

HIGHER POWER HYDRAULIC DOORS
UNFACTORED DOOR JAMB REACTIONS - 145 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	145	43.9	50	7.2	50	3.2	-5.9
	24 ft < $h \leq 32$ ft		46.6		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	3725	1980	2866	0
30	12	4394	2376	3515	0
30	14	5060	2772	4167	0
30	16	5725	3168	4821	0
30	18	6388	3564	5475	0
30	20	7051	3960	6131	0
30	22	7713	4356	6787	0
30	24	8374	4752	7444	0
30	26	9589	5224	8597	0
30	28	10290	5626	9294	0
30	30	10991	6028	9992	0
30	32	11692	6429	10690	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
32	10	3974	2112	3057	0
32	12	4687	2534	3749	0
32	14	5397	2957	4445	0
32	16	6106	3379	5142	0
32	18	6814	3801	5840	0
32	20	7521	4224	6540	0
32	22	8227	4646	7240	0
32	24	8932	5068	7940	0
32	26	10228	5572	9170	0
32	28	10976	6001	9914	0
32	30	11724	6429	10658	0
32	32	12471	6858	11402	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
34	10	4222	2244	3248	0
34	12	4980	2693	3984	0
34	14	5735	3141	4723	0
34	16	6488	3590	5463	0
34	18	7240	4039	6205	0
34	20	7991	4488	6948	0
34	22	8741	4936	7692	0
34	24	9491	5385	8436	0
34	26	10867	5920	9743	0
34	28	11662	6376	10533	0
34	30	12457	6831	11324	0
34	32	13251	7287	12115	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
36	10	4470	2376	3439	0
36	12	5273	2851	4218	0
36	14	6072	3326	5001	0
36	16	6869	3801	5785	0
36	18	7666	4276	6571	0
36	20	8461	4752	7357	0
36	22	9255	5227	8145	0
36	24	10049	5702	8932	0
36	26	11506	6269	10316	0
36	28	12348	6751	11153	0
36	30	13189	7233	11990	0
36	32	14030	7715	12828	0

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Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
38	10	4719	2508	3630	0
38	12	5566	3009	4452	0
38	14	6409	3511	5278	0
38	16	7251	4012	6106	0
38	18	8091	4514	6936	0
38	20	8931	5016	7766	0
38	22	9769	5517	8597	0
38	24	10607	6019	9429	0
38	26	12146	6617	10889	0
38	28	13034	7126	11773	0
38	30	13922	7635	12656	0
38	32	14810	8144	13540	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
40	10	4967	2640	3821	0
40	12	5858	3168	4687	0
40	14	6747	3696	5556	0
40	16	7633	4224	6428	0
40	18	8517	4752	7301	0
40	20	9401	5279	8175	0
40	22	10284	5807	9049	0
40	24	11166	6335	9925	0
40	26	12785	6965	11462	0
40	28	13720	7501	12392	0
40	30	14655	8037	13323	0
40	32	15589	8573	14253	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
42	10	5215	2772	4012	0
42	12	6151	3326	4921	0
42	14	7084	3880	5834	0
42	16	8014	4435	6749	0
42	18	8943	4989	7666	0
42	20	9871	5543	8583	0
42	22	10798	6098	9502	0
42	24	11724	6652	10421	0
42	26	13424	7313	12035	0
42	28	14406	7876	13012	0
42	30	15388	8439	13989	0
42	32	16369	9001	14966	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
44	10	5464	2904	4203	0
44	12	6444	3484	5155	0
44	14	7421	4065	6112	0
44	16	8396	4646	7070	0
44	18	9369	5227	8031	0
44	20	10341	5807	8992	0
44	22	11312	6388	9954	0
44	24	12282	6969	10917	0
44	26	14063	7662	12608	0
44	28	15092	8251	13631	0
44	30	16120	8840	14655	0
44	32	17148	9430	15678	0

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Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
46	10	5712	3036	4394	0
46	12	6737	3643	5390	0
46	14	7759	4250	6390	0
46	16	8778	4857	7392	0
46	18	9795	5464	8396	0
46	20	10811	6071	9401	0
46	22	11826	6679	10407	0
46	24	12840	7286	11414	0
46	26	14702	8010	13182	0
46	28	15778	8626	14251	0
46	30	16853	9242	15321	0
46	32	17928	9858	16391	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
48	10	5960	3168	4585	0
48	12	7030	3801	5624	0
48	14	8096	4435	6667	0
48	16	9159	5068	7713	0
48	18	10221	5702	8761	0
48	20	11281	6335	9810	0
48	22	12340	6969	10859	0
48	24	13399	7602	11910	0
48	26	15342	8358	13755	0
48	28	16464	9001	14871	0
48	30	17586	9644	15987	0
48	32	18707	10287	17104	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
50	10	6209	3300	4776	0
50	12	7323	3960	5858	0
50	14	8433	4620	6945	0
50	16	9541	5279	8035	0
50	18	10647	5939	9126	0
50	20	11751	6599	10218	0
50	22	12854	7259	11312	0
50	24	13957	7919	12406	0
50	26	15981	8706	14328	0
50	28	17150	9376	15490	0
50	30	18318	10046	16653	0
50	32	19487	10716	17816	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
52	10	6457	3432	4967	0
52	12	7616	4118	6093	0
52	14	8771	4804	7223	0
52	16	9923	5491	8356	0
52	18	11073	6177	9491	0
52	20	12221	6863	10627	0
52	22	13369	7550	11764	0
52	24	14515	8236	12902	0
52	26	16620	9055	14901	0
52	28	17836	9751	16110	0
52	30	19051	10448	17319	0
52	32	20266	11144	18529	0

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Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
54	10	6705	3564	5158	0
54	12	7909	4276	6327	0
54	14	9108	4989	7501	0
54	16	10304	5702	8677	0
54	18	11498	6415	9856	0
54	20	12691	7127	11036	0
54	22	13883	7840	12217	0
54	24	15074	8553	13399	0
54	26	17259	9403	15474	0
54	28	18522	10126	16729	0
54	30	19784	10850	17985	0
54	32	21046	11573	19242	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
56	10	6954	3696	5349	0
56	12	8202	4435	6562	0
56	14	9445	5174	7779	0
56	16	10686	5913	8999	0
56	18	11924	6652	10221	0
56	20	13161	7391	11444	0
56	22	14397	8130	12669	0
56	24	15632	8870	13895	0
56	26	17899	9751	16047	0
56	28	19208	10501	17349	0
56	30	20517	11251	18652	0
56	32	21825	12002	19954	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
58	10	7202	3828	5540	0
58	12	8495	4593	6796	0
58	14	9783	5359	8056	0
58	16	11068	6124	9320	0
58	18	12350	6890	10586	0
58	20	13631	7655	11853	0
58	22	14911	8421	13122	0
58	24	16190	9186	14391	0
58	26	18538	10099	16620	0
58	28	19894	10876	17969	0
58	30	21249	11653	19318	0
58	32	22605	12430	20667	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
60	10	7450	3960	5731	0
60	12	8788	4752	7030	0
60	14	10120	5543	8334	0
60	16	11449	6335	9641	0
60	18	12776	7127	10951	0
60	20	14101	7919	12262	0
60	22	15425	8711	13574	0
60	24	16748	9503	14887	0
60	26	19177	10448	17193	0
60	28	20580	11251	18588	0
60	30	21982	12055	19984	0
60	32	23384	12859	21380	0

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Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
62	10	7699	4092	5922	0
62	12	9081	4910	7265	0
62	14	10457	5728	8612	0
62	16	11831	6547	9963	0
62	18	13202	7365	11316	0
62	20	14571	8183	12671	0
62	22	15939	9002	14027	0
62	24	17307	9820	15384	0
62	26	19816	10796	17766	0
62	28	21266	11626	19208	0
62	30	22715	12457	20650	0
62	32	24163	13287	22092	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
64	10	7947	4224	6113	0
64	12	9374	5068	7499	0
64	14	10795	5913	8890	0
64	16	12212	6758	10284	0
64	18	13628	7602	11681	0
64	20	15041	8447	13079	0
64	22	16454	9292	14479	0
64	24	17865	10137	15880	0
64	26	20456	11144	18340	0
64	28	21952	12002	19828	0
64	30	23448	12859	21316	0
64	32	24943	13716	22805	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
66	10	8196	4356	6304	0
66	12	9667	5227	7733	0
66	14	11132	6098	9168	0
66	16	12594	6969	10606	0
66	18	14054	7840	12046	0
66	20	15511	8711	13488	0
66	22	16968	9582	14932	0
66	24	18423	10453	16376	0
66	26	21095	11493	18913	0
66	28	22638	12377	20447	0
66	30	24180	13261	21982	0
66	32	25722	14145	23518	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
68	10	8444	4488	6495	0
68	12	9959	5385	7968	0
68	14	11469	6283	9445	0
68	16	12976	7180	10927	0
68	18	14479	8078	12411	0
68	20	15981	8975	13897	0
68	22	17482	9873	15384	0
68	24	18982	10770	16872	0
68	26	21734	11841	19486	0
68	28	23324	12752	21067	0
68	30	24913	13662	22648	0
68	32	26502	14573	24230	0

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Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
70	10	8692	4620	6686	0
70	12	10252	5543	8202	0
70	14	11807	6467	9723	0
70	16	13357	7391	11248	0
70	18	14905	8315	12776	0
70	20	16451	9239	14306	0
70	22	17996	10163	15837	0
70	24	19540	11087	17369	0
70	26	22373	12189	20059	0
70	28	24010	13127	21686	0
70	30	25646	14064	23314	0
70	32	27281	15002	24943	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
72	10	8941	4752	6877	0
72	12	10545	5702	8436	0
72	14	12144	6652	10001	0
72	16	13739	7602	11570	0
72	18	15331	8553	13141	0
72	20	16922	9503	14714	0
72	22	18510	10453	16289	0
72	24	20098	11404	17865	0
72	26	23013	12537	20632	0
72	28	24696	13502	22306	0
72	30	26379	14466	23981	0
72	32	28061	15431	25656	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
74	10	9189	4884	7068	0
74	12	10838	5860	8671	0
74	14	12481	6837	10279	0
74	16	14121	7814	11891	0
74	18	15757	8790	13506	0
74	20	17392	9767	15123	0
74	22	19025	10744	16742	0
74	24	20656	11720	18361	0
74	26	22373	12886	21205	0
74	28	24010	13877	22926	0
74	30	25646	14868	24647	0
74	32	27281	15859	26368	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
76	10	9437	5016	7259	0
76	12	11131	6019	8905	0
76	14	12819	7022	10557	0
76	16	14502	8025	12212	0
76	18	16183	9028	13871	0
76	20	17862	10031	15532	0
76	22	19539	11034	17194	0
76	24	21215	12037	18857	0
76	26	24291	13234	21778	0
76	28	26068	14252	23545	0
76	30	27844	15270	25313	0
76	32	29620	16288	27081	0

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Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
78	10	9686	5148	7450	0
78	12	11424	6177	9139	0
78	14	13156	7207	10834	0
78	16	14884	8236	12534	0
78	18	16609	9266	14236	0
78	20	18332	10295	15941	0
78	22	20053	11325	17647	0
78	24	21773	12354	19354	0
78	26	24930	13582	22351	0
78	28	26754	14627	24165	0
78	30	28577	15672	25979	0
78	32	30399	16716	27794	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
80	10	9934	5279	7642	0
80	12	11717	6335	9374	0
80	14	13493	7391	11112	0
80	16	15266	8447	12855	0
80	18	17035	9503	14601	0
80	20	18802	10559	16349	0
80	22	20567	11615	18099	0
80	24	22331	12671	19850	0
80	26	25570	13930	22924	0
80	28	27440	15002	24784	0
80	30	29310	16073	26645	0
80	32	31179	17145	28506	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
82	10	10182	5411	7833	0
82	12	12010	6494	9608	0
82	14	13831	7576	11390	0
82	16	15647	8658	13177	0
82	18	17461	9741	14966	0
82	20	19272	10823	16758	0
82	22	21081	11905	18551	0
82	24	22889	12988	20346	0
82	26	26209	14279	23498	0
82	28	28126	15377	25404	0
82	30	30042	16475	27311	0
82	32	31958	17574	29219	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
84	10	10431	5543	8024	0
84	12	12303	6652	9842	0
84	14	14168	7761	11668	0
84	16	16029	8870	13498	0
84	18	17886	9978	15331	0
84	20	19742	11087	17167	0
84	22	21595	12196	19004	0
84	24	23448	13304	20842	0
84	26	26848	14627	24071	0
84	28	28812	15752	26024	0
84	30	30775	16877	27977	0
84	32	32738	18002	29932	0

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Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
86	10	10679	5675	8215	0
86	12	12596	6811	10077	0
86	14	14505	7946	11946	0
86	16	16410	9081	13819	0
86	18	18312	10216	15696	0
86	20	20212	11351	17575	0
86	22	22110	12486	19456	0
86	24	24006	13621	21339	0
86	26	27487	14975	24644	0
86	28	29498	16127	26643	0
86	30	31508	17279	28643	0
86	32	33517	18431	30644	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
88	10	10927	5807	8406	0
88	12	12889	6969	10311	0
88	14	14843	8130	12223	0
88	16	16792	9292	14141	0
88	18	18738	10453	16061	0
88	20	20682	11615	17984	0
88	22	22624	12776	19909	0
88	24	24564	13938	21835	0
88	26	28126	15323	25217	0
88	28	30184	16502	27263	0
88	30	32240	17681	29310	0
88	32	34297	18860	31357	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
90	10	11176	5939	8597	0
90	12	13182	7127	10545	0
90	14	15180	8315	12501	0
90	16	17174	9503	14462	0
90	18	19164	10691	16426	0
90	20	21152	11879	18393	0
90	22	23138	13067	20361	0
90	24	25123	14255	22331	0
90	26	28766	15672	25790	0
90	28	30870	16877	27882	0
90	30	32973	18083	29976	0
90	32	35076	19288	32069	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
92	10	11424	6071	8788	0
92	12	13475	7286	10780	0
92	14	15517	8500	12779	0
92	16	17555	9714	14783	0
92	18	19590	10929	16791	0
92	20	21622	12143	18802	0
92	22	23652	13357	20814	0
92	24	25681	14571	22827	0
92	26	29405	16020	26363	0
92	28	31556	17252	28502	0
92	30	33706	18484	30642	0
92	32	35855	19717	32782	0

HIGHER POWER HYDRAULIC DOORS
UNFACTORED DOOR JAMB REACTIONS - 145 mph - ASCE 7-16

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
94	10	11672	6203	8979	0
94	12	13767	7444	11014	0
94	14	15855	8685	13057	0
94	16	17937	9925	15105	0
94	18	20016	11166	17156	0
94	20	22092	12407	19210	0
94	22	24166	13647	21266	0
94	24	26239	14888	23324	0
94	26	30044	16368	26936	0
94	28	32242	17627	29122	0
94	30	34439	18886	31308	0
94	32	36635	20145	33495	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
96	10	11921	6335	9170	0
96	12	14060	7602	11248	0
96	14	16192	8870	13335	0
96	16	18319	10137	15426	0
96	18	20442	11404	17521	0
96	20	22562	12671	19619	0
96	22	24680	13938	21719	0
96	24	26797	15205	23820	0
96	26	30683	16716	27509	0
96	28	32928	18002	29741	0
96	30	35171	19288	31974	0
96	32	37414	20574	34207	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
98	10	12169	6467	9361	0
98	12	14353	7761	11483	0
98	14	16529	9054	13612	0
98	16	18700	10348	15748	0
98	18	20867	11641	17886	0
98	20	23032	12935	20028	0
98	22	25195	14228	22171	0
98	24	27356	15522	24316	0
98	26	31323	17065	28082	0
98	28	33614	18377	30361	0
98	30	35904	19690	32640	0
98	32	38194	21003	34920	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
100	10	12417	6599	9552	0
100	12	14646	7919	11717	0
100	14	16867	9239	13890	0
100	16	19082	10559	16069	0
100	18	21293	11879	18251	0
100	20	23502	13199	20437	0
100	22	25709	14519	22624	0
100	24	27914	15838	24812	0
100	26	31962	17413	28656	0
100	28	34300	18752	30980	0
100	30	36637	20092	33306	0
100	32	38973	21431	35633	0

HIGHER POWER HYDRAULIC DOORS
UNFACTORED DOOR JAMB REACTIONS - 145 mph - ASCE 7-16

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
105	10	13038	6929	10029	0
105	12	15379	8315	12303	0
105	14	17710	9701	14585	0
105	16	20036	11087	16872	0
105	18	22358	12473	19164	0
105	20	24677	13859	21458	0
105	22	26994	15245	23755	0
105	24	29310	16630	26053	0
105	26	33560	18284	30088	0
105	28	36015	19690	32530	0
105	30	38469	21096	34972	0
105	32	40922	22503	37414	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
110	10	13659	7259	10507	0
110	12	16111	8711	12889	0
110	14	18553	10163	15279	0
110	16	20990	11615	17676	0
110	18	23423	13067	20077	0
110	20	25852	14519	22480	0
110	22	28280	15970	24886	0
110	24	30705	17422	27294	0
110	26	35158	19154	31521	0
110	28	37730	20628	34079	0
110	30	40301	22101	36637	0
110	32	42871	23574	39196	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
115	10	14280	7589	10985	0
115	12	16843	9107	13475	0
115	14	19397	10625	15974	0
115	16	21944	12143	18479	0
115	18	24487	13661	20989	0
115	20	27027	15179	23502	0
115	22	29565	16696	26017	0
115	24	32101	18214	28534	0
115	26	36756	20025	32954	0
115	28	39445	21565	35628	0
115	30	42132	23106	38302	0
115	32	44819	24646	40978	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
120	10	14901	7919	11462	0
120	12	17575	9503	14060	0
120	14	20240	11087	16668	0
120	16	22898	12671	19283	0
120	18	25552	14255	21902	0
120	20	28203	15838	24524	0
120	22	30851	17422	27148	0
120	24	33497	19006	29775	0
120	26	38354	20896	34387	0
120	28	41160	22503	37177	0
120	30	43964	24110	39968	0
120	32	46768	25718	42759	0

HIGHER POWER HYDRAULIC DOORS
UNFACTORED DOOR JAMB REACTIONS - 145 mph - ASCE 7-16

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
125	10	15522	8249	11940	0
125	12	18308	9899	14646	0
125	14	21083	11549	17363	0
125	16	23852	13199	20086	0
125	18	26617	14849	22814	0
125	20	29378	16498	25546	0
125	22	32136	18148	28280	0
125	24	34892	19798	31016	0
125	26	39952	21766	35819	0
125	28	42875	23440	38726	0
125	30	45796	25115	41633	0
125	32	48717	26789	44541	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
130	10	16143	8579	12417	0
130	12	19040	10295	15232	0
130	14	21927	12011	18057	0
130	16	24807	13727	20890	0
130	18	27681	15443	23727	0
130	20	30553	17158	26568	0
130	22	33421	18874	29411	0
130	24	36288	20590	32256	0
130	26	41551	22637	37252	0
130	28	44590	24378	40275	0
130	30	47628	26119	43298	0
130	32	50665	27861	46323	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
135	10	16764	8909	12895	0
135	12	19772	10691	15818	0
135	14	22770	12473	18752	0
135	16	25761	14255	21693	0
135	18	28746	16036	24639	0
135	20	31728	17818	27589	0
135	22	34707	19600	30542	0
135	24	37684	21382	33497	0
135	26	43149	23507	38685	0
135	28	46305	25316	41824	0
135	30	49460	27124	44963	0
135	32	52614	28932	48104	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
140	10	17384	9239	13373	0
140	12	20505	11087	16404	0
140	14	23613	12935	19446	0
140	16	26715	14783	22497	0
140	18	29811	16630	25552	0
140	20	32903	18478	28611	0
140	22	35992	20326	31673	0
140	24	39080	22174	34737	0
140	26	44747	24378	40118	0
140	28	48020	26253	43373	0
140	30	51292	28129	46629	0
140	32	54563	30004	49886	0

HIGHER POWER HYDRAULIC DOORS
UNFACTORED DOOR JAMB REACTIONS - 145 mph - ASCE 7-16

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
145	10	18005	9569	13850	0
145	12	21237	11483	16990	0
145	14	24457	13397	20141	0
145	16	27669	15311	23300	0
145	18	30875	17224	26465	0
145	20	34078	19138	29633	0
145	22	37278	21052	32804	0
145	24	40475	22966	35978	0
145	26	46345	25249	41551	0
145	28	49735	27191	44922	0
145	30	53124	29133	48294	0
145	32	56511	31075	51668	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
150	10	18626	9899	14328	0
150	12	21969	11879	17575	0
150	14	25300	13859	20835	0
150	16	28623	15838	24104	0
150	18	31940	17818	27377	0
150	20	35253	19798	30655	0
150	22	38563	21778	33936	0
150	24	41871	23758	37219	0
150	26	47943	26119	42983	0
150	28	51450	28129	46471	0
150	30	54955	30138	49959	0
150	32	58460	32147	53449	0