

HIGHER POWER HYDRAULIC DOORS
UNFACTORED DOOR JAMB REACTIONS - 180 mph - ASCE 7-16

Weight (psf)	Door Height	Wind Vel. A (mph)	Wind Load A (psf)	Wind Vel. B (mph)	Wind Load B (psf)	Wind Vel. C (mph)	Wind Load C (psf) Downward	Wind Load C (psf) Uplift
10.0	$h \leq 24$ ft	180	67.7	50	7.2	50	3.2	-5.9
	24 ft < $h \leq 32$ ft		71.9		7.6		3.4	-6.2

Wind Vel. A = Code Basic Wind Speed

Wind Vel. B = Maximum Wind Speed while Opening Door

Wind Vel. C = Maximum Wind Speed while Door Open

Base Reaction = Reaction of Jamb Column into Floor Slab

Top Reaction = Reaction of Jamb Column to Building Column/Frame Beam

METHODOLOGY

Reactions calculated based on ASCE 7-16.

Wind forces based on Component & Cladding loads, using the door area as the effective wind area.

Wind speed when door is open or opening is limited to 50 mph.

Velocity pressure is calculated per ASCE 7-16, EQN. 26.10-1.

No net uplift exists in jamb columns as door self-weight offsets wind uplift forces.

ASSUMPTIONS

Building meets the conditions of ASCE 7-16, Section 31.1.2.

Building is considered Risk Category II.

For doors $\leq 24'$ in height, assumed mean roof height = 30'.

For doors $24' < h \leq 32'$, assumed mean roof height = 40'.

Building is considered enclosed when the door is closed, and partially enclosed when the door is open or opening.

Wind Exposure = "C".

Notes:

(+) Base Vertical Reaction = Down

(+) Top Vertical Reaction = Up

Horizontal Reactions Are Either Towards Or Away From Door

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Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
30	10	5741	1980	4416	0
30	12	6771	2376	5417	0
30	14	7798	2772	6422	0
30	16	8822	3168	7429	0
30	18	9844	3564	8438	0
30	20	10865	3960	9448	0
30	22	11885	4356	10459	0
30	24	12905	4752	11471	0
30	26	14776	5224	13248	0
30	28	15857	5626	14322	0
30	30	16937	6028	15398	0
30	32	18018	6429	16473	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
32	10	6123	2112	4710	0
32	12	7222	2534	5778	0
32	14	8317	2957	6850	0
32	16	9410	3379	7924	0
32	18	10500	3801	9000	0
32	20	11590	4224	10078	0
32	22	12678	4646	11156	0
32	24	13765	5068	12236	0
32	26	15761	5572	14131	0
32	28	16914	6001	15277	0
32	30	18067	6429	16424	0
32	32	19219	6858	17571	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
34	10	6506	2244	5005	0
34	12	7674	2693	6139	0
34	14	8837	3141	7278	0
34	16	9998	3590	8419	0
34	18	11157	4039	9563	0
34	20	12314	4488	10708	0
34	22	13470	4936	11854	0
34	24	14625	5385	13000	0
34	26	16746	5920	15014	0
34	28	17971	6376	16232	0
34	30	19196	6831	17451	0
34	32	20420	7287	18670	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
36	10	6889	2376	5299	0
36	12	8125	2851	6500	0
36	14	9357	3326	7706	0
36	16	10586	3801	8915	0
36	18	11813	4276	10125	0
36	20	13038	4752	11338	0
36	22	14262	5227	12551	0
36	24	15486	5702	13765	0
36	26	17731	6269	15897	0
36	28	19028	6751	17187	0
36	30	20325	7233	18477	0
36	32	21621	7715	19768	0

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Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
38	10	7272	2508	5593	0
38	12	8577	3009	6861	0
38	14	9877	3511	8134	0
38	16	11174	4012	9410	0
38	18	12469	4514	10688	0
38	20	13763	5016	11967	0
38	22	15055	5517	13248	0
38	24	16346	6019	14530	0
38	26	18717	6617	16780	0
38	28	20086	7126	18142	0
38	30	21454	7635	19504	0
38	32	22822	8144	20866	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
40	10	7654	2640	5888	0
40	12	9028	3168	7222	0
40	14	10397	3696	8562	0
40	16	11762	4224	9905	0
40	18	13125	4752	11250	0
40	20	14487	5279	12597	0
40	22	15847	5807	13945	0
40	24	17206	6335	15295	0
40	26	19702	6965	17664	0
40	28	21143	7501	19097	0
40	30	22583	8037	20530	0
40	32	24024	8573	21964	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
42	10	8037	2772	6182	0
42	12	9479	3326	7584	0
42	14	10917	3880	8990	0
42	16	12350	4435	10400	0
42	18	13782	4989	11813	0
42	20	15211	5543	13227	0
42	22	16639	6098	14643	0
42	24	18067	6652	16059	0
42	26	20687	7313	18547	0
42	28	22200	7876	20051	0
42	30	23712	8439	21557	0
42	32	25225	9001	23063	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
44	10	8420	2904	6477	0
44	12	9931	3484	7945	0
44	14	11437	4065	9418	0
44	16	12939	4646	10896	0
44	18	14438	5227	12375	0
44	20	15936	5807	13857	0
44	22	17432	6388	15340	0
44	24	18927	6969	16824	0
44	26	21672	7662	19430	0
44	28	23257	8251	21006	0
44	30	24842	8840	22583	0
44	32	26426	9430	24161	0

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Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
46	10	8802	3036	6771	0
46	12	10382	3643	8306	0
46	14	11956	4250	9846	0
46	16	13527	4857	11391	0
46	18	15094	5464	12938	0
46	20	16660	6071	14487	0
46	22	18224	6679	16037	0
46	24	19787	7286	17589	0
46	26	22657	8010	20313	0
46	28	24314	8626	21961	0
46	30	25971	9242	23610	0
46	32	27627	9858	25259	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
48	10	9185	3168	7065	0
48	12	10834	3801	8667	0
48	14	12476	4435	10275	0
48	16	14115	5068	11886	0
48	18	15751	5702	13500	0
48	20	17384	6335	15117	0
48	22	19017	6969	16735	0
48	24	20648	7602	18354	0
48	26	23642	8358	21196	0
48	28	25371	9001	22916	0
48	30	27100	9644	24636	0
48	32	28828	10287	26357	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
50	10	9568	3300	7360	0
50	12	11285	3960	9028	0
50	14	12996	4620	10703	0
50	16	14703	5279	12381	0
50	18	16407	5939	14063	0
50	20	18109	6599	15747	0
50	22	19809	7259	17432	0
50	24	21508	7919	19118	0
50	26	24627	8706	22079	0
50	28	26428	9376	23871	0
50	30	28229	10046	25663	0
50	32	30029	10716	27455	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
52	10	9951	3432	7654	0
52	12	11736	4118	9389	0
52	14	13516	4804	11131	0
52	16	15291	5491	12877	0
52	18	17063	6177	14625	0
52	20	18833	6863	16376	0
52	22	20601	7550	18129	0
52	24	22368	8236	19883	0
52	26	25612	9055	22963	0
52	28	27486	9751	24826	0
52	30	29358	10448	26689	0
52	32	31231	11144	28554	0

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Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
54	10	10333	3564	7949	0
54	12	12188	4276	9750	0
54	14	14036	4989	11559	0
54	16	15879	5702	13372	0
54	18	17719	6415	15188	0
54	20	19557	7127	17006	0
54	22	21394	7840	18826	0
54	24	23229	8553	20648	0
54	26	26597	9403	23846	0
54	28	28543	10126	25780	0
54	30	30487	10850	27716	0
54	32	32432	11573	29652	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
56	10	10716	3696	8243	0
56	12	12639	4435	10111	0
56	14	14556	5174	11987	0
56	16	16467	5913	13867	0
56	18	18376	6652	15751	0
56	20	20282	7391	17636	0
56	22	22186	8130	19524	0
56	24	24089	8870	21412	0
56	26	27582	9751	24729	0
56	28	29600	10501	26735	0
56	30	31617	11251	28742	0
56	32	33633	12002	30750	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
58	10	11099	3828	8537	0
58	12	13091	4593	10473	0
58	14	15075	5359	12415	0
58	16	17055	6124	14362	0
58	18	19032	6890	16313	0
58	20	21006	7655	18266	0
58	22	22978	8421	20221	0
58	24	24949	9186	22177	0
58	26	28567	10099	25612	0
58	28	30657	10876	27690	0
58	30	32746	11653	29769	0
58	32	34834	12430	31848	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
60	10	11481	3960	8832	0
60	12	13542	4752	10834	0
60	14	15595	5543	12843	0
60	16	17643	6335	14858	0
60	18	19688	7127	16876	0
60	20	21730	7919	18896	0
60	22	23771	8711	20918	0
60	24	25810	9503	22942	0
60	26	29552	10448	26495	0
60	28	31714	11251	28645	0
60	30	33875	12055	30795	0
60	32	36035	12859	32947	0

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Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
62	10	11864	4092	9126	0
62	12	13994	4910	11195	0
62	14	16115	5728	13271	0
62	16	18232	6547	15353	0
62	18	20344	7365	17438	0
62	20	22455	8183	19526	0
62	22	24563	9002	21615	0
62	24	26670	9820	23707	0
62	26	30538	10796	27378	0
62	28	32771	11626	29600	0
62	30	35004	12457	31822	0
62	32	37236	13287	34045	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
64	10	12247	4224	9421	0
64	12	14445	5068	11556	0
64	14	16635	5913	13699	0
64	16	18820	6758	15848	0
64	18	21001	7602	18001	0
64	20	23179	8447	20156	0
64	22	25355	9292	22313	0
64	24	27530	10137	24471	0
64	26	31523	11144	28262	0
64	28	33828	12002	30555	0
64	30	36133	12859	32848	0
64	32	38438	13716	35143	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
66	10	12629	4356	9715	0
66	12	14896	5227	11917	0
66	14	17155	6098	14127	0
66	16	19408	6969	16343	0
66	18	21657	7840	18563	0
66	20	23903	8711	20786	0
66	22	26148	9582	23010	0
66	24	28391	10453	25236	0
66	26	32508	11493	29145	0
66	28	34886	12377	31509	0
66	30	37262	13261	33875	0
66	32	39639	14145	36241	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
68	10	13012	4488	10009	0
68	12	15348	5385	12278	0
68	14	17675	6283	14556	0
68	16	19996	7180	16839	0
68	18	22313	8078	19126	0
68	20	24628	8975	21415	0
68	22	26940	9873	23707	0
68	24	29251	10770	26001	0
68	26	33493	11841	30028	0
68	28	35943	12752	32464	0
68	30	38392	13662	34902	0
68	32	40840	14573	37339	0

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Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
70	10	13395	4620	10304	0
70	12	15799	5543	12639	0
70	14	18194	6467	14984	0
70	16	20584	7391	17334	0
70	18	22969	8315	19688	0
70	20	25352	9239	22045	0
70	22	27732	10163	24405	0
70	24	30111	11087	26766	0
70	26	34478	12189	30911	0
70	28	37000	13127	33419	0
70	30	39521	14064	35928	0
70	32	42041	15002	38438	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
72	10	13778	4752	10598	0
72	12	16251	5702	13000	0
72	14	18714	6652	15412	0
72	16	21172	7602	17829	0
72	18	23626	8553	20251	0
72	20	26076	9503	22675	0
72	22	28525	10453	25102	0
72	24	30972	11404	27530	0
72	26	35463	12537	31794	0
72	28	38057	13502	34374	0
72	30	40650	14466	36955	0
72	32	43242	15431	39536	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
74	10	14160	4884	10893	0
74	12	16702	5860	13362	0
74	14	19234	6837	15840	0
74	16	21760	7814	18324	0
74	18	24282	8790	20813	0
74	20	26801	9767	23305	0
74	22	29317	10744	25799	0
74	24	31832	11720	28295	0
74	26	34478	12886	32678	0
74	28	37000	13877	35329	0
74	30	39521	14868	37981	0
74	32	42041	15859	40634	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
76	10	14543	5016	11187	0
76	12	17153	6019	13723	0
76	14	19754	7022	16268	0
76	16	22348	8025	18820	0
76	18	24938	9028	21376	0
76	20	27525	10031	23935	0
76	22	30110	11034	26496	0
76	24	32692	12037	29060	0
76	26	37433	13234	33561	0
76	28	40171	14252	36284	0
76	30	42908	15270	39008	0
76	32	45645	16288	41732	0

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Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
78	10	14926	5148	11481	0
78	12	17605	6177	14084	0
78	14	20274	7207	16696	0
78	16	22936	8236	19315	0
78	18	25595	9266	21938	0
78	20	28249	10295	24565	0
78	22	30902	11325	27194	0
78	24	33553	12354	29824	0
78	26	38418	13582	34444	0
78	28	41228	14627	37238	0
78	30	44037	15672	40034	0
78	32	46846	16716	42830	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
80	10	15308	5279	11776	0
80	12	18056	6335	14445	0
80	14	20794	7391	17124	0
80	16	23525	8447	19810	0
80	18	26251	9503	22501	0
80	20	28974	10559	25195	0
80	22	31694	11615	27891	0
80	24	34413	12671	30589	0
80	26	39403	13930	35327	0
80	28	42285	15002	38193	0
80	30	45167	16073	41061	0
80	32	48047	17145	43929	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
82	10	15691	5411	12070	0
82	12	18508	6494	14806	0
82	14	21314	7576	17552	0
82	16	24113	8658	20305	0
82	18	26907	9741	23063	0
82	20	29698	10823	25824	0
82	22	32487	11905	28588	0
82	24	35273	12988	31354	0
82	26	40388	14279	36210	0
82	28	43343	15377	39148	0
82	30	46296	16475	42087	0
82	32	49248	17574	45027	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
84	10	16074	5543	12365	0
84	12	18959	6652	15167	0
84	14	21833	7761	17980	0
84	16	24701	8870	20801	0
84	18	27563	9978	23626	0
84	20	30422	11087	26454	0
84	22	33279	12196	29286	0
84	24	36134	13304	32119	0
84	26	41373	14627	37093	0
84	28	44400	15752	40103	0
84	30	47425	16877	43114	0
84	32	50449	18002	46125	0

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Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
86	10	16457	5675	12659	0
86	12	19410	6811	15528	0
86	14	22353	7946	18409	0
86	16	25289	9081	21296	0
86	18	28220	10216	24188	0
86	20	31147	11351	27084	0
86	22	34071	12486	29983	0
86	24	36994	13621	32883	0
86	26	42358	14975	37977	0
86	28	45457	16127	41058	0
86	30	48554	17279	44140	0
86	32	51651	18431	47223	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
88	10	16839	5807	12953	0
88	12	19862	6969	15889	0
88	14	22873	8130	18837	0
88	16	25877	9292	21791	0
88	18	28876	10453	24751	0
88	20	31871	11615	27714	0
88	22	34864	12776	30680	0
88	24	37854	13938	33648	0
88	26	43344	15323	38860	0
88	28	46514	16502	42013	0
88	30	49683	17681	45167	0
88	32	52852	18860	48322	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
90	10	17222	5939	13248	0
90	12	20313	7127	16251	0
90	14	23393	8315	19265	0
90	16	26465	9503	22286	0
90	18	29532	10691	25313	0
90	20	32596	11879	28344	0
90	22	35656	13067	31377	0
90	24	38714	14255	34413	0
90	26	44329	15672	39743	0
90	28	47571	16877	42967	0
90	30	50812	18083	46193	0
90	32	54053	19288	49420	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
92	10	17605	6071	13542	0
92	12	20765	7286	16612	0
92	14	23913	8500	19693	0
92	16	27053	9714	22782	0
92	18	30188	10929	25876	0
92	20	33320	12143	28974	0
92	22	36448	13357	32075	0
92	24	39575	14571	35178	0
92	26	45314	16020	40626	0
92	28	48628	17252	43922	0
92	30	51942	18484	47220	0
92	32	55254	19717	50518	0

HIGHER POWER HYDRAULIC DOORS
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Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
94	10	17987	6203	13836	0
94	12	21216	7444	16973	0
94	14	24433	8685	20121	0
94	16	27641	9925	23277	0
94	18	30845	11166	26438	0
94	20	34044	12407	29604	0
94	22	37241	13647	32772	0
94	24	40435	14888	35942	0
94	26	46299	16368	41509	0
94	28	49685	17627	44877	0
94	30	53071	18886	48246	0
94	32	56455	20145	51616	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
96	10	18370	6335	14131	0
96	12	21667	7602	17334	0
96	14	24952	8870	20549	0
96	16	28229	10137	23772	0
96	18	31501	11404	27001	0
96	20	34769	12671	30234	0
96	22	38033	13938	33469	0
96	24	41295	15205	36707	0
96	26	47284	16716	42392	0
96	28	50743	18002	45832	0
96	30	54200	19288	49273	0
96	32	57656	20574	52714	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
98	10	18753	6467	14425	0
98	12	22119	7761	17695	0
98	14	25472	9054	20977	0
98	16	28818	10348	24267	0
98	18	32157	11641	27563	0
98	20	35493	12935	30863	0
98	22	38825	14228	34166	0
98	24	42156	15522	37472	0
98	26	48269	17065	43276	0
98	28	51800	18377	46787	0
98	30	55329	19690	50299	0
98	32	58858	21003	53813	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
100	10	19136	6599	14720	0
100	12	22570	7919	18056	0
100	14	25992	9239	21405	0
100	16	29406	10559	24763	0
100	18	32814	11879	28126	0
100	20	36217	13199	31493	0
100	22	39618	14519	34864	0
100	24	43016	15838	38237	0
100	26	49254	17413	44159	0
100	28	52857	18752	47742	0
100	30	56458	20092	51326	0
100	32	60059	21431	54911	0

HIGHER POWER HYDRAULIC DOORS
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Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
105	10	20092	6929	15456	0
105	12	23699	8315	18959	0
105	14	27292	9701	22476	0
105	16	30876	11087	26001	0
105	18	34454	12473	29532	0
105	20	38028	13859	33068	0
105	22	41599	15245	36607	0
105	24	45167	16630	40148	0
105	26	51717	18284	46367	0
105	28	55500	19690	50129	0
105	30	59281	21096	53892	0
105	32	63062	22503	57656	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
110	10	21049	7259	16192	0
110	12	24827	8711	19862	0
110	14	28591	10163	23546	0
110	16	32346	11615	27239	0
110	18	36095	13067	30938	0
110	20	39839	14519	34643	0
110	22	43580	15970	38350	0
110	24	47318	17422	42060	0
110	26	54179	19154	48575	0
110	28	58143	20628	52516	0
110	30	62104	22101	56458	0
110	32	66065	23574	60402	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
115	10	22006	7589	16928	0
115	12	25956	9107	20765	0
115	14	29891	10625	24616	0
115	16	33817	12143	28477	0
115	18	37736	13661	32345	0
115	20	41650	15179	36217	0
115	22	45561	16696	40093	0
115	24	49468	18214	43972	0
115	26	56642	20025	50783	0
115	28	60785	21565	54903	0
115	30	64927	23106	59025	0
115	32	69068	24646	63148	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
120	10	22963	7919	17664	0
120	12	27084	9503	21667	0
120	14	31191	11087	25686	0
120	16	35287	12671	29715	0
120	18	39376	14255	33751	0
120	20	43461	15838	37792	0
120	22	47541	17422	41836	0
120	24	51619	19006	45884	0
120	26	59105	20896	52991	0
120	28	63428	22503	57290	0
120	30	67750	24110	61591	0
120	32	72071	25718	65893	0

HIGHER POWER HYDRAULIC DOORS
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Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
125	10	23919	8249	18400	0
125	12	28213	9899	22570	0
125	14	32490	11549	26757	0
125	16	36757	13199	30953	0
125	18	41017	14849	35157	0
125	20	45272	16498	39367	0
125	22	49522	18148	43580	0
125	24	53770	19798	47796	0
125	26	61568	21766	55199	0
125	28	66071	23440	59677	0
125	30	70573	25115	64157	0
125	32	75073	26789	68639	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
130	10	24876	8579	19136	0
130	12	29341	10295	23473	0
130	14	33790	12011	27827	0
130	16	38227	13727	32192	0
130	18	42658	15443	36564	0
130	20	47082	17158	40941	0
130	22	51503	18874	45323	0
130	24	55921	20590	49707	0
130	26	64030	22637	57406	0
130	28	68714	24378	62064	0
130	30	73396	26119	66723	0
130	32	78076	27861	71384	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
135	10	25833	8909	19872	0
135	12	30470	10691	24376	0
135	14	35089	12473	28897	0
135	16	39698	14255	33430	0
135	18	44298	16036	37970	0
135	20	48893	17818	42516	0
135	22	53484	19600	47066	0
135	24	58072	21382	51619	0
135	26	66493	23507	59614	0
135	28	71357	25316	64451	0
135	30	76219	27124	69290	0
135	32	81079	28932	74130	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
140	10	26790	9239	20608	0
140	12	31598	11087	25279	0
140	14	36389	12935	29967	0
140	16	41168	14783	34668	0
140	18	45939	16630	39376	0
140	20	50704	18478	44091	0
140	22	55465	20326	48809	0
140	24	60223	22174	53531	0
140	26	68956	24378	61822	0
140	28	74000	26253	66838	0
140	30	79042	28129	71856	0
140	32	84082	30004	76875	0

HIGHER POWER HYDRAULIC DOORS
UNFACTORED DOOR JAMB REACTIONS - 180 mph - ASCE 7-16

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
145	10	27747	9569	21344	0
145	12	32727	11483	26181	0
145	14	37689	13397	31038	0
145	16	42638	15311	35906	0
145	18	47580	17224	40783	0
145	20	52515	19138	45665	0
145	22	57446	21052	50552	0
145	24	62373	22966	55443	0
145	26	71418	25249	64030	0
145	28	76642	27191	69225	0
145	30	81865	29133	74422	0
145	32	87085	31075	79621	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
150	10	28703	9899	22080	0
150	12	33855	11879	27084	0
150	14	38988	13859	32108	0
150	16	44109	15838	37144	0
150	18	49220	17818	42189	0
150	20	54326	19798	47240	0
150	22	59427	21778	52296	0
150	24	64524	23758	57355	0
150	26	73881	26119	66238	0
150	28	79285	28129	71612	0
150	30	84687	30138	76989	0
150	32	90088	32147	82366	0