04
7.(o+o+Q+Q)	1.19	-0.01	0.00	-0.02	-0.01
Zemin itkisi	0.00	0.00	0.00	0.00	0.00
X-Deprem+%5	-5.51	1.62	1.91	0.46	0.64
X-Deprem-%5	-6.14	1.20	1.43	-0.49	-0.62
Y-Deprem+%5	5.41	-0.10	-0.11	1.50	2.12
Y-Deprem-%5	6.33	0.51	0.59	2.88	3.96
X-Rüzgar+%5	-0.59	0.19	0.22	0.06	0.08
X-Rüzgar-%5	-0.66	0.14	0.16	-0.06	-0.07
Y-Rüzgar+%5	0.75	-0.02	-0.02	0.23	0.32
Y-Rüzgar-%5	0.88	0.08	0.09	0.44	0.60

BETONARME :	X-(G+Q)	X-(G+Q+E)	Y-(G+Q)	Y-(G+Q+E)	X-(G-E)	Y-(G-E)	
max. Nd (t) :	29.489	26.240	29.489	27.064	10.430	10.233	
minor M (tm):	0.548	-0.478	-0.233	0.523	-0.454	-0.656	
major M (tm):	-0.664	-2.005	0.774	4.187	1.365	-3.795	
fcd (kg/cm²):	166.667	166.667	166.667	166.667	166.667	166.667	
μ :	0.0025	0.0025	0.0025	0.0025	0.0025	0.0025	
As (cm²):	2.188	2.188	2.188	2.188	2.188	2.188	Cqa=0.952

DONATI :2x2ø14+2x1ø14 (govde) + ø8/12/8(etriye)



SZ22 KOLONU

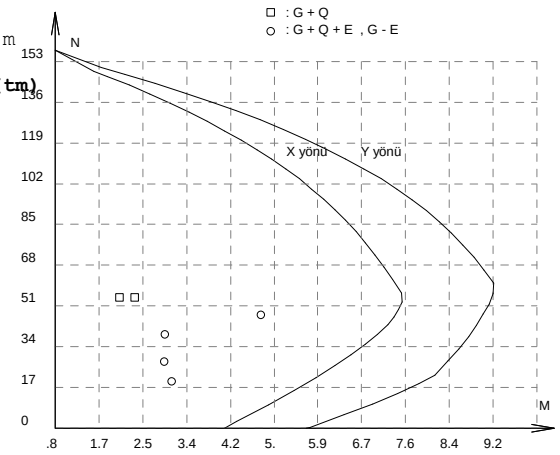
I/J :99/104 Bx/By :25/35 βx:1.000 βy:1.000 Hk :3.0 m
Material:E1 C25 S420

KOMBİNASYON	maxNd (t)	üstMx	altMx	üstMy	altMy (tm)
1.(G+G+G+G)	31.97	-0.02	-0.01	0.72	0.74
2.(Q+Q+Q+Q)	6.48	0.00	0.00	0.30	0.30
3.(o+Q+o+Q)	3.26	0.05	0.02	0.22	0.10
4.(Q+o+Q+o)	3.16	-0.05	-0.02	0.08	0.20
5.(Q+Q+o+Q)	4.37	-0.04	-0.02	0.29	0.30
6.(o+Q+Q+o)	4.31	0.04	0.02	0.21	0.11
7.(o+o+Q+Q)	4.17	-0.01	-0.01	0.10	0.19
Zemin itkisi	0.00	0.00	0.00	0.00	0.00
X-Deprem+%5	0.96	1.94	2.09	0.22	0.25
X-Deprem-%5	-0.14	1.45	1.57	-0.21	-0.24
Y-Deprem+%5	7.58	-0.13	-0.14	1.88	2.19
Y-Deprem-%5	9.21	0.58	0.61	2.51	2.90
X-Rüzgar+%5	0.10	0.22	0.24	0.03	0.03
X-Rüzgar-%5	-0.02	0.17	0.18	-0.03	-0.03
Y-Rüzgar+%5	1.05	-0.02	-0.02	0.28	0.33
Y-Rüzgar-%5	1.27	0.09	0.09	0.38	0.44

BETONARME :	X-(G+Q)	X-(G+Q+E)	Y-(G+Q)	Y-(G+Q+E)	X-(G-E)	Y-(G-E)
max. Nd (t) :	54.638	39.108	54.638	47.351	27.815	19.571
minor M (tm):	1.140	1.092	-0.009	0.608	0.422	-0.619
major M (tm):	-1.229	2.103	1.526	3.949	-2.091	-2.233
fcd (kg/cm²):	166.667	166.667	166.667	166.667	166.667	166.667
μ :	0.0025	0.0025	0.0025	0.0025	0.0025	0.0025
As (cm²):	2.188	2.188	2.188	2.188	2.188	2.188

Cqa=0.952

DONATI :2x2ø14+2x1ø14 (govde) + ø8/12/8(etriye)



SB22 KOLONU

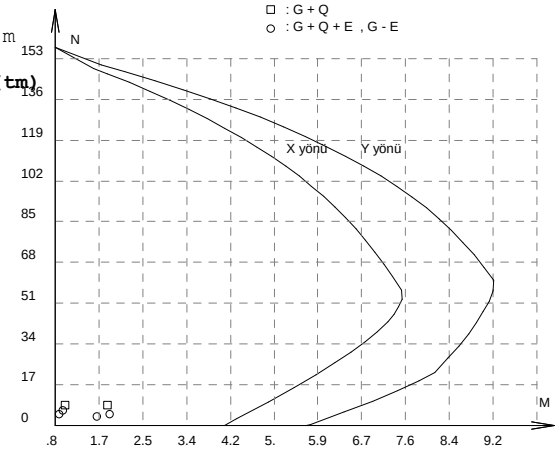
I/J :104/ Bx/By :25/35 βx:1.000 βy:1.000 Hk :3.0 m
Material:E1 C25 S420

KOMBİNASYON	maxNd (t)	üstMx	altMx	üstMy	altMy (tm)
1.(G+G+G+G)	5.49	0.00	0.00	0.48	0.23
2.(Q+Q+Q+Q)	0.96	0.00	0.00	0.19	0.09
3.(o+Q+o+Q)	0.45	0.00	0.00	-0.02	-0.01
4.(Q+o+Q+o)	0.51	0.00	0.00	0.21	0.10
5.(Q+Q+o+Q)	0.67	0.00	0.00	0.20	0.10
6.(o+Q+Q+o)	0.61	0.00	0.00	0.00	0.00
7.(o+o+Q+Q)	0.62	0.00	0.00	0.19	0.09
Zemin itkisi	0.00	0.00	0.00	0.00	-0.01
X-Deprem+%5	0.22	0.06	0.06	-0.04	-0.02
X-Deprem-%5	0.06	0.06	0.06	0.05	0.02
Y-Deprem+%5	1.00	0.00	0.00	-0.23	0.00
Y-Deprem-%5	1.24	0.00	0.00	-0.36	-0.06
X-Rüzgar+%5	0.02	0.01	0.01	0.00	0.00
X-Rüzgar-%5	0.01	0.01	0.01	0.01	0.00
Y-Rüzgar+%5	0.14	0.00	0.00	-0.04	0.00
Y-Rüzgar-%5	0.17	0.00	0.00	-0.06	-0.01

BETONARME :	X-(G+Q)	X-(G+Q+E)	Y-(G+Q)	Y-(G+Q+E)	X-(G-E)	Y-(G-E)
max. Nd (t) :	8.611	6.290	8.611	4.829	4.720	3.702
minor M (tm):	0.637	0.648	-0.001	-0.004	0.472	-0.004
major M (tm):	-0.194	0.142	1.006	1.050	-0.066	0.792
fcd (kg/cm²):	166.667	166.667	166.667	166.667	166.667	166.667
μ :	0.0025	0.0025	0.0025	0.0025	0.0025	0.0025
As (cm²):	2.188	2.188	2.188	2.188	2.188	2.188

Cqa=0.600

DONATI :2x2ø14+2x1ø14 (govde) + ø8/10(etriye)



SZ23 KOLONU

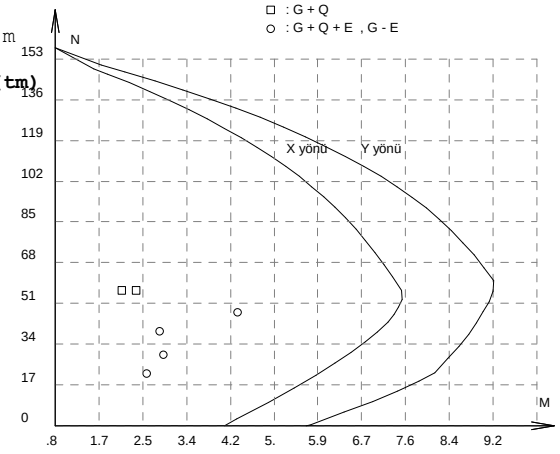
I/J :124/130 Bx/By :25/35 βx:1.000 βy:1.000 Hk :3.0 m
Material:E1 C25 S420

KOMBİNASYON	maxNd (t)	üstMx	altMx	üstMy	altMy (tm)
1.(G+G+G+G)	33.01	0.01	0.01	0.72	0.76
2.(Q+Q+Q+Q)	6.77	0.00	0.00	0.30	0.31
3.(o+Q+o+Q)	3.37	-0.05	-0.02	0.11	0.19
4.(Q+o+Q+o)	3.35	0.05	0.03	0.19	0.11
5.(Q+Q+o+Q)	5.06	0.00	0.00	0.29	0.30
6.(o+Q+Q+o)	4.51	-0.04	-0.02	0.20	0.11
7.(o+o+Q+Q)	3.86	0.04	0.02	0.11	0.20
Zemin itkisi	0.00	0.00	0.00	0.00	0.00
X-Deprem+%5	0.12	1.94	2.09	0.04	0.04
X-Deprem-%5	0.01	1.45	1.57	-0.03	-0.04
Y-Deprem+%5	7.78	-0.13	-0.14	1.98	2.32
Y-Deprem-%5	7.94	0.58	0.61	2.08	2.44
X-Rüzgar+%5	0.01	0.22	0.24	0.00	0.00
X-Rüzgar-%5	0.00	0.17	0.18	0.00	0.00
Y-Rüzgar+%5	1.08	-0.02	-0.02	0.30	0.35
Y-Rüzgar-%5	1.10	0.09	0.09	0.31	0.36

BETONARME :	X-(G+Q)	X-(G+Q+E)	Y-(G+Q)	Y-(G+Q+E)	X-(G-E)	Y-(G-E)
max. Nd (t) :	56.523	39.571	56.523	47.392	29.593	21.772
minor M (tm):	1.315	0.949	0.012	0.623	0.640	-0.609
major M (tm):	1.272	1.994	1.553	3.501	-2.081	-1.756
fcd (kg/cm²):	166.667	166.667	166.667	166.667	166.667	166.667
μ :	0.0025	0.0025	0.0025	0.0025	0.0025	0.0025
As (cm²):	2.188	2.188	2.188	2.188	2.188	2.188

Cqa=0.951

DONATI :2x2ø14+2x1ø14 (govde) + ø8/12/8(etriye)



SZ28 KOLONU

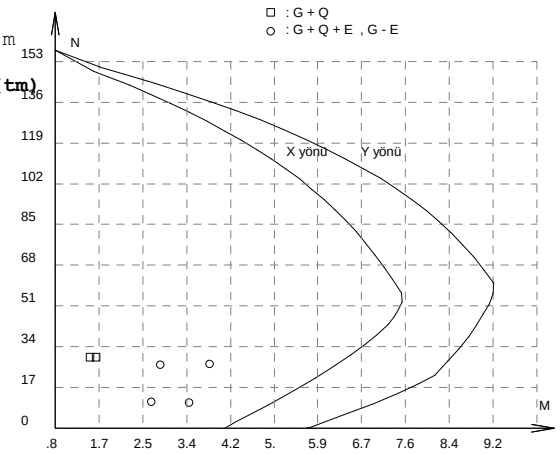
I/J :184/193 Bx/By :25/35 βx:1.000 βy:1.000 Hk :3.0 m
Material:E1 C25 S420

KOMBİNASYON	maxNd (t)	üstMx	altMx	üstMy	altMy (tm)
1.(G+G+G+G)	18.51	0.18	0.08	0.43	0.18
2.(Q+Q+Q+Q)	2.47	0.04	0.02	0.08	0.04
3.(o+Q+o+Q)	1.24	0.01	0.01	0.11	0.05
4.(Q+o+Q+o)	1.19	0.02	0.01	-0.03	-0.01
5.(Q+Q+o+Q)	1.85	0.05	0.02	0.09	0.04
6.(o+Q+Q+o)	1.83	0.03	0.02	0.09	0.04
7.(o+o+Q+Q)	1.20	0.00	0.00	-0.01	0.00
Zemin itkisi	0.00	0.00	0.00	0.00	0.00
X-Deprem+%5	5.60	1.62	1.91	-0.39	-0.56
X-Deprem-%5	6.06	1.20	1.43	0.42	0.53
Y-Deprem+%5	5.92	-0.11	-0.14	1.91	2.72
Y-Deprem-%5	5.24	0.50	0.56	0.71	1.13
X-Rüzgar+%5	0.60	0.19	0.22	-0.05	-0.07
X-Rüzgar-%5	0.65	0.14	0.16	0.05	0.06
Y-Rüzgar+%5	0.83	-0.02	-0.02	0.29	0.41
Y-Rüzgar-%5	0.73	0.08	0.09	0.10	0.16

BETONARME :	X-(G+Q)	X-(G+Q+E)	Y-(G+Q)	Y-(G+Q+E)	X-(G-E)	Y-(G-E)
max. Nd (t) :	29.679	26.459	29.679	26.787	11.062	10.734
minor M (tm):	0.734	-0.338	0.280	-0.049	0.719	0.218
major M (tm):	0.668	2.020	0.776	2.956	-1.835	-2.563
fcd (kg/cm²):	166.667	166.667	166.667	166.667	166.667	166.667
μ :	0.0025	0.0025	0.0025	0.0025	0.0025	0.0025
As (cm²):	2.188	2.188	2.188	2.188	2.188	2.188

Cqa=0.952

DONATI :2x2ø14+2x1ø14 (govde) + ø8/12/8(etriye)



SB28 KOLONU

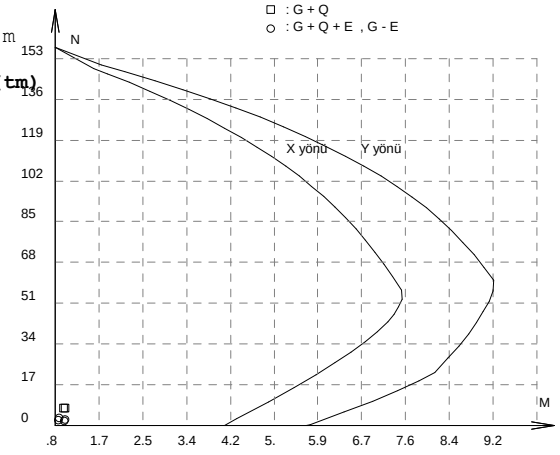
I/J :193/ Bx/By :25/35 βx:1.000 βy:1.000 Hk :3.0 m
Material:E1 C25 S420

KOMBİNASYON	maxNd (t)	üstMx	altMx	üstMy	altMy (tm)
1.(G+G+G+G)	4.88	-0.01	-0.01	-0.03	-0.01
2.(Q+Q+Q+Q)	0.59	0.00	0.00	0.00	0.00
3.(o+Q+o+Q)	0.29	0.00	0.00	0.00	0.00
4.(Q+o+Q+o)	0.30	0.00	0.00	0.00	0.00
5.(Q+Q+o+Q)	0.46	0.00	0.00	0.00	0.00
6.(o+Q+Q+o)	0.36	0.00	0.00	0.00	0.00
7.(o+o+Q+Q)	0.34	0.00	0.00	0.00	0.00
Zemin itkisi	-0.07	0.00	0.00	0.00	0.00
X-Deprem+%5	1.98	0.04	0.05	-0.02	-0.01
X-Deprem-%5	2.14	0.04	0.05	-0.02	-0.01
Y-Deprem+%5	2.59	-0.02	-0.01	0.14	0.17
Y-Deprem-%5	2.37	-0.01	0.00	0.13	0.15
X-Rüzgar+%5	0.21	0.00	0.01	0.00	0.00
X-Rüzgar-%5	0.23	0.00	0.01	0.00	0.00
Y-Rüzgar+%5	0.37	0.00	0.00	0.02	0.02
Y-Rüzgar-%5	0.34	0.00	0.00	0.02	0.02

BETONARME :	X-(G+Q)	X-(G+Q+E)	Y-(G+Q)	Y-(G+Q+E)	X-(G-E)	Y-(G-E)
max. Nd (t) :	7.395	3.251	7.395	2.637	2.254	1.795
minor M (tm):	-0.051	-0.001	-0.017	0.004	-0.007	0.005
major M (tm):	-0.166	0.073	-0.189	-0.182	-0.056	-0.179
fcd (kg/cm²):	166.667	166.667	166.667	166.667	166.667	166.667
μ :	0.0025	0.0025	0.0025	0.0025	0.0025	0.0025
As (cm²):	2.188	2.188	2.188	2.188	2.188	2.188

Cqa=0.600

DONATI :2x2ø14+2x1ø14 (govde) + ø8/10(etriye)



SZ29 KOLONU

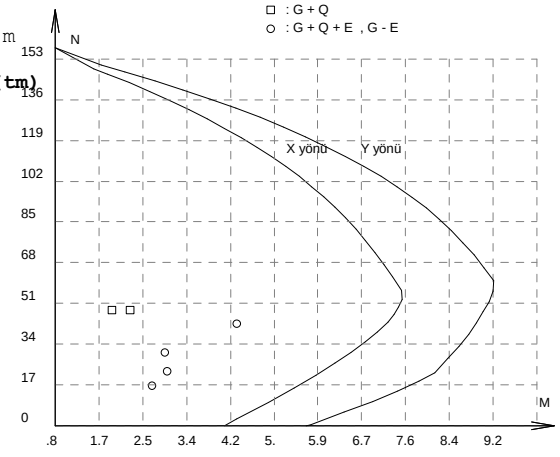
I/J :169/171 Bx/By :25/35 βx:1.000 βy:1.000 Hk :3.0 m
Material:E1 C25 S420

KOMBİNASYON	maxNd (t)	üstMx	altMx	üstMy	altMy (tm)
1.(G+G+G+G)	28.48	0.08	0.04	0.68	0.71
2.(Q+Q+Q+Q)	5.44	0.02	0.01	0.27	0.28
3.(o+Q+o+Q)	2.75	0.00	0.00	0.20	0.09
4.(Q+o+Q+o)	2.64	0.02	0.01	0.07	0.18
5.(Q+Q+o+Q)	3.61	-0.02	-0.01	0.27	0.28
6.(o+Q+Q+o)	4.01	0.02	0.01	0.19	0.09
7.(o+o+Q+Q)	3.14	0.04	0.02	0.09	0.18
Zemin itkisi	0.00	0.00	0.00	0.00	0.00
X-Deprem+%5	-2.96	1.99	2.10	-0.32	-0.37
X-Deprem-%5	-0.95	1.49	1.58	0.30	0.34
Y-Deprem+%5	8.83	-0.13	-0.14	2.12	2.49
Y-Deprem-%5	5.86	0.59	0.62	1.21	1.46
X-Rüzgar+%5	-0.32	0.23	0.24	-0.04	-0.04
X-Rüzgar-%5	-0.10	0.17	0.18	0.04	0.04
Y-Rüzgar+%5	1.24	-0.02	-0.02	0.32	0.37
Y-Rüzgar-%5	0.83	0.09	0.10	0.18	0.21

BETONARME :	X-(G+Q)	X-(G+Q+E)	Y-(G+Q)	Y-(G+Q+E)	X-(G-E)	Y-(G-E)
max. Nd (t) :	48.164	30.699	48.164	42.493	22.671	16.805
minor M (tm):	1.097	0.447	0.052	-0.106	0.264	0.184
major M (tm):	1.084	2.107	1.439	3.482	2.144	-1.860
fcd (kg/cm²):	166.667	166.667	166.667	166.667	166.667	166.667
μ :	0.0025	0.0025	0.0025	0.0025	0.0025	0.0025
As (cm²):	2.188	2.188	2.188	2.188	2.188	2.188

Cqa=0.952

DONATI :2x2ø14+2x1ø14 (govde) + ø8/12/8(etriye)

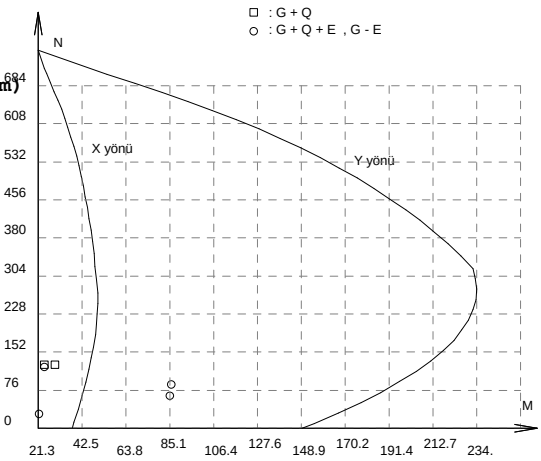


SB35 KOLONU

I/J :102/ Bx/By :25/165 βx:1.000 βy:1.000 Hk :3.0 m

Material:E1 C25 S420

KOMBİNASYON	maxNd (t)	üstMx	altMx	üstMy	altMy (tm)
1.(G+G+G+G)	71.71	-0.26	-0.13	0.00	0.00
2.(Q+Q+Q+Q)	18.51	-0.09	-0.04	0.00	0.00
3.(o+Q+o+Q)	8.76	-0.15	-0.07	-0.59	-0.16
4.(Q+o+Q+o)	8.52	0.05	0.03	0.59	0.16
5.(Q+Q+o+Q)	11.05	-0.08	-0.04	0.55	0.15
6.(o+Q+Q+o)	12.29	-0.16	-0.08	0.05	0.01
7.(o+o+Q+Q)	11.20	0.05	0.03	-0.61	-0.16
Zemin itkisi	-0.01	-0.01	-0.01	-0.12	-0.31
X-Deprem+%5	35.10	-0.68	-0.16	4.73	1.23
X-Deprem-%5	35.10	-0.68	-0.16	-4.73	-1.23
Y-Deprem+%5	0.00	0.00	0.00	-63.83	-8.82
Y-Deprem-%5	0.00	0.00	0.00	-49.97	-5.21
X-Rüzgar+%5	3.77	-0.08	-0.02	0.56	0.15
X-Rüzgar-%5	3.77	-0.08	-0.02	-0.56	-0.15
Y-Rüzgar+%5	0.00	0.00	0.00	-9.60	-1.39
Y-Rüzgar-%5	0.00	0.00	0.00	-7.46	-0.83



BETONARME :	X-(G+Q)	X-(G+Q+E)	Y-(G+Q)	Y-(G+Q+E)	X-(G-E)	Y-(G-E)
max. Nd (t) :	126.124	122.891	126.124	87.791	29.435	64.536
minor M (tm):	-0.023	4.791	-0.287	-0.207	4.734	-0.234
major M (tm):	-2.838	2.765	8.135	-64.431	0.443	63.830
fcd (kg/cm²):	166.667	166.667	166.667	166.667	166.667	166.667
μ :	0.0025	0.0025	0.0025	0.0025	0.0025	0.0025
As (cm²):	10.313	10.313	10.313	10.313	10.313	10.313

Cqa=0.869

DONATI :2x4ø20+2x7ø14 (govde) + ø8/12/9(etriye)

βx,βy : Kolon Moment büyütme katsayısı A4 : A4 Düzensizliği (Ba=Bax+0.3*Bay,Ba=0.3*Bax+Bay)
Cx,Cy : Güçlü kolon Moment büyütme katsayısı
Ck : Kiriş üstüne oturan kolonların Dinamik Etki çarpanı

PB13 PANELI

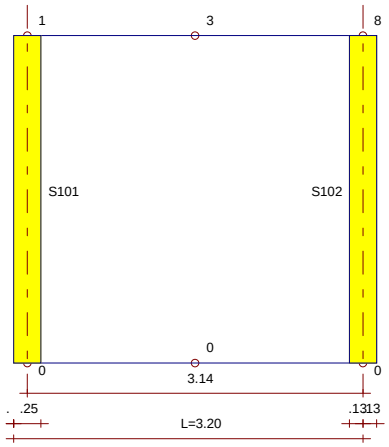
I/K:1/0 Io/Jo:3/0 J/L:8/ Bx/By :282.6/25. Hk :3.0 m Cqa=1.000

KOMBİNASYON	maxNd	üstMx	altMx	üstMy	altMy	Tx	Ty
1.(G+G+G+G)	30.38	0.16	0.04	0.00	0.00	0.07	0.00
2.(Q+Q+Q+Q)	4.37	-0.69	0.12	0.00	0.00	-0.19	0.00
3.(o+Q+o+Q)	2.43	-0.34	0.03	0.00	0.00	-0.10	0.00
4.(Q+o+Q+o)	1.88	-0.35	0.09	0.00	0.00	-0.09	0.00
5.(Q+Q+o+Q)	3.27	-0.37	0.10	0.00	0.00	-0.09	0.00
6.(o+Q+Q+o)	2.76	-0.52	0.05	0.00	0.00	-0.16	0.00
7.(o+o+Q+Q)	2.60	-0.48	0.09	0.00	0.00	-0.13	0.00
Zemin itkisi	0.19	-0.29	-0.73	0.00	-0.01	-0.34	0.00
X-Deprem+%5	-5.74	11.73	27.67	0.00	0.01	13.13	0.00
X-Deprem-%5	-4.22	12.52	29.36	0.00	-0.01	13.96	0.00
Y-Deprem+%5	-10.15	-4.36	1.75	0.00	0.38	-0.87	0.13
Y-Deprem-%5	-12.39	-5.43	-0.61	0.00	0.40	-2.02	0.13
X-Rüzgar+%5	-0.62	1.25	2.96	0.00	0.00	1.40	0.00
X-Rüzgar-%5	-0.45	1.33	3.13	0.00	0.00	1.49	0.00
Y-Rüzgar+%5	-1.43	-0.63	0.24	0.00	0.05	-0.13	0.02
Y-Rüzgar-%5	-1.75	-0.78	-0.09	0.00	0.06	-0.29	0.02

Material:E1 C25 S420 (t,m)

BETONARME :	X-(G+Q)	X-(G+Q+E)	Y-(G+Q)	Y-(G+Q+E)	Y-(Zemin)
max. Nd (t) :	49.824	39.153	49.824	47.328	49.824
max. M (tm):	-1.331	29.523	1.246	1.183	0.924
fcd (kg/cm²):	166.667	166.667	166.667	166.667	166.667
μ :	0.0010	0.0010	0.0013	0.0013	0.001
As (cm²):	7.065	7.065	8.831	8.831	3.125

DONATI :2x13ø12 (düşey) + ø8/15 (yatay)



PB14 PANELI

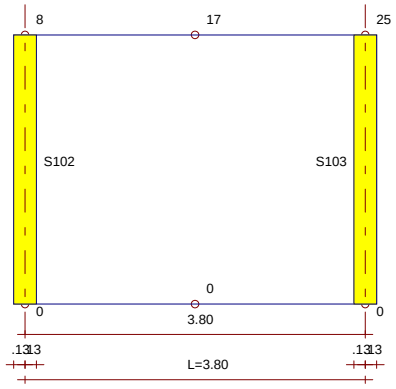
I/K:8/0 Io/Jo:17/0 J/L:25/ Bx/By :355./25. Hk :3.0 m Cqa=1.000

KOMBİNASYON	maxNd	üstMx	altMx	üstMy	altMy	Tx	Ty
1.(G+G+G+G)	37.15	-2.32	0.79	0.00	0.00	-0.51	0.00
2.(Q+Q+Q+Q)	6.36	-0.67	0.23	0.00	0.00	-0.15	0.00
3.(o+Q+o+Q)	3.36	-0.40	0.08	0.00	0.00	-0.10	0.00
4.(Q+o+Q+o)	2.93	-0.28	0.14	0.00	0.00	-0.05	0.00
5.(Q+Q+o+Q)	4.53	-0.33	0.16	0.00	0.00	-0.06	0.00
6.(o+Q+Q+o)	4.13	-0.44	0.08	0.00	0.00	-0.12	0.00
7.(o+o+Q+Q)	3.92	-0.58	0.21	0.00	0.00	-0.13	0.00
Zemin itkisi	-0.01	-0.53	-0.99	0.00	-0.01	-0.51	0.00
X-Deprem+%5	0.72	20.67	37.78	0.00	0.01	19.48	0.00
X-Deprem-%5	2.39	22.46	39.94	0.00	-0.01	20.80	0.00
Y-Deprem+%5	-6.80	0.45	1.49	0.00	0.48	0.65	0.16
Y-Deprem-%5	-9.27	-2.08	-1.53	0.00	0.49	-1.20	0.16
X-Rüzgar+%5	0.08	2.21	4.04	0.00	0.00	2.08	0.00
X-Rüzgar-%5	0.26	2.40	4.26	0.00	0.00	2.22	0.00
Y-Rüzgar+%5	-0.95	0.06	0.20	0.00	0.07	0.09	0.02
Y-Rüzgar-%5	-1.30	-0.30	-0.22	0.00	0.07	-0.17	0.02

Material:E1 C25 S420 (t,m)

BETONARME :	X-(G+Q)	X-(G+Q+E)	Y-(G+Q)	Y-(G+Q+E)	Y-(Zemin)
max. Nd (t) :	62.174	45.897	62.174	52.775	62.174
max. M (tm):	-5.173	40.964	1.554	1.319	0.924
fcd (kg/cm²):	166.667	166.667	166.667	166.667	166.667
μ :	0.0010	0.0010	0.0013	0.0013	0.001
As (cm²):	8.875	8.875	11.094	11.094	3.125

DONATI :2x16ø12 (düşey) + ø8/15 (yatay)



PB15 PANELI

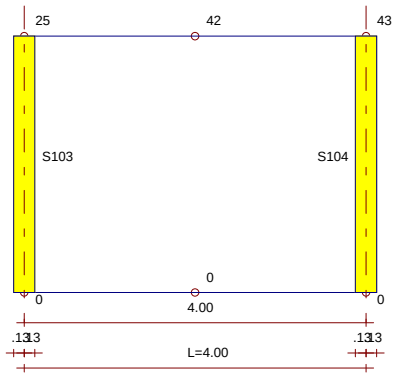
I/K:25/0 Io/Jo:42/0 J/L:43/ Bx/By :375./25. Hk :3.0 m Cqa=1.000

KOMBİNASYON	maxNd	üstMx	altMx	üstMy	altMy	Tx	Ty
1.(G+G+G+G)	40.65	-0.82	0.38	0.00	0.00	-0.15	0.00
2.(Q+Q+Q+Q)	7.19	-0.20	0.10	0.00	0.00	-0.03	0.00
3.(o+Q+o+Q)	3.99	-0.11	0.00	0.00	0.00	-0.04	0.00
4.(Q+o+Q+o)	3.14	-0.09	0.09	0.00	0.00	0.00	0.00
5.(Q+Q+o+Q)	5.01	-0.28	0.16	0.00	0.00	-0.04	0.00
6.(o+Q+Q+o)	4.51	-0.01	-0.05	0.00	0.00	-0.02	0.00
7.(o+o+Q+Q)	4.72	-0.11	0.07	0.00	0.00	-0.01	0.00
Zemin itkisi	0.00	-0.57	-1.07	0.00	-0.02	-0.55	-0.01
X-Deprem+%5	0.22	22.02	40.83	0.00	0.00	20.95	0.00
X-Deprem-%5	0.88	23.99	43.12	0.00	0.00	22.37	0.00
Y-Deprem+%5	-7.43	1.08	1.42	0.00	0.51	0.83	0.17
Y-Deprem-%5	-8.40	-1.73	-1.78	0.00	0.51	-1.17	0.17
X-Rüzgar+%5	0.02	2.35	4.36	0.00	0.00	2.24	0.00
X-Rüzgar-%5	0.09	2.56	4.60	0.00	0.00	2.39	0.00
Y-Rüzgar+%5	-1.04	0.15	0.19	0.00	0.07	0.11	0.02
Y-Rüzgar-%5	-1.18	-0.24	-0.26	0.00	0.07	-0.17	0.02

Material:E1 C25 S420 (t,m)

BETONARME :	X-(G+Q)	X-(G+Q+E)	Y-(G+Q)	Y-(G+Q+E)	Y-(Zemin)
max. Nd (t) :	68.417	48.719	68.417	56.239	68.417
max. M (tm):	-2.524	43.671	1.710	1.406	0.924
fcd (kg/cm²):	166.667	166.667	166.667	166.667	166.667
μ :	0.0010	0.0010	0.0013	0.0013	0.001
As (cm²):	9.375	9.375	11.719	11.719	3.125

DONATI :2x17ø12 (düşey) + ø8/15 (yatay)



PB32 PANELI

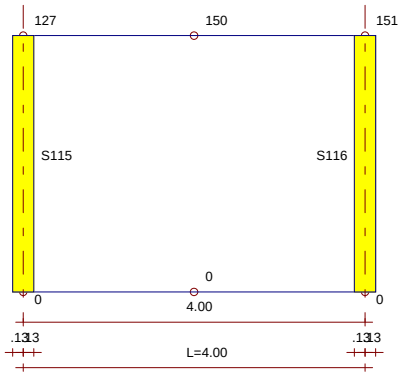
I/K:127/0 Io/Jo:150/0 J/L:151/ Bx/By :25./375. Hk :3.0 m Cqa=1.000

KOMBİNASYON	maxNd	üstMx	altMx	üstMy	altMy	Tx	Ty
1.(G+G+G+G)	37.09	0.00	0.00	-1.37	0.45	0.00	-0.30
2.(Q+Q+Q+Q)	6.01	0.00	0.00	-0.38	0.13	0.00	-0.08
3.(o+Q+o+Q)	3.05	0.00	0.00	-0.14	0.16	0.00	0.00
4.(Q+o+Q+o)	2.89	0.00	0.00	-0.23	-0.03	0.00	-0.09
5.(Q+Q+o+Q)	4.18	0.00	0.00	-0.14	-0.06	0.00	-0.07
6.(o+Q+Q+o)	4.00	0.00	0.00	-0.25	0.03	0.00	-0.07
7.(o+o+Q+Q)	3.71	0.00	0.00	-0.35	0.28	0.00	-0.03
Zemin itkisi	-0.01	0.00	-0.01	-1.02	-1.92	0.00	-0.98
X-Deprem+%5	9.46	0.00	0.34	-1.68	-1.78	0.11	-1.15
X-Deprem-%5	10.33	0.00	0.34	1.28	1.91	0.11	1.07
Y-Deprem+%5	1.71	0.00	0.00	36.08	65.73	0.00	33.94
Y-Deprem-%5	0.42	0.00	0.00	31.85	60.54	0.00	30.80
X-Rüzgar+%5	1.03	0.00	0.04	-0.18	-0.19	0.01	-0.12
X-Rüzgar-%5	1.12	0.00	0.04	0.14	0.20	0.01	0.11
Y-Rüzgar+%5	0.24	0.00	0.00	5.17	9.41	0.00	4.86
Y-Rüzgar-%5	0.06	0.00	0.00	4.57	8.68	0.00	4.42

Material:E1 C25 S420 (t,m)

BETONARME :	X-(G+Q)	X-(G+Q+E)	Y-(G+Q)	Y-(G+Q+E)	X-(Zemin)
max. Nd (t) :	61.548	53.436	61.548	44.811	61.548
max. M (tm):	1.539	1.336	-4.146	66.462	-1.108
fcd (kg/cm²):	166.667	166.667	166.667	166.667	166.667
μ :	0.0013	0.0013	0.0010	0.0010	0.001
As (cm²):	11.719	11.719	9.375	9.375	3.125

DONATI :2x17ø12 (düşey) + ø8/15 (yatay)



PB42 PANELI

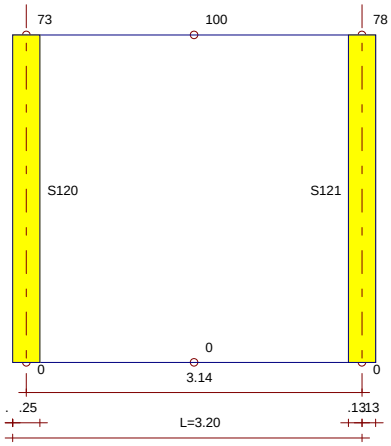
I/K:73/0 Io/Jo:100/0 J/L:78/ Bx/By :282.6/25. Hk :3.0 m Cqa=1.000

KOMBİNASYON	maxNd	üstMx	altMx	üstMy	altMy	Tx	Ty
1.(G+G+G+G)	30.38	0.16	0.04	0.00	0.00	0.07	0.00
2.(Q+Q+Q+Q)	4.37	-0.69	0.12	0.00	0.00	-0.19	0.00
3.(o+Q+o+Q)	2.03	-0.23	0.00	0.00	0.00	-0.08	0.00
4.(Q+o+Q+o)	2.29	-0.45	0.12	0.00	0.00	-0.11	0.00
5.(Q+Q+o+Q)	3.28	-0.39	0.11	0.00	0.00	-0.09	0.00
6.(o+Q+Q+o)	2.74	-0.53	0.05	0.00	0.00	-0.16	0.00
7.(o+o+Q+Q)	2.61	-0.45	0.08	0.00	0.00	-0.13	0.00
Zemin itkisi	-0.06	-0.55	-0.70	0.00	-0.01	-0.42	0.00
X-Deprem+%5	-4.22	12.52	29.36	0.00	0.01	13.96	0.00
X-Deprem-%5	-5.74	11.73	27.67	0.00	-0.01	13.13	0.00
Y-Deprem+%5	10.15	4.36	-1.75	0.00	0.38	0.87	0.13
Y-Deprem-%5	12.39	5.43	0.61	0.00	0.40	2.02	0.13
X-Rüzgar+%5	-0.45	1.33	3.13	0.00	0.00	1.49	0.00
X-Rüzgar-%5	-0.62	1.25	2.96	0.00	0.00	1.40	0.00
Y-Rüzgar+%5	1.43	0.63	-0.24	0.00	0.05	0.13	0.02
Y-Rüzgar-%5	1.75	0.78	0.09	0.00	0.06	0.29	0.02

Material:E1 C25 S420 (t,m)

BETONARME :	X-(G+Q)	X-(G+Q+E)	Y-(G+Q)	Y-(G+Q+E)	Y-(Zemin)
max. Nd (t) :	49.516	38.960	49.516	47.135	49.516
max. M (tm):	-1.764	29.523	1.238	1.178	-1.108
fcd (kg/cm²):	166.667	166.667	166.667	166.667	166.667
μ :	0.0010	0.0010	0.0013	0.0013	0.001
As (cm²):	7.065	7.065	8.831	8.831	3.125

DONATI :2x13ø12 (düşey) + ø8/15 (yatay)



PB43 PANELI

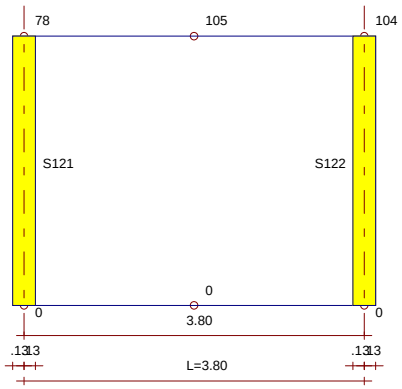
I/K:78/0 Io/Jo:105/0 J/L:104/ Bx/By :355./25. Hk :3.0 m Cqa=1.000

KOMBİNASYON	maxNd	üstMx	altMx	üstMy	altMy	Tx	Ty
1.(G+G+G+G)	37.15	-2.32	0.79	0.00	0.00	-0.51	0.00
2.(Q+Q+Q+Q)	6.36	-0.67	0.23	0.00	0.00	-0.15	0.00
3.(o+Q+o+Q)	2.77	-0.42	0.07	0.00	0.00	-0.11	0.00
4.(Q+o+Q+o)	3.53	-0.25	0.15	0.00	0.00	-0.03	0.00
5.(Q+Q+o+Q)	4.57	-0.32	0.18	0.00	0.00	-0.05	0.00
6.(o+Q+Q+o)	4.11	-0.43	0.08	0.00	0.00	-0.12	0.00
7.(o+o+Q+Q)	3.90	-0.59	0.19	0.00	0.00	-0.13	0.00
Zemin itkisi	-0.01	-0.58	-0.99	0.00	-0.01	-0.52	0.00
X-Deprem+%5	2.39	22.46	39.94	0.00	0.01	20.80	0.00
X-Deprem-%5	0.72	20.67	37.78	0.00	-0.01	19.48	0.00
Y-Deprem+%5	6.80	-0.45	-1.49	0.00	0.48	-0.65	0.16
Y-Deprem-%5	9.27	2.08	1.53	0.00	0.49	1.20	0.16
X-Rüzgar+%5	0.26	2.40	4.26	0.00	0.00	2.22	0.00
X-Rüzgar-%5	0.08	2.21	4.04	0.00	0.00	2.08	0.00
Y-Rüzgar+%5	0.95	-0.06	-0.20	0.00	0.07	-0.09	0.02
Y-Rüzgar-%5	1.30	0.30	0.22	0.00	0.07	0.17	0.02

Material:E1 C25 S420 (t,m)

BETONARME :	X-(G+Q)	X-(G+Q+E)	Y-(G+Q)	Y-(G+Q+E)	Y-(Zemin)
max. Nd (t) :	62.179	45.900	62.179	52.778	62.179
max. M (tm):	-5.252	40.964	1.554	1.319	-1.108
fcd (kg/cm²):	166.667	166.667	166.667	166.667	166.667
μ :	0.0010	0.0010	0.0013	0.0013	0.001
As (cm²):	8.875	8.875	11.094	11.094	3.125

DONATI :2x16ø12 (düşey) + ø8/15 (yatay)



PB57 PANELI

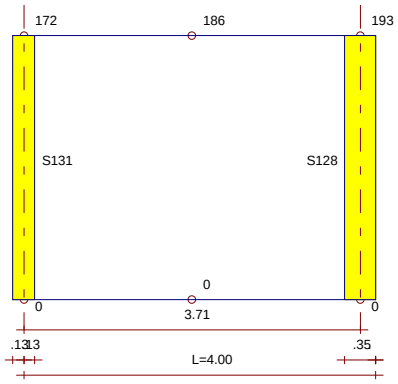
I/K:172/0 Io/Jo:186/0 J/L:193/ Bx/By :25./352.6 Hk :3.0 m Cqa=1.000

KOMBİNASYON	maxNd	üstMx	altMx	üstMy	altMy	Tx	Ty
1.(G+G+G+G)	31.64	0.00	0.00	0.34	-0.11	0.00	0.08
2.(Q+Q+Q+Q)	4.46	0.00	0.00	0.77	-0.24	0.00	0.18
3.(o+Q+o+Q)	2.17	0.00	0.00	0.53	-0.06	0.00	0.16
4.(Q+o+Q+o)	2.23	0.00	0.00	0.23	-0.18	0.00	0.02
5.(Q+Q+o+Q)	3.36	0.00	0.00	0.35	-0.21	0.00	0.05
6.(o+Q+Q+o)	2.58	0.00	0.00	0.40	-0.17	0.00	0.08
7.(o+o+Q+Q)	2.87	0.00	0.00	0.78	-0.09	0.00	0.23
Zemin itkisi	-0.17	0.00	-0.01	-0.75	-1.90	0.00	-0.88
X-Deprem+%5	10.56	0.00	0.33	-3.17	-1.23	0.11	-1.46
X-Deprem-%5	9.94	0.00	0.31	-2.51	3.00	0.10	0.16
Y-Deprem+%5	4.82	0.00	-0.01	23.19	66.30	0.00	29.83
Y-Deprem-%5	5.75	0.00	0.01	22.34	60.32	0.00	27.55
X-Rüzgar+%5	1.14	0.00	0.03	-0.33	-0.13	0.01	-0.15
X-Rüzgar-%5	1.07	0.00	0.03	-0.27	0.32	0.01	0.02
Y-Rüzgar+%5	0.68	0.00	0.00	3.33	9.49	0.00	4.27
Y-Rüzgar-%5	0.82	0.00	0.00	3.21	8.64	0.00	3.95

Material:E1 C25 S420 (t,m)

BETONARME :	X-(G+Q)	X-(G+Q+E)	Y-(G+Q)	Y-(G+Q+E)	X-(Zemin)
max. Nd (t) :	51.436	46.667	51.436	40.925	51.436
max. M (tm):	1.286	1.167	-3.575	66.188	-1.108
fcd (kg/cm²):	166.667	166.667	166.667	166.667	166.667
μ :	0.0013	0.0013	0.0010	0.0010	0.001
As (cm²):	11.019	11.019	8.815	8.815	3.125

DONATI :2x16ø12 (düşey) + ø8/15 (yatay)



PB58 PANELI

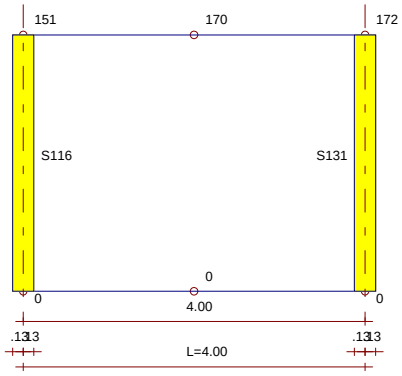
I/K:151/0 Io/Jo:170/0 J/L:172/ Bx/By :25./375. Hk :3.0 m Cqa=1.000

KOMBİNASYON	maxNd	üstMx	altMx	üstMy	altMy	Tx	Ty
1.(G+G+G+G)	37.09	0.00	0.00	1.37	-0.46	0.00	0.30
2.(Q+Q+Q+Q)	6.01	0.00	0.00	0.38	-0.13	0.00	0.08
3.(o+Q+o+Q)	3.25	0.00	0.00	0.26	0.02	0.00	0.09
4.(Q+o+Q+o)	2.70	0.00	0.00	0.11	-0.15	0.00	-0.01
5.(Q+Q+o+Q)	4.03	0.00	0.00	0.04	-0.12	0.00	-0.03
6.(o+Q+Q+o)	3.81	0.00	0.00	0.40	-0.18	0.00	0.07
7.(o+o+Q+Q)	4.04	0.00	0.00	0.31	0.05	0.00	0.12
Zemin itkisi	0.01	0.00	-0.01	-1.00	-1.92	0.00	-0.97
X-Deprem+%5	10.33	0.00	0.34	-1.28	-1.92	0.11	-1.07
X-Deprem-%5	9.46	0.00	0.34	1.68	1.78	0.11	1.15
Y-Deprem+%5	-1.71	0.00	0.00	36.08	65.73	0.00	33.94
Y-Deprem-%5	-0.42	0.00	0.00	31.85	60.54	0.00	30.80
X-Rüzgar+%5	1.12	0.00	0.04	-0.14	-0.20	0.01	-0.11
X-Rüzgar-%5	1.03	0.00	0.04	0.18	0.19	0.01	0.12
Y-Rüzgar+%5	-0.24	0.00	0.00	5.17	9.41	0.00	4.86
Y-Rüzgar-%5	-0.06	0.00	0.00	4.57	8.68	0.00	4.42

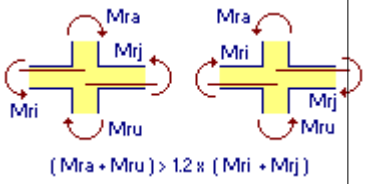
Material:E1 C25 S420 (t,m)

BETONARME :	X-(G+Q)	X-(G+Q+E)	Y-(G+Q)	Y-(G+Q+E)	X-(Zemin)
max. Nd (t) :	61.552	53.438	61.552	44.813	61.552
max. M (tm):	1.539	1.336	-4.010	65.326	-1.108
fcd (kg/cm²):	166.667	166.667	166.667	166.667	166.667
μ :	0.0013	0.0013	0.0010	0.0010	0.001
As (cm²):	11.719	11.719	9.375	9.375	3.125

DONATI :2x17ø12 (düşey) + ø8/15 (yatay)



GÜÇLÜ KOLONLARIN, KAT KESME GÜVENLİĞİ (t)



Kat	Vsx	Vkx	αx	Vsy	Vky	αy
1	151.46	151.46	1.00	154.26	154.26	1.00
2	117.13	128.95	0.91	131.79	137.83	0.96
3	81.86	114.97	0.71	114.66	122.98	0.93
4	90.03	90.03	1.00	97.28	97.28	1.00
5	54.82	54.82	1.00	60.54	60.54	1.00
6	3.75	3.75	1.00	4.92	4.92	1.00

Vs/Vk> .70 KOŞULU SAĞLANMAKTADIR. GÜÇLÜ KOLONLAR, (1/α) ile ÇARPILMAMIŞTIR.

GÜÇLÜ KOLON KONTROLU (tm)

Yön	Kolon	Mrc	Kiriş	Mrb	AÇIKLAMA
+X	S501(3.74)	3.74	K513(6.35)	7.62	Yapı üst kat koşulu
-X	S501(3.74)	3.74	K513(7.08)	8.5	Yapı üst kat koşulu
+Y	S501(5.57)	5.57	K516(4.29)	5.14	Yapı üst kat koşulu
-Y	S501(5.57)	5.57	K516(8.35)	10.02	Yapı üst kat koşulu
+X	S501(3.74)+S401(4.32)	8.06	K413(6.35)	7.62	Nd < 0,10.Ac.fck koşulu
-X	S501(3.74)+S401(4.32)	8.06	K413(7.08)	8.5	Nd < 0,10.Ac.fck koşulu
+Y	S501(5.57)+S401(6.4)	11.97	K416(4.29)	5.14	Nd < 0,10.Ac.fck koşulu
-Y	S501(5.57)+S401(6.4)	11.97	K416(8.35)	10.02	Nd < 0,10.Ac.fck koşulu
+X	S401(4.32)+S301(4.89)	9.21	K313(6.35)	7.62	Nd < 0,10.Ac.fck koşulu
-X	S401(4.32)+S301(4.89)	9.21	K313(7.08)	8.5	Nd < 0,10.Ac.fck koşulu
+Y	S401(6.4)+S301(7.13)	13.53	K316(6.35)	7.62	Nd < 0,10.Ac.fck koşulu
-Y	S401(6.4)+S301(7.13)	13.53	K316(8.35)	10.02	Nd < 0,10.Ac.fck koşulu
+X	S301(4.89)+SZ01(5.38)	10.26	KZ13(6.35)	7.62	✓
-X	S301(4.89)+SZ01(5.38)	10.26	KZ13(7.08)	8.5	✓
+Y	S301(7.13)+SZ01(7.49)	14.62	KZ16(6.35)	7.62	✓
-Y	S301(7.13)+SZ01(7.49)	14.62	KZ16(8.35)	10.02	✓
+X	SZ01(5.38)+SB01(3.88)	9.25	KB13(6.35)	7.62	Panel başlığı
-X	SZ01(5.38)+SB01(3.88)	9.25	KB13(7.08)	8.5	Panel başlığı
+Y	SZ01(7.49)+SB01(5.82)	13.31	KB16(6.35)	7.62	Panel başlığı
-Y	SZ01(7.49)+SB01(5.82)	13.31	KB16(8.35)	10.02	Panel başlığı
+X	S502(3.95)	3.95	K513(8.35)+K514(4.29)	15.17	Yapı üst kat koşulu
-X	S502(3.95)	3.95	K513(6.35)+K514(8.35)	17.65	Yapı üst kat koşulu
+Y	S502(5.99)	5.99	K509(4.29)	5.14	Yapı üst kat koşulu
-Y	S502(5.99)	5.99	K509(8.35)	10.02	Yapı üst kat koşulu
+X	S502(3.95)+S402(4.6)	8.55	K413(8.35)+K414(4.29)	15.17	Nd < 0,10.Ac.fck koşulu
-X	S502(3.95)+S402(4.6)	8.55	K413(6.35)+K414(8.35)	17.65	Nd < 0,10.Ac.fck koşulu
+Y	S502(5.99)+S402(7.13)	13.11	K409(4.29)	5.14	Nd < 0,10.Ac.fck koşulu
-Y	S502(5.99)+S402(7.13)	13.11	K409(8.35)	10.02	Nd < 0,10.Ac.fck koşulu
+X	S402(4.6)+S302(5.17)	9.76	K313(8.35)+K314(4.29)	15.17	YETERSIZ!!
-X	S402(4.6)+S302(5.17)	9.76	K313(6.35)+K314(8.35)	17.65	YETERSIZ!!
+Y	S402(7.13)+S302(7.69)	14.82	K309(6.35)	7.62	✓
-Y	S402(7.13)+S302(7.69)	14.82	K309(9.06)	10.88	✓
+X	S302(5.17)+SZ02(6.04)	11.21	KZ13(8.35)+KZ14(4.29)	15.17	YETERSIZ!!
-X	S302(5.17)+SZ02(6.04)	11.21	KZ13(6.35)+KZ14(8.35)	17.65	YETERSIZ!!
+Y	S302(7.69)+SZ02(8.11)	15.8	KZ09(6.35)	7.62	✓
-Y	S302(7.69)+SZ02(8.11)	15.8	KZ09(9.06)	10.88	✓
+X	SZ02(6.04)+SB02(3.73)	9.77	KB13(8.35)+KB14(4.29)	15.17	Panel başlığı
-X	SZ02(6.04)+SB02(3.73)	9.77	KB13(6.35)+KB14(8.35)	17.65	Panel başlığı
+Y	SZ02(8.11)+SB02(5.69)	13.8	KB09(4.29)	5.14	Panel başlığı
-Y	SZ02(8.11)+SB02(5.69)	13.8	KB09(8.35)	10.02	Panel başlığı
+X	S503(4.08)	4.08	K514(8.35)+K515(4.29)	15.17	Yapı üst kat koşulu
-X	S503(4.08)	4.08	K514(4.29)+K515(8.35)	15.17	Yapı üst kat koşulu
+Y	S503(6.13)	6.13	K511(4.29)	5.14	Yapı üst kat koşulu
-Y	S503(6.13)	6.13	K511(8.35)	10.02	Yapı üst kat koşulu
+X	S503(4.08)+S403(4.88)	8.96	K414(8.35)+K415(4.29)	15.17	Nd < 0,10.Ac.fck koşulu
-X	S503(4.08)+S403(4.88)	8.96	K414(4.29)+K415(8.35)	15.17	Nd < 0,10.Ac.fck koşulu
+Y	S503(6.13)+S403(7.3)	13.43	K411(4.29)	5.14	✓
-Y	S503(6.13)+S403(7.3)	13.43	K411(8.35)	10.02	✓
+X	S403(4.88)+S303(5.6)	10.47	K314(8.35)+K315(4.29)	15.17	YETERSIZ!!
-X	S403(4.88)+S303(5.6)	10.47	K314(4.29)+K315(8.35)	15.17	YETERSIZ!!
+Y	S403(7.3)+S303(7.81)	15.12	K311(6.35)	7.62	✓
-Y	S403(7.3)+S303(7.81)	15.12	K311(8.35)	10.02	✓
+X	S303(5.6)+SZ03(6.18)	11.77	KZ14(8.35)+KZ15(4.29)	15.17	YETERSIZ!!
-X	S303(5.6)+SZ03(6.18)	11.77	KZ14(4.29)+KZ15(8.35)	15.17	YETERSIZ!!
+Y	S303(7.81)+SZ03(8.21)	16.03	KZ11(6.35)	7.62	✓
-Y	S303(7.81)+SZ03(8.21)	16.03	KZ11(8.35)	10.02	✓

GÜÇLÜ KOLON KONTROLU (tm)

Yön	Kolon	Mrc	Kiriş	Mrb	AÇIKLAMA
+X	S310(10.44)+SZ10(10.95)	21.39	KZ04(8.35)+KZ05(4.29)	15.18	✓
-X	S310(10.44)+SZ10(10.95)	21.39	KZ04(6.35)+KZ05(8.35)	17.65	✓
+Y	S310(10.48)+SZ10(11.04)	21.52	KZ10(10.3)+KZ39(6.35)	19.98	✓
-Y	S310(10.48)+SZ10(11.04)	21.52	KZ10(6.35)+KZ39(10.3)	19.98	✓
+X	SZ10(10.95)+SB10(11.54)	22.49	KB04(8.35)+KB05(4.29)	15.18	Bodrum kat
-X	SZ10(10.95)+SB10(11.54)	22.49	KB04(6.35)+KB05(8.35)	17.65	Bodrum kat
+Y	SZ10(11.04)+SB10(11.44)	22.48	KB10(8.35)+KB39(4.29)	15.17	Bodrum kat
-Y	SZ10(11.04)+SB10(11.44)	22.48	KB10(4.29)+KB39(8.35)	15.17	Bodrum kat
+X	S511(8.43)	8.43	K505(8.35)+K508(4.29)	15.18	Yapı üst kat koşulu
-X	S511(8.43)	8.43	K505(4.29)+K508(8.35)	15.18	Yapı üst kat koşulu
+Y	S511(8.5)	8.5	K512(8.35)+K541(4.29)	15.17	Yapı üst kat koşulu
-Y	S511(8.5)	8.5	K512(4.29)+K541(8.35)	15.17	Yapı üst kat koşulu
+X	S511(8.43)+S411(9.57)	18	K405(8.35)+K408(6.35)	17.65	Nd < 0,10.Ac.fck koşulu
-X	S511(8.43)+S411(9.57)	18	K405(6.35)+K408(8.35)	17.65	Nd < 0,10.Ac.fck koşulu
+Y	S511(8.5)+S411(9.68)	18.17	K412(8.35)+K441(4.29)	15.17	Nd < 0,10.Ac.fck koşulu
-Y	S511(8.5)+S411(9.68)	18.17	K412(4.29)+K441(8.35)	15.17	Nd < 0,10.Ac.fck koşulu
+X	S411(9.57)+S311(10.41)	19.98	K305(8.35)+K308(7.08)	18.53	✓
-X	S411(9.57)+S311(10.41)	19.98	K305(7.08)+K308(8.35)	18.53	✓
+Y	S411(9.68)+S311(10.52)	20.19	K312(10.3)+K341(6.35)	19.98	✓
-Y	S411(9.68)+S311(10.52)	20.19	K312(6.35)+K341(10.3)	19.98	✓
+X	S311(10.41)+SZ11(10.98)	21.38	KZ05(8.35)+KZ08(6.35)	17.65	✓
-X	S311(10.41)+SZ11(10.98)	21.38	KZ05(6.35)+KZ08(8.35)	17.65	✓
+Y	S311(10.52)+SZ11(11.11)	21.63	KZ12(8.35)+KZ41(4.29)	15.17	✓
-Y	S311(10.52)+SZ11(11.11)	21.63	KZ12(4.29)+KZ41(8.35)	15.17	✓
+X	SZ11(10.98)+SB11(11.67)	22.65	KB05(8.35)+KB08(4.29)	15.18	Bodrum kat
-X	SZ11(10.98)+SB11(11.67)	22.65	KB05(4.29)+KB08(8.35)	15.18	Bodrum kat
+Y	SZ11(11.11)+SB11(11.59)	22.7	KB12(8.35)+KB41(4.29)	15.17	Bodrum kat
-Y	SZ11(11.11)+SB11(11.59)	22.7	KB12(4.29)+KB41(8.35)	15.17	Bodrum kat
+X	S512(3.74)	3.74	K528(7.08)	8.5	Yapı üst kat koşulu
-X	S512(3.74)	3.74	K528(6.35)	7.62	Yapı üst kat koşulu
+Y	S512(5.57)	5.57	K531(4.29)	5.14	Yapı üst kat koşulu
-Y	S512(5.57)	5.57	K531(8.35)	10.02	Yapı üst kat koşulu
+X	S512(3.74)+S412(4.33)	8.08	K428(7.08)	8.5	Nd < 0,10.Ac.fck koşulu
-X	S512(3.74)+S412(4.33)	8.08	K428(6.35)	7.62	Nd < 0,10.Ac.fck koşulu
+Y	S512(5.57)+S412(6.41)	11.98	K431(4.29)	5.14	Nd < 0,10.Ac.fck koşulu
-Y	S512(5.57)+S412(6.41)	11.98	K431(8.35)	10.02	Nd < 0,10.Ac.fck koşulu
+X	S412(4.33)+S312(4.9)	9.23	K328(7.08)	8.5	Nd < 0,10.Ac.fck koşulu
-X	S412(4.33)+S312(4.9)	9.23	K328(6.35)	7.62	Nd < 0,10.Ac.fck koşulu
+Y	S412(6.41)+S312(7.12)	13.53	K331(4.29)	5.14	Nd < 0,10.Ac.fck koşulu
-Y	S412(6.41)+S312(7.12)	13.53	K331(8.35)	10.02	Nd < 0,10.Ac.fck koşulu
+X	S312(4.9)+SZ12(5.39)	10.29	KZ28(7.08)	8.5	✓
-X	S312(4.9)+SZ12(5.39)	10.29	KZ28(6.35)	7.62	✓
+Y	S312(7.12)+SZ12(7.48)	14.6	KZ31(4.29)	5.14	✓
-Y	S312(7.12)+SZ12(7.48)	14.6	KZ31(8.35)	10.02	✓
+X	SZ12(5.39)+SB12(3.54)	8.93	KB28(7.08)	8.5	Panel başlığı
-X	SZ12(5.39)+SB12(3.54)	8.93	KB28(6.35)	7.62	Panel başlığı
+Y	SZ12(7.48)+SB12(5.8)	13.28	KB31(4.29)	5.14	Panel başlığı
-Y	SZ12(7.48)+SB12(5.8)	13.28	KB31(8.35)	10.02	Panel başlığı
+X	S513(3.95)	3.95	K528(6.35)+K529(8.35)	17.64	Yapı üst kat koşulu
-X	S513(3.95)	3.95	K528(8.35)+K529(4.29)	15.17	Yapı üst kat koşulu
+Y	S513(5.99)	5.99	K524(4.29)	5.14	Yapı üst kat koşulu
-Y	S513(5.99)	5.99	K524(8.35)	10.02	Yapı üst kat koşulu
+X	S513(3.95)+S413(4.6)	8.55	K428(6.35)+K429(8.35)	17.64	Nd < 0,10.Ac.fck koşulu
-X	S513(3.95)+S413(4.6)	8.55	K428(8.35)+K429(4.29)	15.17	Nd < 0,10.Ac.fck koşulu
+Y	S513(5.99)+S413(7.12)	13.12	K424(4.29)	5.14	Nd < 0,10.Ac.fck koşulu
-Y	S513(5.99)+S413(7.12)	13.12	K424(8.35)	10.02	Nd < 0,10.Ac.fck koşulu
+X	S413(4.6)+S313(5.17)	9.77	K328(6.35)+K329(8.35)	17.64	YETERSIZ!!
-X	S413(4.6)+S313(5.17)	9.77	K328(8.35)+K329(4.29)	15.17	YETERSIZ!!
+Y	S413(7.12)+S313(7.67)	14.79	K324(6.35)	7.62	✓
-Y	S413(7.12)+S313(7.67)	14.79	K324(8.35)	10.02	✓
+X	S313(5.17)+SZ13(5.68)	10.85	KZ28(6.35)+KZ29(8.35)	17.64	YETERSIZ!!
-X	S313(5.17)+SZ13(5.68)	10.85	KZ28(8.35)+KZ29(4.29)	15.17	YETERSIZ!!
+Y	S313(7.67)+SZ13(8.07)	15.74	KZ24(4.29)	5.14	✓
-Y	S313(7.67)+SZ13(8.07)	15.74	KZ24(8.35)	10.02	✓
+X	SZ13(5.68)+SB13(3.73)	9.41	KB28(6.35)+KB29(8.35)	17.64	Panel başlığı
-X	SZ13(5.68)+SB13(3.73)	9.41	KB28(8.35)+KB29(4.29)	15.17	Panel başlığı
+Y	SZ13(8.07)+SB13(5.67)	13.74	KB24(4.29)	5.14	Panel başlığı
-Y	SZ13(8.07)+SB13(5.67)	13.74	KB24(8.35)	10.02	Panel başlığı

GÜÇLÜ KOLON KONTROLU (tm)

Yön	Kolon	Mrc	Kiriş	Mrb	AÇIKLAMA
+X	S417(9.54)+S317(10.34)	19.88	K318(8.35)+K319(8.35)	20.06	YETERSIZ!!
-X	S417(9.54)+S317(10.34)	19.88	K318(8.35)+K319(6.35)	17.65	✓
+Y	S417(9.58)+S317(10.39)	19.98	K324(8.35)+K325(4.29)	15.17	✓
-Y	S417(9.58)+S317(10.39)	19.98	K324(4.29)+K325(8.35)	15.17	✓
+X	S317(10.34)+SZ17(10.83)	21.16	KZ18(8.35)+KZ19(8.35)	20.06	✓
-X	S317(10.34)+SZ17(10.83)	21.16	KZ18(8.35)+KZ19(6.35)	17.65	✓
+Y	S317(10.39)+SZ17(10.93)	21.32	KZ24(8.35)+KZ25(4.29)	15.17	✓
-Y	S317(10.39)+SZ17(10.93)	21.32	KZ24(4.29)+KZ25(8.35)	15.17	✓
+X	SZ17(10.83)+SB17(11.39)	22.22	KB18(6.35)+KB19(8.35)	17.65	Bodrum kat
-X	SZ17(10.83)+SB17(11.39)	22.22	KB18(8.35)+KB19(4.29)	15.18	Bodrum kat
+Y	SZ17(10.93)+SB17(11.3)	22.23	KB24(8.35)+KB25(4.29)	15.17	Bodrum kat
-Y	SZ17(10.93)+SB17(11.3)	22.23	KB24(4.29)+KB25(8.35)	15.17	Bodrum kat
+X	S518(8.44)	8.44	K519(4.29)+K520(8.35)	15.18	Yapı üst kat koşulu
-X	S518(8.44)	8.44	K519(8.35)+K520(4.29)	15.18	Yapı üst kat koşulu
+Y	S518(8.19)	8.19	K526(8.35)+K527(6.35)	17.64	Yapı üst kat koşulu
-Y	S518(8.19)	8.19	K526(4.29)+K527(8.35)	15.17	Yapı üst kat koşulu
+X	S518(8.44)+S418(9.52)	17.96	K419(4.29)+K420(8.35)	15.18	Nd < 0,10.Ac.fck koşulu
-X	S518(8.44)+S418(9.52)	17.96	K419(8.35)+K420(4.29)	15.18	Nd < 0,10.Ac.fck koşulu
+Y	S518(8.19)+S418(9.14)	17.32	K426(8.35)+K427(8.35)	20.05	Nd < 0,10.Ac.fck koşulu
-Y	S518(8.19)+S418(9.14)	17.32	K426(6.35)+K427(8.35)	17.64	Nd < 0,10.Ac.fck koşulu
+X	S418(9.52)+S318(10.37)	19.89	K319(4.29)+K320(8.35)	15.18	✓
-X	S418(9.52)+S318(10.37)	19.89	K319(8.35)+K320(4.29)	15.18	✓
+Y	S418(9.14)+S318(9.93)	19.07	K326(8.35)+K327(8.35)	20.05	Nd < 0,10.Ac.fck koşulu
-Y	S418(9.14)+S318(9.93)	19.07	K326(6.35)+K327(8.35)	17.64	Nd < 0,10.Ac.fck koşulu
+X	S318(10.37)+SZ18(10.93)	21.3	KZ19(4.29)+KZ20(8.35)	15.18	✓
-X	S318(10.37)+SZ18(10.93)	21.3	KZ19(8.35)+KZ20(4.29)	15.18	✓
+Y	S318(9.93)+SZ18(10.46)	20.39	KZ26(8.35)+KZ27(8.35)	20.05	✓
-Y	S318(9.93)+SZ18(10.46)	20.39	KZ26(6.35)+KZ27(8.35)	17.64	✓
+X	SZ18(10.93)+SB18(11.36)	22.29	KB19(4.29)+KB20(8.35)	15.18	Bodrum kat
-X	SZ18(10.93)+SB18(11.36)	22.29	KB19(8.35)+KB20(4.29)	15.18	Bodrum kat
+Y	SZ18(10.46)+SB18(11.33)	21.79	KB26(8.35)+KB27(6.35)	17.64	Bodrum kat
-Y	SZ18(10.46)+SB18(11.33)	21.79	KB26(4.29)+KB27(8.35)	15.17	Bodrum kat
+X	S519(8.49)	8.49	K521(6.35)+K522(8.35)	17.65	Yapı üst kat koşulu
-X	S519(8.49)	8.49	K521(8.35)+K522(4.29)	15.18	Yapı üst kat koşulu
+Y	S519(8.4)	8.4	K525(8.35)+K551(4.29)	15.17	Yapı üst kat koşulu
-Y	S519(8.4)	8.4	K525(4.29)+K551(8.35)	15.17	Yapı üst kat koşulu
+X	S519(8.49)+S419(9.54)	18.04	K421(8.35)+K422(8.35)	20.06	Nd < 0,10.Ac.fck koşulu
-X	S519(8.49)+S419(9.54)	18.04	K421(8.35)+K422(6.35)	17.65	Nd < 0,10.Ac.fck koşulu
+Y	S519(8.4)+S419(9.48)	17.88	K425(8.35)+K451(4.29)	15.17	Nd < 0,10.Ac.fck koşulu
-Y	S519(8.4)+S419(9.48)	17.88	K425(4.29)+K451(8.35)	15.17	Nd < 0,10.Ac.fck koşulu
+X	S419(9.54)+S319(10.33)	19.87	K321(8.35)+K322(8.35)	20.06	YETERSIZ!!
-X	S419(9.54)+S319(10.33)	19.87	K321(8.35)+K322(6.35)	17.65	✓
+Y	S419(9.48)+S319(10.33)	19.82	K325(8.35)+K351(4.29)	15.17	✓
-Y	S419(9.48)+S319(10.33)	19.82	K325(4.29)+K351(8.35)	15.17	✓
+X	S319(10.33)+SZ19(10.82)	21.15	KZ21(8.35)+KZ22(8.35)	20.06	✓
-X	S319(10.33)+SZ19(10.82)	21.15	KZ21(8.35)+KZ22(6.35)	17.65	✓
+Y	S319(10.33)+SZ19(10.88)	21.22	KZ25(8.35)+KZ51(4.29)	15.17	✓
-Y	S319(10.33)+SZ19(10.88)	21.22	KZ25(4.29)+KZ51(8.35)	15.17	✓
+X	SZ19(10.82)+SB19(11.38)	22.19	KB21(6.35)+KB22(8.35)	17.65	Bodrum kat
-X	SZ19(10.82)+SB19(11.38)	22.19	KB21(8.35)+KB22(4.29)	15.18	Bodrum kat
+Y	SZ19(10.88)+SB19(11.31)	22.19	KB25(8.35)+KB51(4.29)	15.17	Bodrum kat
-Y	SZ19(10.88)+SB19(11.31)	22.19	KB25(4.29)+KB51(8.35)	15.17	Bodrum kat
+X	S520(3.74)	3.74	K542(6.35)	7.62	Yapı üst kat koşulu
-X	S520(3.74)	3.74	K542(7.08)	8.5	Yapı üst kat koşulu
+Y	S520(5.57)	5.57	K545(8.35)	10.02	Yapı üst kat koşulu
-Y	S520(5.57)	5.57	K545(4.29)	5.14	Yapı üst kat koşulu
+X	S520(3.74)+S420(4.32)	8.06	K442(6.35)	7.62	Nd < 0,10.Ac.fck koşulu
-X	S520(3.74)+S420(4.32)	8.06	K442(7.08)	8.5	Nd < 0,10.Ac.fck koşulu
+Y	S520(5.57)+S420(6.4)	11.97	K445(8.35)	10.02	Nd < 0,10.Ac.fck koşulu
-Y	S520(5.57)+S420(6.4)	11.97	K445(4.29)	5.14	Nd < 0,10.Ac.fck koşulu
+X	S420(4.32)+S320(4.89)	9.21	K342(6.35)	7.62	Nd < 0,10.Ac.fck koşulu
-X	S420(4.32)+S320(4.89)	9.21	K342(7.08)	8.5	Nd < 0,10.Ac.fck koşulu
+Y	S420(6.4)+S320(7.13)	13.53	K345(8.35)	10.02	Nd < 0,10.Ac.fck koşulu
-Y	S420(6.4)+S320(7.13)	13.53	K345(6.35)	7.62	Nd < 0,10.Ac.fck koşulu
+X	S320(4.89)+SZ20(5.37)	10.26	KZ42(6.35)	7.62	✓
-X	S320(4.89)+SZ20(5.37)	10.26	KZ42(7.08)	8.5	✓
+Y	S320(7.13)+SZ20(7.49)	14.62	KZ45(8.35)	10.02	✓
-Y	S320(7.13)+SZ20(7.49)	14.62	KZ45(6.35)	7.62	✓

GÜÇLÜ KOLON KONTROLU (tm)

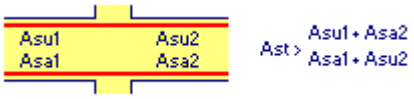
Yön	Kolon	Mrc	Kiriş	Mrb	AÇIKLAMA
+X	S327(10.33)+SZ27(10.88)	21.21	KZ35(8.35)+KZ49(4.29)	15.18	✓
-X	S327(10.33)+SZ27(10.88)	21.21	KZ35(4.29)+KZ49(8.35)	15.18	✓
+Y	S327(9.96)+SZ27(10.48)	20.44	KZ36(6.35)+KZ37(8.35)	17.64	✓
-Y	S327(9.96)+SZ27(10.48)	20.44	KZ36(8.35)+KZ37(8.35)	20.05	✓
+X	SZ27(10.88)+SB27(11.37)	22.25	KB35(8.35)+KB49(4.29)	15.18	Bodrum kat
-X	SZ27(10.88)+SB27(11.37)	22.25	KB35(4.29)+KB49(8.35)	15.18	Bodrum kat
+Y	SZ27(10.48)+SB27(11.32)	21.8	KB36(4.29)+KB37(8.35)	15.17	Bodrum kat
-Y	SZ27(10.48)+SB27(11.32)	21.8	KB36(8.35)+KB37(6.35)	17.64	Bodrum kat
+X	S528(3.74)	3.74	K554(7.08)	8.5	Yapı üst kat koşulu
-X	S528(3.74)	3.74	K554(6.35)	7.62	Yapı üst kat koşulu
+Y	S528(5.57)	5.57	K557(8.35)	10.02	Yapı üst kat koşulu
-Y	S528(5.57)	5.57	K557(4.29)	5.14	Yapı üst kat koşulu
+X	S528(3.74)+S428(4.33)	8.08	K454(7.08)	8.5	Nd < 0,10.Ac.fck koşulu
-X	S528(3.74)+S428(4.33)	8.08	K454(6.35)	7.62	Nd < 0,10.Ac.fck koşulu
+Y	S528(5.57)+S428(6.41)	11.98	K457(8.35)	10.02	Nd < 0,10.Ac.fck koşulu
-Y	S528(5.57)+S428(6.41)	11.98	K457(4.29)	5.14	Nd < 0,10.Ac.fck koşulu
+X	S428(4.33)+S328(4.9)	9.23	K354(7.08)	8.5	Nd < 0,10.Ac.fck koşulu
-X	S428(4.33)+S328(4.9)	9.23	K354(6.35)	7.62	Nd < 0,10.Ac.fck koşulu
+Y	S428(6.41)+S328(7.12)	13.53	K357(8.35)	10.02	Nd < 0,10.Ac.fck koşulu
-Y	S428(6.41)+S328(7.12)	13.53	K357(4.29)	5.14	Nd < 0,10.Ac.fck koşulu
+X	S328(4.9)+SZ28(5.39)	10.29	KZ54(7.08)	8.5	✓
-X	S328(4.9)+SZ28(5.39)	10.29	KZ54(6.35)	7.62	✓
+Y	S328(7.12)+SZ28(7.48)	14.6	KZ57(8.35)	10.02	✓
-Y	S328(7.12)+SZ28(7.48)	14.6	KZ57(4.29)	5.14	✓
+X	SZ28(5.39)+SB28(3.54)	8.93	KB54(7.08)	8.5	Panel başlığı
-X	SZ28(5.39)+SB28(3.54)	8.93	KB54(6.35)	7.62	Panel başlığı
+Y	SZ28(7.48)+SB28(5.16)	12.64	KB57(8.35)	10.02	Panel başlığı
-Y	SZ28(7.48)+SB28(5.16)	12.64	KB57(4.29)	5.14	Panel başlığı
+X	S529(3.95)	3.95	K554(6.35)+K555(8.35)	17.65	Yapı üst kat koşulu
-X	S529(3.95)	3.95	K554(8.35)+K555(4.29)	15.17	Yapı üst kat koşulu
+Y	S529(5.99)	5.99	K550(8.35)	10.02	Yapı üst kat koşulu
-Y	S529(5.99)	5.99	K550(4.29)	5.14	Yapı üst kat koşulu
+X	S529(3.95)+S429(4.6)	8.55	K454(6.35)+K455(8.35)	17.65	Nd < 0,10.Ac.fck koşulu
-X	S529(3.95)+S429(4.6)	8.55	K454(8.35)+K455(4.29)	15.17	Nd < 0,10.Ac.fck koşulu
+Y	S529(5.99)+S429(7.12)	13.12	K450(8.35)	10.02	Nd < 0,10.Ac.fck koşulu
-Y	S529(5.99)+S429(7.12)	13.12	K450(4.29)	5.14	Nd < 0,10.Ac.fck koşulu
+X	S429(4.6)+S329(5.17)	9.77	K354(6.35)+K355(8.35)	17.65	YETERSIZ!!
-X	S429(4.6)+S329(5.17)	9.77	K354(8.35)+K355(4.29)	15.17	YETERSIZ!!
+Y	S429(7.12)+S329(7.67)	14.79	K350(8.35)	10.02	✓
-Y	S429(7.12)+S329(7.67)	14.79	K350(6.35)	7.62	✓
+X	S329(5.17)+SZ29(5.68)	10.85	KZ54(6.35)+KZ55(8.35)	17.65	YETERSIZ!!
-X	S329(5.17)+SZ29(5.68)	10.85	KZ54(8.35)+KZ55(4.29)	15.17	YETERSIZ!!
+Y	S329(7.67)+SZ29(8.07)	15.74	KZ50(8.35)	10.02	✓
-Y	S329(7.67)+SZ29(8.07)	15.74	KZ50(4.29)	5.14	✓
+X	SZ29(5.68)+SB29(3.73)	9.41	KB54(6.35)+KB55(8.35)	17.65	Panel başlığı
-X	SZ29(5.68)+SB29(3.73)	9.41	KB54(8.35)+KB55(4.29)	15.17	Panel başlığı
+Y	SZ29(8.07)+SB29(5.34)	13.41	KB50(8.35)	10.02	Panel başlığı
-Y	SZ29(8.07)+SB29(5.34)	13.41	KB50(4.29)	5.14	Panel başlığı
+X	S530(4.06)	4.06	K555(4.29)+K556(8.35)	15.17	Yapı üst kat koşulu
-X	S530(4.06)	4.06	K555(8.35)+K556(4.29)	15.17	Yapı üst kat koşulu
+Y	S530(6.14)	6.14	K552(8.35)	10.02	Yapı üst kat koşulu
-Y	S530(6.14)	6.14	K552(4.29)	5.14	Yapı üst kat koşulu
+X	S530(4.06)+S430(4.82)	8.88	K455(4.29)+K456(8.35)	15.17	Nd < 0,10.Ac.fck koşulu
-X	S530(4.06)+S430(4.82)	8.88	K455(8.35)+K456(4.29)	15.17	Nd < 0,10.Ac.fck koşulu
+Y	S530(6.14)+S430(7.31)	13.45	K452(8.35)	10.02	✓
-Y	S530(6.14)+S430(7.31)	13.45	K452(4.29)	5.14	✓
+X	S430(4.82)+S330(5.52)	10.34	K355(4.29)+K356(8.35)	15.17	YETERSIZ!!
-X	S430(4.82)+S330(5.52)	10.34	K355(8.35)+K356(4.29)	15.17	YETERSIZ!!
+Y	S430(7.31)+S330(7.81)	15.12	K352(8.35)	10.02	✓
-Y	S430(7.31)+S330(7.81)	15.12	K352(6.35)	7.62	✓
+X	S330(5.52)+SZ30(6.1)	11.61	KZ55(4.29)+KZ56(8.35)	15.17	YETERSIZ!!
-X	S330(5.52)+SZ30(6.1)	11.61	KZ55(8.35)+KZ56(4.29)	15.17	YETERSIZ!!
+Y	S330(7.81)+SZ30(8.2)	16.01	KZ52(8.35)	10.02	✓
-Y	S330(7.81)+SZ30(8.2)	16.01	KZ52(4.29)	5.14	✓
+X	SZ30(6.1)+SB30(3.8)	9.89	KB55(4.29)+KB56(8.35)	15.17	Panel başlığı
-X	SZ30(6.1)+SB30(3.8)	9.89	KB55(8.35)+KB56(4.29)	15.17	Panel başlığı
+Y	SZ30(8.2)+SB30(5.46)	13.66	KB52(8.35)	10.02	Panel başlığı
-Y	SZ30(8.2)+SB30(5.46)	13.66	KB52(4.29)	5.14	Panel başlığı

GÜÇLÜ KOLON KONTROLU (tm)

Yön	Kolon	Mrc	Kiriş	Mrb	AÇIKLAMA
+X	S534(194.62)+S434(216.13)	410.75	K408(16.8)+K423(8.35)+K459(8.3	40.23	Nd < 0,10.Ac.fck koşulu
-X	S534(179.74)+S434(194.23)	373.97	K408(7.08)+K423(11.36)+K459(11	35.79	Nd < 0,10.Ac.fck koşulu
+Y	S534(206.76)+S434(226.14)	432.9	K407(15.04)+K437(8.35)	28.07	Nd < 0,10.Ac.fck koşulu
-Y	S534(207.42)+S434(226.27)	433.69	K407(8.35)+K437(15.04)	28.07	Nd < 0,10.Ac.fck koşulu
+X	S434(216.13)+S334(237.45)	453.59	K308(16.8)+K323(9.87)+K359(9.8	43.88	Nd < 0,10.Ac.fck koşulu
-X	S434(194.23)+S334(226.14)	420.37	K308(7.91)+K323(15.04)+K359(15	45.62	Nd < 0,10.Ac.fck koşulu
+Y	S434(226.14)+S334(294.3)	520.44	K307(15.04)+K337(8.35)	28.07	Nd < 0,10.Ac.fck koşulu
-Y	S434(226.27)+S334(278.42)	504.69	K307(8.35)+K337(15.04)	28.07	Nd < 0,10.Ac.fck koşulu
+X	S334(237.45)+SZ34(284.92)	522.37	KZ08(16.8)+KZ23(11.78)+KZ59(11	48.46	Nd < 0,10.Ac.fck koşulu
-X	S334(226.14)+SZ34(219.78)	445.92	KZ08(7.91)+KZ23(15.04)+KZ59(15	45.62	Nd < 0,10.Ac.fck koşulu
+Y	S334(294.3)+SZ34(297.64)	591.93	KZ07(15.04)+KZ37(8.35)	28.07	Nd < 0,10.Ac.fck koşulu
-Y	S334(278.42)+SZ34(329.18)	607.6	KZ07(8.35)+KZ37(15.04)	28.07	Nd < 0,10.Ac.fck koşulu
+X	SZ34(284.92)+SB34(311.29)	596.21	KB08(8.35)+KB23(6.35)+KB59(6.3	25.27	Bodrum kat
-X	SZ34(219.78)+SB34(253.2)	472.98	KB08(4.29)+KB23(7.08)+KB59(7.0	22.14	Bodrum kat
+Y	SZ34(297.64)+SB34(300.77)	598.41	KB07(7.08)+KB37(6.35)	16.11	Bodrum kat
-Y	SZ34(329.18)+SB34(332.15)	661.33	KB07(6.35)+KB37(7.08)	16.11	Bodrum kat
+X	S635(16.36)	16.36	K623(7.08)+K659(7.08)	16.98	Yapı üst kat koşulu
-X	S635(16.36)	16.36	K623(6.35)+K659(6.35)	15.23	Yapı üst kat koşulu
+Y	S635(130.55)	130.55		0	Yapı üst kat koşulu
-Y	S635(130.55)	130.55		0	Yapı üst kat koşulu
+X	S635(16.36)+S535(17.53)	33.88	K522(4.29)+K523(7.08)+K559(7.0	22.15	Yapı üst kat koşulu
-X	S635(16.36)+S535(17.53)	33.88	K522(8.35)+K523(6.35)+K559(6.3	25.27	Yapı üst kat koşulu
+Y	S635(130.55)+S535(140.72)	271.28	K527(15.04)+K553(6.35)	25.67	Yapı üst kat koşulu
-Y	S635(130.55)+S535(140.72)	271.28	K527(6.35)+K553(15.04)	25.67	Yapı üst kat koşulu
+X	S535(17.53)+S435(18.53)	36.05	K422(4.29)+K423(7.08)+K459(7.0	22.15	Nd < 0,10.Ac.fck koşulu
-X	S535(17.53)+S435(18.53)	36.05	K422(8.35)+K423(6.35)+K459(6.3	25.28	Nd < 0,10.Ac.fck koşulu
+Y	S535(140.72)+S435(150.34)	291.06	K427(15.04)+K453(8.35)	28.07	Nd < 0,10.Ac.fck koşulu
-Y	S535(140.72)+S435(150.34)	291.06	K427(8.35)+K453(15.04)	28.07	Nd < 0,10.Ac.fck koşulu
+X	S435(18.53)+S335(19.24)	37.77	K322(4.29)+K323(7.08)+K359(7.0	22.15	Nd < 0,10.Ac.fck koşulu
-X	S435(18.53)+S335(19.24)	37.77	K322(8.35)+K323(6.35)+K359(6.3	25.28	Nd < 0,10.Ac.fck koşulu
+Y	S435(150.34)+S335(159.19)	309.53	K327(15.04)+K353(8.35)	28.07	Nd < 0,10.Ac.fck koşulu
-Y	S435(150.34)+S335(159.19)	309.53	K327(8.35)+K353(15.04)	28.07	Nd < 0,10.Ac.fck koşulu
+X	S335(19.24)+SZ35(19.73)	38.97	KZ22(4.29)+KZ23(7.08)+KZ59(7.0	22.15	Nd < 0,10.Ac.fck koşulu
-X	S335(19.24)+SZ35(19.73)	38.97	KZ22(8.35)+KZ23(6.35)+KZ59(6.3	25.28	Nd < 0,10.Ac.fck koşulu
+Y	S335(159.19)+SZ35(166.86)	326.05	KZ27(15.04)+KZ53(8.35)	28.07	Nd < 0,10.Ac.fck koşulu
-Y	S335(159.19)+SZ35(166.86)	326.05	KZ27(8.35)+KZ53(15.04)	28.07	Nd < 0,10.Ac.fck koşulu
+X	SZ35(19.73)+SB35(24.86)	44.59	KB22(4.29)+KB23(7.08)+KB59(7.0	22.14	Bodrum kat
-X	SZ35(19.73)+SB35(24.86)	44.59	KB22(8.35)+KB23(6.35)+KB59(6.3	25.27	Bodrum kat
+Y	SZ35(166.86)+SB35(173.05)	339.91	KB27(7.08)+KB53(6.35)	16.11	Bodrum kat
-Y	SZ35(166.86)+SB35(173.05)	339.91	KB27(6.35)+KB53(7.08)	16.11	Bodrum kat

KUŞATILMIS KOLON KONTROLU

TDY 1997 göre yapılmıştır.
Ve=1.25 fyk (As1+As2)-Vkol<Vmax=(0.60÷0.45) bj hc fcd



Kolon	Bx/By	bw1	bw2	bj	Asu1	Asa1	Asu2	Asa2	Ast	Vkol	Ve	Vmax	AÇIKLAMA
SZ01 x	25	22.5	12.5	25.0	3.8	0.0	3.8	0.0	3.8	0.9	19.1 <	46.9	Kuşatılmamış
SZ01 y	35	12.5	12.5	25.0	4.5	0.0	4.5	0.0	4.5	1.2	22.5 <	65.6	✓
SB01											Bodrum kat		
SZ02 x	25	22.5	12.5	25.0	4.5	3.4	4.5	2.3	7.9	1.0	40.5 <	46.9	Kuşatılmamış
SZ02 y	35	12.5	12.5	25.0	4.9	0.0	4.9	0.0	4.9	1.3	24.6 <	65.6	✓
SB02											Bodrum kat		
SZ03 x	25	22.5	12.5	25.0	4.5	2.3	4.5	2.3	6.8	1.0	34.6 <	46.9	Kuşatılmamış
SZ03 y	35	12.5	12.5	25.0	4.5	0.0	4.5	0.0	4.5	1.4	22.4 <	65.6	✓
SB03											Bodrum kat		
SZ04 x	25	22.5	12.5	25.0	4.5	2.3	4.5	2.3	6.8	1.0	34.6 <	46.9	Kuşatılmamış
SZ04 y	35	12.5	12.5	25.0	4.5	0.0	4.5	0.0	4.5	1.4	22.3 <	65.6	✓
SB04											Bodrum kat		
SZ05 x	35	12.5	12.5	25.0	4.3	0.0	4.3	0.0	4.3	1.6	20.8 <	65.6	Kuşatılmamış
SZ05 y	25	12.5	22.5	25.0	4.5	2.3	4.5	2.3	6.8	0.9	34.7 <	46.9	✓
SB05											Bodrum kat		
SZ06 x	35	12.5	12.5	25.0	4.3	0.0	4.3	0.0	4.3	1.8	20.7 <	65.6	Kuşatılmamış
SZ06 y	25	12.5	22.5	25.0	4.5	2.3	4.5	2.3	6.8	0.9	34.8 <	46.9	✓
SB06											Bodrum kat		
SZ07 x	40	20.0	20.0	40.0	4.5	3.4	4.5	2.3	7.9	2.7	38.8 <	120.0	Kuşatılmamış
SZ07 y	40	20.0	20.0	40.0	4.5	3.4	4.5	3.4	7.9	2.2	39.4 <	120.0	✓
SB07											Bodrum kat		
SZ08 x	40	20.0	20.0	40.0	4.5	2.3	4.5	2.3	6.8	2.7	32.9 <	120.0	Kuşatılmamış
SZ08 y	40	20.0	20.0	40.0	4.5	2.3	4.5	2.3	6.8	2.3	33.3 <	120.0	✓
SB08											Bodrum kat		
SZ09 x	40	20.0	20.0	40.0	4.5	2.3	4.5	2.3	6.8	2.6	33.0 <	120.0	Kuşatılmamış
SZ09 y	40	20.0	20.0	40.0	4.5	2.3	4.5	3.4	7.9	2.8	38.7 <	120.0	✓
SB09											Bodrum kat		
SZ10 x	40	20.0	20.0	40.0	4.5	3.4	4.5	2.3	7.9	2.9	38.6 <	120.0	Kuşatılmamış
SZ10 y	40	20.0	20.0	40.0	5.7	3.4	5.7	3.4	9.0	2.2	45.3 <	120.0	✓
SB10											Bodrum kat		
SZ11 x	40	20.0	20.0	40.0	4.5	3.4	4.5	3.4	7.9	3.2	38.4 <	120.0	Kuşatılmamış
SZ11 y	40	20.0	20.0	40.0	4.5	2.3	4.5	2.3	6.8	2.2	33.4 <	120.0	✓
SB11											Bodrum kat		
SZ12 x	25	12.5	22.5	25.0	3.8	0.0	3.8	0.0	3.8	0.9	19.1 <	46.9	Kuşatılmamış
SZ12 y	35	12.5	12.5	25.0	4.5	0.0	4.5	0.0	4.5	0.6	23.1 <	65.6	✓
SB12											Bodrum kat		
SZ13 x	25	12.5	22.5	25.0	4.5	2.3	4.5	3.4	7.9	1.0	40.5 <	46.9	Kuşatılmamış
SZ13 y	35	12.5	12.5	25.0	4.5	0.0	4.5	0.0	4.5	0.9	22.9 <	65.6	✓
SB13											Bodrum kat		
SZ14 x	25	12.5	22.5	25.0	4.5	2.3	4.5	2.3	6.8	1.0	34.6 <	46.9	Kuşatılmamış
SZ14 y	35	12.5	12.5	25.0	4.5	0.0	4.5	0.0	4.5	1.2	22.6 <	65.6	✓
SB14											Bodrum kat		
SZ15 x	35	12.5	12.5	25.0	4.3	0.0	4.3	0.0	4.3	1.6	20.8 <	65.6	Kuşatılmamış
SZ15 y	25	22.5	12.5	25.0	4.5	2.3	4.5	2.3	6.8	0.5	35.1 <	46.9	✓
SB15											Bodrum kat		
SZ16 x	35	12.5	12.5	25.0	4.3	0.0	4.3	0.0	4.3	1.8	20.7 <	65.6	Kuşatılmamış
SZ16 y	25	22.5	12.5	25.0	4.5	2.3	4.5	2.3	6.8	0.5	35.2 <	46.9	✓
SB16											Bodrum kat		

KOLONLARIN KESME DAYANIM KONTROLU

Vw=(Asw/s) fywd d , Vc=0.65 fctd Ac , Vr=0.8 Vcr + Vw ≥ Vd (t)

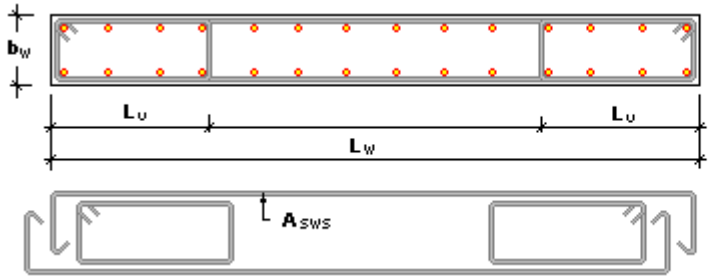
Kolon		Asw/s	Vw	Vcr	Vd	Vr=0.8 Vcr+ Vw
SB01	x	0.1507	13.761	6.631	0.038	19.066 ✓
SB01	y	0.1005	12.844	6.631	0.115	18.148 ✓
SB02	x	0.1884	17.202	6.631	0.040	22.506 ✓
SB02	y	0.1256	16.055	6.631	0.502	21.359 ✓
SB03	x	0.1507	13.761	6.631	0.044	19.066 ✓
SB03	y	0.1005	12.844	6.631	0.473	18.148 ✓
SB04	x	0.1507	13.761	6.631	0.043	19.066 ✓
SB04	y	0.1005	12.844	6.631	0.431	18.148 ✓
SB05	x	0.1005	12.844	6.631	0.412	18.148 ✓
SB05	y	0.1507	13.761	6.631	0.065	19.066 ✓
SB06	x	0.1005	12.844	6.631	0.401	18.148 ✓
SB06	y	0.1507	13.761	6.631	0.066	19.066 ✓
SB07	x	0.2010	29.358	9.518	0.375	36.972 ✓
SB07	y	0.2010	29.358	9.518	0.229	36.972 ✓
SB08	x	0.2010	29.358	9.518	0.182	36.972 ✓
SB08	y	0.2010	29.358	9.518	0.194	36.972 ✓
SB09	x	0.2010	29.358	9.518	0.215	36.972 ✓
SB09	y	0.2010	29.358	9.518	0.157	36.972 ✓
SB10	x	0.2010	29.358	9.518	0.371	36.972 ✓
SB10	y	0.2010	29.358	9.518	0.159	36.972 ✓
SB11	x	0.2010	29.358	9.518	0.176	36.972 ✓
SB11	y	0.2010	29.358	9.518	0.131	36.972 ✓
SB12	x	0.1507	13.761	6.631	0.038	19.066 ✓
SB12	y	0.1005	12.844	6.631	0.118	18.148 ✓
SB13	x	0.1507	13.761	6.631	0.041	19.066 ✓
SB13	y	0.1005	12.844	6.631	0.416	18.148 ✓
SB14	x	0.1507	13.761	6.631	0.044	19.066 ✓
SB14	y	0.1005	12.844	6.631	0.423	18.148 ✓
SB15	x	0.1005	12.844	6.631	0.408	18.148 ✓
SB15	y	0.1507	13.761	6.631	0.065	19.066 ✓
SB16	x	0.1005	12.844	6.631	0.396	18.148 ✓
SB16	y	0.1507	13.761	6.631	0.066	19.066 ✓
SB17	x	0.2010	29.358	9.518	0.351	36.972 ✓
SB17	y	0.2010	29.358	9.518	0.133	36.972 ✓
SB18	x	0.2010	29.358	9.518	0.195	36.972 ✓
SB18	y	0.2010	29.358	9.518	0.143	36.972 ✓
SB19	x	0.2010	29.358	9.518	0.291	36.972 ✓
SB19	y	0.2010	29.358	9.518	0.081	36.972 ✓
SB20	x	0.1507	13.761	6.631	0.038	19.066 ✓
SB20	y	0.1005	12.844	6.631	0.115	18.148 ✓
SB21	x	0.1507	13.761	6.631	0.040	19.066 ✓
SB21	y	0.1005	12.844	6.631	0.502	18.148 ✓
SB22	x	0.1507	13.761	6.631	0.044	19.066 ✓
SB22	y	0.1005	12.844	6.631	0.474	18.148 ✓
SB23	x	0.1507	13.761	6.631	0.043	19.066 ✓
SB23	y	0.1005	12.844	6.631	0.431	18.148 ✓
SB24	x	0.1005	12.844	6.631	0.412	18.148 ✓
SB24	y	0.1507	13.761	6.631	0.065	19.066 ✓
SB25	x	0.2010	29.358	9.518	0.375	36.972 ✓
SB25	y	0.2010	29.358	9.518	0.229	36.972 ✓
SB26	x	0.2010	29.358	9.518	0.182	36.972 ✓
SB26	y	0.2010	29.358	9.518	0.194	36.972 ✓
SB27	x	0.2010	29.358	9.518	0.215	36.972 ✓
SB27	y	0.2010	29.358	9.518	0.157	36.972 ✓
SB28	x	0.1507	13.761	6.631	0.038	19.066 ✓
SB28	y	0.1005	12.844	6.631	0.118	18.148 ✓
SB29	x	0.1507	13.761	6.631	0.041	19.066 ✓
SB29	y	0.1005	12.844	6.631	0.417	18.148 ✓
SB30	x	0.1507	13.761	6.631	0.044	19.066 ✓
SB30	y	0.1005	12.844	6.631	0.423	18.148 ✓
SB31	x	0.1005	12.844	6.631	0.408	18.148 ✓
SB31	y	0.1507	13.761	6.631	0.065	19.066 ✓
SB32	x	0.2010	29.358	9.518	0.351	36.972 ✓
SB32	y	0.2010	29.358	9.518	0.133	36.972 ✓
SB33	x	0.2010	29.358	9.518	0.195	36.972 ✓
SB33	y	0.2010	29.358	9.518	0.143	36.972 ✓
SB35	x	0.5582	50.968	31.259	0.452	75.975 ✓
SB35	y	0.1116	67.278	31.259	24.216	92.285 ✓
SZ01	x	0.1884	17.202	6.631	1.276	22.506 ✓
SZ01	y	0.1256	16.055	6.631	2.522	21.359 ✓
SZ02	x	0.1884	17.202	6.631	1.405	22.506 ✓
SZ02	y	0.1256	16.055	6.631	2.730	21.359 ✓
SZ03	x	0.1884	17.202	6.631	1.350	22.506 ✓
SZ03	y	0.1256	16.055	6.631	2.493	21.359 ✓
SZ04	x	0.1884	17.202	6.631	1.347	22.506 ✓
SZ04	y	0.1256	16.055	6.631	2.203	21.359 ✓
SZ05	x	0.1256	16.055	6.631	2.373	21.359 ✓
SZ05	y	0.1884	17.202	6.631	1.654	22.506 ✓
SZ06	x	0.1256	16.055	6.631	2.246	21.359 ✓
SZ06	y	0.1884	17.202	6.631	1.566	22.506 ✓
SZ07	x	0.2010	29.358	9.518	3.624	36.972 ✓
SZ07	y	0.2010	29.358	9.518	3.723	36.972 ✓

KOLONLARIN KESME DAYANIM KONTROLU

Kolon		Asw/s	Vw	Vcr	Vd	Vr=0.8 Vcr+ Vw
S316	x	0.1256	16.055	6.631	2.501	21.359 ✓
S316	y	0.1884	17.202	6.631	1.526	22.506 ✓
S317	x	0.2010	29.358	9.518	4.181	36.972 ✓
S317	y	0.2010	29.358	9.518	3.588	36.972 ✓
S318	x	0.2010	29.358	9.518	3.774	36.972 ✓
S318	y	0.2010	29.358	9.518	4.354	36.972 ✓
S319	x	0.2010	29.358	9.518	3.778	36.972 ✓
S319	y	0.2010	29.358	9.518	3.404	36.972 ✓
S320	x	0.1884	17.202	6.631	1.595	22.506 ✓
S320	y	0.1256	16.055	6.631	2.608	21.359 ✓
S321	x	0.1884	17.202	6.631	1.847	22.506 ✓
S321	y	0.1256	16.055	6.631	2.864	21.359 ✓
S322	x	0.1884	17.202	6.631	1.715	22.506 ✓
S322	y	0.1256	16.055	6.631	2.703	21.359 ✓
S323	x	0.1884	17.202	6.631	1.695	22.506 ✓
S323	y	0.1256	16.055	6.631	2.475	21.359 ✓
S324	x	0.1256	16.055	6.631	2.606	21.359 ✓
S324	y	0.1884	17.202	6.631	2.031	22.506 ✓
S325	x	0.2010	29.358	9.518	4.218	36.972 ✓
S325	y	0.2010	29.358	9.518	4.199	36.972 ✓
S326	x	0.2010	29.358	9.518	3.827	36.972 ✓
S326	y	0.2010	29.358	9.518	3.761	36.972 ✓
S327	x	0.2010	29.358	9.518	3.789	36.972 ✓
S327	y	0.2010	29.358	9.518	4.359	36.972 ✓
S328	x	0.1884	17.202	6.631	1.609	22.506 ✓
S328	y	0.1256	16.055	6.631	2.261	21.359 ✓
S329	x	0.1884	17.202	6.631	1.869	22.506 ✓
S329	y	0.1256	16.055	6.631	2.552	21.359 ✓
S330	x	0.1884	17.202	6.631	1.736	22.506 ✓
S330	y	0.1256	16.055	6.631	2.518	21.359 ✓
S331	x	0.1256	16.055	6.631	2.622	21.359 ✓
S331	y	0.1884	17.202	6.631	1.672	22.506 ✓
S332	x	0.2010	29.358	9.518	4.181	36.972 ✓
S332	y	0.2010	29.358	9.518	3.587	36.972 ✓
S333	x	0.2010	29.358	9.518	3.774	36.972 ✓
S333	y	0.2010	29.358	9.518	4.354	36.972 ✓
S335	x	0.6280	57.339	31.259	6.731	82.346 ✓
S335	y	0.1256	75.688	31.259	15.703	100.695 ✓
S401	x	0.1884	17.202	6.631	1.393	22.506 ✓
S401	y	0.1256	16.055	6.631	2.312	21.359 ✓
S402	x	0.1884	17.202	6.631	1.624	22.506 ✓
S402	y	0.1256	16.055	6.631	2.522	21.359 ✓
S403	x	0.1884	17.202	6.631	1.492	22.506 ✓
S403	y	0.1256	16.055	6.631	2.419	21.359 ✓
S404	x	0.1884	17.202	6.631	1.465	22.506 ✓
S404	y	0.1256	16.055	6.631	2.285	21.359 ✓
S405	x	0.1256	16.055	6.631	2.164	21.359 ✓
S405	y	0.1884	17.202	6.631	1.811	22.506 ✓
S406	x	0.1256	16.055	6.631	2.068	21.359 ✓
S406	y	0.1884	17.202	6.631	1.662	22.506 ✓
S407	x	0.2010	29.358	9.518	3.605	36.972 ✓
S407	y	0.2010	29.358	9.518	3.708	36.972 ✓
S408	x	0.2010	29.358	9.518	3.311	36.972 ✓
S408	y	0.2010	29.358	9.518	3.364	36.972 ✓
S409	x	0.2010	29.358	9.518	3.281	36.972 ✓
S409	y	0.2010	29.358	9.518	4.173	36.972 ✓
S410	x	0.2010	29.358	9.518	3.464	36.972 ✓
S410	y	0.2010	29.358	9.518	3.604	36.972 ✓
S411	x	0.2010	29.358	9.518	3.926	36.972 ✓
S411	y	0.2010	29.358	9.518	3.233	36.972 ✓
S412	x	0.1884	17.202	6.631	1.413	22.506 ✓
S412	y	0.1256	16.055	6.631	2.099	21.359 ✓
S413	x	0.1884	17.202	6.631	1.655	22.506 ✓
S413	y	0.1256	16.055	6.631	2.345	21.359 ✓
S414	x	0.1884	17.202	6.631	1.521	22.506 ✓
S414	y	0.1256	16.055	6.631	2.339	21.359 ✓
S415	x	0.1256	16.055	6.631	2.184	21.359 ✓
S415	y	0.1884	17.202	6.631	1.613	22.506 ✓
S416	x	0.1256	16.055	6.631	2.081	21.359 ✓
S416	y	0.1884	17.202	6.631	1.468	22.506 ✓
S417	x	0.2010	29.358	9.518	3.564	36.972 ✓
S417	y	0.2010	29.358	9.518	3.330	36.972 ✓
S418	x	0.2010	29.358	9.518	3.247	36.972 ✓
S418	y	0.2010	29.358	9.518	4.159	36.972 ✓
S419	x	0.2010	29.358	9.518	3.184	36.972 ✓
S419	y	0.2010	29.358	9.518	3.201	36.972 ✓
S420	x	0.1884	17.202	6.631	1.393	22.506 ✓
S420	y	0.1256	16.055	6.631	2.312	21.359 ✓
S421	x	0.1884	17.202	6.631	1.624	22.506 ✓
S421	y	0.1256	16.055	6.631	2.522	21.359 ✓
S422	x	0.1884	17.202	6.631	1.492	22.506 ✓
S422	y	0.1256	16.055	6.631	2.420	21.359 ✓
S423	x	0.1884	17.202	6.631	1.465	22.506 ✓
S423	y	0.1256	16.055	6.631	2.286	21.359 ✓

PERDELERİN KESME GÜVENLİK KONTROLU

Vr = Ach (0.65 fctd + rsh fyd) Perde Kesme Dayanımı
Vrh = 0.22 fcd Ach Max. Beton Kesme Dayanımı
rshx = Asws.(∑ Letrx/s)/Ach rshy = Asws.(∑ Letry/s)/Ach
Vfr = μ N + fyd Asd = İş Derzi Sürtünme Kesme Dayanımı
N = Ng - Ne Min. Düşey Yük
μ = 1 (puruzlendirmis yuzey ≥5mm)



Dikdörtgen perdelerde

$$\varrho_{sh} = \frac{2 . A_{sws}}{A_{ch}} \cdot \left[\frac{L_w}{s} + \frac{2 . L_u}{s_u} \right]$$

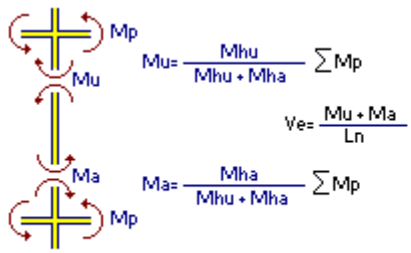
Poligon perdelerde

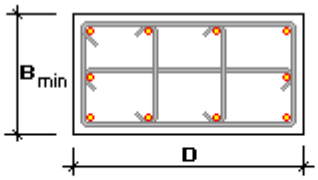
$$\varrho_{shx} = \frac{A_{sws}}{A_{ch}} \cdot \left[\sum \frac{L_{etrx}}{s} \right]$$

$$\varrho_{shy} = \frac{A_{sws}}{A_{ch}} \cdot \left[\sum \frac{L_{etry}}{s} \right]$$

$$V_r = 0{,}65 . A_{ch} . f_{ctd} + \varrho . A_{ch} . f_{yd} > V_d$$

Kolon	Yön	Ln	N	Vd	Vr	Vrh	Vfr	ACIKLAMA
								(t)
SB34	X	2.50	80.844	68.983	200.456	333.667	357.296	✓
	Y	2.50	114.189	72.511	172.934	333.667	390.641	✓
SZ34	X	2.50	64.651	59.369	200.456	333.667	357.972	✓
	Y	2.50	94.758	58.817	172.934	333.667	388.080	✓
S334	X	2.50	52.412	29.806	200.456	333.667	309.470	✓
	Y	2.50	74.158	32.504	172.934	333.667	331.215	✓
S434	X	2.50	38.903	17.687	200.456	333.667	249.599	✓
	Y	2.50	52.734	17.266	172.934	333.667	263.429	✓
S534	X	2.50	22.315	1.336	200.456	333.667	233.010	✓
	Y	2.50	30.728	7.867	172.934	333.667	241.423	✓
S634	X	2.50	4.717	1.109	200.456	333.667	215.413	✓
	Y	3.00	9.240	3.314	172.934	333.667	219.936	✓





Ln : Kolon kirişler arası serbest yüksekliği
Hk : Kolon kat yüksekliği
Fk : Kolon boyunca etriye alan toplamı
Letr : hesap doğrultusundaki etriye boylarının toplamı

$$\rho = \frac{Fk \cdot L_{etr}}{Ac \cdot Hk} \geq 0.0025$$

$$Vr = 0.65 \cdot Ac \cdot f_{ctd} + \rho \cdot Ac \cdot f_{yd} > Ve$$

Dikdörtgen kolonlarda $L_{etr} \cong D$ $Ac = B \cdot D$

$$\rho = \frac{Fk \cdot D}{B \cdot D \cdot Hk} = \frac{Fk}{B \cdot Hk}$$

$$Vr = 0.65 \cdot B \cdot D \cdot f_{ctd} + Fk \cdot D \cdot f_{yd} / Hk > Ve$$

KOLONLARIN KESME GUVENLİK KONTROLU

Kolon	+X Mp Mc Mr	-X Mp Mc Mr	+Y Mp Mc Mr	-Y Mp Mc Mr
SB07 Lnx= 2.50 Lny= 2.50 Bodrum	10.88 12.65 + Mu= 6.49 11.45 0.00 + Ma= 11.45 0.00 Ve= 7.17 Vr= 38.88 ✓	10.88 -14.71 + Mu= 7.54 11.45 0.00 + Ma= 11.45 0.00 Ve= 7.60 Vr= 38.88 ✓	10.93 12.64 + Mu= 6.45 11.40 0.00 + Ma= 11.40 0.00 Ve= 7.14 Vr= 38.88 ✓	10.93 -12.64 + Mu= 6.45 11.40 0.00 + Ma= 11.40 0.00 Ve= 7.14 Vr= 38.88 ✓
SB08 Lnx= 2.50 Lny= 2.50 Bodrum	11.17 12.65 + Mu= 6.45 11.61 0.00 + Ma= 11.61 0.00 Ve= 7.22 Vr= 38.88 ✓	11.17 -12.65 + Mu= 6.45 11.61 0.00 + Ma= 11.61 0.00 Ve= 7.22 Vr= 38.88 ✓	11.19 12.64 + Mu= 6.43 11.60 0.00 + Ma= 11.60 0.00 Ve= 7.22 Vr= 38.88 ✓	11.19 -12.64 + Mu= 6.43 11.60 0.00 + Ma= 11.60 0.00 Ve= 7.22 Vr= 38.88 ✓
SB09 Lnx= 2.50 Lny= 2.50 Bodrum	10.94 12.65 + Mu= 6.45 11.37 0.00 + Ma= 11.37 0.00 Ve= 7.13 Vr= 38.88 ✓	10.94 -12.65 + Mu= 6.45 11.37 0.00 + Ma= 11.37 0.00 Ve= 7.13 Vr= 38.88 ✓	10.48 14.70 + Mu= 7.63 11.32 0.00 + Ma= 11.32 0.00 Ve= 7.58 Vr= 38.88 ✓	10.48 -12.64 + Mu= 6.56 11.32 0.00 + Ma= 11.32 0.00 Ve= 7.15 Vr= 38.88 ✓
SB10 Lnx= 2.50 Lny= 2.50 Bodrum	10.95 12.65 + Mu= 6.49 11.54 0.00 + Ma= 11.54 0.00 Ve= 7.21 Vr= 38.88 ✓	10.95 -14.71 + Mu= 7.55 11.54 0.00 + Ma= 11.54 0.00 Ve= 7.63 Vr= 38.88 ✓	11.04 12.64 + Mu= 6.43 11.44 0.00 + Ma= 11.44 0.00 Ve= 7.15 Vr= 38.88 ✓	11.04 -12.64 + Mu= 6.43 11.44 0.00 + Ma= 11.44 0.00 Ve= 7.15 Vr= 38.88 ✓
SB11 Lnx= 2.50 Lny= 2.50 Bodrum	10.98 12.65 + Mu= 6.52 11.67 0.00 + Ma= 11.67 0.00 Ve= 7.28 Vr= 38.88 ✓	10.98 -12.65 + Mu= 6.52 11.67 0.00 + Ma= 11.67 0.00 Ve= 7.28 Vr= 38.88 ✓	11.11 12.64 + Mu= 6.45 11.59 0.00 + Ma= 11.59 0.00 Ve= 7.22 Vr= 38.88 ✓	11.11 -12.64 + Mu= 6.45 11.59 0.00 + Ma= 11.59 0.00 Ve= 7.22 Vr= 38.88 ✓
SB17 Lnx= 2.50 Lny= 2.50 Bodrum	10.83 14.71 + Mu= 7.54 11.39 0.00 + Ma= 11.39 0.00 Ve= 7.57 Vr= 38.88 ✓	10.83 -12.65 + Mu= 6.48 11.39 0.00 + Ma= 11.39 0.00 Ve= 7.15 Vr= 38.88 ✓	10.93 12.64 + Mu= 6.42 11.30 0.00 + Ma= 11.30 0.00 Ve= 7.09 Vr= 38.88 ✓	10.93 -12.64 + Mu= 6.42 11.30 0.00 + Ma= 11.30 0.00 Ve= 7.09 Vr= 38.88 ✓
SB18 Lnx= 2.50 Lny= 2.50 Bodrum	10.93 12.65 + Mu= 6.45 11.36 0.00 + Ma= 11.36 0.00 Ve= 7.13 Vr= 38.88 ✓	10.93 -12.65 + Mu= 6.45 11.36 0.00 + Ma= 11.36 0.00 Ve= 7.12 Vr= 38.88 ✓	10.46 14.70 + Mu= 7.64 11.33 0.00 + Ma= 11.33 0.00 Ve= 7.59 Vr= 38.88 ✓	10.46 -12.64 + Mu= 6.57 11.33 0.00 + Ma= 11.33 0.00 Ve= 7.16 Vr= 38.88 ✓
SB19 Lnx= 2.50 Lny= 2.50 Bodrum	10.82 14.71 + Mu= 7.54 11.38 0.00 + Ma= 11.38 0.00 Ve= 7.57 Vr= 38.88 ✓	10.82 -12.65 + Mu= 6.48 11.38 0.00 + Ma= 11.38 0.00 Ve= 7.14 Vr= 38.88 ✓	10.88 12.64 + Mu= 6.44 11.31 0.00 + Ma= 11.31 0.00 Ve= 7.10 Vr= 38.88 ✓	10.88 -12.64 + Mu= 6.44 11.31 0.00 + Ma= 11.31 0.00 Ve= 7.10 Vr= 38.88 ✓
SB25 Lnx= 2.50 Lny= 2.50 Bodrum	10.88 12.65 + Mu= 6.49 11.45 0.00 + Ma= 11.45 0.00 Ve= 7.17 Vr= 38.88 ✓	10.88 -14.71 + Mu= 7.54 11.45 0.00 + Ma= 11.45 0.00 Ve= 7.60 Vr= 38.88 ✓	10.93 12.64 + Mu= 6.45 11.40 0.00 + Ma= 11.40 0.00 Ve= 7.14 Vr= 38.88 ✓	10.93 -12.64 + Mu= 6.45 11.40 0.00 + Ma= 11.40 0.00 Ve= 7.14 Vr= 38.88 ✓
SB26 Lnx= 2.50 Lny= 2.50 Bodrum	11.17 12.65 + Mu= 6.45 11.61 0.00 + Ma= 11.61 0.00 Ve= 7.22 Vr= 38.88 ✓	11.17 -12.65 + Mu= 6.45 11.61 0.00 + Ma= 11.61 0.00 Ve= 7.22 Vr= 38.88 ✓	11.19 12.64 + Mu= 6.43 11.60 0.00 + Ma= 11.60 0.00 Ve= 7.22 Vr= 38.88 ✓	11.19 -12.64 + Mu= 6.43 11.60 0.00 + Ma= 11.60 0.00 Ve= 7.22 Vr= 38.88 ✓

KOLONLARIN KESME GUVENLİK KONTROLU

Kolon	+X Mp Mc Mr	-X Mp Mc Mr	+Y Mp Mc Mr	-Y Mp Mc Mr
SZ09 Lnx= 2.50 Lny= 2.50	10.33 12.65 + Mu= 6.51 10.94 12.65 + Ma= 6.20 11.37 Ve= 5.08 Vr= 38.88 ✓	10.33 -12.65 + Mu= 6.51 10.94 -12.65 + Ma= 6.20 11.37 Ve= 5.08 Vr= 38.88 ✓	9.96 14.70 + Mu= 7.54 10.48 14.70 + Ma= 7.07 11.32 Ve= 5.84 Vr= 38.88 ✓	9.96 -12.64 + Mu= 6.48 10.48 -12.64 + Ma= 6.07 11.32 Ve= 5.02 Vr= 38.88 ✓
SZ10 Lnx= 2.50 Lny= 2.50	10.44 12.65 + Mu= 6.48 10.95 12.65 + Ma= 6.16 11.54 Ve= 5.06 Vr= 38.88 ✓	10.44 -14.71 + Mu= 7.53 10.95 -14.71 + Ma= 7.16 11.54 Ve= 5.88 Vr= 38.88 ✓	10.48 16.65 + Mu= 8.54 11.04 12.64 + Ma= 6.21 11.44 Ve= 5.90 Vr= 38.88 ✓	10.48 -16.65 + Mu= 8.54 11.04 -12.64 + Ma= 6.21 11.44 Ve= 5.90 Vr= 38.88 ✓
SZ11 Lnx= 2.50 Lny= 2.50	10.41 14.71 + Mu= 7.55 10.98 12.65 + Ma= 6.13 11.67 Ve= 5.47 Vr= 38.88 ✓	10.41 -14.71 + Mu= 7.55 10.98 -12.65 + Ma= 6.13 11.67 Ve= 5.47 Vr= 38.88 ✓	10.52 12.64 + Mu= 6.49 11.11 12.64 + Ma= 6.19 11.59 Ve= 5.07 Vr= 38.88 ✓	10.52 -12.64 + Mu= 6.49 11.11 -12.64 + Ma= 6.19 11.59 Ve= 5.07 Vr= 38.88 ✓
SZ12 Lnx= 2.50 Lny= 2.50	4.90 7.08 + Mu= 3.71 5.39 0.00 + Ma= 0.00 3.54 Ve= 1.48 Vr= 23.83 ✓	4.90 -6.35 + Mu= 3.33 5.39 0.00 + Ma= 0.00 3.54 Ve= 1.33 Vr= 23.83 ✓	7.12 4.29 + Mu= 2.19 7.48 0.00 + Ma= 0.00 5.80 Ve= 0.88 Vr= 22.69 ✓	7.12 -8.35 + Mu= 4.28 7.48 0.00 + Ma= 0.00 5.80 Ve= 1.71 Vr= 22.69 ✓
SZ13 Lnx= 2.50 Lny= 2.50	5.17 14.70 + Mu= 5.68 5.68 0.00 + Ma= 0.00 3.73 Ve= 2.27 Vr= 23.83 ✓	5.17 -12.64 + Mu= 5.68 5.68 -0.01 + Ma= 0.00 3.73 Ve= 2.27 Vr= 23.83 ✓	7.67 4.29 + Mu= 2.20 8.07 4.29 + Ma= 2.52 5.67 Ve= 1.89 Vr= 22.69 ✓	7.67 -8.35 + Mu= 4.28 8.07 -8.35 + Ma= 4.91 5.67 Ve= 3.68 Vr= 22.69 ✓
SZ14 Lnx= 2.50 Lny= 2.50	5.52 12.64 + Mu= 6.20 6.20 0.00 + Ma= 0.00 3.80 Ve= 2.48 Vr= 23.83 ✓	5.52 -12.64 + Mu= 6.20 6.20 -0.01 + Ma= 0.00 3.80 Ve= 2.48 Vr= 23.83 ✓	7.81 4.29 + Mu= 2.19 8.20 4.29 + Ma= 2.52 5.73 Ve= 1.89 Vr= 22.69 ✓	7.81 -8.35 + Mu= 4.28 8.20 -8.35 + Ma= 4.92 5.73 Ve= 3.68 Vr= 22.69 ✓
SZ15 Lnx= 2.50 Lny= 2.50	7.73 7.92 + Mu= 4.07 8.15 7.08 + Ma= 4.28 5.32 Ve= 3.34 Vr= 22.69 ✓	7.73 -6.36 + Mu= 3.26 8.15 -6.35 + Ma= 3.84 5.32 Ve= 2.84 Vr= 22.69 ✓	5.49 12.64 + Mu= 6.09 6.09 0.00 + Ma= 0.00 3.73 Ve= 2.44 Vr= 23.83 ✓	5.49 -12.64 + Mu= 6.09 6.09 0.00 + Ma= 0.00 3.73 Ve= 2.44 Vr= 23.83 ✓
SZ16 Lnx= 2.50 Lny= 2.50	7.76 7.92 + Mu= 4.06 8.18 7.08 + Ma= 4.27 5.38 Ve= 3.33 Vr= 22.69 ✓	7.76 -6.36 + Mu= 3.26 8.18 -6.35 + Ma= 3.83 5.38 Ve= 2.84 Vr= 22.69 ✓	5.43 12.64 + Mu= 5.99 5.99 0.00 + Ma= 0.00 3.75 Ve= 2.40 Vr= 23.83 ✓	5.43 -12.64 + Mu= 5.99 5.99 0.00 + Ma= 0.00 3.75 Ve= 2.40 Vr= 23.83 ✓
SZ17 Lnx= 2.50 Lny= 2.50	10.34 16.71 + Mu= 8.55 10.83 14.71 + Ma= 7.17 11.39 Ve= 6.29 Vr= 38.88 ✓	10.34 -14.71 + Mu= 7.53 10.83 -12.65 + Ma= 6.16 11.39 Ve= 5.48 Vr= 38.88 ✓	10.39 12.64 + Mu= 6.48 10.93 12.64 + Ma= 6.22 11.30 Ve= 5.08 Vr= 38.88 ✓	10.39 -12.64 + Mu= 6.48 10.93 -12.64 + Ma= 6.22 11.30 Ve= 5.08 Vr= 38.88 ✓
SZ18 Lnx= 2.50 Lny= 2.50	10.37 12.65 + Mu= 6.49 10.93 12.65 + Ma= 6.20 11.36 Ve= 5.08 Vr= 38.88 ✓	10.37 -12.65 + Mu= 6.49 10.93 -12.65 + Ma= 6.20 11.36 Ve= 5.08 Vr= 38.88 ✓	9.93 16.70 + Mu= 8.57 10.46 14.70 + Ma= 7.06 11.33 Ve= 6.25 Vr= 38.88 ✓	9.93 -14.70 + Mu= 7.54 10.46 -12.64 + Ma= 6.07 11.33 Ve= 5.44 Vr= 38.88 ✓
SZ19 Lnx= 2.50 Lny= 2.50	10.33 16.71 + Mu= 8.55 10.82 14.71 + Ma= 7.17 11.38 Ve= 6.29 Vr= 38.88 ✓	10.33 -14.71 + Mu= 7.52 10.82 -12.65 + Ma= 6.16 11.38 Ve= 5.48 Vr= 38.88 ✓	10.33 12.64 + Mu= 6.48 10.88 12.64 + Ma= 6.20 11.31 Ve= 5.07 Vr= 38.88 ✓	10.33 -12.64 + Mu= 6.48 10.88 -12.64 + Ma= 6.20 11.31 Ve= 5.07 Vr= 38.88 ✓
SZ20 Lnx= 2.50 Lny= 2.50	4.89 6.35 + Mu= 3.33 5.37 0.00 + Ma= 0.00 3.87 Ve= 1.33 Vr= 23.83 ✓	4.89 -7.08 + Mu= 3.71 5.37 0.00 + Ma= 0.00 3.87 Ve= 1.48 Vr= 23.83 ✓	7.13 8.35 + Mu= 4.28 7.49 0.00 + Ma= 0.00 5.14 Ve= 1.71 Vr= 22.69 ✓	7.13 -6.35 + Mu= 3.25 7.49 0.00 + Ma= 0.00 5.14 Ve= 1.30 Vr= 22.69 ✓

KOLONLARIN KESME GUVENLİK KONTROLU

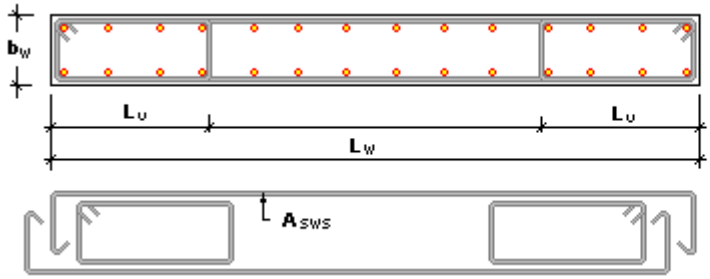
Kolon	+X Mp Mc Mr	-X Mp Mc Mr	+Y Mp Mc Mr	-Y Mp Mc Mr
S311 Lnx= 2.50 Lny= 2.50	9.57 15.44 + Mu= 8.04 10.41 14.71 + Ma= 7.16 10.98 Ve= 6.08 Vr= 38.88 ✓	9.57 -15.44 + Mu= 8.04 10.41 -14.71 + Ma= 7.16 10.98 Ve= 6.08 Vr= 38.88 ✓	9.68 16.65 + Mu= 8.67 10.52 12.64 + Ma= 6.15 11.11 Ve= 5.93 Vr= 38.88 ✓	9.68 -16.65 + Mu= 8.67 10.52 -12.64 + Ma= 6.15 11.11 Ve= 5.93 Vr= 38.88 ✓
S312 Lnx= 2.50 Lny= 2.50	4.33 7.08 + Mu= 3.76 4.90 7.08 + Ma= 3.37 5.39 Ve= 2.85 Vr= 23.83 ✓	4.33 -6.35 + Mu= 3.37 4.90 -6.35 + Ma= 3.03 5.39 Ve= 2.56 Vr= 23.83 ✓	6.41 4.29 + Mu= 2.26 7.12 4.29 + Ma= 2.09 7.48 Ve= 1.74 Vr= 22.69 ✓	6.41 -8.35 + Mu= 4.40 7.12 -8.35 + Ma= 4.07 7.48 Ve= 3.39 Vr= 22.69 ✓
S313 Lnx= 2.50 Lny= 2.50	4.60 14.70 + Mu= 5.17 5.17 14.70 + Ma= 5.17 5.68 Ve= 4.14 Vr= 23.83 ✓	4.60 -12.64 + Mu= 5.17 5.17 -12.64 + Ma= 5.17 5.68 Ve= 4.14 Vr= 23.83 ✓	7.12 6.35 + Mu= 3.29 7.67 4.29 + Ma= 2.09 8.07 Ve= 2.15 Vr= 22.69 ✓	7.12 -8.35 + Mu= 4.33 7.67 -8.35 + Ma= 4.07 8.07 Ve= 3.36 Vr= 22.69 ✓
S314 Lnx= 2.50 Lny= 2.50	4.82 12.64 + Mu= 5.52 5.52 12.64 + Ma= 5.52 6.20 Ve= 4.42 Vr= 23.83 ✓	4.82 -12.64 + Mu= 5.52 5.52 -12.64 + Ma= 5.52 6.20 Ve= 4.42 Vr= 23.83 ✓	7.31 6.35 + Mu= 3.28 7.81 4.29 + Ma= 2.09 8.20 Ve= 2.15 Vr= 22.69 ✓	7.31 -8.35 + Mu= 4.31 7.81 -8.35 + Ma= 4.08 8.20 Ve= 3.36 Vr= 22.69 ✓
S315 Lnx= 2.50 Lny= 2.50	7.15 7.92 + Mu= 4.11 7.73 7.92 + Ma= 3.85 8.15 Ve= 3.19 Vr= 22.69 ✓	7.15 -6.36 + Mu= 3.30 7.73 -6.36 + Ma= 3.09 8.15 Ve= 2.56 Vr= 22.69 ✓	4.77 12.64 + Mu= 5.49 5.49 12.64 + Ma= 5.49 6.09 Ve= 4.39 Vr= 23.83 ✓	4.77 -12.64 + Mu= 5.49 5.49 -12.64 + Ma= 5.49 6.09 Ve= 4.39 Vr= 23.83 ✓
S316 Lnx= 2.50 Lny= 2.50	7.22 7.09 + Mu= 3.67 7.76 7.92 + Ma= 3.86 8.18 Ve= 3.01 Vr= 22.69 ✓	7.22 -6.36 + Mu= 3.29 7.76 -6.36 + Ma= 3.10 8.18 Ve= 2.56 Vr= 22.69 ✓	4.75 12.64 + Mu= 5.43 5.43 12.64 + Ma= 5.43 5.99 Ve= 4.34 Vr= 23.83 ✓	4.75 -12.64 + Mu= 5.43 5.43 -12.64 + Ma= 5.43 5.99 Ve= 4.34 Vr= 23.83 ✓
S317 Lnx= 2.50 Lny= 2.50	9.54 16.71 + Mu= 10.34 10.34 16.71 + Ma= 8.16 10.83 Ve= 7.40 Vr= 38.88 ✓	9.54 -14.71 + Mu= 7.65 10.34 -14.71 + Ma= 7.18 10.83 Ve= 5.93 Vr= 38.88 ✓	9.58 12.64 + Mu= 6.58 10.39 12.64 + Ma= 6.16 10.93 Ve= 5.09 Vr= 38.88 ✓	9.58 -12.64 + Mu= 6.58 10.39 -12.64 + Ma= 6.16 10.93 Ve= 5.09 Vr= 38.88 ✓
S318 Lnx= 2.50 Lny= 2.50	9.52 12.65 + Mu= 6.59 10.37 12.65 + Ma= 6.16 10.93 Ve= 5.10 Vr= 38.88 ✓	9.52 -12.65 + Mu= 6.59 10.37 -12.65 + Ma= 6.16 10.93 Ve= 5.10 Vr= 38.88 ✓	9.14 16.70 + Mu= 8.70 9.93 16.70 + Ma= 8.14 10.46 Ve= 6.73 Vr= 38.88 ✓	9.14 -14.70 + Mu= 7.66 9.93 -14.70 + Ma= 7.16 10.46 Ve= 5.93 Vr= 38.88 ✓
S319 Lnx= 2.50 Lny= 2.50	9.54 16.71 + Mu= 10.33 10.33 16.71 + Ma= 8.16 10.82 Ve= 7.40 Vr= 38.88 ✓	9.54 -14.71 + Mu= 7.65 10.33 -14.71 + Ma= 7.18 10.82 Ve= 5.93 Vr= 38.88 ✓	9.48 12.64 + Mu= 6.59 10.33 12.64 + Ma= 6.16 10.88 Ve= 5.10 Vr= 38.88 ✓	9.48 -12.64 + Mu= 6.59 10.33 -12.64 + Ma= 6.16 10.88 Ve= 5.10 Vr= 38.88 ✓
S320 Lnx= 2.50 Lny= 2.50	4.32 6.35 + Mu= 3.37 4.89 6.35 + Ma= 3.03 5.37 Ve= 2.56 Vr= 23.83 ✓	4.32 -7.08 + Mu= 3.76 4.89 -7.08 + Ma= 3.37 5.37 Ve= 2.85 Vr= 23.83 ✓	6.40 8.35 + Mu= 4.40 7.13 8.35 + Ma= 4.07 7.49 Ve= 3.39 Vr= 22.69 ✓	6.40 -6.35 + Mu= 3.34 7.13 -6.35 + Ma= 3.09 7.49 Ve= 2.57 Vr= 22.69 ✓
S321 Lnx= 2.50 Lny= 2.50	4.60 12.65 + Mu= 5.17 5.17 12.65 + Ma= 5.17 5.67 Ve= 4.13 Vr= 23.83 ✓	4.60 -14.70 + Mu= 5.17 5.17 -14.70 + Ma= 5.17 5.67 Ve= 4.13 Vr= 23.83 ✓	7.13 9.06 + Mu= 4.70 7.69 9.06 + Ma= 4.41 8.11 Ve= 3.65 Vr= 22.69 ✓	7.13 -6.35 + Mu= 3.29 7.69 -6.35 + Ma= 3.09 8.11 Ve= 2.55 Vr= 22.69 ✓
S322 Lnx= 2.50 Lny= 2.50	4.88 12.64 + Mu= 5.60 5.60 12.64 + Ma= 5.60 6.18 Ve= 4.48 Vr= 23.83 ✓	4.88 -12.64 + Mu= 5.60 5.60 -12.64 + Ma= 5.60 6.18 Ve= 4.48 Vr= 23.83 ✓	7.30 8.35 + Mu= 4.32 7.81 8.35 + Ma= 4.07 8.21 Ve= 3.36 Vr= 22.69 ✓	7.30 -6.35 + Mu= 3.28 7.81 -6.35 + Ma= 3.09 8.21 Ve= 2.55 Vr= 22.69 ✓

KOLONLARIN KESME GUVENLİK KONTROLU

Kolon	+X Mp Mc Mr	-X Mp Mc Mr	+Y Mp Mc Mr	-Y Mp Mc Mr
S413 Lnx= 2.50 Lny= 2.50	3.95 14.70 ┼ Mu= 7.90 4.60 14.70 ┼ Ma= 4.60 5.17 Ve= 5.00 Vr= 23.83 ✓	3.95 -12.64 ┼ Mu= 6.80 4.60 -12.64 ┼ Ma= 4.60 5.17 Ve= 4.56 Vr= 23.83 ✓	5.99 4.29 ┼ Mu= 2.33 7.12 6.35 ┼ Ma= 3.06 7.67 Ve= 2.15 Vr= 22.69 ✓	5.99 -8.35 ┼ Mu= 4.54 7.12 -8.35 ┼ Ma= 4.02 7.67 Ve= 3.42 Vr= 22.69 ✓
S414 Lnx= 2.50 Lny= 2.50	4.06 12.64 ┼ Mu= 6.87 4.82 12.64 ┼ Ma= 4.82 5.52 Ve= 4.68 Vr= 23.83 ✓	4.06 -12.64 ┼ Mu= 6.87 4.82 -12.64 ┼ Ma= 4.82 5.52 Ve= 4.68 Vr= 23.83 ✓	6.14 4.29 ┼ Mu= 2.33 7.31 6.35 ┼ Ma= 3.07 7.81 Ve= 2.16 Vr= 22.69 ✓	6.14 -8.35 ┼ Mu= 4.54 7.31 -8.35 ┼ Ma= 4.04 7.81 Ve= 3.43 Vr= 22.69 ✓
S415 Lnx= 2.50 Lny= 2.50	6.00 7.09 ┼ Mu= 3.86 7.15 7.92 ┼ Ma= 3.81 7.73 Ve= 3.07 Vr= 22.69 ✓	6.00 -6.36 ┼ Mu= 3.46 7.15 -6.36 ┼ Ma= 3.06 7.73 Ve= 2.61 Vr= 22.69 ✓	3.95 12.64 ┼ Mu= 6.92 4.77 12.64 ┼ Ma= 4.77 5.49 Ve= 4.68 Vr= 23.83 ✓	3.95 -12.64 ┼ Mu= 6.92 4.77 -12.64 ┼ Ma= 4.77 5.49 Ve= 4.68 Vr= 23.83 ✓
S416 Lnx= 2.50 Lny= 2.50	6.03 7.09 ┼ Mu= 3.86 7.22 7.09 ┼ Ma= 3.41 7.76 Ve= 2.91 Vr= 22.69 ✓	6.03 -6.36 ┼ Mu= 3.46 7.22 -6.36 ┼ Ma= 3.06 7.76 Ve= 2.61 Vr= 22.69 ✓	4.01 12.64 ┼ Mu= 6.85 4.75 12.64 ┼ Ma= 4.75 5.43 Ve= 4.64 Vr= 23.83 ✓	4.01 -12.64 ┼ Mu= 6.85 4.75 -12.64 ┼ Ma= 4.75 5.43 Ve= 4.64 Vr= 23.83 ✓
S417 Lnx= 2.50 Lny= 2.50	8.49 14.71 ┼ Mu= 7.79 9.54 16.71 ┼ Ma= 9.54 10.34 Ve= 6.93 Vr= 38.88 ✓	8.49 -12.65 ┼ Mu= 6.69 9.54 -14.71 ┼ Ma= 7.06 10.34 Ve= 5.50 Vr= 38.88 ✓	8.49 12.64 ┼ Mu= 6.70 9.58 12.64 ┼ Ma= 6.06 10.39 Ve= 5.10 Vr= 38.88 ✓	8.49 -12.64 ┼ Mu= 6.70 9.58 -12.64 ┼ Ma= 6.06 10.39 Ve= 5.10 Vr= 38.88 ✓
S418 Lnx= 2.50 Lny= 2.50	8.44 12.65 ┼ Mu= 6.71 9.52 12.65 ┼ Ma= 6.06 10.37 Ve= 5.11 Vr= 38.88 ✓	8.44 -12.65 ┼ Mu= 6.71 9.52 -12.65 ┼ Ma= 6.06 10.37 Ve= 5.11 Vr= 38.88 ✓	8.19 16.70 ┼ Mu= 8.81 9.14 16.70 ┼ Ma= 8.00 9.93 Ve= 6.73 Vr= 38.88 ✓	8.19 -14.70 ┼ Mu= 7.75 9.14 -14.70 ┼ Ma= 7.04 9.93 Ve= 5.92 Vr= 38.88 ✓
S419 Lnx= 2.50 Lny= 2.50	8.49 16.71 ┼ Mu= 8.84 9.54 16.71 ┼ Ma= 9.54 10.33 Ve= 7.35 Vr= 38.88 ✓	8.49 -14.71 ┼ Mu= 7.78 9.54 -14.71 ┼ Ma= 7.06 10.33 Ve= 5.94 Vr= 38.88 ✓	8.40 12.64 ┼ Mu= 6.70 9.48 12.64 ┼ Ma= 6.05 10.33 Ve= 5.10 Vr= 38.88 ✓	8.40 -12.64 ┼ Mu= 6.70 9.48 -12.64 ┼ Ma= 6.05 10.33 Ve= 5.10 Vr= 38.88 ✓
S420 Lnx= 2.50 Lny= 2.50	3.74 6.35 ┼ Mu= 3.41 4.32 6.35 ┼ Ma= 2.98 4.89 Ve= 2.55 Vr= 23.83 ✓	3.74 -7.08 ┼ Mu= 3.80 4.32 -7.08 ┼ Ma= 3.32 4.89 Ve= 2.85 Vr= 23.83 ✓	5.57 8.35 ┼ Mu= 4.47 6.40 8.35 ┼ Ma= 3.95 7.13 Ve= 3.37 Vr= 22.69 ✓	5.57 -4.29 ┼ Mu= 2.29 6.40 -6.35 ┼ Ma= 3.00 7.13 Ve= 2.12 Vr= 22.69 ✓
S421 Lnx= 2.50 Lny= 2.50	3.95 12.64 ┼ Mu= 6.80 4.60 12.65 ┼ Ma= 4.60 5.17 Ve= 4.56 Vr= 23.83 ✓	3.95 -14.70 ┼ Mu= 7.90 4.60 -14.70 ┼ Ma= 4.60 5.17 Ve= 5.00 Vr= 23.83 ✓	5.99 8.35 ┼ Mu= 4.54 7.13 9.06 ┼ Ma= 4.36 7.69 Ve= 3.56 Vr= 22.69 ✓	5.99 -4.29 ┼ Mu= 2.33 7.13 -6.35 ┼ Ma= 3.05 7.69 Ve= 2.15 Vr= 22.69 ✓
S422 Lnx= 2.50 Lny= 2.50	4.08 12.64 ┼ Mu= 6.89 4.88 12.64 ┼ Ma= 4.88 5.60 Ve= 4.71 Vr= 23.83 ✓	4.08 -12.64 ┼ Mu= 6.88 4.88 -12.64 ┼ Ma= 4.88 5.60 Ve= 4.71 Vr= 23.83 ✓	6.13 8.35 ┼ Mu= 4.54 7.30 8.35 ┼ Ma= 4.03 7.81 Ve= 3.43 Vr= 22.69 ✓	6.13 -4.29 ┼ Mu= 2.33 7.30 -6.35 ┼ Ma= 3.07 7.81 Ve= 2.16 Vr= 22.69 ✓
S423 Lnx= 2.50 Lny= 2.50	4.10 12.64 ┼ Mu= 6.89 4.90 12.64 ┼ Ma= 4.90 5.62 Ve= 4.71 Vr= 23.83 ✓	4.10 -12.64 ┼ Mu= 6.88 4.90 -12.64 ┼ Ma= 4.90 5.62 Ve= 4.71 Vr= 23.83 ✓	6.16 8.35 ┼ Mu= 4.54 7.32 8.35 ┼ Ma= 4.04 7.82 Ve= 3.43 Vr= 22.69 ✓	6.16 -4.29 ┼ Mu= 2.33 7.32 -6.35 ┼ Ma= 3.07 7.82 Ve= 2.16 Vr= 22.69 ✓
S424 Lnx= 2.50 Lny= 2.50	5.98 6.36 ┼ Mu= 3.46 7.14 6.36 ┼ Ma= 3.05 7.72 Ve= 2.60 Vr= 22.69 ✓	5.98 -7.09 ┼ Mu= 3.86 7.14 -7.92 ┼ Ma= 3.81 7.72 Ve= 3.06 Vr= 22.69 ✓	3.95 12.64 ┼ Mu= 6.79 4.58 12.64 ┼ Ma= 4.58 5.14 Ve= 4.55 Vr= 23.83 ✓	3.95 -12.64 ┼ Mu= 6.79 4.58 -12.64 ┼ Ma= 4.58 5.14 Ve= 4.55 Vr= 23.83 ✓

PERDELERİN KESME GÜVENLİK KONTROLU

Vr = Ach (0.65 fctd + rsh fyd) Perde Kesme Dayanımı
Vrh = 0.22 fcd Ach Max. Beton Kesme Dayanımı
rshx = Asws.(∑ Letrx/s)/Ach rshy = Asws.(∑ Letry/s)/Ach
Vfr = μ N + fyd Asd = İş Derzi Sürtünme Kesme Dayanımı
N = Ng - Ne Min. Düşey Yük
μ = 1 (puruzlendirmis yuzey ≥5mm)



Dikdörtgen perdelerde

$$\varrho_{sh} = \frac{2 . A_{sws}}{A_{ch}} \cdot \left[\frac{L_w}{s} + \frac{2 . L_u}{s_u} \right]$$

Poligon perdelerde

$$\varrho_{shx} = \frac{A_{sws}}{A_{ch}} \cdot \left[\sum \frac{L_{etrx}}{s} \right]$$

$$\varrho_{shy} = \frac{A_{sws}}{A_{ch}} \cdot \left[\sum \frac{L_{etry}}{s} \right]$$

$$V_r = 0{,}65 . A_{ch} . f_{ctd} + \varrho . A_{ch} . f_{yd} > V_d$$

Kolon	Yön	Ln	N	Vd	Vr	Vrh	Vfr	ACIKLAMA (t)
SB34	X	2.50	80.844	68.983	200.456	333.667	357.296	✓
	Y	2.50	114.189	72.511	172.934	333.667	390.641	✓
SZ34	X	2.50	64.651	59.369	200.456	333.667	357.972	✓
	Y	2.50	94.758	58.817	172.934	333.667	388.080	✓
S334	X	2.50	52.412	29.806	200.456	333.667	309.470	✓
	Y	2.50	74.158	32.504	172.934	333.667	331.215	✓
S434	X	2.50	38.903	17.687	200.456	333.667	249.599	✓
	Y	2.50	52.734	17.266	172.934	333.667	263.429	✓
S534	X	2.50	22.315	1.336	200.456	333.667	233.010	✓
	Y	2.50	30.728	7.867	172.934	333.667	241.423	✓
S634	X	2.50	4.717	1.109	200.456	333.667	215.413	✓
	Y	3.00	9.240	3.314	172.934	333.667	219.936	✓