

HIGHER POWER HYDRAULIC DOORS
UNFACTORED DOOR JAMB REACTIONS - 140 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	140	41.0	50	7.2	50	3.2	-5.9
	24 ft < $h \leq 32$ ft		43.5		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	3473	1980	2671	0
30	12	4096	2376	3277	0
30	14	4717	2772	3885	0
30	16	5337	3168	4494	0
30	18	5955	3564	5104	0
30	20	6573	3960	5715	0
30	22	7190	4356	6327	0
30	24	7807	4752	6939	0
30	26	8939	5224	8014	0
30	28	9593	5626	8664	0
30	30	10246	6028	9315	0
30	32	10900	6429	9965	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
32	10	3704	2112	2849	0
32	12	4369	2534	3495	0
32	14	5032	2957	4144	0
32	16	5692	3379	4794	0
32	18	6352	3801	5445	0
32	20	7011	4224	6096	0
32	22	7669	4646	6749	0
32	24	8327	5068	7402	0
32	26	9535	5572	8548	0
32	28	10232	6001	9242	0
32	30	10929	6429	9936	0
32	32	11626	6858	10630	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
34	10	3936	2244	3028	0
34	12	4642	2693	3714	0
34	14	5346	3141	4403	0
34	16	6048	3590	5093	0
34	18	6749	4039	5785	0
34	20	7449	4488	6478	0
34	22	8149	4936	7171	0
34	24	8848	5385	7864	0
34	26	10131	5920	9083	0
34	28	10872	6376	9819	0
34	30	11612	6831	10557	0
34	32	12353	7287	11294	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
36	10	4167	2376	3206	0
36	12	4915	2851	3932	0
36	14	5661	3326	4662	0
36	16	6404	3801	5393	0
36	18	7146	4276	6125	0
36	20	7887	4752	6859	0
36	22	8628	5227	7593	0
36	24	9368	5702	8327	0
36	26	10726	6269	9617	0
36	28	11511	6751	10397	0
36	30	12295	7233	11178	0
36	32	13079	7715	11958	0

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Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
38	10	4399	2508	3384	0
38	12	5188	3009	4151	0
38	14	5975	3511	4921	0
38	16	6760	4012	5692	0
38	18	7543	4514	6465	0
38	20	8325	5016	7240	0
38	22	9107	5517	8014	0
38	24	9888	6019	8790	0
38	26	11322	6617	10151	0
38	28	12151	7126	10975	0
38	30	12978	7635	11799	0
38	32	13806	8144	12623	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
40	10	4630	2640	3562	0
40	12	5461	3168	4369	0
40	14	6289	3696	5180	0
40	16	7115	4224	5992	0
40	18	7940	4752	6806	0
40	20	8764	5279	7621	0
40	22	9587	5807	8436	0
40	24	10409	6335	9252	0
40	26	11918	6965	10685	0
40	28	12790	7501	11552	0
40	30	13662	8037	12420	0
40	32	14533	8573	13287	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
42	10	4862	2772	3740	0
42	12	5734	3326	4588	0
42	14	6604	3880	5439	0
42	16	7471	4435	6292	0
42	18	8337	4989	7146	0
42	20	9202	5543	8002	0
42	22	10066	6098	8858	0
42	24	10929	6652	9715	0
42	26	12514	7313	11220	0
42	28	13430	7876	12130	0
42	30	14345	8439	13041	0
42	32	15259	9001	13951	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
44	10	5093	2904	3918	0
44	12	6008	3484	4806	0
44	14	6918	4065	5697	0
44	16	7827	4646	6591	0
44	18	8734	5227	7486	0
44	20	9640	5807	8383	0
44	22	10545	6388	9280	0
44	24	11450	6969	10178	0
44	26	13110	7662	11754	0
44	28	14069	8251	12708	0
44	30	15028	8840	13662	0
44	32	15986	9430	14616	0

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Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
46	10	5325	3036	4096	0
46	12	6281	3643	5025	0
46	14	7233	4250	5956	0
46	16	8183	4857	6891	0
46	18	9131	5464	7827	0
46	20	10078	6071	8764	0
46	22	11025	6679	9702	0
46	24	11970	7286	10640	0
46	26	13706	8010	12288	0
46	28	14709	8626	13285	0
46	30	15711	9242	14282	0
46	32	16713	9858	15280	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
48	10	5556	3168	4274	0
48	12	6554	3801	5243	0
48	14	7547	4435	6215	0
48	16	8539	5068	7190	0
48	18	9528	5702	8167	0
48	20	10516	6335	9145	0
48	22	11504	6969	10123	0
48	24	12491	7602	11103	0
48	26	14302	8358	12822	0
48	28	15348	9001	13863	0
48	30	16394	9644	14903	0
48	32	17439	10287	15944	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
50	10	5788	3300	4452	0
50	12	6827	3960	5461	0
50	14	7862	4620	6474	0
50	16	8894	5279	7490	0
50	18	9925	5939	8507	0
50	20	10955	6599	9526	0
50	22	11983	7259	10545	0
50	24	13011	7919	11565	0
50	26	14898	8706	13357	0
50	28	15988	9376	14440	0
50	30	17077	10046	15524	0
50	32	18166	10716	16609	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
52	10	6019	3432	4630	0
52	12	7100	4118	5680	0
52	14	8176	4804	6733	0
52	16	9250	5491	7790	0
52	18	10322	6177	8848	0
52	20	11393	6863	9907	0
52	22	12463	7550	10967	0
52	24	13531	8236	12028	0
52	26	15494	9055	13891	0
52	28	16627	9751	15018	0
52	30	17760	10448	16145	0
52	32	18893	11144	17273	0

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Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
54	10	6251	3564	4808	0
54	12	7373	4276	5898	0
54	14	8491	4989	6992	0
54	16	9606	5702	8089	0
54	18	10719	6415	9188	0
54	20	11831	7127	10288	0
54	22	12942	7840	11389	0
54	24	14052	8553	12491	0
54	26	16090	9403	14425	0
54	28	17267	10126	15596	0
54	30	18443	10850	16766	0
54	32	19619	11573	17938	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
56	10	6482	3696	4987	0
56	12	7646	4435	6117	0
56	14	8805	5174	7251	0
56	16	9962	5913	8389	0
56	18	11116	6652	9528	0
56	20	12269	7391	10669	0
56	22	13421	8130	11811	0
56	24	14572	8870	12953	0
56	26	16686	9751	14959	0
56	28	17906	10501	16173	0
56	30	19126	11251	17387	0
56	32	20346	12002	18602	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
58	10	6714	3828	5165	0
58	12	7919	4593	6335	0
58	14	9120	5359	7510	0
58	16	10317	6124	8688	0
58	18	11513	6890	9868	0
58	20	12707	7655	11050	0
58	22	13900	8421	12232	0
58	24	15093	9186	13416	0
58	26	17281	10099	15494	0
58	28	18546	10876	16751	0
58	30	19809	11653	18008	0
58	32	21072	12430	19266	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
60	10	6946	3960	5343	0
60	12	8192	4752	6554	0
60	14	9434	5543	7769	0
60	16	10673	6335	8988	0
60	18	11910	7127	10209	0
60	20	13146	7919	11431	0
60	22	14380	8711	12654	0
60	24	15613	9503	13878	0
60	26	17877	10448	16028	0
60	28	19185	11251	17328	0
60	30	20492	12055	18629	0
60	32	21799	12859	19931	0

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Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
62	10	7177	4092	5521	0
62	12	8465	4910	6772	0
62	14	9749	5728	8028	0
62	16	11029	6547	9288	0
62	18	12307	7365	10549	0
62	20	13584	8183	11812	0
62	22	14859	9002	13076	0
62	24	16134	9820	14341	0
62	26	18473	10796	16562	0
62	28	19825	11626	17906	0
62	30	21175	12457	19250	0
62	32	22526	13287	20595	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
64	10	7409	4224	5699	0
64	12	8738	5068	6991	0
64	14	10063	5913	8287	0
64	16	11385	6758	9587	0
64	18	12704	7602	10889	0
64	20	14022	8447	12193	0
64	22	15338	9292	13498	0
64	24	16654	10137	14804	0
64	26	19069	11144	17097	0
64	28	20464	12002	18484	0
64	30	21858	12859	19871	0
64	32	23252	13716	21259	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
66	10	7640	4356	5877	0
66	12	9011	5227	7209	0
66	14	10378	6098	8546	0
66	16	11741	6969	9887	0
66	18	13101	7840	11230	0
66	20	14460	8711	12574	0
66	22	15818	9582	13920	0
66	24	17175	10453	15266	0
66	26	19665	11493	17631	0
66	28	21104	12377	19061	0
66	30	22542	13261	20492	0
66	32	23979	14145	21924	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
68	10	7872	4488	6055	0
68	12	9284	5385	7428	0
68	14	10692	6283	8805	0
68	16	12096	7180	10186	0
68	18	13498	8078	11570	0
68	20	14898	8975	12955	0
68	22	16297	9873	14341	0
68	24	17695	10770	15729	0
68	26	20261	11841	18165	0
68	28	21743	12752	19639	0
68	30	23225	13662	21113	0
68	32	24706	14573	22588	0

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Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
70	10	8103	4620	6233	0
70	12	9557	5543	7646	0
70	14	11007	6467	9064	0
70	16	12452	7391	10486	0
70	18	13895	8315	11910	0
70	20	15336	9239	13336	0
70	22	16776	10163	14763	0
70	24	18215	11087	16192	0
70	26	20857	12189	18699	0
70	28	22383	13127	20217	0
70	30	23908	14064	21734	0
70	32	25432	15002	23252	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
72	10	8335	4752	6411	0
72	12	9831	5702	7864	0
72	14	11321	6652	9323	0
72	16	12808	7602	10786	0
72	18	14292	8553	12250	0
72	20	15775	9503	13717	0
72	22	17256	10453	15185	0
72	24	18736	11404	16654	0
72	26	21453	12537	19234	0
72	28	23022	13502	20794	0
72	30	24591	14466	22355	0
72	32	26159	15431	23917	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
74	10	8566	4884	6589	0
74	12	10104	5860	8083	0
74	14	11635	6837	9582	0
74	16	13164	7814	11085	0
74	18	14689	8790	12591	0
74	20	16213	9767	14098	0
74	22	17735	10744	15607	0
74	24	19256	11720	17117	0
74	26	20857	12886	19768	0
74	28	22383	13877	21372	0
74	30	23908	14868	22976	0
74	32	25432	15859	24581	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
76	10	8798	5016	6767	0
76	12	10377	6019	8301	0
76	14	11950	7022	9841	0
76	16	13519	8025	11385	0
76	18	15086	9028	12931	0
76	20	16651	10031	14479	0
76	22	18214	11034	16029	0
76	24	19777	12037	17579	0
76	26	22645	13234	20302	0
76	28	24301	14252	21949	0
76	30	25957	15270	23597	0
76	32	27612	16288	25245	0

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Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
78	10	9029	5148	6946	0
78	12	10650	6177	8520	0
78	14	12264	7207	10100	0
78	16	13875	8236	11684	0
78	18	15483	9266	13271	0
78	20	17089	10295	14860	0
78	22	18694	11325	16451	0
78	24	20297	12354	18042	0
78	26	23241	13582	20836	0
78	28	24941	14627	22527	0
78	30	26640	15672	24218	0
78	32	28339	16716	25910	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
80	10	9261	5279	7124	0
80	12	10923	6335	8738	0
80	14	12579	7391	10359	0
80	16	14231	8447	11984	0
80	18	15880	9503	13612	0
80	20	17527	10559	15241	0
80	22	19173	11615	16872	0
80	24	20818	12671	18505	0
80	26	23837	13930	21371	0
80	28	25580	15002	23105	0
80	30	27323	16073	24839	0
80	32	29065	17145	26574	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
82	10	9492	5411	7302	0
82	12	11196	6494	8957	0
82	14	12893	7576	10618	0
82	16	14587	8658	12284	0
82	18	16277	9741	13952	0
82	20	17966	10823	15622	0
82	22	19652	11905	17294	0
82	24	21338	12988	18967	0
82	26	24432	14279	21905	0
82	28	26220	15377	23682	0
82	30	28006	16475	25460	0
82	32	29792	17574	27239	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
84	10	9724	5543	7480	0
84	12	11469	6652	9175	0
84	14	13208	7761	10877	0
84	16	14942	8870	12583	0
84	18	16674	9978	14292	0
84	20	18404	11087	16003	0
84	22	20132	12196	17716	0
84	24	21859	13304	19430	0
84	26	25028	14627	22439	0
84	28	26859	15752	24260	0
84	30	28689	16877	26081	0
84	32	30519	18002	27903	0

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Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
86	10	9955	5675	7658	0
86	12	11742	6811	9394	0
86	14	13522	7946	11136	0
86	16	15298	9081	12883	0
86	18	17071	10216	14632	0
86	20	18842	11351	16384	0
86	22	20611	12486	18138	0
86	24	22379	13621	19892	0
86	26	25624	14975	22973	0
86	28	27499	16127	24837	0
86	30	29372	17279	26702	0
86	32	31245	18431	28567	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
88	10	10187	5807	7836	0
88	12	12015	6969	9612	0
88	14	13837	8130	11395	0
88	16	15654	9292	13182	0
88	18	17468	10453	14973	0
88	20	19280	11615	16765	0
88	22	21090	12776	18560	0
88	24	22899	13938	20355	0
88	26	26220	15323	23508	0
88	28	28138	16502	25415	0
88	30	30055	17681	27323	0
88	32	31972	18860	29232	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
90	10	10418	5939	8014	0
90	12	12288	7127	9831	0
90	14	14151	8315	11654	0
90	16	16010	9503	13482	0
90	18	17865	10691	15313	0
90	20	19718	11879	17146	0
90	22	21570	13067	18981	0
90	24	23420	14255	20818	0
90	26	26816	15672	24042	0
90	28	28778	16877	25993	0
90	30	30738	18083	27944	0
90	32	32699	19288	29896	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
92	10	10650	6071	8192	0
92	12	12561	7286	10049	0
92	14	14466	8500	11913	0
92	16	16366	9714	13782	0
92	18	18262	10929	15653	0
92	20	20156	12143	17527	0
92	22	22049	13357	19403	0
92	24	23940	14571	21280	0
92	26	27412	16020	24576	0
92	28	29417	17252	26570	0
92	30	31421	18484	28565	0
92	32	33425	19717	30560	0

HIGHER POWER HYDRAULIC DOORS
UNFACTORED DOOR JAMB REACTIONS - 140 mph - ASCE 7-16

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
94	10	10881	6203	8370	0
94	12	12834	7444	10267	0
94	14	14780	8685	12172	0
94	16	16721	9925	14081	0
94	18	18659	11166	15994	0
94	20	20595	12407	17908	0
94	22	22528	13647	19825	0
94	24	24461	14888	21743	0
94	26	28008	16368	25111	0
94	28	30057	17627	27148	0
94	30	32105	18886	29186	0
94	32	34152	20145	31225	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
96	10	11113	6335	8548	0
96	12	13107	7602	10486	0
96	14	15095	8870	12431	0
96	16	17077	10137	14381	0
96	18	19056	11404	16334	0
96	20	21033	12671	18289	0
96	22	23008	13938	20247	0
96	24	24981	15205	22206	0
96	26	28604	16716	25645	0
96	28	30696	18002	27726	0
96	30	32788	19288	29807	0
96	32	34879	20574	31889	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
98	10	11344	6467	8726	0
98	12	13380	7761	10704	0
98	14	15409	9054	12690	0
98	16	17433	10348	14680	0
98	18	19453	11641	16674	0
98	20	21471	12935	18670	0
98	22	23487	14228	20669	0
98	24	25502	15522	22668	0
98	26	29200	17065	26179	0
98	28	31336	18377	28303	0
98	30	33471	19690	30428	0
98	32	35605	21003	32553	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
100	10	11576	6599	8904	0
100	12	13654	7919	10923	0
100	14	15724	9239	12949	0
100	16	17789	10559	14980	0
100	18	19850	11879	17014	0
100	20	21909	13199	19051	0
100	22	23966	14519	21090	0
100	24	26022	15838	23131	0
100	26	29796	17413	26713	0
100	28	31975	18752	28881	0
100	30	34154	20092	31049	0
100	32	36332	21431	33218	0

HIGHER POWER HYDRAULIC DOORS
UNFACTORED DOOR JAMB REACTIONS - 140 mph - ASCE 7-16

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
105	10	12155	6929	9350	0
105	12	14336	8315	11469	0
105	14	16510	9701	13596	0
105	16	18678	11087	15729	0
105	18	20843	12473	17865	0
105	20	23005	13859	20004	0
105	22	25165	15245	22145	0
105	24	27323	16630	24287	0
105	26	31285	18284	28049	0
105	28	33574	19690	30325	0
105	30	35861	21096	32601	0
105	32	38148	22503	34879	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
110	10	12733	7259	9795	0
110	12	15019	8711	12015	0
110	14	17296	10163	14244	0
110	16	19568	11615	16478	0
110	18	21835	13067	18716	0
110	20	24100	14519	20957	0
110	22	26363	15970	23199	0
110	24	28624	17422	25444	0
110	26	32775	19154	29385	0
110	28	35173	20628	31769	0
110	30	37569	22101	34154	0
110	32	39965	23574	36539	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
115	10	13312	7589	10240	0
115	12	15702	9107	12561	0
115	14	18082	10625	14891	0
115	16	20457	12143	17227	0
115	18	22828	13661	19567	0
115	20	25196	15179	21909	0
115	22	27561	16696	24254	0
115	24	29925	18214	26600	0
115	26	34265	20025	30720	0
115	28	36771	21565	33213	0
115	30	39277	23106	35706	0
115	32	41782	24646	38200	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
120	10	13891	7919	10685	0
120	12	16384	9503	13107	0
120	14	18868	11087	15539	0
120	16	21346	12671	17976	0
120	18	23820	14255	20417	0
120	20	26291	15838	22862	0
120	22	28760	17422	25308	0
120	24	31226	19006	27757	0
120	26	35755	20896	32056	0
120	28	38370	22503	34657	0
120	30	40985	24110	37259	0
120	32	43598	25718	39861	0

HIGHER POWER HYDRAULIC DOORS
UNFACTORED DOOR JAMB REACTIONS - 140 mph - ASCE 7-16

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
125	10	14470	8249	11131	0
125	12	17067	9899	13654	0
125	14	19655	11549	16186	0
125	16	22236	13199	18725	0
125	18	24813	14849	21268	0
125	20	27386	16498	23814	0
125	22	29958	18148	26363	0
125	24	32528	19798	28913	0
125	26	37245	21766	33392	0
125	28	39969	23440	36101	0
125	30	42692	25115	38811	0
125	32	45415	26789	41522	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
130	10	15049	8579	11576	0
130	12	17750	10295	14200	0
130	14	20441	12011	16834	0
130	16	23125	13727	19474	0
130	18	25805	15443	22119	0
130	20	28482	17158	24767	0
130	22	31156	18874	27418	0
130	24	33829	20590	30070	0
130	26	38734	22637	34727	0
130	28	41568	24378	37545	0
130	30	44400	26119	40364	0
130	32	47231	27861	43183	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
135	10	15627	8909	12021	0
135	12	18432	10691	14746	0
135	14	21227	12473	17481	0
135	16	24015	14255	20223	0
135	18	26798	16036	22969	0
135	20	29577	17818	25719	0
135	22	32355	19600	28472	0
135	24	35130	21382	31226	0
135	26	40224	23507	36063	0
135	28	43166	25316	38989	0
135	30	46108	27124	41916	0
135	32	49048	28932	44844	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
140	10	16206	9239	12466	0
140	12	19115	11087	15292	0
140	14	22013	12935	18128	0
140	16	24904	14783	20972	0
140	18	27790	16630	23820	0
140	20	30673	18478	26672	0
140	22	33553	20326	29527	0
140	24	36431	22174	32383	0
140	26	41714	24378	37399	0
140	28	44765	26253	40433	0
140	30	47815	28129	43468	0
140	32	50865	30004	46505	0

HIGHER POWER HYDRAULIC DOORS
 UNFACTORED DOOR JAMB REACTIONS - 140 mph - ASCE 7-16

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
145	10	16785	9569	12912	0
145	12	19798	11483	15838	0
145	14	22799	13397	18776	0
145	16	25794	15311	21721	0
145	18	28783	17224	24671	0
145	20	31768	19138	27625	0
145	22	34751	21052	30581	0
145	24	37732	22966	33540	0
145	26	43204	25249	38734	0
145	28	46364	27191	41877	0
145	30	49523	29133	45021	0
145	32	52681	31075	48166	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
150	10	17364	9899	13357	0
150	12	20480	11879	16384	0
150	14	23585	13859	19423	0
150	16	26683	15838	22470	0
150	18	29775	17818	25522	0
150	20	32864	19798	28577	0
150	22	35950	21778	31636	0
150	24	39033	23758	34696	0
150	26	44693	26119	40070	0
150	28	47963	28129	43321	0
150	30	51231	30138	46573	0
150	32	54498	32147	49827	0