StatiCAD-Yigma
Project Designer: Atilla ÖZDEMİR
Project Name: Masonry Building Project
Program Licence ID: 548EB6D329343321B028569CF859914F

1. STORY HORIZONTAL BOND BEAM LOADS

Hor. Bond Beam Name	Self Weight (t)	G From Upstory Wall (t)	Q From Upstory Wall (t)	G From Slab (t)	Q From Slab (t)	Extra G Load (t)	Extra Q Load (t)	G From Upper Window Wall Part (t)	G From Upper Door Wall Part (t)	G Upstory Window and Paraphet (t)	G Upstory Door (t)	G from Anchorage Bond Beam (t)	Q from Anchorage Bond Beam (t)
H101	0.3	0	0	0.79	0.263	0	0	0.09	0	0	0	0	0
H102	0.51	0	0	0.83	0.277	0	0	0.153	0	0	0	0	0
H103	0.1	0	0	0.073	0.024	0	0	0.082	0	0	0	0	0
H104	0.18	0	0	0.762	0.254	0	0	0	0.094	0	0	0	0
H105	0.18	0	0	0.728	0.243	0	0	0	0.094	0	0	0	0
H106	0.18	0	0	0.603	0.201	0	0	0	0.094	0	0	0	0
H107	0.18	0	0	0.582	0.194	0	0	0	0.094	0	0	0	0
H108	0.27	0	0	0.322	0.107	0	0	0	0.142	0	0	0	0
H109	0.18	0	0	0.385	0.128	0	0	0	0.094	0	0	0	0
H110	0.45	0	0	0.505	0.168	0	0	0	0.236	0	0	0	0
H111	0.2	0	0	0.717	0.239	0	0	0	0.105	0	0	0	0
H112	0.14	0	0	0.228	0.076	0	0	0.042	0	0	0	0	0
H113	0.3	0	0	0.39	0.13	0	0	0.09	0	0	0	0	0
H114	0.18	0	0	0.461	0.154	0	0	0	0.094	0	0	0	0
H115	0.15	0	0	0.115	0.038	0	0	0.124	0	0	0	0	0
H116	0.45	0	0	0.905	0.302	0	0	0.135	0	0	0	0	0

GROUND STORY HORIZONTAL BOND BEAM LOADS

Hor. Bond Beam Name	Self Weight (t)	G From Upstory Wall (t)	Q From Upstory Wall (t)	G From Slab (t)	Q From Slab (t)	Extra G Load (t)	Extra Q Load (t)	G From Upper Window Wall Part (t)	G From Upper Door Wall Part (t)	G Upstory Window and Paraphet (t)	G Upstory Door (t)	G from Anchorage Bond Beam (t)	Q from Anchorage Bond Beam (t)
HZ01	1.17	5.827	0.821	1.438	0.605	0	0	0	0	0.456	0	0	0
HZ02	0.45	0	0	1.273	0.536	0	0	0.135	0	0	0	0	0
HZ03	0.51	0	0	2.125	1.016	0	0	0.153	0	0.746	0	0	0
HZ04	0.18	0	0	0.791	0.333	0	0	0	0.094	0	0.094	0	0
HZ05	0.18	0	0	0.768	0.323	0	0	0	0.094	0	0.094	0	0
HZ06	0.18	0	0	0.637	0.268	0	0	0	0.094	0	0.094	0	0
HZ07	0.18	0	0	0.614	0.259	0	0	0	0.094	0	0.094	0	0
HZ08	0.27	0	0	1.094	0.534	0	0	0	0.142	0	0.094	0	0
HZ09	0.27	0	0	0.553	0.233	0	0	0	0.142	0	0	0	0
HZ10	0.45	0	0	0.757	0.392	0	0	0	0.236	0	0.158	0	0
HZ11	0.725	3.185	0.315	0.782	0.329	0	0	0	0	0.213	0	0	0
HZ12	0.3	0	0	0.412	0.174	0	0	0.09	0	0.439	0	0	0
HZ13	0.15	0	0	0.122	0.051	0	0	0.124	0	0.215	0	0	0
HZ14	0.45	0	0	0.7	0.295	0	0	0.135	0	0.658	0	0	0
HZ15	0.581	3.507	0.392	0.285	0.12	0	0	0	0	0	0	4.445	0.713
HZ16	0.388	2.615	0.376	1.148	0.568	0	0	0	0	0	0	2.453	0.322
HZ17	0.18	0	0	0.486	0.205	0	0	0	0.094	0	0.094	0	0
HZ18	0.388	2.876	0.476	1.096	0.541	0	0	0	0	0	0	4.445	0.713
HZ19	0.388	2.674	0.4	0.285	0.12	0	0	0	0	0	0	2.453	0.322
HZ20	0.2	0	0	0.951	0.464	0	0	0	0.105	0	0.105	0	0

GROUND STORY HORIZONTAL BOND BEAM LOADS

Hor. Bond Beam Name	Self Weight (t)	G From Upstory Wall (t)	Q From Upstory Wall (t)	G From Slab (t)	Q From Slab (t)	Extra G Load (t)	Extra Q Load (t)	G From Upper Window Wall Part (t)	G From Upper Door Wall Part (t)	G Upstory Window and Paraphet (t)	G Upstory Door (t)	G from Anchorage Bond Beam (t)	Q from Anchorage Bond Beam (t)
HZ21	0.18	0	0	0.406	0.171	0	0	0	0.094	0	0.094	0	0
HZ22	0.1	0	0	0.077	0.032	0	0	0.082	0	0.148	0	0	0

BASEMENT STORY HORIZONTAL BOND BEAM LOADS

Hor. Bond Beam Name	Self Weight (t)	G From Upstory Wall (t)	Q From Upstory Wall (t)	G From Slab (t)	Q From Slab (t)	Extra G Load (t)	Extra Q Load (t)	G From Upper Window Wall Part (t)	G From Upper Door Wall Part (t)	G Upstory Window and Paraphet (t)	G Upstory Door (t)	G from Anchorage Bond Beam (t)	Q from Anchorage Bond Beam (t)
HB01	0.27	0	0	0.788	0.332	0	0	0	0.122	0	0.094	0	0
HB02	0.27	0	0	0.774	0.326	0	0	0	0.122	0	0.094	0	0
HB03	0.27	0	0	0.636	0.268	0	0	0	0.122	0	0.094	0	0
HB04	0.27	0	0	0.617	0.26	0	0	0	0.122	0	0.094	0	0
HB05	0.27	0	0	0.508	0.214	0	0	0	0.122	0	0.094	0	0
HB06	0.3	0	0	0.968	0.472	0	0	0	0.135	0	0.105	0	0
HB7	0.27	0	0	0.422	0.178	0	0	0	0.122	0	0.094	0	0
HB08	0.1	0	0	0.08	0.034	0	0	0.045	0	0.148	0	0	0

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1. STORY WALL LOADS

Wall Name	Self Weight (t)	G From Upstory Wall (t)	Q From Upstory Wall (t)	G From Slab (t)	Q From Slab (t)	Extra G Load (t)	Extra Q Load (t)	G From Hor.Bond Beam (t)	Q From Hor.Bond Beam (t)	G Upstory Window and Paraphet (t)	G Upstory Door (t)
W101	1.505	0	0	0.848	0.283	0	0	0.59	0.132	0	0
W102	1.468	0	0	0.827	0.276	0	0	0.59	0.132	0	0
W103	1.052	0	0	0.366	0.122	0	0	0.747	0.138	0	0
W104	2.721	0	0	0.948	0.316	0	0	0.747	0.138	0	0
W105	3.16	0	0	2.838	0.946	0	0	0.518	0.127	0	0
W106	0.561	0	0	0.5	0.167	0	0	1.019	0.248	0	0
W107	3.076	0	0	2.165	0.722	0	0	0.501	0.121	0	0
W108	2.796	0	0	1.468	0.489	0	0	0.256	0.06	0	0
W109	1.851	0	0	1.327	0.442	0	0	0.439	0.101	0	0
W110	0.28	0	0	0.201	0.067	0	0	0.439	0.101	0	0
W111	0.187	0	0	0.129	0.043	0	0	0.428	0.097	0	0
W112	1.683	0	0	1.163	0.388	0	0	0.684	0.157	0	0
W113	2.216	0	0	0.565	0.188	0	0	0.367	0.054	0	0
W114	0.982	0	0	0.25	0.083	0	0	0.367	0.054	0	0
W115	0.687	0	0	0.165	0.055	0	0	0	0	0	0
W116	1.402	0	0	0.336	0.112	0	0	0	0	0	0
W117	1.028	0	0	0.359	0.12	0	0	0.205	0.038	0	0
W118	1.028	0	0	0.359	0.12	0	0	0.205	0.038	0	0
W119	1.893	0	0	0.527	0.176	0	0	0.39	0.065	0	0
W120	2.707	0	0	0.629	0.21	0	0	0.585	0.084	0	0
W121	2.595	0	0	0.829	0.276	0	0	0.94	0.17	0	0
W122	4.067	0	0	1.75	0.583	0	0	0.745	0.151	0	0
W123	5.18	0	0	3.799	1.266	0	0	0.368	0.077	0	0
W124	0.617	0	0	0.338	0.113	0	0	0.368	0.077	0	0
W125	5.124	0	0	5.044	1.681	0	0	0	0	0	0
W126	4.394	0	0	3.457	1.152	0	0	0.256	0.06	0	0
W127	0.28	0	0	0.157	0.052	0	0	0.585	0.124	0	0
W128	0.187	0	0	0.086	0.029	0	0	0.33	0.064	0	0
W129	0.374	0	0	0.058	0.02	0	0	0.128	0.012	0	0
W130	0.374	0	0	0.058	0.02	0	0	0.128	0.012	0	0
W131	13.296	0	0	3.591	1.197	0	0	0	0	0	0

GROUND STORY WALL LOADS

Wall Name	Self Weight (t)	G From Upstory Wall (t)	Q From Upstory Wall (t)	G From Slab (t)	Q From Slab (t)	Extra G Load (t)	Extra Q Load (t)	G From Hor.Bond Beam (t)	Q From Hor.Bond Beam (t)	G Upstory Window and Paraphet (t)	G Upstory Door (t)
WZ01	2.258	0	0	1.366	0.575	0	0	0.929	0.268	0	0
WZ02	3.254	2.165	0.261	2.27	1.009	0	0	2.696	0.776	0	0
WZ03	2.721	4.415	0.454	1.11	0.478	0	0	1.767	0.508	0	0
WZ04	3.16	6.516	1.073	2.947	1.241	0	0	0.58	0.167	0	0
WZ05	0.561	2.081	0.415	0.522	0.22	0	0	1.149	0.328	0	0

GROUND STORY WALL LOADS

Wall Name	Self Weight (t)	G From Upstory Wall (t)	Q From Upstory Wall (t)	G From Slab (t)	Q From Slab (t)	Extra G Load (t)	Extra Q Load (t)	G From Hor.Bond Beam (t)	Q From Hor.Bond Beam (t)	G Upstory Window and Paraphet (t)	G Upstory Door (t)
WZ06	3.076	5.742	0.843	2.285	0.962	0	0	0.569	0.162	0	0
WZ07	2.796	4.519	0.549	1.996	0.988	0	0	0.34	0.116	0	0
WZ08	1.851	3.617	0.543	1.401	0.59	0	0	0.503	0.134	0	0
WZ09	0.28	0.92	0.168	0.212	0.089	0	0	0.503	0.134	0	0
WZ10	0.187	0.744	0.14	0.136	0.057	0	0	0.491	0.129	0	0
WZ11	1.683	3.53	0.544	1.228	0.517	0	0	0.832	0.245	0	0
WZ12	2.216	3.148	0.242	1.92	0.938	0	0	0.8	0.267	0	0
WZ13	2.244	1.599	0.137	1.404	0.648	0	0	1.282	0.383	0	0
WZ14	2.23	0.852	0.055	0.923	0.413	0	0	0.482	0.116	0	0
WZ15	1.402	1.739	0.112	0.505	0.262	0	0	0	0	0	0
WZ16	1.893	2.811	0.241	0.556	0.234	0	0	0.62	0.087	0	0
WZ17	2.707	3.921	0.294	0.664	0.28	0	0	0.926	0.112	0	0
WZ18	2.595	4.363	0.446	0.691	0.291	0	0	1.277	0.173	0	0
WZ19	1.893	3.394	0.38	0.63	0.265	0	0	0.972	0.147	0	0
WZ20	3.731	6.985	1.004	2.943	1.239	0	0	0.428	0.102	0	0
WZ21	0.617	1.323	0.189	0.357	0.15	0	0	0.428	0.102	0	0
WZ22	3.675	7.57	1.252	3.668	1.544	0	0	0	0	0	0
WZ23	2.945	5.692	0.851	3.192	1.545	0	0	0.34	0.116	0	0
WZ24	0.28	1.023	0.176	0.185	0.084	0	0	0.728	0.202	0	0
WZ25	0.187	0.602	0.093	0.09	0.038	0	0	0.388	0.086	0	0
WZ26	0.374	0.56	0.032	0.062	0.026	0	0	0.204	0.016	0	0
WZ27	0.374	0.56	0.032	0.062	0.026	0	0	0.204	0.016	0	0
WZ28	13.296	16.887	1.197	4.614	2.214	0	0	0	0	0	0

BASEMENT STORY WALL LOADS

Wall Name	Self Weight (t)	G From Upstory Wall (t)	Q From Upstory Wall (t)	G From Slab (t)	Q From Slab (t)	Extra G Load (t)	Extra Q Load (t)	G From Hor.Bond Beam (t)	Q From Hor.Bond Beam (t)	G Upstory Window and Paraphet (t)	G Upstory Door (t)
WB01	12.517	24.951	4.33	4.783	2.014	0	0	0	0	1.404	0
WB02	4.664	13.204	2.48	2.944	1.24	0	0	0.637	0.166	0	0
WB03	0.828	4.313	0.963	0.522	0.22	0	0	1.267	0.329	0	0
WB04	4.54	11.673	1.967	2.307	0.971	0	0	0.63	0.163	0	0
WB05	2.797	9.652	1.653	2.074	1.025	0	0	0.377	0.118	0	0
WB06	2.732	7.373	1.267	1.4	0.589	0	0	0.561	0.134	0	0
WB07	0.345	1.916	0.391	0.177	0.074	0	0	0.561	0.134	0	0
WB08	0.345	1.559	0.327	0.171	0.072	0	0	0.551	0.13	0	0
WB09	2.415	7.273	1.307	1.199	0.505	0	0	0.928	0.248	0	0
WB10	12.517	22.746	3.573	3.722	1.719	0	0	0	0	0	0.346
WB11	13.082	29.913	2.951	3.738	1.574	0	0	0	0	1.312	0
WB12	5.506	14.086	2.345	2.912	1.226	0	0	0.497	0.107	0	0
WB13	0.98	2.724	0.442	0.4	0.169	0	0	0.497	0.107	0	0

BASEMENT STORY WALL LOADS

Wall Name	Self Weight (t)	G From Upstory Wall (t)	Q From Upstory Wall (t)	G From Slab (t)	Q From Slab (t)	Extra G Load (t)	Extra Q Load (t)	G From Hor.Bond Beam (t)	Q From Hor.Bond Beam (t)	G Upstory Window and Paraphet (t)	G Upstory Door (t)
WB14	5.354	14.913	2.796	3.575	1.505	0	0	0	0	0	0
WB15	4.347	12.17	2.512	3.19	1.545	0	0	0.377	0.118	0	0
WB16	0.414	2.217	0.462	0.191	0.087	0	0	0.831	0.207	0	0
WB17	0.345	1.267	0.216	0.117	0.049	0	0	0.454	0.089	0	0
WB18	0.368	1.2	0.074	0.064	0.027	0	0	0.186	0.017	0	0
WB19	0.414	1.2	0.074	0.072	0.03	0	0	0.186	0.017	0	0
WB20	13.082	34.797	3.411	4.589	2.205	0	0	0	0	0	0

1. STORY X-X DIRECTION SLAB STATIC ANALYSIS

Slab Name	Pd (t/m2)	Lx (m)	Ly (m)	m=ll/ls	Alfax2+	Mx2+ (tcm/m)	Alfax1⁻	Mx1⁻ (tcm/m)	Alfax3⁻	Mx3⁻ (tcm/m)
D101	0.87	4.68	5.48	1.17	0.046	86.79	0.06	114.82	0.03	57.41
D102	0.87	4.39	3.93	1.12	0.037	49.72	0.049	65.84	0.025	33.59
D103	0.87	3.18	2.05	1.55	0.031	11.33	0.041	14.99	0.021	7.68
D104	0.87	2.9	2.5	1.16	0.025	13.59	0.033	17.94	0	0
D105	0.87	2.23	1.3	1.72	0.031	4.56	0.041	6.03	0.021	3.09
D106	0.87	2.99	4.25	1.42	0.053	41.56	0.071	54.94	0.035	27.56
D107	0.87	3.18	3.5	1.1	0.042	36.98	0.056	49.3	0.028	24.65
D108	0.87	2.9	4.6	1.59	0.051	37.62	0.068	50.08	0.034	25.15

GROUND STORY X-X DIRECTION SLAB STATIC ANALYSIS

Slab Name	Pd (t/m2)	Lx (m)	Ly (m)	m=ll/ls	Alfax2+	Mx2+ (tcm/m)	Alfax1⁻	Mx1⁻ (tcm/m)	Alfax3⁻	Mx3⁻ (tcm/m)
DZ01	0.98	4.68	1.55	3.02	0	0	0	0	0	0
DZ02	1.5	2.6	1.55	1.68	0	0	0	508.69	0	0
DZ03	0.98	4.68	3.93	1.19	0.031	47.16	0.041	62.37	0.021	31.95
DZ04	0.98	4.39	3.93	1.12	0.031	47.16	0.041	62.37	0.021	31.95
DZ05	0.98	3.18	2.05	1.55	0.031	12.83	0.041	16.97	0.021	8.69
DZ06	0.98	2.9	2.5	1.16	0.025	15.39	0.033	20.32	0	0
DZ07	0.98	2.23	1.3	1.72	0.031	5.16	0.041	6.83	0.021	3.5
DZ08	1.5	2.99	4.25	1.42	0.053	71.89	0.071	95.05	0.035	47.67
DZ09	0.98	3.18	3.5	1.1	0.035	34.89	0.047	46.85	0.023	22.93
DZ10	0.98	2.9	3.05	1.05	0.028	22.85	0.037	30.34	0	0
DZ11	1.5	3.33	1.65	2.02	0	0	0	834.44	0	0
DZ12	0.98	2.9	1.55	1.87	0.037	8.76	0.049	11.6	0.025	5.92

BASEMENT STORY X-X DIRECTION SLAB STATIC ANALYSIS

Slab Name	Pd (t/m2)	Lx (m)	Ly (m)	m=ll/ls	Alfax2+	Mx2+ (tcm/m)	Alfax1⁻	Mx1⁻ (tcm/m)	Alfax3⁻	Mx3⁻ (tcm/m)
DB01	0.98	4.63	3.88	1.19	0.037	54.87	0.049	72.66	0.025	37.07
DB02	0.98	4.44	3.88	1.14	0.037	54.87	0.049	72.66	0.025	37.07
DB03	0.98	3.13	2.15	1.46	0.031	14.11	0.041	18.67	0.021	9.56
DB04	0.98	2.9	2.6	1.12	0.025	16.65	0.033	21.97	0	0
DB05	0.98	2.28	1.35	1.69	0.031	5.57	0.041	7.36	0.021	3.77
DB06	1.5	3.04	4.25	1.4	0.053	73.63	0.07	97.25	0.035	48.63
DB07	0.98	3.13	3.45	1.1	0.042	40.64	0.056	54.17	0.028	27.08
DB08	0.98	2.9	3	1.03	0.032	26.82	0.044	36.22	0.022	17.97

1. STORY Y-Y DIRECTION SLAB STATIC ANALYSIS

Slab Name	Status	t (cm)	G (t/m2)	Q (t/m2)	AlfaY2+	My2+ (tcm/m)	AlfaY1⁻	My1⁻ (tcm/m)	AlfaY3⁻	My3⁻ (tcm/m)
D101	3	0.12	0.15	0.15	0.037	70.5	0.049	93.37	0.025	47.64
D102	3	0.12	0.15	0.15	0.043	57.58	0.057	76.62	0.029	38.31
D103	2	0.12	0.15	0.15	0.05	18.44	0.067	24.51	0.034	12.37
D104	1	0.12	0.15	0.15	0.032	17.62	0.043	23.38	0	0
D105	2	0.12	0.15	0.15	0.055	8.09	0.074	10.82	0.036	5.36
D106	3	0.12	0.15	0.15	0.037	28.78	0.049	38.11	0.025	19.44
D107	3	0.12	0.15	0.15	0.037	32.55	0.049	43.11	0.025	21.99
D108	2	0.12	0.15	0.15	0.031	22.68	0.041	30	0.021	15.37

GROUND STORY Y-Y DIRECTION SLAB STATIC ANALYSIS

Slab Name	Status	t (cm)	G (t/m2)	Q (t/m2)	AlfaY2+	My2+ (tcm/m)	AlfaY1⁻	My1⁻ (tcm/m)	AlfaY3⁻	My3⁻ (tcm/m)
DZ01	0	0.12	0.175	0.2	0	21.51	0	26.29	0	9.86
DZ02	0	0.15	0.3	0.35	0	0	0	180.79	0	0
DZ03	2	0.12	0.175	0.2	0.04	60.16	0.052	79.79	0.027	40.52
DZ04	2	0.12	0.175	0.2	0.036	54.54	0.048	73.06	0.024	36.03
DZ05	2	0.12	0.175	0.2	0.05	20.88	0.067	27.75	0.034	14
DZ06	1	0.12	0.175	0.2	0.032	19.95	0.043	26.47	0	0
DZ07	2	0.12	0.175	0.2	0.055	9.16	0.074	12.25	0.036	6.07
DZ08	3	0.15	0.3	0.35	0.037	49.78	0.049	65.93	0.025	33.64
DZ09	2	0.12	0.175	0.2	0.031	30.88	0.041	40.84	0.021	20.92
DZ10	1	0.12	0.175	0.2	0.025	20.71	0.033	27.34	0	0
DZ11	0	0.15	0.3	0.35	0	0	0	204.87	0	0
DZ12	3	0.12	0.175	0.2	0.065	15.36	0.086	20.32	0.043	10.16

BASEMENT STORY Y-Y DIRECTION SLAB STATIC ANALYSIS

Slab Name	Status	t (cm)	G (t/m2)	Q (t/m2)	AlfaY2+	My2+ (tcm/m)	AlfaY1⁻	My1⁻ (tcm/m)	AlfaY3⁻	My3⁻ (tcm/m)
DB01	3	0.12	0.175	0.2	0.047	69.2	0.062	91.34	0.031	45.67
DB02	3	0.12	0.175	0.2	0.044	65.57	0.059	86.98	0.029	43.49
DB03	2	0.12	0.175	0.2	0.048	21.71	0.063	28.79	0.032	14.62
DB04	1	0.12	0.175	0.2	0.031	20.39	0.041	27.15	0	0
DB05	2	0.12	0.175	0.2	0.054	9.75	0.073	13.02	0.036	6.47
DB06	3	0.15	0.3	0.35	0.037	51.46	0.049	68.15	0.025	34.77
DB07	3	0.12	0.175	0.2	0.037	35.7	0.049	47.28	0.025	24.12
DB08	2	0.12	0.175	0.2	0.031	25.68	0.041	33.96	0.021	17.4

1. STORY SLAB RC ANALYSIS (SPAN)

Slab Name	Mdx (tcm/m)	Asx (cm2/m)	Straight X	Bent Up X	Selected Asx (cm2/m)	Mdy (tcm/m)	Asy (cm2/m)	Straight Y	Bent Up Y	Selected Asy (cm2/m)
D101	86.79	2.76	Ø8/36	Ø8/36	2.79	70.5	2.24	Ø8/36	Ø8/36	2.79
D102	49.72	1.58	Ø8/36	Ø8/36	2.79	57.58	1.83	Ø8/36	Ø8/36	2.79
D103	11.33	0.36	Ø8/36	Ø8/36	2.79	18.44	0.59	Ø8/36	Ø8/36	2.79
D104	13.59	0.43	Ø8/36	Ø8/36	2.79	17.62	0.56	Ø8/36	Ø8/36	2.79
D105	4.56	0.15	Ø8/36	Ø8/36	2.79	8.09	0.26	Ø8/36	Ø8/36	2.79
D106	41.56	1.32	Ø8/36	Ø8/36	2.79	28.78	0.92	Ø8/36	Ø8/36	2.79
D107	36.98	1.18	Ø8/36	Ø8/36	2.79	32.55	1.04	Ø8/36	Ø8/36	2.79
D108	37.62	1.2	Ø8/36	Ø8/36	2.79	22.68	0.72	Ø8/36	Ø8/36	2.79

GROUND STORY SLAB RC ANALYSIS (SPAN)

Slab Name	Mdx (tcm/m)	Asx (cm2/m)	Straight X	Bent Up X	Selected Asx (cm2/m)	Mdy (tcm/m)	Asy (cm2/m)	Straight Y	Bent Up Y	Selected Asy (cm2/m)
DZ01	0	2.16	Ø8/36	Ø8/36	2.79	21.51	0.68	Ø8/36	Ø8/36	2.79
DZ02	0	2.7	Ø8/37	Ø8/37	2.72	0	2.7	Ø8/37	Ø8/37	2.72
DZ03	47.16	1.5	Ø8/36	Ø8/36	2.79	60.16	1.92	Ø8/36	Ø8/36	2.79
DZ04	47.16	1.5	Ø8/36	Ø8/36	2.79	54.54	1.74	Ø8/36	Ø8/36	2.79
DZ05	12.83	0.41	Ø8/36	Ø8/36	2.79	20.88	0.66	Ø8/36	Ø8/36	2.79
DZ06	15.39	0.49	Ø8/36	Ø8/36	2.79	19.95	0.64	Ø8/36	Ø8/36	2.79
DZ07	5.16	0.16	Ø8/36	Ø8/36	2.79	9.16	0.29	Ø8/36	Ø8/36	2.79
DZ08	71.89	1.76	Ø8/40	Ø8/40	2.51	49.78	1.22	Ø8/40	Ø8/40	2.51
DZ09	34.89	1.11	Ø8/36	Ø8/36	2.79	30.88	0.98	Ø8/36	Ø8/36	2.79
DZ10	22.85	0.73	Ø8/36	Ø8/36	2.79	20.71	0.66	Ø8/36	Ø8/36	2.79
DZ11	0	2.7	Ø8/37	Ø8/37	2.72	0	0	---	---	---
DZ12	8.76	0.28	Ø8/36	Ø8/36	2.79	15.36	0.49	Ø8/36	Ø8/36	2.79

BASEMENT STORY SLAB RC ANALYSIS (SPAN)

Slab Name	Mdx (tcm/m)	Asx (cm2/m)	Straight X	Bent Up X	Selected Asx (cm2/m)	Mdy (tcm/m)	Asy (cm2/m)	Straight Y	Bent Up Y	Selected Asy (cm2/m)
DB01	54.87	1.75	Ø8/36	Ø8/36	2.79	69.2	2.2	Ø8/36	Ø8/36	2.79
DB02	54.87	1.75	Ø8/36	Ø8/36	2.79	65.57	2.09	Ø8/36	Ø8/36	2.79
DB03	14.11	0.45	Ø8/36	Ø8/36	2.79	21.71	0.69	Ø8/36	Ø8/36	2.79
DB04	16.65	0.53	Ø8/36	Ø8/36	2.79	20.39	0.65	Ø8/36	Ø8/36	2.79
DB05	5.57	0.18	Ø8/36	Ø8/36	2.79	9.75	0.31	Ø8/36	Ø8/36	2.79
DB06	73.63	1.8	Ø8/40	Ø8/40	2.51	51.46	1.26	Ø8/40	Ø8/40	2.51
DB07	40.64	1.29	Ø8/36	Ø8/36	2.79	35.7	1.14	Ø8/36	Ø8/36	2.79
DB08	26.82	0.85	Ø8/36	Ø8/36	2.79	25.68	0.82	Ø8/36	Ø8/36	2.79

1. STORY SLAB RC ANALYSIS (SUPPORT)

Slab1 Name	Calc. Loc.	Slab2 Name	Mm1 (tcm/m)	Mm2 (tcm/m)	Mms/Mmb	Mdmax	Required As (cm2/m)	Existing As (cm2/m)	Additional Steel	Selected As (cm2/m)
D101	Left	---	57.41	---	---	57.41	1.83	1.38	Ø8/50	2.39
D101	Right	D102	114.82	65.84	0.57	99.02	3.15	2.17	Ø8/50	3.18
D101	Up	---	47.64	---	---	47.64	1.52	1.12	Ø8/50	2.13
D101	Down	D103	93.37	24.51	0.26	80.87	2.57	1.42	Ø8/43	2.58
D102	Left	D101	65.84	114.82	0.57	99.02	3.15	2.17	Ø8/50	3.18
D102	Right	---	33.59	---	---	33.59	1.07	0.79	Ø8/50	1.8
D102	Up	---	38.31	---	---	38.31	1.22	0.92	Ø8/50	1.92
D102	Down	D105	76.62	10.82	0.14	65.72	2.09	1.05	Ø8/48	2.09
D103	Left	---	7.68	---	---	7.68	0.24	0.18	Ø8/50	1.19
D103	Right	D104	14.99	17.94	0.84	17.94	0.57	0.4	Ø8/50	1.4
D103	Up	D101	24.51	93.37	0.26	80.87	2.57	1.42	Ø8/43	2.58
D103	Down	D107	24.51	43.11	0.57	38.53	1.23	0.81	Ø8/50	1.82
D104	Left	D103	17.94	14.99	0.84	17.94	0.57	0.4	Ø8/50	1.4
D104	Right	D105	17.94	6.03	0.34	14.49	0.46	0.29	Ø8/50	1.29
D104	Up	D101	23.38	93.37	0.25	78.75	2.51	1.4	Ø8/45	2.52
D104	Down	D108	23.38	30	0.78	28.45	0.91	0.64	Ø8/50	1.65
D105	Left	D104	6.03	17.94	0.34	14.49	0.46	0.29	Ø8/50	1.29
D105	Right	---	3.09	---	---	3.09	0.1	0.07	Ø8/50	1.08
D105	Up	D102	10.82	76.62	0.14	65.72	2.09	1.05	Ø8/48	2.09
D105	Down	D106	10.82	38.11	0.28	33.85	1.08	0.59	Ø8/50	1.59
D106	Left	D108	54.94	50.08	0.91	54.94	1.75	1.26	Ø8/50	2.27
D106	Right	---	27.56	---	---	27.56	0.88	0.66	Ø8/50	1.67
D106	Up	D105	38.11	10.82	0.28	33.85	1.08	0.59	Ø8/50	1.59
D106	Down	---	19.44	---	---	19.44	0.62	0.46	Ø8/50	1.46
D107	Left	---	24.65	---	---	24.65	0.78	0.59	Ø8/50	1.59
D107	Right	D108	49.3	50.08	0.98	50.08	1.59	1.19	Ø8/50	2.19
D107	Up	D103	43.11	24.51	0.57	38.53	1.23	0.81	Ø8/50	1.82
D107	Down	---	21.99	---	---	21.99	0.7	0.52	Ø8/50	1.52
D108	Left	D107	50.08	49.3	0.98	50.08	1.59	1.19	Ø8/50	2.19
D108	Right	D106	50.08	54.94	0.91	54.94	1.75	1.26	Ø8/50	2.27
D108	Up	D104	30	23.38	0.78	28.45	0.91	0.64	Ø8/50	1.65
D108	Down	---	15.37	---	---	15.37	0.49	0.36	Ø8/50	1.37

GROUND STORY SLAB RC ANALYSIS (SUPPORT)

Slab1 Name	Calc. Loc.	Slab2 Name	Mm1 (tcm/m)	Mm2 (tcm/m)	Mms/Mmb	Mdmax	Required As (cm2/m)	Existing As (cm2/m)	Additional Steel	Selected As (cm2/m)
DZ01	Left	---	0	---	---	0	0	1.08	---	---
DZ01	Right	DZ02	0	508.69	0	508.69	16.2	2.43	Ø12/8	16.57
DZ01	Up	---	9.86	---	---	9.86	0.31	0.34	---	---
DZ01	Down	DZ03	26.29	79.79	0.33	69.71	2.22	1.3	Ø8/50	2.31

GROUND STORY SLAB RC ANALYSIS (SUPPORT)

Slab1 Name	Calc. Loc.	Slab2 Name	Mm1 (tcm/m)	Mm2 (tcm/m)	Mms/Mmb	Mdmax	Required As (cm2/m)	Existing As (cm2/m)	Additional Steel	Selected As (cm2/m)
DZ02	Left	DZ01	508.69	0	0	508.69	12.46	2.43	Ø12/11	12.71
DZ02	Right	---	0	---	---	0	0	1.35	---	---
DZ02	Up	---	0	---	---	0	0	1.35	---	---
DZ02	Down	DZ04	180.79	73.06	0.4	180.79	4.43	2.22	Ø8/22	4.5
DZ03	Left	---	31.95	---	---	31.95	1.02	0.75	Ø8/50	1.76
DZ03	Right	DZ04	62.37	62.37	1	62.37	1.99	1.5	Ø8/50	2.51
DZ03	Up	DZ01	79.79	26.29	0.33	69.71	2.22	1.3	Ø8/50	2.31
DZ03	Down	DZ05	79.79	27.75	0.35	67.9	2.16	1.29	Ø8/50	2.3
DZ04	Left	DZ03	62.37	62.37	1	62.37	1.99	1.5	Ø8/50	2.51
DZ04	Right	---	31.95	---	---	31.95	1.02	0.75	Ø8/50	1.76
DZ04	Up	DZ02	73.06	180.79	0.4	180.79	5.76	2.22	Ø8/14	5.81
DZ04	Down	DZ07	73.06	12.25	0.17	62.98	2.01	1.01	Ø8/50	2.02
DZ05	Left	---	8.69	---	---	8.69	0.28	0.2	Ø8/50	1.21
DZ05	Right	DZ06	16.97	20.32	0.84	20.32	0.65	0.45	Ø8/50	1.45
DZ05	Up	DZ03	27.75	79.79	0.35	67.9	2.16	1.29	Ø8/50	2.3
DZ05	Down	DZ09	27.75	40.84	0.68	37.62	1.2	0.82	Ø8/50	1.83
DZ06	Left	DZ05	20.32	16.97	0.84	20.32	0.65	0.45	Ø8/50	1.45
DZ06	Right	DZ07	20.32	6.83	0.34	16.41	0.52	0.33	Ø8/50	1.33
DZ06	Up	DZ03	26.47	79.79	0.33	65.97	2.1	1.28	Ø8/50	2.28
DZ06	Down	DZ10	26.47	27.34	0.97	27.34	0.87	0.65	Ø8/50	1.65
DZ07	Left	DZ06	6.83	20.32	0.34	16.41	0.52	0.33	Ø8/50	1.33
DZ07	Right	---	3.5	---	---	3.5	0.11	0.08	Ø8/50	1.09
DZ07	Up	DZ04	12.25	73.06	0.17	62.98	2.01	1.01	Ø8/50	2.02
DZ07	Down	DZ08	12.25	65.93	0.19	56.03	1.78	0.76	Ø8/48	1.8
DZ08	Left	DZ10	95.05	30.34	0.32	71.41	1.75	1.24	Ø8/50	2.25
DZ08	Right	---	47.67	---	---	47.67	1.17	0.88	Ø8/50	1.89
DZ08	Up	DZ07	65.93	12.25	0.19	56.03	1.37	0.76	Ø8/50	1.76
DZ08	Down	---	33.64	---	---	33.64	0.82	0.61	Ø8/50	1.61
DZ09	Left	---	22.93	---	---	22.93	0.73	0.56	Ø8/50	1.56
DZ09	Right	DZ10	46.85	30.34	0.65	41.6	1.32	0.92	Ø8/50	1.92
DZ09	Up	DZ05	40.84	27.75	0.68	37.62	1.2	0.82	Ø8/50	1.83
DZ09	Down	DZ11	40.84	204.87	0.2	204.87	6.52	0.49	Ø10/13	6.53
DZ10	Left	DZ09	30.34	46.85	0.65	41.6	1.32	0.92	Ø8/50	1.92
DZ10	Right	DZ08	30.34	95.05	0.32	71.41	2.27	1.24	Ø8/48	2.29
DZ10	Up	DZ06	27.34	26.47	0.97	27.34	0.87	0.65	Ø8/50	1.65
DZ10	Down	DZ12	27.34	20.32	0.74	25.76	0.82	0.57	Ø8/50	1.58
DZ11	Left	---	0	---	---	0	0	1.35	---	---
DZ11	Right	DZ12	834.44	11.6	0.01	834.44	20.44	1.49	Ø12/5	24.11
DZ11	Up	DZ09	204.87	40.84	0.2	204.87	5.02	0.49	Ø8/11	5.06
DZ11	Down	---	0	---	---	0	0	0	---	---
DZ12	Left	DZ11	11.6	834.44	0.01	834.44	26.57	1.49	Ø12/4	29.76
DZ12	Right	---	5.92	---	---	5.92	0.19	0.14	Ø8/50	1.14
DZ12	Up	DZ10	20.32	27.34	0.74	25.76	0.82	0.57	Ø8/50	1.58
DZ12	Down	---	10.16	---	---	10.16	0.32	0.24	Ø8/50	1.25

BASEMENT STORY SLAB RC ANALYSIS (SUPPORT)

Slab1 Name	Calc. Loc.	Slab2 Name	Mm1 (tcm/m)	Mm2 (tcm/m)	Mms/Mmb	Mdmax	Required As (cm2/m)	Existing As (cm2/m)	Additional Steel	Selected As (cm2/m)
DB01	Left	---	37.07	---	---	37.07	1.18	0.87	Ø8/50	1.88
DB01	Right	DB02	72.66	72.66	1	72.66	2.31	1.75	Ø8/50	2.75
DB01	Up	---	45.67	---	---	45.67	1.45	1.1	Ø8/50	2.11
DB01	Down	DB03	91.34	28.79	0.32	76.47	2.43	1.45	Ø8/50	2.45
DB02	Left	DB01	72.66	72.66	1	72.66	2.31	1.75	Ø8/50	2.75
DB02	Right	---	37.07	---	---	37.07	1.18	0.87	Ø8/50	1.88
DB02	Up	---	43.49	---	---	43.49	1.38	1.04	Ø8/50	2.05
DB02	Down	DB05	86.98	13.02	0.15	74.26	2.36	1.2	Ø8/43	2.37
DB03	Left	---	9.56	---	---	9.56	0.3	0.22	Ø8/50	1.23
DB03	Right	DB04	18.67	21.97	0.85	21.97	0.7	0.49	Ø8/50	1.5
DB03	Up	DB01	28.79	91.34	0.32	76.47	2.43	1.45	Ø8/50	2.45
DB03	Down	DB07	28.79	47.28	0.61	42.55	1.35	0.91	Ø8/50	1.92
DB04	Left	DB03	21.97	18.67	0.85	21.97	0.7	0.49	Ø8/50	1.5
DB04	Right	DB05	21.97	7.36	0.33	17.69	0.56	0.35	Ø8/50	1.36
DB04	Up	DB01	27.15	91.34	0.3	74.17	2.36	1.43	Ø8/50	2.43
DB04	Down	DB08	27.15	33.96	0.8	31.85	1.01	0.73	Ø8/50	1.74
DB05	Left	DB04	7.36	21.97	0.33	17.69	0.56	0.35	Ø8/50	1.36
DB05	Right	---	3.77	---	---	3.77	0.12	0.09	Ø8/50	1.09
DB05	Up	DB02	13.02	86.98	0.15	74.26	2.36	1.2	Ø8/43	2.37
DB05	Down	DB06	13.02	68.15	0.19	57.71	1.84	0.79	Ø8/47	1.85
DB06	Left	DB08	97.25	36.22	0.37	75.12	1.84	1.33	Ø8/50	2.33
DB06	Right	---	48.63	---	---	48.63	1.19	0.9	Ø8/50	1.91
DB06	Up	DB05	68.15	13.02	0.19	57.71	1.41	0.79	Ø8/50	1.79
DB06	Down	---	34.77	---	---	34.77	0.85	0.63	Ø8/50	1.64
DB07	Left	---	27.08	---	---	27.08	0.86	0.65	Ø8/50	1.65
DB07	Right	DB08	54.17	36.22	0.67	48.41	1.54	1.07	Ø8/50	2.08
DB07	Up	DB03	47.28	28.79	0.61	42.55	1.35	0.91	Ø8/50	1.92
DB07	Down	---	24.12	---	---	24.12	0.77	0.57	Ø8/50	1.57
DB08	Left	DB07	36.22	54.17	0.67	48.41	1.54	1.07	Ø8/50	2.08
DB08	Right	DB06	36.22	97.25	0.37	75.12	2.39	1.33	Ø8/47	2.4
DB08	Up	DB04	33.96	27.15	0.8	31.85	1.01	0.73	Ø8/50	1.74
DB08	Down	---	17.4	---	---	17.4	0.55	0.41	Ø8/50	1.41

LATERAL FORCES ACTING ON THE STORIES

Pre-Analysis Data Information

Earthquake Zone	= 1. Degree Earthquake Zone	
Ao	= 0.4	Effective Ground Acceleration Coefficient
I	= 1	Building Importance Factor
R	= 2	Structural Behaviour Factor
ST	= 2.5	Spectrum Coefficient

DESIGN SEISMIC LOADS ACTING AT STORIES

Story Name	WG (t)	HYKK	WQ (t)	Wi	Hi	Wi*Hi	(Wi*Hi)/ S (Wi*Hi)	Vt (t)	Vi (t)	Qi (t)
1. STORY	127.273	0.3	14.512	131.627	8.5	1118.828	0.476	211.74	100.691	100.691
GROUND STORY	138.844	0.3	24.589	146.221	5.65	826.147	0.351	211.74	74.351	175.042
BASEMENT STORY	139.953	0.3	18.93	145.632	2.8	407.769	0.173	211.74	36.698	211.74
TOTAL	406.07	---	---	423.479	---	2352.744	1,000	---	211.74	---

SYMBOLS USED IN TABLE AND EXPLANATIONS

WG (t)	:Story Total Dead Load
HYKK	:Live Load Reduction Factor
WQ (t)	:Story Total Live Load
Wi (t)	:Design Total Story Weight Used In Seismic Load Calculation (Wi=WG+HYKK*WQ)
Hi (m)	:Height of Story Top Level From Top of Foundation Level
Vt (t)	:Total Design Seismic Load Acting At Building (Basement Lateral Force)
Vi (t)	:Seismic Load Acting At Stories Level
Qi (t)	:Seismic Total Load Acting At Stories Level (Including above story seismic loads)

STORY MASS AND RIGIDITY CENTER COORDINATES

	Mass Center Coordinates		Shear Rigidity Center Coordinates	
Story Name	**Xmass (m)**	**Ymass (m)**	**Xshear (m)**	**Yshear (m)**
1. STORY	4.54	4.81	4.4	5.26
GROUND STORY	4.54	4.87	4.6	5.04
BASEMENT STORY	4.62	4.97	4.85	5.34

StatiCAD-Yigma
Project Designer: Atilla ÖZDEMİR
Project Name: Masonry Building Project
Program Licence ID: 548EB6D329343321B028569CF859914F

1. STORY WALL STIFFNESS AND SHEAR STIFFNESS CENTER ANALYSIS

Wall Name	Wall Direction	Wall Effective Height (m)	Wall Length (m)	Wall Thickness (m)	Dx (m)	Dx*Y (m2)	Iox=Dx*Y^2 (m3)	Dy (m)	Dy*X (m2)	Ioy=Dy*X^2 (m3)
W101	X-X	1.35	1.76	0.2	0.313	-0.485	0.752	0	0	0
W102	X-X	1.35	1.67	0.2	0.297	-0.46	0.713	0	0	0
W103	X-X	1.35	0.85	0.3	0.227	0	0	0	0	0
W104	X-X	1.35	2.09	0.3	0.557	0	0	0	0	0
W105	X-X	2.1	3.53	0.2	0.403	1.585	6.231	0	0	0
W106	X-X	2.1	0.6	0.2	0.057	0.225	0.883	0	0	0
W107	X-X	2.1	3.44	0.2	0.393	1.545	6.072	0	0	0
W108	X-X	2.45	3.24	0.2	0.317	1.66	8.681	0	0	0
W109	X-X	2.1	2.13	0.2	0.243	1.456	8.705	0	0	0
W110	X-X	2.1	0.4	0.2	0.046	0.273	1.635	0	0	0
W111	X-X	2.1	0.3	0.2	0.034	0.22	1.418	0	0	0
W112	X-X	2.1	1.9	0.2	0.217	1.396	8.978	0	0	0
W113	X-X	2.1	1.73	0.3	0.297	2.811	26.653	0	0	0
W114	X-X	2.1	0.8	0.3	0.137	1.3	12.325	0	0	0
W115	X-X	2.1	0.59	0.3	0.101	0.959	9.09	0	0	0
W116	X-X	2.1	1.15	0.3	0.197	1.869	17.717	0	0	0
W117	X-X	1.35	1.2	0.2	0.213	2.353	25.954	0	0	0
W118	X-X	1.35	1.2	0.2	0.213	2.353	25.954	0	0	0
W119	Y-Y	1.35	1.5	0.3	0	0	0	0.4	0	0
W120	Y-Y	1	1.93	0.3	0	0	0	0.579	0	0
W121	Y-Y	1	1.85	0.3	0	0	0	0.555	0	0
W122	Y-Y	1.35	3	0.3	0	0	0	0.8	0	0
W123	Y-Y	2.1	5.64	0.2	0	0	0	0.645	2.05	6.518
W124	Y-Y	2.1	0.76	0.2	0	0	0	0.087	0.276	0.878
W125	Y-Y	2.45	5.68	0.2	0	0	0	0.556	2.604	12.187
W126	Y-Y	2.1	4.8	0.2	0	0	0	0.549	3.335	20.279
W127	Y-Y	2.1	0.3	0.2	0	0	0	0.034	0.208	1.267
W128	Y-Y	2.1	0.3	0.2	0	0	0	0.034	0.208	1.267
W129	Y-Y	1	0.5	0.2	0	0	0	0.12	0.997	8.287
W130	Y-Y	1	0.5	0.2	0	0	0	0.12	0.997	8.287
W131	Y-Y	2.45	9.78	0.3	0	0	0	1.437	13.034	118.22
TOPLAM	---	---	---	---	6.948	36.524	327.312	8.6	37.804	282

GROUND STORY WALL STIFFNESS AND SHEAR STIFFNESS CENTER ANALYSIS

Wall Name	Wall Direction	Wall Effective Height (m)	Wall Length (m)	Wall Thickness (m)	Dx (m)	Dx*Y (m2)	Iox=Dx*Y^2 (m3)	Dy (m)	Dy*X (m2)	Ioy=Dy*X^2 (m3)
WZ01	X-X	1.35	1.76	0.3	0.469	0	0	0	0	0
WZ02	X-X	1.35	2.32	0.3	0.516	0	0	0	0	0
WZ03	X-X	1.35	2.09	0.3	0.557	0	0	0	0	0
WZ04	X-X	2.1	3.53	0.2	0.403	1.585	6.231	0	0	0

GROUND STORY WALL STIFFNESS AND SHEAR STIFFNESS CENTER ANALYSIS

Wall Name	Wall Direction	Wall Effective Height (m)	Wall Length (m)	Wall Thickness (m)	Dx (m)	Dx*Y (m2)	Iox=Dx*Y^2 (m3)	Dy (m)	Dy*X (m2)	Ioy=Dy*X^2 (m3)
WZ05	X-X	2.1	0.6	0.2	0.057	0.225	0.883	0	0	0
WZ06	X-X	2.1	3.44	0.2	0.393	1.545	6.072	0	0	0
WZ07	X-X	2.45	3.24	0.2	0.317	1.66	8.681	0	0	0
WZ08	X-X	2.1	2.13	0.2	0.243	1.456	8.705	0	0	0
WZ09	X-X	2.1	0.4	0.2	0.046	0.273	1.635	0	0	0
WZ10	X-X	2.1	0.3	0.2	0.034	0.22	1.418	0	0	0
WZ11	X-X	2.1	1.9	0.2	0.217	1.396	8.978	0	0	0
WZ12	X-X	2.1	1.73	0.3	0.297	2.811	26.653	0	0	0
WZ13	X-X	2.1	1.6	0.3	0.229	2.167	20.542	0	0	0
WZ14	X-X	2.1	1.59	0.3	0.273	2.584	24.496	0	0	0
WZ15	X-X	2.1	1.15	0.3	0.197	1.869	17.717	0	0	0
WZ16	Y-Y	1.35	1.5	0.3	0	0	0	0.4	0	0
WZ17	Y-Y	1	1.93	0.3	0	0	0	0.579	0	0
WZ18	Y-Y	1	1.85	0.3	0	0	0	0.555	0	0
WZ19	Y-Y	1.35	1.5	0.3	0	0	0	0.4	0	0
WZ20	Y-Y	2.1	4.14	0.2	0	0	0	0.473	1.505	4.785
WZ21	Y-Y	2.1	0.76	0.2	0	0	0	0.087	0.276	0.878
WZ22	Y-Y	2.45	4.18	0.2	0	0	0	0.409	1.916	8.968
WZ23	Y-Y	2.1	3.3	0.2	0	0	0	0.377	2.293	13.942
WZ24	Y-Y	2.1	0.3	0.2	0	0	0	0.034	0.208	1.267
WZ25	Y-Y	2.1	0.3	0.2	0	0	0	0.034	0.208	1.267
WZ26	Y-Y	1	0.5	0.2	0	0	0	0.12	0.997	8.287
WZ27	Y-Y	1	0.5	0.2	0	0	0	0.12	0.997	8.287
WZ28	Y-Y	2.45	9.78	0.3	0	0	0	1.437	13.034	118.22
TOPLAM	---	---	---	---	7.091	35.754	302.291	7.868	36.196	274

BASEMENT STORY WALL STIFFNESS AND SHEAR STIFFNESS CENTER ANALYSIS

Wall Name	Wall Direction	Wall Effective Height (m)	Wall Length (m)	Wall Thickness (m)	Dx (m)	Dx*Y (m2)	Iox=Dx*Y^2 (m3)	Dy (m)	Dy*X (m2)	Ioy=Dy*X^2 (m3)
WB01	X-X	2.4	9.37	0.3	1.405	0	0	0	0	0
WB02	X-X	2.1	3.53	0.3	0.605	2.348	9.11	0	0	0
WB03	X-X	2.1	0.6	0.3	0.086	0.333	1.29	0	0	0
WB04	X-X	2.1	3.44	0.3	0.59	2.288	8.878	0	0	0
WB05	X-X	2.4	3.34	0.2	0.334	1.747	9.136	0	0	0
WB06	X-X	2.1	2.13	0.3	0.365	2.202	13.277	0	0	0
WB07	X-X	2.1	0.4	0.3	0.069	0.413	2.493	0	0	0
WB08	X-X	2.1	0.4	0.3	0.069	0.444	2.879	0	0	0
WB09	X-X	2.1	1.9	0.3	0.326	2.111	13.677	0	0	0
WB10	X-X	2.4	9.37	0.3	1.405	13.324	126.313	0	0	0
WB11	Y-Y	2.4	9.78	0.3	0	0	0	1.467	0	0

BASEMENT STORY WALL STIFFNESS AND SHEAR STIFFNESS CENTER ANALYSIS

Wall Name	Wall Direction	Wall Effective Height (m)	Wall Length (m)	Wall Thickness (m)	Dx (m)	Dx*Y (m2)	Iox=Dx*Y^2 (m3)	Dy (m)	Dy*X (m2)	Ioy=Dy*X^2 (m3)
WB12	Y-Y	2.1	4.14	0.3	0	0	0	0.71	2.221	6.953
WB13	Y-Y	2.1	0.86	0.3	0	0	0	0.147	0.461	1.444
WB14	Y-Y	2.4	4.18	0.3	0	0	0	0.627	2.903	13.441
WB15	Y-Y	2.1	3.3	0.3	0	0	0	0.566	3.411	20.57
WB16	Y-Y	2.1	0.3	0.3	0	0	0	0.051	0.31	1.87
WB17	Y-Y	2.1	0.4	0.3	0	0	0	0.069	0.413	2.493
WB18	Y-Y	1.2	0.5	0.2	0	0	0	0.1	0.831	6.906
WB19	Y-Y	1.2	0.6	0.2	0	0	0	0.12	0.997	8.287
WB20	Y-Y	2.4	9.78	0.3	0	0	0	1.467	13.306	120.683
TOPLAM	---	---	---	---	8.146	43.493	360.375	8.217	39.846	292

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1. STORY VERTICAL BOND BEAM STIFFNESS AND SHEAR STIFF. CENTER

Vertical Bond Beam Name	Vertical Bond Beam Direction	X-X Effective H/ Y-Y Effective H(m)	Vertical Bond Beam Width(m)	Vertical Bond Beam Thickness(m)	Dx (m)*	Dx*Y (m2)	Iox=Dx*Y^2 (m3)	Dy (m)*	Dy*X (m2)	Ioy=Dy*X^2 (m3)
DH101	2 Dir.	2.85/2.85	0.3	0.3	0.316	0	0	0.316	0	0
DH102	2 Dir.	2.85/2.85	0.2	0.3	0.211	0	0	0.211	0.985	4.611
DH103	2 Dir.	2.85/2.85	0.3	0.3	0.316	0	0	0.316	2.864	25.978
DH104	2 Dir.	2.85/2.85	0.3	0.3	0.316	2.994	28.38	0.316	0	0
DH105	2 Dir.	2.85/2.85	0.25	0.3	0.263	2.495	23.65	0.263	0.83	2.619
DH106	2 Dir.	2.85/2.85	0.6	0.3	0.632	5.987	56.76	0.632	3.966	24.908
DH107	2 Dir.	2.85/2.85	0.3	0.3	0.316	2.994	28.38	0.316	2.583	21.13
DH108	2 Dir.	2.85/2.85	0.3	0.3	0.316	2.994	28.38	0.316	2.864	25.978
TOTAL	---	---	---	---	6.948	36.524	327.312	8.6	37.804	282

*In this project Vertical Bond Beam Stiffness is increased with (V.B.Beam Young Modulus/Wall Young Modulus=10) factor.

GROUND STORY VERTICAL BOND BEAM STIFFNESS AND SHEAR STIFF. CENTER

Vertical Bond Beam Name	Vertical Bond Beam Direction	X-X Effective H/ Y-Y Effective H(m)	Vertical Bond Beam Width(m)	Vertical Bond Beam Thickness(m)	Dx (m)*	Dx*Y (m2)	Iox=Dx*Y^2 (m3)	Dy (m)*	Dy*X (m2)	Ioy=Dy*X^2 (m3)
DHZ01	2 Dir.	2.85/2.85	0.3	0.3	0.316	0	0	0.316	0	0
DHZ02	2 Dir.	2.85/2.85	0.3	0.3	0.316	0	0	0.316	1.478	6.917
DHZ03	2 Dir.	2.85/2.85	0.3	0.3	0.316	0	0	0.316	2.864	25.978
DHZ04	2 Dir.	2.85/2.85	0.3	0.3	0.316	2.994	28.38	0.316	0	0
DHZ05	2 Dir.	2.85/2.85	0.3	0.3	0.316	2.994	28.38	0.316	1.004	3.193
DHZ06	2 Dir.	2.85/2.85	0.6	0.3	0.632	5.987	56.76	0.632	3.966	24.908
DHZ07	2 Dir.	2.85/2.85	0.3	0.3	0.316	2.994	28.38	0.316	2.583	21.13
DHZ08	2 Dir.	2.85/2.85	0.3	0.3	0.316	2.994	28.38	0.316	2.864	25.978
TOTAL	---	---	---	---	7.091	35.754	302.291	7.868	36.196	274

*In this project Vertical Bond Beam Stiffness is increased with (V.B.Beam Young Modulus/Wall Young Modulus=10) factor.

BASEMENT STORY VERTICAL BOND BEAM STIFFNESS AND SHEAR STIFF. CENTER

Vertical Bond Beam Name	Vertical Bond Beam Direction	X-X Effective H/ Y-Y Effective H(m)	Vertical Bond Beam Width(m)	Vertical Bond Beam Thickness(m)	Dx (m)*	Dx*Y (m2)	Iox=Dx*Y^2 (m3)	Dy (m)*	Dy*X (m2)	Ioy=Dy*X^2 (m3)
DHB01	2 Dir.	2.8/ 2.8	0.3	0.3	0.321	0	0	0.321	0	0
DHB02	2 Dir.	2.8/ 2.8	0.3	0.3	0.321	0	0	0.321	1.488	6.89
DHB03	2 Dir.	2.8/ 2.8	0.3	0.3	0.321	0	0	0.321	2.915	26.442
DHB04	2 Dir.	2.8/ 2.8	0.3	0.3	0.321	3.047	28.887	0.321	0	0
DHB05	2 Dir.	2.8/ 2.8	0.3	0.3	0.321	3.047	28.887	0.321	1.006	3.149
DHB06	2 Dir.	2.8/ 2.8	0.6	0.3	0.643	6.094	57.774	0.643	4.037	25.353
DHB07	2 Dir.	2.8/ 2.8	0.3	0.3	0.321	3.047	28.887	0.321	2.629	21.508
DHB08	2 Dir.	2.8/ 2.8	0.3	0.3	0.321	3.047	28.887	0.321	2.915	26.442
TOTAL	---	---	---	---	8.146	43.493	360.375	8.217	39.846	292

*In this project Vertical Bond Beam Stiffness is increased with (V.B.Beam Young Modulus/Wall Young Modulus=10) factor.

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1. STORY MASS CENTER ANALYSIS

	Wall	Gslab+n*Qslab	Horizontal Bond Beam	Vertical Bond Beam	Window	Door
ID	W101	D101	H101	DH101	P101	K101
W=G+n*Q	1.505	12.695	0.3	0.641	0.546	0.189
X1	0	0	1.61	-0.15	1.61	3.38
X2	1.61	4.68	3.11	0.15	3.11	4.28
Y1	-1.55	-1.55	-1.55	0.15	-1.55	3.93
Y2	-1.55	3.93	-1.55	-0.15	-1.55	3.93
W*X	1.212	29.706	0.708	0	1.288	0.724
W*Y	-2.333	15.107	-0.465	0	-0.846	0.743
ID	W102	D102	H102	DH102	P102	K102
W=G+n*Q	1.468	8.54	0.51	0.428	0.899	0.189
X1	3.11	4.68	5.43	4.58	5.43	4.88
X2	4.68	9.07	7.13	4.78	7.13	5.78
Y1	-1.55	0	0	0.15	0	3.93
Y2	-1.55	3.93	0	-0.15	0	3.93
W*X	5.718	58.713	3.203	2.001	5.645	1.007
W*Y	-2.275	16.781	0	0	0	0.743
ID	W103	D103	H103	DH103	P103	K103
W=G+n*Q	1.052	3.227	0.1	0.641	0.255	0.189
X1	4.68	0	8.31	8.92	4.28	1.98
X2	5.43	3.18	8.31	9.22	4.98	2.88
Y1	0	3.93	4.83	0.15	11.03	5.98
Y2	0	5.98	4.33	-0.15	11.03	5.98
W*X	5.317	5.131	0.831	5.816	1.179	0.459
W*Y	0	15.989	0.458	0	2.809	1.13
ID	W104	D104	H104	DH104	P104	K104
W=G+n*Q	2.721	3.589	0.18	0.641	0.529	0.189
X1	7.13	3.18	3.38	-0.15	0	3.38
X2	9.07	6.08	4.28	0.15	0	4.28
Y1	0	3.93	3.93	9.63	8.13	6.43
Y2	0	6.43	3.93	9.33	7.13	6.43
W*X	22.039	16.616	0.689	0	0	0.724
W*Y	0	18.59	0.707	6.079	4.034	1.215
ID	W105	D105	H105	DH105	P105	K105
W=G+n*Q	3.16	1.435	0.18	0.534	0.339	0.236
X1	0	6.08	4.88	3.03	0	1.58
X2	3.38	8.31	5.78	3.28	0	2.48
Y1	3.93	3.93	3.93	9.63	5.2	9.48
Y2	3.93	5.23	3.93	9.33	4.7	9.48
W*X	5.341	10.325	0.959	1.686	0	0.48
W*Y	12.42	6.572	0.707	5.066	1.677	2.24
ID	W106	D106	H106	DH106	P106	K106
W=G+n*Q	0.561	6.29	0.18	1.282	0.793	0.394
X1	4.28	6.08	1.98	5.98	0	6.57
X2	4.88	9.07	2.88	6.58	0	8.07
Y1	3.93	5.23	5.98	9.63	2.85	9.48
Y2	3.93	9.48	5.98	9.33	1.35	9.48
W*X	2.569	47.648	0.437	8.054	0	2.882
W*Y	2.205	46.265	1.076	12.158	1.666	3.733
ID	W107	D107	H107	DH107	P107	K107
W=G+n*Q	3.076	5.509	0.18	0.641	0.23	0.189
X1	5.78	0	3.38	8.03	8.31	3.18
X2	9.07	3.18	4.28	8.33	8.31	3.18
Y1	3.93	5.98	6.43	9.63	4.83	5.49
Y2	3.93	9.48	6.43	9.33	4.33	4.59
W*X	22.84	8.76	0.689	5.245	1.911	0.601
W*Y	12.089	42.587	1.157	6.079	1.053	0.953
ID	W108	D108	H108	DH108		K108
W=G+n*Q	2.796	6.603	0.27	0.641		0.21
X1	6.08	3.18	1.58	8.92		6.08
X2	9.07	6.08	2.48	9.22		6.08
Y1	5.23	6.43	9.48	9.63		6.33
Y2	5.23	11.03	9.48	9.33		5.33
W*X	21.177	30.573	0.548	5.816		1.277
W*Y	14.621	57.647	2.56	6.079		1.224

1. STORY MASS CENTER ANALYSIS

	Wall	Gslab+n*Qslab	Horizontal Bond Beam	Vertical Bond Beam	Window	Door
ID	W109		H109			K109
W=G+n*Q	1.851		0.18			0.189
X1	0		6.08			6.08
X2	1.98		6.08			6.08
Y1	5.98		5.03			5.03
Y2	5.98		4.13			4.13
W*X	1.833		1.094			1.149
W*Y	11.071		0.824			0.866
ID	W110		H110			
W=G+n*Q	0.28		0.45			
X1	2.88		6.57			
X2	3.18		8.07			
Y1	5.98		9.48			
Y2	5.98		9.48			
W*X	0.85		3.294			
W*Y	1.677		4.266			
ID	W111		H111			
W=G+n*Q	0.187		0.2			
X1	3.18		6.08			
X2	3.38		6.08			
Y1	6.43		6.33			
Y2	6.43		5.33			
W*X	0.613		1.216			
W*Y	1.202		1.166			
ID	W112		H112			
W=G+n*Q	1.683		0.14			
X1	4.28		4.28			
X2	6.08		4.98			
Y1	6.43		11.03			
Y2	6.43		11.03			
W*X	8.718		0.648			
W*Y	10.822		1.544			
ID	W113		H113			
W=G+n*Q	2.216		0.3			
X1	0		0			
X2	1.58		0			
Y1	9.48		8.13			
Y2	9.48		7.13			
W*X	1.751		0			
W*Y	21.007		2.289			
ID	W114		H114			
W=G+n*Q	0.982		0.18			
X1	2.48		3.18			
X2	3.18		3.18			
Y1	9.48		5.49			
Y2	9.48		4.59			
W*X	2.778		0.572			
W*Y	9.307		0.907			
ID	W115		H115			
W=G+n*Q	0.687		0.15			
X1	6.08		0			
X2	6.57		0			
Y1	9.48		5.2			
Y2	9.48		4.7			
W*X	4.347		0			
W*Y	6.515		0.742			
ID	W116		H116			
W=G+n*Q	1.402		0.45			
X1	8.07		0			
X2	9.07		0			
Y1	9.48		2.85			
Y2	9.48		1.35			
W*X	12.019		0			
W*Y	13.296		0.945			

1. STORY MASS CENTER ANALYSIS

	Wall	Gslab+n*Qslab	Horizontal Bond Beam	Vertical Bond Beam	Window	Door
ID	W117					
W=G+n*Q	1.028					
X1	3.18					
X2	4.28					
Y1	11.03					
Y2	11.03					
W*X	3.836					
W*Y	11.344					
ID	W118					
W=G+n*Q	1.028					
X1	4.98					
X2	6.08					
Y1	11.03					
Y2	11.03					
W*X	5.688					
W*Y	11.344					
ID	W119					
W=G+n*Q	1.893					
X1	0					
X2	0					
Y1	9.48					
Y2	8.13					
W*X	0					
W*Y	16.671					
ID	W120					
W=G+n*Q	2.707					
X1	0					
X2	0					
Y1	7.13					
Y2	5.2					
W*X	0					
W*Y	16.688					
ID	W121					
W=G+n*Q	2.595					
X1	0					
X2	0					
Y1	4.7					
Y2	2.85					
W*X	0					
W*Y	9.795					
ID	W122					
W=G+n*Q	4.067					
X1	0					
X2	0					
Y1	1.35					
Y2	-1.55					
W*X	0					
W*Y	-0.407					
ID	W123					
W=G+n*Q	5.18					
X1	3.18					
X2	3.18					
Y1	11.03					
Y2	5.49					
W*X	16.472					
W*Y	42.786					
ID	W124					
W=G+n*Q	0.617					
X1	3.18					
X2	3.18					
Y1	4.59					
Y2	3.93					
W*X	1.962					
W*Y	2.629					

1. STORY MASS CENTER ANALYSIS

	Wall	Gslab+n*Qslab	Horizontal Bond Beam	Vertical Bond Beam	Window	Door
ID	W125					
W=G+n*Q	5.124					
X1	4.68					
X2	4.68					
Y1	3.93					
Y2	-1.55					
W*X	23.979					
W*Y	6.097					
ID	W126					
W=G+n*Q	4.394					
X1	6.08					
X2	6.08					
Y1	11.03					
Y2	6.33					
W*X	26.719					
W*Y	38.144					
ID	W127					
W=G+n*Q	0.28					
X1	6.08					
X2	6.08					
Y1	5.33					
Y2	5.03					
W*X	1.705					
W*Y	1.453					
ID	W128					
W=G+n*Q	0.187					
X1	6.08					
X2	6.08					
Y1	4.13					
Y2	3.93					
W*X	1.137					
W*Y	0.754					
ID	W129					
W=G+n*Q	0.374					
X1	8.31					
X2	8.31					
Y1	5.23					
Y2	4.83					
W*X	3.108					
W*Y	1.881					
ID	W130					
W=G+n*Q	0.374					
X1	8.31					
X2	8.31					
Y1	4.33					
Y2	3.93					
W*X	3.108					
W*Y	1.545					
ID	W131					
W=G+n*Q	13.296					
X1	9.07					
X2	9.07					
Y1	9.48					
Y2	0					
W*X	120.592					
W*Y	63.022					
TOPLAM W	68.774	47.889	3.95	5.451	3.59	1.974
TOP(W*Xort)=	327.429	207.472	14.89	28.618	10.023	9.303
TOP(W*Yort)=	335.37	219.538	18.886	35.461	10.393	12.846

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1. STORY MASS CENTER ANALYSIS

	Wall	Gslab+n*Qslab	Horizontal Bond Beam	Vertical Bond Beam	Window	Door

1. STORYToplam(Kat Ağırlığı*Xbileşen)=597.736 tm
1. STORYToplam(Kat Ağırlığı*Ybileşen)=632.493 tm
1. STORYToplam Kat Ağırlığı=131.627 t
1. STORYKütle Merkezi X Koordinat Değeri=4.54 m
1. STORYKütle Merkezi Y Koordinat Değeri=4.81 m

GROUND STORY MASS CENTER ANALYSIS

	Wall	Gslab+n*Qslab	Horizontal Bond Beam	Vertical Bond Beam	Window	Door
ID	WZ01	DZ01	HZ01	DHZ01	PZ01	KZ01
W=G+n*Q	2.258	3.881	1.17	0.641	0.793	0.189
X1	0	0	0	-0.15	1.61	3.38
X2	1.61	4.68	4.68	0.15	3.11	4.28
Y1	0	-1.55	-1.55	0.15	0	3.93
Y2	0	0	-1.55	-0.15	0	3.93
W*X	1.818	9.081	2.738	0	1.872	0.724
W*Y	0	-3.008	-1.813	0	0	0.743
ID	WZ02	DZ02	HZ02	DHZ02	PZ02	KZ02
W=G+n*Q	3.254	3.143	0.45	0.641	0.899	0.189
X1	3.11	4.68	1.61	4.53	5.43	4.88
X2	5.43	7.28	3.11	4.83	7.13	5.78
Y1	0	-1.55	0	0.15	0	3.93
Y2	0	0	0	-0.15	0	3.93
W*X	13.894	18.798	1.062	3.001	5.645	1.007
W*Y	0	-2.436	0	0	0	0.743
ID	WZ03	DZ03	HZ03	DHZ03	PZ03	KZ03
W=G+n*Q	2.721	9.84	0.51	0.641	0.529	0.189
X1	7.13	0	5.43	8.92	0	1.98
X2	9.07	4.68	7.13	9.22	0	2.88
Y1	0	0	0	0.15	8.13	5.98
Y2	0	3.93	0	-0.15	7.13	5.98
W*X	22.039	23.025	3.203	5.816	0	0.459
W*Y	0	19.335	0	0	4.034	1.13
ID	WZ04	DZ04	HZ04	DHZ04	PZ04	KZ04
W=G+n*Q	3.16	9.23	0.18	0.641	0.339	0.189
X1	0	4.68	3.38	-0.15	0	3.38
X2	3.38	9.07	4.28	0.15	0	4.28
Y1	3.93	0	3.93	9.63	5.2	6.43
Y2	3.93	3.93	3.93	9.33	4.7	6.43
W*X	5.341	63.458	0.689	0	0	0.724
W*Y	12.42	18.137	0.707	6.079	1.677	1.215
ID	WZ05	DZ05	HZ05	DHZ05	PZ05	KZ05
W=G+n*Q	0.561	3.488	0.18	0.641	0.793	0.236
X1	4.28	0	4.88	3.03	0	1.58
X2	4.88	3.18	5.78	3.33	0	2.48
Y1	3.93	3.93	3.93	9.63	2.85	9.48
Y2	3.93	5.98	3.93	9.33	1.35	9.48
W*X	2.569	5.545	0.959	2.039	0	0.48
W*Y	2.205	17.281	0.707	6.079	1.666	2.24
ID	WZ06	DZ06	HZ06	DHZ06	PZ06	KZ06
W=G+n*Q	3.076	3.879	0.18	1.282	0.23	0.236
X1	5.78	3.18	1.98	5.98	8.31	4.08
X2	9.07	6.08	2.88	6.58	8.31	4.98
Y1	3.93	3.93	5.98	9.63	4.83	9.48
Y2	3.93	6.43	5.98	9.33	4.33	9.48
W*X	22.84	17.959	0.437	8.054	1.911	1.07
W*Y	12.089	20.092	1.076	12.158	1.053	2.24

GROUND STORY MASS CENTER ANALYSIS

	Wall	Gslab+n*Qslab	Horizontal Bond Beam	Vertical Bond Beam	Window	Door
ID	WZ07	DZ07	HZ07	DHZ07		KZ07
W=G+n*Q	2.796	1.551	0.18	0.641		0.394
X1	6.08	6.08	3.38	8.03		6.57
X2	9.07	8.31	4.28	8.33		8.07
Y1	5.23	3.93	6.43	9.63		9.48
Y2	5.23	5.23	6.43	9.33		9.48
W*X	21.177	11.159	0.689	5.245		2.882
W*Y	14.621	7.103	1.157	6.079		3.733
ID	WZ08	DZ08	HZ08	DHZ08		KZ08
W=G+n*Q	1.851	9.912	0.27	0.641		0.189
X1	0	6.08	1.58	8.92		3.18
X2	1.98	9.07	2.48	9.22		3.18
Y1	5.98	5.23	9.48	9.63		5.49
Y2	5.98	9.48	9.48	9.33		4.59
W*X	1.833	75.082	0.548	5.816		0.601
W*Y	11.071	72.902	2.56	6.079		0.953
ID	WZ09	DZ09	HZ09			KZ09
W=G+n*Q	0.28	5.955	0.27			0.21
X1	2.88	0	4.08			6.08
X2	3.18	3.18	4.98			6.08
Y1	5.98	5.98	9.48			6.33
Y2	5.98	9.48	9.48			5.33
W*X	0.85	9.468	1.223			1.277
W*Y	1.677	46.029	2.56			1.224
ID	WZ10	DZ10	HZ10			KZ10
W=G+n*Q	0.187	4.732	0.45			0.189
X1	3.18	3.18	6.57			6.08
X2	3.38	6.08	8.07			6.08
Y1	6.43	6.43	9.48			5.03
Y2	6.43	9.48	9.48			4.13
W*X	0.613	21.91	3.294			1.149
W*Y	1.202	37.644	4.266			0.866
ID	WZ11	DZ11	HZ11			
W=G+n*Q	1.683	4.286	0.725			
X1	4.28	-0.15	3.18			
X2	6.08	3.18	6.08			
Y1	6.43	9.48	11.03			
Y2	6.43	11.13	11.03			
W*X	8.718	6.493	3.357			
W*Y	10.822	44.164	7.997			
ID	WZ12	DZ12	HZ12			
W=G+n*Q	2.216	2.405	0.3			
X1	0	3.18	0			
X2	1.58	6.08	0			
Y1	9.48	9.48	8.13			
Y2	9.48	11.03	7.13			
W*X	1.751	11.134	0			
W*Y	21.007	24.661	2.289			
ID	WZ13		HZ13			
W=G+n*Q	2.244		0.15			
X1	2.48		0			
X2	4.08		0			
Y1	9.48		5.2			
Y2	9.48		4.7			
W*X	7.36		0			
W*Y	21.273		0.742			
ID	WZ14		HZ14			
W=G+n*Q	2.23		0.45			
X1	4.98		0			
X2	6.57		0			
Y1	9.48		2.85			
Y2	9.48		1.35			
W*X	12.878		0			
W*Y	21.14		0.945			

GROUND STORY MASS CENTER ANALYSIS

	Wall	Gslab+n*Qslab	Horizontal Bond Beam	Vertical Bond Beam	Window	Door
ID	WZ15		HZ15			
W=G+n*Q	1.402		0.581			
X1	8.07		0			
X2	9.07		0			
Y1	9.48		0			
Y2	9.48		-1.55			
W*X	12.019		0			
W*Y	13.296		-0.45			
ID	WZ16		HZ16			
W=G+n*Q	1.893		0.388			
X1	0		3.18			
X2	0		3.18			
Y1	9.48		11.03			
Y2	8.13		9.48			
W*X	0		1.232			
W*Y	16.671		3.974			
ID	WZ17		HZ17			
W=G+n*Q	2.707		0.18			
X1	0		3.18			
X2	0		3.18			
Y1	7.13		5.49			
Y2	5.2		4.59			
W*X	0		0.572			
W*Y	16.688		0.907			
ID	WZ18		HZ18			
W=G+n*Q	2.595		0.388			
X1	0		4.68			
X2	0		4.68			
Y1	4.7		0			
Y2	2.85		-1.55			
W*X	0		1.813			
W*Y	9.795		-0.3			
ID	WZ19		HZ19			
W=G+n*Q	1.893		0.388			
X1	0		6.08			
X2	0		6.08			
Y1	1.35		11.03			
Y2	0		9.48			
W*X	0		2.356			
W*Y	1.278		3.974			
ID	WZ20		HZ20			
W=G+n*Q	3.731		0.2			
X1	3.18		6.08			
X2	3.18		6.08			
Y1	9.48		6.33			
Y2	5.49		5.33			
W*X	11.863		1.216			
W*Y	27.924		1.166			
ID	WZ21		HZ21			
W=G+n*Q	0.617		0.18			
X1	3.18		6.08			
X2	3.18		6.08			
Y1	4.59		5.03			
Y2	3.93		4.13			
W*X	1.962		1.094			
W*Y	2.629		0.824			
ID	WZ22		HZ22			
W=G+n*Q	3.675		0.1			
X1	4.68		8.31			
X2	4.68		8.31			
Y1	3.93		4.83			
Y2	0		4.33			
W*X	17.197		0.831			
W*Y	7.22		0.458			

GROUND STORY MASS CENTER ANALYSIS

	Wall	Gslab+n*Qslab	Horizontal Bond Beam	Vertical Bond Beam	Window	Door
ID	WZ23					
W=G+n*Q	2.945					
X1	6.08					
X2	6.08					
Y1	9.48					
Y2	6.33					
W*X	17.907					
W*Y	23.282					
ID	WZ24					
W=G+n*Q	0.28					
X1	6.08					
X2	6.08					
Y1	5.33					
Y2	5.03					
W*X	1.705					
W*Y	1.453					
ID	WZ25					
W=G+n*Q	0.187					
X1	6.08					
X2	6.08					
Y1	4.13					
Y2	3.93					
W*X	1.137					
W*Y	0.754					
ID	WZ26					
W=G+n*Q	0.374					
X1	8.31					
X2	8.31					
Y1	5.23					
Y2	4.83					
W*X	3.108					
W*Y	1.881					
ID	WZ27					
W=G+n*Q	0.374					
X1	8.31					
X2	8.31					
Y1	4.33					
Y2	3.93					
W*X	3.108					
W*Y	1.545					
ID	WZ28					
W=G+n*Q	13.296					
X1	9.07					
X2	9.07					
Y1	9.48					
Y2	0					
W*X	120.592					
W*Y	63.022					
TOPLAM W	64.487	62.301	7.869	5.771	3.583	2.21
TOP(W*Xort)=	314.281	273.112	27.316	29.972	9.428	10.373
TOP(W*Yort)=	316.965	301.905	33.746	36.474	8.43	15.086

GROUND STORYToplam(Kat Ağırlığı*Xbileşen)=664.482 tm

GROUND STORYToplam(Kat Ağırlığı*Ybileşen)=712.606 tm

GROUND STORYToplam Kat Ağırlığı=146.221 t

GROUND STORYKütle Merkezi X Koordinat Değeri=4.54 m

GROUND STORYKütle Merkezi Y Koordinat Değeri=4.87 m

BASEMENT STORY MASS CENTER ANALYSIS

	Wall	Gslab+n*Qslab	Horizontal Bond Beam	Vertical Bond Beam	Window	Door
ID	WB01	DB01	HB01	DHB01	PB01	KB01
W=G+n*Q	12.517	9.611	0.27	0.63	0.195	0.216
X1	0	0	3.38	-0.15	8.31	3.38
X2	9.07	4.63	4.28	0.15	8.31	4.28
Y1	0	0	3.88	0.15	4.83	3.88
Y2	0	3.88	3.88	-0.15	4.33	3.88
W*X	56.763	22.249	1.034	0	1.62	0.827
W*Y	0	18.645	1.048	0	0.893	0.838
ID	WB02	DB02	HB02	DHB02		KB02
W=G+n*Q	4.664	9.217	0.27	0.63		0.216
X1	0	4.63	4.88	4.48		4.88
X2	3.38	9.07	5.78	4.78		5.78
Y1	3.88	0	3.88	0.15		3.88
Y2	3.88	3.88	3.88	-0.15		3.88
W*X	7.883	63.133	1.439	2.917		1.151
W*Y	18.098	17.88	1.048	0		0.838
ID	WB03	DB03	HB03	DHB03		KB03
W=G+n*Q	0.828	3.6	0.27	0.63		0.216
X1	4.28	0	1.98	8.92		1.98
X2	4.88	3.13	2.88	9.22		2.88
Y1	3.88	3.88	6.03	0.15		6.03
Y2	3.88	6.03	6.03	-0.15		6.03
W*X	3.792	5.634	0.656	5.714		0.525
W*Y	3.213	17.839	1.628	0		1.302
ID	WB04	DB04	HB04	DHB04		KB04
W=G+n*Q	4.54	4.034	0.27	0.63		0.216
X1	5.78	3.13	3.38	-0.15		3.38
X2	9.07	6.03	4.28	0.15		4.28
Y1	3.88	3.88	6.48	9.63		6.48
Y2	3.88	6.48	6.48	9.33		6.48
W*X	33.711	18.475	1.034	0		0.827
W*Y	17.616	20.896	1.75	5.972		1.4
ID	WB05	DB05	HB05	DHB05		KB05
W=G+n*Q	2.797	1.647	0.27	0.63		0.216
X1	6.03	6.03	3.13	2.98		3.13
X2	9.07	8.31	3.13	3.28		3.13
Y1	5.23	3.88	5.49	9.63		5.49
Y2	5.23	5.23	4.59	9.33		4.59
W*X	21.116	11.807	0.845	1.972		0.676
W*Y	14.627	7.501	1.361	5.972		1.089
ID	WB06	DB06	HB06	DHB06		KB06
W=G+n*Q	2.732	10.078	0.3	1.26		0.24
X1	0	6.03	6.03	5.98		6.03
X2	1.98	9.07	6.03	6.58		6.03
Y1	6.03	5.23	6.33	9.63		6.33
Y2	6.03	9.48	5.33	9.33		5.33
W*X	2.705	76.086	1.809	7.913		1.447
W*Y	16.476	74.121	1.749	11.945		1.399
ID	WB07	DB07	HB7	DHB07		KB07
W=G+n*Q	0.345	5.777	0.27	0.63		0.216
X1	2.88	0	6.03	8.03		6.03
X2	3.13	3.13	6.03	8.33		6.03
Y1	6.03	6.03	5.03	9.63		5.03
Y2	6.03	9.48	4.13	9.33		4.13
W*X	1.037	9.041	1.628	5.153		1.302
W*Y	2.08	44.802	1.237	5.972		0.989
ID	WB08	DB08	HB08	DHB08		
W=G+n*Q	0.345	4.654	0.1	0.63		
X1	3.13	3.13	8.31	8.92		
X2	3.38	6.03	8.31	9.22		
Y1	6.48	6.48	4.83	9.63		
Y2	6.48	9.48	4.33	9.33		
W*X	1.123	21.318	0.831	5.714		
W*Y	2.236	37.143	0.458	5.972		

BASEMENT STORY MASS CENTER ANALYSIS

	Wall	Gslab+n*Qslab	Horizontal Bond Beam	Vertical Bond Beam	Window	Door
ID	WB09					
W=G+n*Q	2.415					
X1	4.28					
X2	6.03					
Y1	6.48					
Y2	6.48					
W*X	12.449					
W*Y	15.649					
ID	WB10					
W=G+n*Q	12.517					
X1	0					
X2	9.07					
Y1	9.48					
Y2	9.48					
W*X	56.763					
W*Y	118.657					
ID	WB11					
W=G+n*Q	13.082					
X1	0					
X2	0					
Y1	9.48					
Y2	0					
W*X	0					
W*Y	62.011					
ID	WB12					
W=G+n*Q	5.506					
X1	3.13					
X2	3.13					
Y1	9.48					
Y2	5.49					
W*X	17.234					
W*Y	41.214					
ID	WB13					
W=G+n*Q	0.98					
X1	3.13					
X2	3.13					
Y1	4.59					
Y2	3.88					
W*X	3.067					
W*Y	4.149					
ID	WB14					
W=G+n*Q	5.354					
X1	4.63					
X2	4.63					
Y1	3.88					
Y2	0					
W*X	24.791					
W*Y	10.388					
ID	WB15					
W=G+n*Q	4.347					
X1	6.03					
X2	6.03					
Y1	9.48					
Y2	6.33					
W*X	26.212					
W*Y	34.363					
ID	WB16					
W=G+n*Q	0.414					
X1	6.03					
X2	6.03					
Y1	5.33					
Y2	5.03					
W*X	2.496					
W*Y	2.145					

BASEMENT STORY MASS CENTER ANALYSIS

	Wall	Gslab+n*Qslab	Horizontal Bond Beam	Vertical Bond Beam	Window	Door
ID	WB17					
W=G+n*Q	0.345					
X1	6.03					
X2	6.03					
Y1	4.13					
Y2	3.88					
W*X	2.08					
W*Y	1.382					
ID	WB18					
W=G+n*Q	0.368					
X1	8.31					
X2	8.31					
Y1	5.23					
Y2	4.83					
W*X	3.058					
W*Y	1.851					
ID	WB19					
W=G+n*Q	0.414					
X1	8.31					
X2	8.31					
Y1	4.33					
Y2	3.88					
W*X	3.44					
W*Y	1.699					
ID	WB20					
W=G+n*Q	13.082					
X1	9.07					
X2	9.07					
Y1	9.48					
Y2	0					
W*X	118.657					
W*Y	62.011					
TOPLAM W	87.593	48.618	2.02	5.67	0.195	1.536
TOP(W*Xort)=398.379		227.744	9.277	29.383	1.62	6.756
TOP(W*Yort)=429.864		238.827	10.277	35.834	0.893	7.855

BASEMENT STORYToplam(Kat Ağırlığı*Xbileşen)=673.16 tm

BASEMENT STORYToplam(Kat Ağırlığı*Ybileşen)=723.552 tm

BASEMENT STORYToplam Kat Ağırlığı=145.632 t

BASEMENT STORYKütle Merkezi X Koordinat Değeri=4.62 m

BASEMENT STORYKütle Merkezi Y Koordinat Değeri=4.97 m

FOUNDATION ANALYSIS

Foundation ID	Width (cm)	Height (cm)	Max Ground Stress (t/m2)	Min Ground Stress (t/m2)	Average Ground Stress (t/m2)	Vd (t/m)	Vcr (t/m)	Md (t/m)	Mcr (t/m)	Status
T001	80	50	7.3	7.3	6.75	1.82	29.47	0.23	8.88	Ok
T002	80	50	8.87	7.63	7.7	2.22	29.47	0.28	8.88	Ok
T003	80	50	7.88	7.88	7.22	2.36	29.47	0.35	8.88	Ok
T004	80	50	7.83	7.03	7.03	1.96	29.47	0.24	8.88	Ok
T005	80	50	8.48	6.23	7.25	2.12	29.47	0.27	8.88	Ok
T006	80	50	6.7	6.7	6.21	1.68	29.47	0.21	8.88	Ok
T007	80	50	7.36	7.36	6.83	1.84	29.47	0.23	8.88	Ok
T008	80	50	8.11	6.33	6.85	2.03	29.47	0.25	8.88	Ok
T009	100	50	7.85	7.85	6.61	2.75	29.47	0.48	8.88	Ok
T010	100	50	7.25	4.13	5.48	2.54	29.47	0.44	8.88	Ok
T011	60	40	5.44	5.23	3.53	1.09	23.57	0.11	5.68	Ok
T012	80	50	8.26	8.26	7.66	2.06	29.47	0.26	8.88	Ok

StatiCAD-Yigma
Project Designer: Atilla ÖZDEMİR
Project Name: Masonry Building Project
Program Licence ID: 548EB6D329343321B028569CF859914F

1. STORY WALL SHEAR FORCES ANALYSIS

Wall Name	Wall Direction	Vx (t)	Vy (t)	Vbx1 (t)	Vby1 (t)	Vtx1 (t)	Vty1 (t)			
W101	X-X	4.534	0	0.124	0	4.658	0			
W102	X-X	4.302	0	0.118	0	4.42	0			
W103	X-X	3.285	0	0.069	0	3.354	0			
W104	X-X	8.077	0	0.171	0	8.247	0			
W105	X-X	5.846	0	0.031	0	5.877	0			
W106	X-X	0.828	0	0.004	0	0.832	0			
W107	X-X	5.697	0	0.03	0	5.728	0			
W108	X-X	4.599	0	0	0	4.6	0			
W109	X-X	3.528	0	0.01	0	3.538	0			
W110	X-X	0.662	0	0.002	0	0.664	0			
W111	X-X	0.497	0	0.002	0	0.499	0			
W112	X-X	3.147	0	0.015	0	3.162	0			
W113	X-X	4.298	0	0.073	0	4.371	0			
W114	X-X	1.987	0	0.034	0	2.021	0			
W115	X-X	1.466	0	0.025	0	1.491	0			
W116	X-X	2.857	0	0.048	0	2.905	0			
W117	X-X	3.092	0	0.072	0	3.163	0			
W118	X-X	3.092	0	0.072	0	3.163	0			
W119	Y-Y	0	4.683	0	0.318	0	5.001			
W120	Y-Y	0	6.779	0	0.46	0	7.239			
W121	Y-Y	0	6.498	0	0.441	0	6.939			
W122	Y-Y	0	9.366	0	0.635	0	10.002			
W123	Y-Y	0	7.547	0	0.142	0	7.688			
W124	Y-Y	0	1.017	0	0.019	0	1.036			
W125	Y-Y	0	6.514	0	0.029	0	6.543			
W126	Y-Y	0	6.423	0	0.167	0	6.59			
W127	Y-Y	0	0.401	0	0.01	0	0.412			
W128	Y-Y	0	0.401	0	0.01	0	0.412			
W129	Y-Y	0	1.405	0	0.085	0	1.49			
W130	Y-Y	0	1.405	0	0.085	0	1.49			
W131	Y-Y	0	16.825	0	1.214	0	18.039			
TOPLAM	---	61.793	69.265	0.901	3.614	62.694	72.878			

GROUND STORY WALL SHEAR FORCES ANALYSIS

Wall Name	Wall Direction	Vx (t)	Vy (t)	Vbx1 (t)	Vby1 (t)	Vtx1 (t)	Vty1 (t)			
WZ01	X-X	11.586	0	0.101	0	11.686	0			
WZ02	X-X	12.727	0	0.111	0	12.837	0			
WZ03	X-X	13.758	0	0.12	0	13.878	0			
WZ04	X-X	9.959	0	0.019	0	9.978	0			

GROUND STORY WALL SHEAR FORCES ANALYSIS

Wall Name	Wall Direction	Vx (t)	Vy (t)	Vbx1 (t)	Vby1 (t)	Vtx1 (t)	Vty1 (t)			
WZ05	X-X	1.411	0	0.003	0	1.413	0			
WZ06	X-X	9.705	0	0.019	0	9.724	0			
WZ07	X-X	7.835	0	0.003	0	7.837	0			
WZ08	X-X	6.009	0	0.01	0	6.019	0			
WZ09	X-X	1.128	0	0.002	0	1.13	0			
WZ10	X-X	0.846	0	0.002	0	0.848	0			
WZ11	X-X	5.36	0	0.013	0	5.373	0			
WZ12	X-X	7.321	0	0.056	0	7.377	0			
WZ13	X-X	5.642	0	0.043	0	5.686	0			
WZ14	X-X	6.729	0	0.051	0	6.78	0			
WZ15	X-X	4.867	0	0.037	0	4.904	0			
WZ16	Y-Y	0	8.899	0	0.237	0	9.135			
WZ17	Y-Y	0	12.881	0	0.343	0	13.223			
WZ18	Y-Y	0	12.347	0	0.329	0	12.675			
WZ19	Y-Y	0	8.899	0	0.237	0	9.135			
WZ20	Y-Y	0	10.526	0	0.086	0	10.612			
WZ21	Y-Y	0	1.932	0	0.016	0	1.948			
WZ22	Y-Y	0	9.109	0	0.004	0	9.113			
WZ23	Y-Y	0	8.39	0	0.072	0	8.462			
WZ24	Y-Y	0	0.763	0	0.007	0	0.769			
WZ25	Y-Y	0	0.763	0	0.007	0	0.769			
WZ26	Y-Y	0	2.67	0	0.057	0	2.727			
WZ27	Y-Y	0	2.67	0	0.057	0	2.727			
WZ28	Y-Y	0	31.969	0	0.827	0	32.796			
TOPLAM	---	104.883	111.815	0.588	2.278	105.471	114.094			

BASEMENT STORY WALL SHEAR FORCES ANALYSIS

Wall Name	Wall Direction	Vx (t)	Vy (t)	Vbx1 (t)	Vby1 (t)	Vtx1 (t)	Vty1 (t)			
WB01	X-X	36.531	0	1.587	0	38.118	0			
WB02	X-X	15.729	0	0.187	0	15.915	0			
WB03	X-X	2.228	0	0.026	0	2.254	0			
WB04	X-X	15.328	0	0.182	0	15.51	0			
WB05	X-X	8.681	0	0.008	0	8.689	0			
WB06	X-X	9.491	0	0.053	0	9.544	0			
WB07	X-X	1.782	0	0.01	0	1.792	0			
WB08	X-X	1.782	0	0.017	0	1.799	0			
WB09	X-X	8.466	0	0.079	0	8.544	0			
WB10	X-X	36.531	0	1.231	0	37.762	0			
WB11	Y-Y	0	37.804	0	2.455	0	40.258			

BASEMENT STORY WALL SHEAR FORCES ANALYSIS

Wall Name	Wall Direction	Vx (t)	Vy (t)	Vbx1 (t)	Vby1 (t)	Vtx1 (t)	Vty1 (t)			
WB12	Y-Y	0	18.289	0	0.421	0	18.71			
WB13	Y-Y	0	3.799	0	0.087	0	3.887			
WB14	Y-Y	0	16.157	0	0.047	0	16.205			
WB15	Y-Y	0	14.578	0	0.23	0	14.809			
WB16	Y-Y	0	1.325	0	0.021	0	1.346			
WB17	Y-Y	0	1.767	0	0.028	0	1.795			
WB18	Y-Y	0	2.577	0	0.119	0	2.696			
WB19	Y-Y	0	3.092	0	0.143	0	3.236			
WB20	Y-Y	0	37.804	0	2.136	0	39.94			
TOPLAM	---	136.549	137.193	3.378	5.689	139.928	142.881			

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1. STORY WALL VERTICAL STRESS CONTROL

Wall ID	Wall Material	Wall Length (m)	Wall Thickness (m)	Slenderness Ratio	Slenderness Reduction Factor	Compressive Safety Stress (Mpa)	Wall Vertical Load (t)	Wall Compressive Stress (Mpa)	Reduced Comp. Safety Stress (Mpa)	Comp. Capacity Usage Ratio	Status
W101	------	1.76	0.2	12.25	0.83	1	3.357	0.1	0.83	%11	Ok
W102	------	1.67	0.2	12.25	0.83	1	3.292	0.1	0.83	%12	Ok
W103	------	0.85	0.3	8.17	0.95	1	2.425	0.1	0.95	%10	Ok
W104	------	2.09	0.3	8.17	0.95	1	4.869	0.08	0.95	%8	Ok
W105	------	3.53	0.2	12.25	0.83	1	7.589	0.11	0.83	%13	Ok
W106	------	0.6	0.2	12.25	0.83	1	2.496	0.21	0.83	%25	Ok
W107	------	3.44	0.2	12.25	0.83	1	6.585	0.1	0.83	%11	Ok
W108	------	3.24	0.2	12.25	0.83	1	5.068	0.08	0.83	%9	Ok
W109	------	2.13	0.2	12.25	0.83	1	4.16	0.1	0.83	%12	Ok
W110	------	0.4	0.2	12.25	0.83	1	1.088	0.14	0.83	%16	Ok
W111	------	0.3	0.2	12.25	0.83	1	0.884	0.15	0.83	%18	Ok
W112	------	1.9	0.2	12.25	0.83	1	4.074	0.11	0.83	%13	Ok
W113	------	1.73	0.3	8.17	0.95	1	3.39	0.07	0.95	%7	Ok
W114	------	0.8	0.3	8.17	0.95	1	1.736	0.07	0.95	%8	Ok
W115	------	0.59	0.3	8.17	0.95	1	0.907	0.05	0.95	%5	Ok
W116	------	1.15	0.3	8.17	0.95	1	1.851	0.05	0.95	%6	Ok
W117	------	1.2	0.2	12.25	0.83	1	1.75	0.07	0.83	%9	Ok
W118	------	1.2	0.2	12.25	0.83	1	1.75	0.07	0.83	%9	Ok
W119	------	1.5	0.3	8.17	0.95	1	3.052	0.07	0.95	%7	Ok
W120	------	1.93	0.3	8.17	0.95	1	4.214	0.07	0.95	%8	Ok
W121	------	1.85	0.3	8.17	0.95	1	4.81	0.09	0.95	%9	Ok
W122	------	3	0.3	8.17	0.95	1	7.296	0.08	0.95	%9	Ok
W123	------	5.64	0.2	12.25	0.83	1	10.69	0.09	0.83	%11	Ok
W124	------	0.76	0.2	12.25	0.83	1	1.512	0.1	0.83	%12	Ok
W125	------	5.68	0.2	12.25	0.83	1	11.849	0.1	0.83	%13	Ok
W126	------	4.8	0.2	12.25	0.83	1	9.319	0.1	0.83	%12	Ok
W127	------	0.3	0.2	12.25	0.83	1	1.199	0.2	0.83	%24	Ok
W128	------	0.3	0.2	12.25	0.83	1	0.695	0.12	0.83	%14	Ok
W129	------	0.5	0.2	12.25	0.83	1	0.592	0.06	0.83	%7	Ok
W130	------	0.5	0.2	12.25	0.83	1	0.592	0.06	0.83	%7	Ok
W131	------	9.78	0.3	8.17	0.95	1	18.084	0.06	0.95	%7	Ok

GROUND STORY WALL VERTICAL STRESS CONTROL

Wall ID	Wall Material	Wall Length (m)	Wall Thickness (m)	Slenderness Ratio	Slenderness Reduction Factor	Compressive Safety Stress (Mpa)	Wall Vertical Load (t)	Wall Compressive Stress (Mpa)	Reduced Comp. Safety Stress (Mpa)	Comp. Capacity Usage Ratio	Status
WZ01	------	1.76	0.3	8.17	0.95	1	5.397	0.1	0.95	%11	Ok
WZ02	------	2.32	0.3	8.17	0.95	1	12.431	0.18	0.95	%19	Ok
WZ03	------	2.09	0.3	8.17	0.95	1	11.454	0.18	0.95	%19	Ok
WZ04	------	3.53	0.2	12.25	0.83	1	15.684	0.22	0.83	%27	Ok
WZ05	------	0.6	0.2	12.25	0.83	1	5.276	0.44	0.83	%53	Ok

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GROUND STORY WALL VERTICAL STRESS CONTROL

Wall ID	Wall Material	Wall Length (m)	Wall Thickness (m)	Slenderness Ratio	Slenderness Reduction Factor	Compressive Safety Stress (Mpa)	Wall Vertical Load (t)	Wall Compressive Stress (Mpa)	Reduced Comp. Safety Stress (Mpa)	Comp. Capacity Usage Ratio	Status
WZ06	------	3.44	0.2	12.25	0.83	1	13.64	0.2	0.83	%24	Ok
WZ07	------	3.24	0.2	12.25	0.83	1	11.304	0.17	0.83	%21	Ok
WZ08	------	2.13	0.2	12.25	0.83	1	8.64	0.2	0.83	%24	Ok
WZ09	------	0.4	0.2	12.25	0.83	1	2.307	0.29	0.83	%35	Ok
WZ10	------	0.3	0.2	12.25	0.83	1	1.886	0.31	0.83	%38	Ok
WZ11	------	1.9	0.2	12.25	0.83	1	8.58	0.23	0.83	%27	Ok
WZ12	------	1.73	0.3	8.17	0.95	1	9.531	0.18	0.95	%19	Ok
WZ13	------	1.6	0.3	8.17	0.95	1	7.698	0.16	0.95	%17	Ok
WZ14	------	1.59	0.3	8.17	0.95	1	5.071	0.11	0.95	%11	Ok
WZ15	------	1.15	0.3	8.17	0.95	1	4.02	0.12	0.95	%12	Ok
WZ16	------	1.5	0.3	8.17	0.95	1	6.443	0.14	0.95	%15	Ok
WZ17	------	1.93	0.3	8.17	0.95	1	8.903	0.15	0.95	%16	Ok
WZ18	------	1.85	0.3	8.17	0.95	1	9.837	0.18	0.95	%19	Ok
WZ19	------	1.5	0.3	8.17	0.95	1	7.681	0.17	0.95	%18	Ok
WZ20	------	4.14	0.2	12.25	0.83	1	16.431	0.2	0.83	%24	Ok
WZ21	------	0.76	0.2	12.25	0.83	1	3.166	0.21	0.83	%25	Ok
WZ22	------	4.18	0.2	12.25	0.83	1	17.709	0.21	0.83	%25	Ok
WZ23	------	3.3	0.2	12.25	0.83	1	14.682	0.22	0.83	%27	Ok
WZ24	------	0.3	0.2	12.25	0.83	1	2.679	0.45	0.83	%54	Ok
WZ25	------	0.3	0.2	12.25	0.83	1	1.483	0.25	0.83	%30	Ok
WZ26	------	0.5	0.2	12.25	0.83	1	1.274	0.13	0.83	%15	Ok
WZ27	------	0.5	0.2	12.25	0.83	1	1.274	0.13	0.83	%15	Ok
WZ28	------	9.78	0.3	8.17	0.95	1	38.207	0.13	0.95	%14	Ok

BASEMENT STORY WALL VERTICAL STRESS CONTROL

Wall ID	Wall Material	Wall Length (m)	Wall Thickness (m)	Slenderness Ratio	Slenderness Reduction Factor	Compressive Safety Stress (Mpa)	Wall Vertical Load (t)	Wall Compressive Stress (Mpa)	Reduced Comp. Safety Stress (Mpa)	Comp. Capacity Usage Ratio	Status
WB01	------	9.37	0.3	8	0.95	1	49.998	0.18	0.95	%19	Ok
WB02	------	3.53	0.3	8	0.95	1	25.335	0.24	0.95	%25	Ok
WB03	------	0.6	0.3	8	0.95	1	8.441	0.47	0.95	%49	Ok
WB04	------	3.44	0.3	8	0.95	1	22.251	0.22	0.95	%23	Ok
WB05	------	3.34	0.2	12	0.84	1	17.695	0.26	0.84	%32	Ok
WB06	------	2.13	0.3	8	0.95	1	14.056	0.22	0.95	%23	Ok
WB07	------	0.4	0.3	8	0.95	1	3.598	0.3	0.95	%32	Ok
WB08	------	0.4	0.3	8	0.95	1	3.155	0.26	0.95	%28	Ok
WB09	------	1.9	0.3	8	0.95	1	13.874	0.24	0.95	%26	Ok
WB10	------	9.37	0.3	8	0.95	1	44.623	0.16	0.95	%17	Ok
WB11	------	9.78	0.3	8	0.95	1	52.57	0.18	0.95	%19	Ok
WB12	------	4.14	0.3	8	0.95	1	26.68	0.21	0.95	%23	Ok
WB13	------	0.86	0.3	8	0.95	1	5.318	0.21	0.95	%22	Ok

BASEMENT STORY WALL VERTICAL STRESS CONTROL

Wall ID	Wall Material	Wall Length (m)	Wall Thickness (m)	Slenderness Ratio	Slenderness Reduction Factor	Compressive Safety Stress (Mpa)	Wall Vertical Load (t)	Wall Compressive Stress (Mpa)	Reduced Comp. Safety Stress (Mpa)	Comp. Capacity Usage Ratio	Status
WB14	------	4.18	0.3	8	0.95	1	28.144	0.22	0.95	%24	Ok
WB15	------	3.3	0.3	8	0.95	1	24.259	0.25	0.95	%26	Ok
WB16	------	0.3	0.3	8	0.95	1	4.408	0.49	0.95	%52	Ok
WB17	------	0.4	0.3	8	0.95	1	2.538	0.21	0.95	%22	Ok
WB18	------	0.5	0.2	12	0.84	1	1.936	0.19	0.84	%23	Ok
WB19	------	0.6	0.2	12	0.84	1	1.993	0.17	0.84	%20	Ok
WB20	------	9.78	0.3	8	0.95	1	58.084	0.2	0.95	%21	Ok

StatiCAD-Yigma
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1. STORY WALL SHEAR STRESS CONTROL

Wall ID	Wall Material	Wall Length (m)	Wall Thickness (m)	Wall Vertical Load (t)	Wall Vertical Stress (Mpa)	Cracking Safety Stress(Mpa)	Shear Force Acting on Wall(t)	Wall Shear Stress (Mpa)	Shear Safety Stress (Mpa)	Shear Capacity Usage Ratio	Status
W101	------	1.76	0.2	1.562	0.04	0.25	4.66	0.13	0.27	%49	Ok
W102	------	1.67	0.2	1.539	0.05	0.25	4.42	0.13	0.27	%48	Ok
W103	------	0.85	0.3	1.191	0.05	0.25	3.35	0.13	0.27	%48	Ok
W104	------	2.09	0.3	1.831	0.03	0.25	8.25	0.13	0.26	%50	Ok
W105	------	3.53	0.2	3.678	0.05	0.25	5.88	0.08	0.28	%30	Ok
W106	------	0.6	0.2	1.644	0.14	0.25	0.83	0.07	0.32	%22	Ok
W107	------	3.44	0.2	2.919	0.04	0.25	5.73	0.08	0.27	%31	Ok
W108	------	3.24	0.2	1.888	0.03	0.25	4.6	0.07	0.26	%27	Ok
W109	------	2.13	0.2	1.929	0.05	0.25	3.54	0.08	0.27	%30	Ok
W110	------	0.4	0.2	0.69	0.09	0.25	0.66	0.08	0.29	%28	Ok
W111	------	0.3	0.2	0.599	0.1	0.25	0.5	0.08	0.3	%28	Ok
W112	------	1.9	0.2	2.01	0.05	0.25	3.16	0.08	0.28	%30	Ok
W113	------	1.73	0.3	1.005	0.02	0.25	4.37	0.08	0.26	%32	Ok
W114	------	0.8	0.3	0.658	0.03	0.25	2.02	0.08	0.26	%32	Ok
W115	------	0.59	0.3	0.181	0.01	0.25	1.49	0.08	0.26	%33	Ok
W116	------	1.15	0.3	0.37	0.01	0.25	2.91	0.08	0.26	%33	Ok
W117	------	1.2	0.2	0.611	0.03	0.25	3.16	0.13	0.26	%50	Ok
W118	------	1.2	0.2	0.611	0.03	0.25	3.16	0.13	0.26	%50	Ok
W119	------	1.5	0.3	0.99	0.02	0.25	5	0.11	0.26	%43	Ok
W120	------	1.93	0.3	1.302	0.02	0.25	7.24	0.13	0.26	%48	Ok
W121	------	1.85	0.3	1.903	0.03	0.25	6.94	0.13	0.27	%47	Ok
W122	------	3	0.3	2.715	0.03	0.25	10	0.11	0.27	%42	Ok
W123	------	5.64	0.2	4.57	0.04	0.25	7.69	0.07	0.27	%25	Ok
W124	------	0.76	0.2	0.762	0.05	0.25	1.04	0.07	0.28	%25	Ok
W125	------	5.68	0.2	5.548	0.05	0.25	6.54	0.06	0.27	%21	Ok
W126	------	4.8	0.2	4.076	0.04	0.25	6.59	0.07	0.27	%25	Ok
W127	------	0.3	0.2	0.795	0.13	0.25	0.41	0.07	0.32	%22	Ok
W128	------	0.3	0.2	0.443	0.07	0.25	0.41	0.07	0.29	%24	Ok
W129	------	0.5	0.2	0.196	0.02	0.25	1.49	0.15	0.26	%57	Ok
W130	------	0.5	0.2	0.196	0.02	0.25	1.49	0.15	0.26	%57	Ok
W131	------	9.78	0.3	3.95	0.01	0.25	18.04	0.06	0.26	%24	Ok

GROUND STORY WALL SHEAR STRESS CONTROL

Wall ID	Wall Material	Wall Length (m)	Wall Thickness (m)	Wall Vertical Load (t)	Wall Vertical Stress (Mpa)	Cracking Safety Stress(Mpa)	Shear Force Acting on Wall(t)	Wall Shear Stress (Mpa)	Shear Safety Stress (Mpa)	Shear Capacity Usage Ratio	Status
WZ01	------	1.76	0.3	2.548	0.05	0.25	11.69	0.22	0.27	%81	Ok
WZ02	------	2.32	0.3	7.744	0.11	0.25	12.84	0.18	0.31	%60	Ok
WZ03	------	2.09	0.3	7.725	0.12	0.25	13.88	0.22	0.31	%71	Ok
WZ04	------	3.53	0.2	10.787	0.15	0.25	9.98	0.14	0.33	%43	Ok
WZ05	------	0.6	0.2	4.041	0.34	0.25	1.41	0.12	0.42	%28	Ok

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GROUND STORY WALL SHEAR STRESS CONTROL

Wall ID	Wall Material	Wall Length (m)	Wall Thickness (m)	Wall Vertical Load (t)	Wall Vertical Stress (Mpa)	Cracking Safety Stress(Mpa)	Shear Force Acting on Wall(t)	Wall Shear Stress (Mpa)	Shear Safety Stress (Mpa)	Shear Capacity Usage Ratio	Status
WZ06	------	3.44	0.2	9.186	0.13	0.25	9.72	0.14	0.32	%45	Ok
WZ07	------	3.24	0.2	7.352	0.11	0.25	7.84	0.12	0.31	%39	Ok
WZ08	------	2.13	0.2	5.901	0.14	0.25	6.02	0.14	0.32	%44	Ok
WZ09	------	0.4	0.2	1.753	0.22	0.25	1.13	0.14	0.36	%39	Ok
WZ10	------	0.3	0.2	1.47	0.25	0.25	0.85	0.14	0.37	%38	Ok
WZ11	------	1.9	0.2	5.982	0.16	0.25	5.37	0.14	0.33	%43	Ok
WZ12	------	1.73	0.3	6.303	0.12	0.25	7.38	0.14	0.31	%46	Ok
WZ13	------	1.6	0.3	4.635	0.1	0.25	5.69	0.12	0.3	%40	Ok
WZ14	------	1.59	0.3	2.432	0.05	0.25	6.78	0.14	0.28	%52	Ok
WZ15	------	1.15	0.3	2.356	0.07	0.25	4.9	0.14	0.28	%50	Ok
WZ16	------	1.5	0.3	4.156	0.09	0.25	9.14	0.2	0.3	%69	Ok
WZ17	------	1.93	0.3	5.716	0.1	0.25	13.22	0.23	0.3	%76	Ok
WZ18	------	1.85	0.3	6.605	0.12	0.25	12.68	0.23	0.31	%74	Ok
WZ19	------	1.5	0.3	5.233	0.12	0.25	9.14	0.2	0.31	%66	Ok
WZ20	------	4.14	0.2	11.059	0.13	0.25	10.61	0.13	0.32	%40	Ok
WZ21	------	0.76	0.2	2.239	0.15	0.25	1.95	0.13	0.32	%40	Ok
WZ22	------	4.18	0.2	12.077	0.14	0.25	9.11	0.11	0.32	%34	Ok
WZ23	------	3.3	0.2	9.979	0.15	0.25	8.46	0.13	0.33	%39	Ok
WZ24	------	0.3	0.2	2.075	0.35	0.25	0.77	0.13	0.42	%30	Ok
WZ25	------	0.3	0.2	1.145	0.19	0.25	0.77	0.13	0.35	%37	Ok
WZ26	------	0.5	0.2	0.848	0.08	0.25	2.73	0.27	0.29	%93	Ok
WZ27	------	0.5	0.2	0.848	0.08	0.25	2.73	0.27	0.29	%93	Ok
WZ28	------	9.78	0.3	22.524	0.08	0.25	32.8	0.11	0.29	%39	Ok

BASEMENT STORY WALL SHEAR STRESS CONTROL

Wall ID	Wall Material	Wall Length (m)	Wall Thickness (m)	Wall Vertical Load (t)	Wall Vertical Stress (Mpa)	Cracking Safety Stress(Mpa)	Shear Force Acting on Wall(t)	Wall Shear Stress (Mpa)	Shear Safety Stress (Mpa)	Shear Capacity Usage Ratio	Status
WB01	------	9.37	0.3	33.041	0.12	0.25	38.12	0.14	0.31	%44	Ok
WB02	------	3.53	0.3	17.951	0.17	0.25	15.92	0.15	0.33	%45	Ok
WB03	------	0.6	0.3	6.555	0.36	0.25	2.25	0.13	0.43	%29	Ok
WB04	------	3.44	0.3	15.54	0.15	0.25	15.51	0.15	0.33	%46	Ok
WB05	------	3.34	0.2	12.941	0.19	0.25	8.69	0.13	0.35	%37	Ok
WB06	------	2.13	0.3	9.931	0.16	0.25	9.54	0.15	0.33	%46	Ok
WB07	------	0.4	0.3	2.834	0.24	0.25	1.79	0.15	0.37	%41	Ok
WB08	------	0.4	0.3	2.44	0.2	0.25	1.8	0.15	0.35	%43	Ok
WB09	------	1.9	0.3	10.018	0.18	0.25	8.54	0.15	0.34	%44	Ok
WB10	------	9.37	0.3	28.402	0.1	0.25	37.76	0.13	0.3	%45	Ok
WB11	------	9.78	0.3	36.32	0.12	0.25	40.26	0.14	0.31	%44	Ok
WB12	------	4.14	0.3	18.599	0.15	0.25	18.71	0.15	0.32	%46	Ok
WB13	------	0.86	0.3	3.836	0.15	0.25	3.89	0.15	0.32	%46	Ok

BASEMENT STORY WALL SHEAR STRESS CONTROL

Wall ID	Wall Material	Wall Length (m)	Wall Thickness (m)	Wall Vertical Load (t)	Wall Vertical Stress (Mpa)	Cracking Safety Stress(Mpa)	Shear Force Acting on Wall(t)	Wall Shear Stress (Mpa)	Shear Safety Stress (Mpa)	Shear Capacity Usage Ratio	Status
WB14	------	4.18	0.3	19.779	0.16	0.25	16.2	0.13	0.33	%39	Ok
WB15	------	3.3	0.3	16.99	0.17	0.25	14.81	0.15	0.34	%45	Ok
WB16	------	0.3	0.3	3.465	0.38	0.25	1.35	0.15	0.44	%34	Ok
WB17	------	0.4	0.3	1.945	0.16	0.25	1.79	0.15	0.33	%45	Ok
WB18	------	0.5	0.2	1.485	0.15	0.25	2.7	0.27	0.32	%83	Ok
WB19	------	0.6	0.2	1.494	0.12	0.25	3.24	0.27	0.31	%86	Ok
WB20	------	9.78	0.3	41.07	0.14	0.25	39.94	0.14	0.32	%43	Ok

1. STORY VERTICAL BOND BEAM STRESS CONTROL

Vertical Bond Beam ID	B/H (cm)	Vdmajor (t)	Vdminor (t)	Vmax-major (t)	VMax-minor (t)	Stirrup	Vrmajor (t)	Vrminor (t)	Nd/Ncr	Status
DH101	30/30	4.67	3.95	23.32	23.32	Φ8/20	9	9	%0.83	Ok
DH102	20/30	2.48	3.12	15.55	14.52	Φ8/20	7.62	5.6	%0.83	Ok
DH103	30/30	4.67	3.96	23.32	23.32	Φ8/20	9	9	%0.83	Ok
DH104	30/30	4.65	3.95	23.32	23.32	Φ8/20	9	9	%0.83	Ok
DH105	25/30	3.14	3.88	19.43	18.92	Φ8/20	8.31	7.3	%0.83	Ok
DH106	30/60	9.31	7.61	49.72	46.64	Φ8/20	19.19	13.13	%0.83	Ok
DH107	30/30	4.65	3.91	23.32	23.32	Φ8/20	9	9	%0.83	Ok
DH108	30/30	4.65	3.96	23.32	23.32	Φ8/20	9	9	%0.83	Ok

GROUND STORY VERTICAL BOND BEAM STRESS CONTROL

Vertical Bond Beam ID	B/H (cm)	Vdmajor (t)	Vdminor (t)	Vmax-major (t)	VMax-minor (t)	Stirrup	Vrmajor (t)	Vrminor (t)	Nd/Ncr	Status
DHZ01	30/30	7.86	7.21	23.32	23.32	Φ8/20	9	9	%1.66	Ok
DHZ02	30/30	7.86	7.03	23.32	23.32	Φ8/20	9	9	%1.39	Ok
DHZ03	30/30	7.86	7.21	23.32	23.32	Φ8/20	9	9	%1.66	Ok
DHZ04	30/30	7.86	7.21	23.32	23.32	Φ8/20	9	9	%1.66	Ok
DHZ05	30/30	7.86	7.08	23.32	23.32	Φ8/20	9	9	%1.52	Ok
DHZ06	30/60	15.71	14.19	49.72	46.64	Φ8/16	19.19	14.35	%2.11	Ok
DHZ07	30/30	7.86	7.17	23.32	23.32	Φ8/20	9	9	%2.56	Ok
DHZ08	30/30	7.86	7.21	23.32	23.32	Φ8/20	9	9	%1.66	Ok

BASEMENT STORY VERTICAL BOND BEAM STRESS CONTROL

Vertical Bond Beam ID	B/H (cm)	Vdmajor (t)	Vdminor (t)	Vmax-major (t)	VMax-minor (t)	Stirrup	Vrmajor (t)	Vrminor (t)	Nd/Ncr	Status
DHB01	30/30	8.72	8.82	23.32	23.32	Φ8/20	9	9	%15.73	Ok
DHB02	30/30	8.72	8.31	23.32	23.32	Φ8/20	9	9	%16.18	Ok
DHB03	30/30	8.72	8.75	23.32	23.32	Φ8/20	9	9	%2.48	Ok
DHB04	30/30	8.64	8.82	23.32	23.32	Φ8/20	9	9	%2.48	Ok
DHB05	30/30	8.64	8.47	23.32	23.32	Φ8/20	9	9	%12.78	Ok
DHB06	30/60	17.27	16.88	49.72	46.64	Φ8/11	19.19	17.11	%7.97	Ok
DHB07	30/30	8.64	8.65	23.32	23.32	Φ8/20	9	9	%4.7	Ok
DHB08	30/30	8.64	8.75	23.32	23.32	Φ8/20	9	9	%2.48	Ok