

Müşteri: ALKILIÇ KENTSEL DÖNÜŞÜM

Yer: LEVENT

Yorum:

DARÇO VAHE MARUKOĞLU DONATI TESPİT SONUCU  
ZEMİN KAT / C-BLOK  
DİKEY DONATI 20  
ETRIYE 10  
ETRIYE ARALIĞI 18-25cm  
OLARAK ÖLÇÜLMÜŞTÜR

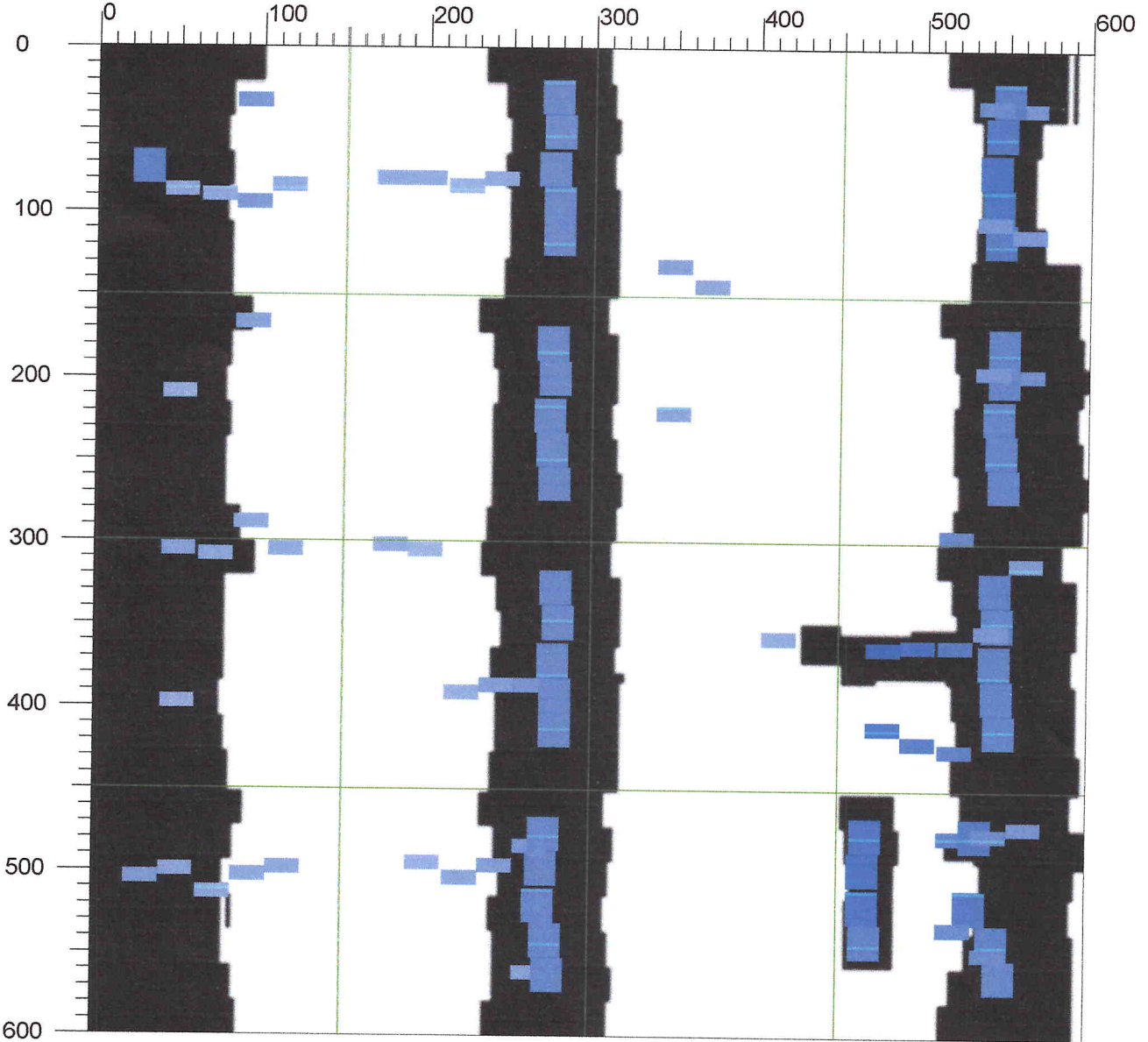
Operatör: BURCU DENİZ

Dosya deposu:

Proje:

DARÇO VAHE MARUKOĞLU

\\Users\17\Desktop\FABRIKA\C-BLOK\6.XFF



Müşteri: ALKILIÇ KENTSEL DÖNÜŞÜM

Yer: LEVENT

Operatör: BURCU DENİZ

Yorum:

DARÇO VAHE MARUKOĞLU DONATI TESPİT SONUCU  
ZEMİN KAT / C-BLOK  
DİKEY DONATI 20  
ETRİYE 10  
ETRİYE ARALIĞI 18-25cm  
OLARAK ÖLÇÜLMÜŞTÜR

## Kesme Kuvveti Değerlendirmesi - 1. KAT

Eleman Uç	Yön	Vr				D.1				D.2									
		V22u [tf]	V33u [tf]	Ve [tf]	Vr [tf]	Mafsalsal	Mpk22 [tfm]	Mpk33 [tfm]	M22k [tfm]	M33k [tfm]	V22e [tf]	V33e [tf]	M22kr [tfm]	M33kr [tfm]	Nk [tf]	ζ	Ve [tf]	Vr [tf]	
As33=3.93 cm <sup>2</sup>	-EY	117.49	117.49	15.73	117.49	Kiriş	-0.47	39.81	-0.25	31.52	11.15	0.24	-0.25	31.52	-268.24	1.00	11.16	117.49	
S105	+EX	106.30	106.30	15.37	106.30	Kiriş	-21.59	17.11	-8.42	5.05	5.11	7.33	-8.42	5.05	-192.02	1.00	8.94	106.30	
Alt	-EX	106.30	106.30	10.96	106.30	Kiriş	36.19	-12.12	14.11	-3.58	3.52	12.27	14.11	-3.58	-190.52	1.00	12.77	106.30	
In22=3 m	+EY	106.30	106.30	9.94	106.30	Kiriş	36.19	-12.12	2.03	-8.13	5.13	11.62	2.03	-8.13	-195.87	1.00	12.70	106.30	
In33=3 m	-EY	106.30	106.30	5.87	106.30	Kiriş	-21.59	17.11	-1.21	11.47	7.39	6.95	-1.21	11.47	-186.66	1.00	10.14	106.30	
S105	+EX	106.30	106.30	15.37	106.30	Kiriş	-22.12	16.28	-13.59	10.28	5.11	7.33	-13.59	10.28	-187.61	1.00	8.94	106.30	
Üst	-EX	106.30	106.30	10.96	106.30	Kiriş	36.98	-11.06	22.71	-6.98	3.52	12.27	22.71	-6.98	-186.11	1.00	12.77	106.30	
As22=3.93 cm <sup>2</sup>	+EY	106.30	106.30	9.94	106.30	Kiriş	36.98	-11.06	32.83	-7.26	5.13	11.62	32.83	-7.26	-191.46	1.00	12.70	106.30	
As33=3.93 cm <sup>2</sup>	-EY	106.30	106.30	5.87	106.30	Kiriş	-22.12	16.28	-19.64	10.69	7.39	6.95	-19.64	10.69	-182.25	1.00	10.14	106.30	
S116	+EX	106.30	106.30	11.59	106.30	Kiriş	5.70	25.75	2.03	7.97	8.15	6.21	2.03	7.97	-198.36	1.00	10.25	106.30	
Alt	-EX	106.30	106.30	13.94	106.30	Kiriş	-1.90	-27.47	-0.68	-8.50	9.00	6.73	-0.68	-8.50	-198.48	1.00	11.24	106.30	
In22=3 m	+EY	106.30	106.30	6.11	106.30	Kiriş	22.08	25.75	3.44	17.67	11.72	8.62	3.44	17.67	-194.59	1.00	14.55	106.30	
In33=3 m	-EY	106.30	106.30	4.85	106.30	Kiriş	-18.28	-27.47	-2.84	-18.85	12.82	7.31	-2.84	-18.85	-202.25	1.00	14.76	106.30	
S116	+EX	106.30	106.30	11.59	106.30	Kiriş	-19.75	26.36	-16.61	16.49	8.15	6.21	-16.61	16.49	-193.95	1.00	10.25	106.30	
Üst	-EX	106.30	106.30	13.94	106.30	Kiriş	23.21	-29.57	19.51	-18.49	9.00	6.73	19.51	-18.49	-194.07	1.00	11.24	106.30	
As22=3.93 cm <sup>2</sup>	+EY	106.30	106.30	6.11	106.30	Kiriş	23.21	26.36	22.41	17.49	11.72	8.62	22.41	17.49	-190.18	1.00	14.55	106.30	
As33=3.93 cm <sup>2</sup>	-EY	106.30	106.30	4.85	106.30	Kiriş	-19.75	-29.57	-19.08	-19.61	12.82	7.31	-19.08	-19.61	-197.84	1.00	14.76	106.30	
S110	+EX	117.49	117.49	13.66	117.49	Kiriş	-14.08	37.89	-7.89	11.01	11.68	4.46	-7.89	11.01	-258.90	1.00	12.50	117.49	
Alt	-EX	117.49	117.49	16.78	117.49	Kiriş	12.37	-41.77	6.93	-12.14	13.42	3.92	6.93	-12.14	-259.09	1.00	13.98	117.49	
In22=3 m	+EY	117.49	117.49	8.91	117.49	Kiriş	12.37	1.94	0.11	1.62	1.21	3.55	0.11	1.62	-258.93	1.00	3.75	117.49	
In33=3 m	-EY	117.49	117.49	10.48	117.49	Kiriş	-14.08	-5.82	-0.12	-4.87	3.63	4.04	-0.12	-4.87	-259.06	1.00	5.44	117.49	
S110	+EX	117.49	117.49	13.66	117.49	Kiriş	-14.94	37.94	-5.51	24.03	11.68	4.46	-5.51	24.03	-253.83	1.00	12.50	117.49	
Üst	-EX	117.49	117.49	16.78	117.49	Kiriş	13.12	-44.40	4.83	-28.12	13.42	3.92	4.83	-28.12	-254.02	1.00	13.98	117.49	
As22=3.93 cm <sup>2</sup>	+EY	117.49	117.49	8.91	117.49	Kiriş	13.12	3.23	10.54	2.01	1.21	3.55	10.54	2.01	-253.86	1.00	3.75	117.49	
As33=3.93 cm <sup>2</sup>	-EY	117.49	117.49	10.48	117.49	Kiriş	-14.94	-9.69	-12.01	-6.03	3.63	4.04	-12.01	-6.03	-253.99	1.00	5.44	117.49	
S104	+EX	106.30	106.30	12.38	106.30	Kiriş	2.87	22.72	0.09	7.18	7.08	0.96	0.09	7.18	-209.54	1.00	7.15	106.30	
Alt	-EX	106.30	106.30	14.42	106.30	Kiriş	-8.60	-26.01	-0.28	-8.22	8.39	2.88	-0.28	-8.22	-209.89	1.00	8.87	106.30	
In22=3 m	+EY	106.30	106.30	4.92	106.30	Kiriş	15.74	-26.01	2.41	-17.86	11.84	3.48	2.41	-17.86	-213.62	1.00	12.34	106.30	
In33=3 m	-EY	106.30	106.30	6.04	106.30	Kiriş	-21.47	22.72	-3.28	15.60	10.08	1.99	-3.28	15.60	-205.81	1.00	10.28	106.30	
S104	+EX	106.30	106.30	12.38	106.30	Kiriş	2.82	22.27	2.79	14.07	7.08	0.96	2.79	14.07	-205.13	1.00	7.15	106.30	
Üst	-EX	106.30	106.30	14.42	106.30	Kiriş	-8.46	-26.83	-8.36	-16.95	8.39	2.88	-8.36	-16.95	-205.48	1.00	8.87	106.30	
As22=3.93 cm <sup>2</sup>	+EY	106.30	106.30	4.92	106.30	Kiriş	-8.46	-26.83	-8.03	-17.65	11.84	3.48	-8.03	-17.65	-209.21	1.00	12.34	106.30	
As33=3.93 cm <sup>2</sup>	-EY	106.30	106.30	6.04	106.30	Kiriş	2.82	22.27	2.68	14.65	10.08	1.99	2.68	14.65	-201.40	1.00	10.28	106.30	
S115	+EX	106.30	106.30	11.43	106.30	Kiriş	22.40	26.63	9.77	8.25	8.27	4.43	9.77	8.25	-202.29	1.00	9.38	106.30	
Alt	-EX	106.30	106.30	14.12	106.30	Kiriş	-18.25	-29.25	-7.96	-9.06	9.30	3.04	-7.96	-9.06	-202.14	1.00	9.78	106.30	
In22=3 m	+EY	106.30	106.30	5.71	106.30	Kiriş	22.40	26.63	3.74	18.29	11.93	8.66	3.74	18.29	-198.60	1.00	14.74	106.30	
In33=3 m	-EY	106.30	106.30	4.74	106.30	Kiriş	-18.25	-29.25	-3.05	-20.09	13.33	7.20	-3.05	-20.09	-205.83	1.00	15.15	106.30	
S115	+EX	106.30	106.30	11.43	106.30	Kiriş	5.79	26.46	3.51	16.55	8.27	4.43	3.51	16.55	-197.88	1.00	9.38	106.30	
Üst	-EX	106.30	106.30	14.12	106.30	Kiriş	-1.93	-30.11	-1.17	-18.84	9.30	3.04	-1.17	-18.84	-197.73	1.00	9.78	106.30	
As22=3.93 cm <sup>2</sup>	+EY	106.30	106.30	5.71	106.30	Kiriş	23.29	26.46	22.24	17.49	11.93	8.66	22.24	17.49	-194.19	1.00	14.74	106.30	
As33=3.93 cm <sup>2</sup>	-EY	106.30	106.30	4.74	106.30	Kiriş	-19.43	-30.11	-18.55	-19.91	13.33	7.20	-18.55	-19.91	-201.42	1.00	15.15	106.30	
S109	+EX	117.49	117.49	13.73	117.49	Kiriş	12.42	42.25	4.13	12.28	12.97	2.64	4.13	12.28	-252.05	1.00	13.24	117.49	
Alt	-EX	117.49	117.49	16.69	117.49	Kiriş	-13.97	-44.56	-4.65	-12.95	14.10	2.70	-4.65	-12.95	-251.95	1.00	14.35	117.49	
In22=3 m	+EY	117.49	117.49	9.15	117.49	Kiriş	12.42	-44.56	0.22	-15.18	10.51	3.62	0.22	-15.18	-252.00	1.00	11.12	117.49	
In33=3 m	-EY	117.49	117.49	9.28	117.49	Kiriş	-13.97	42.25	-0.25	14.39	9.74	3.99	-0.25	14.39	-251.99	1.00	10.53	117.49	
S109	+EX	117.49	117.49	13.73	117.49	Kiriş	-14.71	42.03	-3.79	26.63	12.97	2.64	-3.79	26.63	-246.98	1.00	13.24	117.49	
Üst	-EX	117.49	117.49	16.69	117.49	Kiriş	13.34	-46.31	3.44	-29.35	14.10	2.70	3.44	-29.35	-246.88	1.00	14.35	117.49	
As22=3.93 cm <sup>2</sup>	+EY	117.49	117.49	9.15	117.49	Kiriş	13.34	-46.31	10.63	-16.35	10.51	3.62	10.63	-16.35	-246.94	1.00	11.12	117.49	
As33=3.93 cm <sup>2</sup>	-EY	117.49	117.49	9.28	117.49	Kiriş	-14.71	42.03	-11.72	14.84	9.74	3.99	-11.72	14.84	-246.93	1.00	10.53	117.49	
S103	+EX	106.30	106.30	12.57	106.30	Kiriş	26.28	8.44	8.25	3.80	6.90	8.35	8.25	3.80	-199.73	1.00	10.83	106.30	
Alt	-EX	106.30	106.30	14.16	106.30	Kiriş	-27.25	-2.81	-8.56	-1.27	4.72	8.92	-8.56	-1.27	-199.60	1.00	10.09	106.30	
In22=3 m	+EY	106.30	106.30	4.10	106.30	Kiriş	-27.25	-16.04	-18.74	-2.74	6.39	12.57	-18.74	-2.74	-203.27	1.00	14.11	106.30	
In33=3 m	-EY	106.30	106.30	6.07	106.30	Kiriş	26.28	21.67	18.07	3.70	8.42	11.86	18.07	3.70	-196.06	1.00	14.54	106.30	
S103	+EX	106.30	106.30	12.57	106.30	Kiriş	26.60	22.68	16.79	16.90	6.90	8.35	16.79	16.90	-195.32	1.00	10.83	106.30	
Üst	-EX	106.30	106.30	14.16	106.30	Kiriş	-28.84	-17.30	-18.21	-12.90	4.72	8.92	-18.21	-12.90	-195.19	1.00	10.09	106.30	
As22=3.93 cm <sup>2</sup>	+EY	106.30	106.30	4.10	106.30	Kiriş	-28.84	-17.30	-18.98	-16.44	6.39	12.57	-18.98	-16.44	-198.86	1.00	14.11	106.30	
As33=3.93 cm <sup>2</sup>	-EY	106.30	106.30	6.07	106.30	Kiriş	26.60	22.68	17.50	21.54									

## Kesme Kuvveti Değerlendirmesi - 1. KAT

Eleman Uç	Yön	Vr		D.1		D.2												
		V22u [tf]	V33u [tf]	Ve [tf]	Vr [tf]	Mafsals	Mpk22 [tfm]	Mpk33 [tfm]	M22k [tfm]	M33k [tfm]	V22e [tf]	V33e [tf]	M22kr [tfm]	M33kr [tfm]	Nk [tf]	ζ	Ve [tf]	Vr [tf]
In22=3 m	+EY	106.30	106.30	5.64	106.30	Kiriş	22.56	26.32	2.78	17.76	11.99	8.18	2.78	17.76	-200.52	1.00	14.51	106.30
In33=3 m	-EY	106.30	106.30	5.54	106.30	Kiriş	-18.10	-28.96	-2.23	-19.54	13.43	6.66	-2.23	-19.54	-207.53	1.00	14.99	106.30
S114	+EX	106.30	106.30	10.99	106.30	Kiriş	-2.19	26.78	-0.71	16.82	8.25	0.55	-0.71	16.82	-199.03	1.00	8.27	106.30
Üst	-EX	106.30	106.30	13.87	106.30	Kiriş	6.58	-30.54	2.12	-19.18	9.30	1.64	2.12	-19.18	-200.20	1.00	9.44	106.30
As22=3.93 cm <sup>2</sup>	+EY	106.30	106.30	5.64	106.30	Kiriş	23.70	26.78	21.78	18.20	11.99	8.18	21.78	18.20	-196.11	1.00	14.51	106.30
As33=3.93 cm <sup>2</sup>	-EY	106.30	106.30	5.54	106.30	Kiriş	-19.31	-30.54	-17.75	-20.75	13.43	6.66	-17.75	-20.75	-203.12	1.00	14.99	106.30
S102	+EX	106.30	106.30	12.02	106.30	Kiriş	26.90	-16.11	8.26	-4.85	3.30	8.50	8.26	-4.85	-202.98	1.00	9.12	106.30
Alt	-EX	106.30	106.30	14.06	106.30	Kiriş	-28.75	21.78	-8.83	6.56	2.75	9.30	-8.83	6.56	-204.07	1.00	9.69	106.30
In22=3 m	+EY	106.30	106.30	5.02	106.30	Kiriş	-28.75	-16.11	-19.32	-2.06	6.03	13.21	-19.32	-2.06	-207.02	1.00	14.52	106.30
In33=3 m	-EY	106.30	106.30	5.95	106.30	Kiriş	26.90	21.78	18.07	2.78	7.93	12.15	18.07	2.78	-200.04	1.00	14.50	106.30
S102	+EX	106.30	106.30	12.02	106.30	Kiriş	27.20	8.11	17.25	5.05	3.30	8.50	17.25	5.05	-198.57	1.00	9.12	106.30
Üst	-EX	106.30	106.30	14.06	106.30	Kiriş	-30.06	-2.70	-19.06	-1.68	2.75	9.30	-19.06	-1.68	-199.66	1.00	9.69	106.30
As22=3.93 cm <sup>2</sup>	+EY	106.30	106.30	5.02	106.30	Kiriş	-30.06	-17.51	-20.30	-16.04	6.03	13.21	-20.30	-16.04	-202.61	1.00	14.52	106.30
As33=3.93 cm <sup>2</sup>	-EY	106.30	106.30	5.95	106.30	Kiriş	27.20	22.91	18.37	21.00	7.93	12.15	18.37	21.00	-195.63	1.00	14.50	106.30
S113	+EX	87.37	90.19	6.63	89.19	Kiriş	1.28	-2.23	0.36	-1.28	0.79	0.37	0.36	-1.28	-171.47	1.00	0.87	87.86
Alt	-EX	87.37	90.19	7.76	89.67	Kiriş	-3.84	6.70	-1.07	3.84	2.36	1.10	-1.07	3.84	-185.12	1.00	2.61	87.86
In22=3 m	+EY	87.37	90.19	6.38	87.68	Kiriş	1.28	-2.23	0.62	-0.47	0.83	0.39	0.62	-0.47	-170.63	1.00	0.91	87.87
In33=3 m	-EY	87.37	90.19	13.19	87.38	Kiriş	-3.84	6.70	-1.87	1.40	2.48	1.17	-1.87	1.40	-185.96	1.00	2.74	87.87
S113	+EX	87.37	90.19	6.63	89.19	Kiriş	1.14	-2.58	0.75	-1.08	0.79	0.37	0.75	-1.08	-167.69	1.00	0.87	87.86
Üst	-EX	87.37	90.19	7.76	89.67	Kiriş	-3.41	7.74	-2.24	3.24	2.36	1.10	-2.24	3.24	-181.34	1.00	2.61	87.86
As22=3.14 cm <sup>2</sup>	+EY	87.37	90.19	6.38	87.68	Kiriş	1.14	-2.58	0.55	-2.01	0.83	0.39	0.55	-2.01	-166.85	1.00	0.91	87.87
As33=3.93 cm <sup>2</sup>	-EY	87.37	90.19	13.19	87.38	Kiriş	-3.41	7.74	-1.64	6.02	2.48	1.17	-1.64	6.02	-182.18	1.00	2.74	87.87
S107	+EX	87.38	90.20	8.11	90.20	Kiriş	47.81	-21.22	13.13	-0.05	5.29	14.76	13.13	-0.05	-242.82	1.00	15.68	89.86
Alt	-EX	87.38	90.20	5.53	90.18	Kiriş	-48.16	22.27	-13.22	0.06	5.49	14.37	-13.22	0.06	-257.96	1.00	15.38	89.82
In22=3 m	+EY	87.38	90.20	18.18	87.39	Kiriş	-48.16	-21.22	-17.78	-7.07	7.33	6.53	-17.78	-7.07	-250.40	1.00	9.82	88.59
In33=3 m	-EY	87.38	90.20	18.63	87.39	Kiriş	47.81	22.27	17.65	7.42	7.62	6.09	17.65	7.42	-250.38	1.00	9.75	88.44
S107	+EX	87.38	90.20	8.11	90.19	Kiriş	48.21	-22.08	31.15	-15.83	5.29	14.76	31.15	-15.83	-239.04	1.00	15.68	89.86
Üst	-EX	87.38	90.20	5.53	90.18	Kiriş	-46.26	22.88	-29.89	16.40	5.49	14.37	-29.89	16.40	-254.18	1.00	15.38	89.82
As22=3.14 cm <sup>2</sup>	+EY	87.38	90.20	18.18	87.39	Kiriş	2.92	-22.08	1.82	-14.91	7.33	6.53	1.82	-14.91	-246.62	1.00	9.82	88.59
As33=3.93 cm <sup>2</sup>	-EY	87.38	90.20	18.63	87.39	Kiriş	-0.97	22.88	-0.61	15.44	7.62	6.09	-0.61	15.44	-246.60	1.00	9.75	88.44
S101	+EX	87.37	90.19	6.74	89.36	Kiriş	26.17	-19.19	7.55	-3.78	5.68	8.45	7.55	-3.78	-169.06	1.00	10.18	89.29
Alt	-EX	87.37	90.19	8.02	89.82	Kiriş	-28.75	15.60	-8.29	3.07	4.50	9.18	-8.29	3.07	-182.94	1.00	10.22	89.62
In22=3 m	+EY	87.37	90.19	12.76	87.38	Kiriş	-3.88	-5.39	-1.90	-1.11	2.09	1.16	-1.90	-1.11	-183.68	1.00	2.39	88.01
In33=3 m	-EY	87.37	90.19	6.69	87.66	Kiriş	1.29	1.80	0.63	0.37	0.70	0.39	0.63	0.37	-168.32	1.00	0.80	88.01
S101	+EX	87.37	90.19	6.74	89.36	Kiriş	26.79	-20.78	17.81	-13.25	5.68	8.45	17.81	-13.25	-165.28	1.00	10.18	89.29
Üst	-EX	87.37	90.19	8.02	89.82	Kiriş	-28.94	16.35	-19.24	10.43	4.50	9.18	-19.24	10.43	-179.16	1.00	10.22	89.62
As22=3.14 cm <sup>2</sup>	+EY	87.37	90.19	12.76	87.38	Kiriş	-3.23	-6.64	-1.57	-5.16	2.09	1.16	-1.57	-5.16	-179.90	1.00	2.39	88.01
As33=3.93 cm <sup>2</sup>	-EY	87.37	90.19	6.69	87.66	Kiriş	1.08	2.21	0.52	1.72	0.70	0.39	0.52	1.72	-164.54	1.00	0.80	88.01

## Yapı Risk Değerlendirmesi - 1. KAT

Eleman	Eleman Durumları				Kesme Kuvvetleri			
	Elastisite Modülü [tf/m <sup>2</sup> ]	Eksenel Kuvvet [tf]	Eksenel Basınç Gerilmesi [tf/m <sup>2</sup> ]	Sınır Dahilinde	+EX [tf]	-EX [tf]	+EY [tf]	-EY [tf]
S118	2527734.37	134.14	319.38	✓	13.01	13.01	10.21	10.21
S112	2527734.37	166.14	316.45	✓	17.62	17.62	21.66	21.66
S106	2527734.37	94.51	192.89	✓	12.51	12.51	10.90	10.90
S117	2527734.37	215.14	439.06	✓	25.29	25.29	10.04	10.04
S111	2527734.37	272.51	484.46	✓	31.82	31.82	22.48	22.48
S105	2527734.37	191.27	390.35	✓	25.16	25.16	12.67	12.67
S116	2527734.37	198.42	404.93	✓	25.36	25.36	8.94	8.94
S110	2527734.37	258.99	460.43	✓	30.40	30.40	19.14	19.14
S104	2527734.37	209.72	427.99	✓	26.68	26.68	9.08	9.08
S115	2527734.37	202.21	412.68	✓	25.38	25.38	8.15	8.15
S109	2527734.37	252.00	447.99	✓	30.42	30.42	18.19	18.19
S103	2527734.37	199.67	407.48	✓	26.50	26.50	8.03	8.03
S108	2527734.37	260.33	462.81	✓	29.24	29.24	22.30	22.30
S114	2527734.37	204.02	416.37	✓	24.79	24.79	9.04	9.04
S102	2527734.37	203.53	415.36	✓	25.96	25.96	8.90	8.90
S113	2527734.37	178.29	424.51	✓	12.41	12.41	19.19	19.19
S107	2527734.37	250.39	596.17	✓	13.63	13.63	36.73	36.73
S101	2527734.37	176.00	419.05	✓	13.20	13.20	19.07	19.07

## Risk Değerlendirmesi - 1. KAT

Eksenel basınç gerilmeleri ortalaması :

0.65\*fc<sub>m</sub> :0.1\*fc<sub>m</sub> :

Kat kesme kuvvetleri oranı sınır değeri:

413.24 tf/m<sup>2</sup>1629.13 tf/m<sup>2</sup>250.64 tf/m<sup>2</sup>

0.31