

HIGHER POWER HYDRAULIC DOORS
UNFACTORED DOOR JAMB REACTIONS - 125 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	125	32.7	50	7.2	50	3.2	-5.9
	24 ft < $h \leq 32$ ft		34.7		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	2768	1980	2130	0
30	12	3265	2376	2612	0
30	14	3760	2772	3097	0
30	16	4254	3168	3583	0
30	18	4747	3564	4069	0
30	20	5240	3960	4556	0
30	22	5732	4356	5044	0
30	24	6223	4752	5532	0
30	26	7126	5224	6389	0
30	28	7647	5626	6907	0
30	30	8168	6028	7426	0
30	32	8689	6429	7944	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
32	10	2953	2112	2272	0
32	12	3483	2534	2786	0
32	14	4011	2957	3303	0
32	16	4538	3379	3821	0
32	18	5064	3801	4340	0
32	20	5589	4224	4860	0
32	22	6114	4646	5380	0
32	24	6638	5068	5901	0
32	26	7601	5572	6815	0
32	28	8157	6001	7368	0
32	30	8713	6429	7921	0
32	32	9268	6858	8474	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
34	10	3138	2244	2414	0
34	12	3701	2693	2961	0
34	14	4262	3141	3510	0
34	16	4822	3590	4060	0
34	18	5380	4039	4612	0
34	20	5938	4488	5164	0
34	22	6496	4936	5716	0
34	24	7053	5385	6269	0
34	26	8076	5920	7241	0
34	28	8667	6376	7828	0
34	30	9257	6831	8416	0
34	32	9848	7287	9004	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
36	10	3322	2376	2555	0
36	12	3918	2851	3135	0
36	14	4513	3326	3716	0
36	16	5105	3801	4299	0
36	18	5697	4276	4883	0
36	20	6288	4752	5468	0
36	22	6878	5227	6053	0
36	24	7468	5702	6638	0
36	26	8551	6269	7666	0
36	28	9177	6751	8288	0
36	30	9802	7233	8911	0
36	32	10427	7715	9533	0

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Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
38	10	3507	2508	2697	0
38	12	4136	3009	3309	0
38	14	4763	3511	3923	0
38	16	5389	4012	4538	0
38	18	6013	4514	5154	0
38	20	6637	5016	5771	0
38	22	7260	5517	6389	0
38	24	7883	6019	7007	0
38	26	9026	6617	8092	0
38	28	9686	7126	8749	0
38	30	10346	7635	9406	0
38	32	11006	8144	10063	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
40	10	3691	2640	2839	0
40	12	4354	3168	3483	0
40	14	5014	3696	4129	0
40	16	5672	4224	4777	0
40	18	6330	4752	5426	0
40	20	6986	5279	6075	0
40	22	7642	5807	6725	0
40	24	8298	6335	7376	0
40	26	9501	6965	8518	0
40	28	10196	7501	9209	0
40	30	10891	8037	9901	0
40	32	11585	8573	10592	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
42	10	3876	2772	2981	0
42	12	4572	3326	3657	0
42	14	5265	3880	4336	0
42	16	5956	4435	5016	0
42	18	6646	4989	5697	0
42	20	7336	5543	6379	0
42	22	8024	6098	7062	0
42	24	8713	6652	7745	0
42	26	9976	7313	8944	0
42	28	10706	7876	9670	0
42	30	11435	8439	10396	0
42	32	12165	9001	11122	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
44	10	4060	2904	3123	0
44	12	4789	3484	3831	0
44	14	5515	4065	4542	0
44	16	6240	4646	5254	0
44	18	6963	5227	5968	0
44	20	7685	5807	6683	0
44	22	8407	6388	7398	0
44	24	9128	6969	8113	0
44	26	10451	7662	9370	0
44	28	11216	8251	10130	0
44	30	11980	8840	10891	0
44	32	12744	9430	11652	0

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Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
46	10	4245	3036	3265	0
46	12	5007	3643	4006	0
46	14	5766	4250	4748	0
46	16	6523	4857	5493	0
46	18	7279	5464	6239	0
46	20	8034	6071	6986	0
46	22	8789	6679	7734	0
46	24	9543	7286	8482	0
46	26	10926	8010	9796	0
46	28	11726	8626	10591	0
46	30	12525	9242	11386	0
46	32	13323	9858	12181	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
48	10	4430	3168	3407	0
48	12	5225	3801	4180	0
48	14	6017	4435	4955	0
48	16	6807	5068	5732	0
48	18	7596	5702	6511	0
48	20	8384	6335	7290	0
48	22	9171	6969	8070	0
48	24	9957	7602	8851	0
48	26	11401	8358	10222	0
48	28	12235	9001	11051	0
48	30	13069	9644	11881	0
48	32	13902	10287	12711	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
50	10	4614	3300	3549	0
50	12	5442	3960	4354	0
50	14	6267	4620	5161	0
50	16	7090	5279	5971	0
50	18	7912	5939	6782	0
50	20	8733	6599	7594	0
50	22	9553	7259	8407	0
50	24	10372	7919	9220	0
50	26	11876	8706	10648	0
50	28	12745	9376	11512	0
50	30	13614	10046	12376	0
50	32	14482	10716	13240	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
52	10	4799	3432	3691	0
52	12	5660	4118	4528	0
52	14	6518	4804	5368	0
52	16	7374	5491	6210	0
52	18	8229	6177	7053	0
52	20	9082	6863	7898	0
52	22	9935	7550	8743	0
52	24	10787	8236	9589	0
52	26	12352	9055	11074	0
52	28	13255	9751	11972	0
52	30	14158	10448	12871	0
52	32	15061	11144	13770	0

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Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
54	10	4983	3564	3833	0
54	12	5878	4276	4702	0
54	14	6769	4989	5574	0
54	16	7658	5702	6449	0
54	18	8545	6415	7324	0
54	20	9432	7127	8201	0
54	22	10317	7840	9079	0
54	24	11202	8553	9957	0
54	26	12827	9403	11500	0
54	28	13765	10126	12433	0
54	30	14703	10850	13366	0
54	32	15640	11573	14300	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
56	10	5168	3696	3975	0
56	12	6095	4435	4876	0
56	14	7019	5174	5781	0
56	16	7941	5913	6687	0
56	18	8862	6652	7596	0
56	20	9781	7391	8505	0
56	22	10699	8130	9415	0
56	24	11617	8870	10326	0
56	26	13302	9751	11926	0
56	28	14275	10501	12893	0
56	30	15247	11251	13861	0
56	32	16220	12002	14829	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
58	10	5352	3828	4117	0
58	12	6313	4593	5050	0
58	14	7270	5359	5987	0
58	16	8225	6124	6926	0
58	18	9178	6890	7867	0
58	20	10130	7655	8809	0
58	22	11081	8421	9752	0
58	24	12032	9186	10695	0
58	26	13777	10099	12352	0
58	28	14784	10876	13354	0
58	30	15792	11653	14356	0
58	32	16799	12430	15359	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
60	10	5537	3960	4259	0
60	12	6531	4752	5225	0
60	14	7521	5543	6194	0
60	16	8509	6335	7165	0
60	18	9495	7127	8138	0
60	20	10480	7919	9113	0
60	22	11463	8711	10088	0
60	24	12447	9503	11064	0
60	26	14252	10448	12777	0
60	28	15294	11251	13814	0
60	30	16336	12055	14851	0
60	32	17378	12859	15889	0

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Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
62	10	5721	4092	4401	0
62	12	6748	4910	5399	0
62	14	7772	5728	6400	0
62	16	8792	6547	7404	0
62	18	9811	7365	8410	0
62	20	10829	8183	9416	0
62	22	11846	9002	10424	0
62	24	12862	9820	11433	0
62	26	14727	10796	13203	0
62	28	15804	11626	14275	0
62	30	16881	12457	15346	0
62	32	17957	13287	16418	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
64	10	5906	4224	4543	0
64	12	6966	5068	5573	0
64	14	8022	5913	6607	0
64	16	9076	6758	7643	0
64	18	10128	7602	8681	0
64	20	11178	8447	9720	0
64	22	12228	9292	10760	0
64	24	13277	10137	11801	0
64	26	15202	11144	13629	0
64	28	16314	12002	14735	0
64	30	17425	12859	15841	0
64	32	18537	13716	16948	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
66	10	6091	4356	4685	0
66	12	7184	5227	5747	0
66	14	8273	6098	6813	0
66	16	9359	6969	7882	0
66	18	10444	7840	8952	0
66	20	11527	8711	10024	0
66	22	12610	9582	11097	0
66	24	13691	10453	12170	0
66	26	15677	11493	14055	0
66	28	16824	12377	15196	0
66	30	17970	13261	16336	0
66	32	19116	14145	17477	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
68	10	6275	4488	4827	0
68	12	7401	5385	5921	0
68	14	8524	6283	7019	0
68	16	9643	7180	8120	0
68	18	10761	8078	9223	0
68	20	11877	8975	10328	0
68	22	12992	9873	11433	0
68	24	14106	10770	12539	0
68	26	16152	11841	14481	0
68	28	17333	12752	15656	0
68	30	18514	13662	16831	0
68	32	19695	14573	18007	0

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Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
70	10	6460	4620	4969	0
70	12	7619	5543	6095	0
70	14	8774	6467	7226	0
70	16	9927	7391	8359	0
70	18	11077	8315	9495	0
70	20	12226	9239	10631	0
70	22	13374	10163	11769	0
70	24	14521	11087	12908	0
70	26	16627	12189	14907	0
70	28	17843	13127	16116	0
70	30	19059	14064	17326	0
70	32	20274	15002	18537	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
72	10	6644	4752	5111	0
72	12	7837	5702	6269	0
72	14	9025	6652	7432	0
72	16	10210	7602	8598	0
72	18	11394	8553	9766	0
72	20	12575	9503	10935	0
72	22	13756	10453	12105	0
72	24	14936	11404	13277	0
72	26	17102	12537	15333	0
72	28	18353	13502	16577	0
72	30	19604	14466	17821	0
72	32	20854	15431	19066	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
74	10	6829	4884	5253	0
74	12	8055	5860	6444	0
74	14	9276	6837	7639	0
74	16	10494	7814	8837	0
74	18	11710	8790	10037	0
74	20	12925	9767	11239	0
74	22	14138	10744	12442	0
74	24	15351	11720	13645	0
74	26	16627	12886	15759	0
74	28	17843	13877	17037	0
74	30	19059	14868	18316	0
74	32	20274	15859	19596	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
76	10	7013	5016	5395	0
76	12	8272	6019	6618	0
76	14	9526	7022	7845	0
76	16	10778	8025	9076	0
76	18	12027	9028	10308	0
76	20	13274	10031	11543	0
76	22	14520	11034	12778	0
76	24	15766	12037	14014	0
76	26	18052	13234	16185	0
76	28	19373	14252	17498	0
76	30	20693	15270	18812	0
76	32	22012	16288	20126	0

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Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
78	10	7198	5148	5537	0
78	12	8490	6177	6792	0
78	14	9777	7207	8052	0
78	16	11061	8236	9315	0
78	18	12343	9266	10580	0
78	20	13623	10295	11846	0
78	22	14903	11325	13114	0
78	24	16181	12354	14383	0
78	26	18527	13582	16611	0
78	28	19882	14627	17958	0
78	30	21237	15672	19307	0
78	32	22592	16716	20655	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
80	10	7383	5279	5679	0
80	12	8708	6335	6966	0
80	14	10028	7391	8258	0
80	16	11345	8447	9554	0
80	18	12660	9503	10851	0
80	20	13973	10559	12150	0
80	22	15285	11615	13451	0
80	24	16596	12671	14752	0
80	26	19002	13930	17037	0
80	28	20392	15002	18419	0
80	30	21782	16073	19802	0
80	32	23171	17145	21185	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
82	10	7567	5411	5821	0
82	12	8925	6494	7140	0
82	14	10279	7576	8465	0
82	16	11628	8658	9792	0
82	18	12976	9741	11122	0
82	20	14322	10823	12454	0
82	22	15667	11905	13787	0
82	24	17011	12988	15121	0
82	26	19477	14279	17462	0
82	28	20902	15377	18879	0
82	30	22326	16475	20297	0
82	32	23750	17574	21714	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
84	10	7752	5543	5963	0
84	12	9143	6652	7314	0
84	14	10529	7761	8671	0
84	16	11912	8870	10031	0
84	18	13293	9978	11394	0
84	20	14671	11087	12758	0
84	22	16049	12196	14123	0
84	24	17425	13304	15489	0
84	26	19952	14627	17888	0
84	28	21412	15752	19340	0
84	30	22871	16877	20792	0
84	32	24329	18002	22244	0

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Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
86	10	7936	5675	6105	0
86	12	9361	6811	7489	0
86	14	10780	7946	8878	0
86	16	12196	9081	10270	0
86	18	13609	10216	11665	0
86	20	15021	11351	13061	0
86	22	16431	12486	14459	0
86	24	17840	13621	15858	0
86	26	20428	14975	18314	0
86	28	21922	16127	19800	0
86	30	23415	17279	21287	0
86	32	24909	18431	22774	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
88	10	8121	5807	6247	0
88	12	9578	6969	7663	0
88	14	11031	8130	9084	0
88	16	12479	9292	10509	0
88	18	13926	10453	11936	0
88	20	15370	11615	13365	0
88	22	16813	12776	14796	0
88	24	18255	13938	16227	0
88	26	20903	15323	18740	0
88	28	22432	16502	20261	0
88	30	23960	17681	21782	0
88	32	25488	18860	23303	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
90	10	8305	5939	6389	0
90	12	9796	7127	7837	0
90	14	11281	8315	9290	0
90	16	12763	9503	10748	0
90	18	14242	10691	12207	0
90	20	15719	11879	13669	0
90	22	17195	13067	15132	0
90	24	18670	14255	16596	0
90	26	21378	15672	19166	0
90	28	22941	16877	20721	0
90	30	24504	18083	22277	0
90	32	26067	19288	23833	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
92	10	8490	6071	6531	0
92	12	10014	7286	8011	0
92	14	11532	8500	9497	0
92	16	13047	9714	10987	0
92	18	14558	10929	12479	0
92	20	16069	12143	13973	0
92	22	17577	13357	15468	0
92	24	19085	14571	16965	0
92	26	21853	16020	19592	0
92	28	23451	17252	21182	0
92	30	25049	18484	22772	0
92	32	26646	19717	24362	0

HIGHER POWER HYDRAULIC DOORS
UNFACTORED DOOR JAMB REACTIONS - 125 mph - ASCE 7-16

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
94	10	8674	6203	6673	0
94	12	10231	7444	8185	0
94	14	11783	8685	9703	0
94	16	13330	9925	11225	0
94	18	14875	11166	12750	0
94	20	16418	12407	14276	0
94	22	17959	13647	15804	0
94	24	19500	14888	17333	0
94	26	22328	16368	20018	0
94	28	23961	17627	21642	0
94	30	25594	18886	23267	0
94	32	27226	20145	24892	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
96	10	8859	6335	6815	0
96	12	10449	7602	8359	0
96	14	12033	8870	9910	0
96	16	13614	10137	11464	0
96	18	15191	11404	13021	0
96	20	16767	12671	14580	0
96	22	18342	13938	16141	0
96	24	19915	15205	17702	0
96	26	22803	16716	20444	0
96	28	24471	18002	22103	0
96	30	26138	19288	23762	0
96	32	27805	20574	25422	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
98	10	9044	6467	6957	0
98	12	10667	7761	8533	0
98	14	12284	9054	10116	0
98	16	13897	10348	11703	0
98	18	15508	11641	13293	0
98	20	17117	12935	14884	0
98	22	18724	14228	16477	0
98	24	20330	15522	18071	0
98	26	23278	17065	20870	0
98	28	24981	18377	22563	0
98	30	26683	19690	24257	0
98	32	28384	21003	25951	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
100	10	9228	6599	7099	0
100	12	10885	7919	8708	0
100	14	12535	9239	10323	0
100	16	14181	10559	11942	0
100	18	15824	11879	13564	0
100	20	17466	13199	15188	0
100	22	19106	14519	16813	0
100	24	20745	15838	18440	0
100	26	23753	17413	21296	0
100	28	25490	18752	23024	0
100	30	27227	20092	24752	0
100	32	28964	21431	26481	0

HIGHER POWER HYDRAULIC DOORS
UNFACTORED DOOR JAMB REACTIONS - 125 mph - ASCE 7-16

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
105	10	9690	6929	7454	0
105	12	11429	8315	9143	0
105	14	13162	9701	10839	0
105	16	14890	11087	12539	0
105	18	16616	12473	14242	0
105	20	18339	13859	15947	0
105	22	20061	15245	17654	0
105	24	21782	16630	19362	0
105	26	24941	18284	22361	0
105	28	26765	19690	24175	0
105	30	28589	21096	25990	0
105	32	30412	22503	27805	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
110	10	10151	7259	7808	0
110	12	11973	8711	9578	0
110	14	13788	10163	11355	0
110	16	15599	11615	13136	0
110	18	17407	13067	14920	0
110	20	19212	14519	16706	0
110	22	21016	15970	18494	0
110	24	22819	17422	20284	0
110	26	26128	19154	23425	0
110	28	28039	20628	25326	0
110	30	29950	22101	27227	0
110	32	31860	23574	29129	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
115	10	10612	7589	8163	0
115	12	12517	9107	10014	0
115	14	14415	10625	11871	0
115	16	16308	12143	13733	0
115	18	18198	13661	15598	0
115	20	20086	15179	17466	0
115	22	21972	16696	19335	0
115	24	23856	18214	21206	0
115	26	27316	20025	24490	0
115	28	29314	21565	26477	0
115	30	31311	23106	28465	0
115	32	33308	24646	30453	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
120	10	11074	7919	8518	0
120	12	13061	9503	10449	0
120	14	15042	11087	12387	0
120	16	17017	12671	14330	0
120	18	18989	14255	16277	0
120	20	20959	15838	18225	0
120	22	22927	17422	20176	0
120	24	24894	19006	22128	0
120	26	28504	20896	25555	0
120	28	30588	22503	27628	0
120	30	32673	24110	29702	0
120	32	34756	25718	31777	0

HIGHER POWER HYDRAULIC DOORS
UNFACTORED DOOR JAMB REACTIONS - 125 mph - ASCE 7-16

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
125	10	11535	8249	8873	0
125	12	13606	9899	10885	0
125	14	15668	11549	12903	0
125	16	17726	13199	14927	0
125	18	19781	14849	16955	0
125	20	21832	16498	18985	0
125	22	23882	18148	21016	0
125	24	25931	19798	23050	0
125	26	29691	21766	26620	0
125	28	31863	23440	28779	0
125	30	34034	25115	30940	0
125	32	36204	26789	33101	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
130	10	11997	8579	9228	0
130	12	14150	10295	11320	0
130	14	16295	12011	13420	0
130	16	18435	13727	15524	0
130	18	20572	15443	17633	0
130	20	22706	17158	19744	0
130	22	24838	18874	21857	0
130	24	26968	20590	23972	0
130	26	30879	22637	27684	0
130	28	33137	24378	29931	0
130	30	35395	26119	32178	0
130	32	37653	27861	34425	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
135	10	12458	8909	9583	0
135	12	14694	10691	11755	0
135	14	16922	12473	13936	0
135	16	19144	14255	16122	0
135	18	21363	16036	18311	0
135	20	23579	17818	20503	0
135	22	25793	19600	22698	0
135	24	28005	21382	24894	0
135	26	32066	23507	28749	0
135	28	34412	25316	31082	0
135	30	36757	27124	33415	0
135	32	39101	28932	35749	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
140	10	12919	9239	9938	0
140	12	15238	11087	12191	0
140	14	17549	12935	14452	0
140	16	19853	14783	16719	0
140	18	22154	16630	18989	0
140	20	24452	18478	21263	0
140	22	26748	20326	23538	0
140	24	29042	22174	25816	0
140	26	33254	24378	29814	0
140	28	35687	26253	32233	0
140	30	38118	28129	34653	0
140	32	40549	30004	37073	0

HIGHER POWER HYDRAULIC DOORS
UNFACTORED DOOR JAMB REACTIONS - 125 mph - ASCE 7-16

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
145	10	13381	9569	10293	0
145	12	15783	11483	12626	0
145	14	18175	13397	14968	0
145	16	20562	15311	17316	0
145	18	22945	17224	19668	0
145	20	25326	19138	22022	0
145	22	27703	21052	24379	0
145	24	30080	22966	26738	0
145	26	34442	25249	30879	0
145	28	36961	27191	33384	0
145	30	39479	29133	35890	0
145	32	41997	31075	38397	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
150	10	13842	9899	10648	0
150	12	16327	11879	13061	0
150	14	18802	13859	15484	0
150	16	21271	15838	17913	0
150	18	23737	17818	20346	0
150	20	26199	19798	22782	0
150	22	28659	21778	25220	0
150	24	31117	23758	27660	0
150	26	35629	26119	31944	0
150	28	38236	28129	34535	0
150	30	40841	30138	37128	0
150	32	43445	32147	39721	0