

HIGHER POWER HYDRAULIC DOORS
UNFACTORED DOOR JAMB REACTIONS - 135 mph - ASCE 7-16

Weight (psf)	Door Height	Wind Vel. A (mph)	Wind Load A (psf) (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	135	38.1	50	7.2	50	3.2	-5.9
	24 ft < $h \leq 32$ ft		40.4		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	3229	1980	2484	0
30	12	3809	2376	3047	0
30	14	4386	2772	3612	0
30	16	4962	3168	4179	0
30	18	5537	3564	4746	0
30	20	6112	3960	5314	0
30	22	6686	4356	5883	0
30	24	7259	4752	6452	0
30	26	8312	5224	7452	0
30	28	8920	5626	8056	0
30	30	9527	6028	8661	0
30	32	10135	6429	9266	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
32	10	3444	2112	2650	0
32	12	4063	2534	3250	0
32	14	4679	2957	3853	0
32	16	5293	3379	4457	0
32	18	5906	3801	5063	0
32	20	6519	4224	5669	0
32	22	7131	4646	6275	0
32	24	7743	5068	6883	0
32	26	8866	5572	7949	0
32	28	9514	6001	8593	0
32	30	10162	6429	9239	0
32	32	10811	6858	9884	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
34	10	3660	2244	2815	0
34	12	4317	2693	3453	0
34	14	4971	3141	4094	0
34	16	5624	3590	4736	0
34	18	6276	4039	5379	0
34	20	6927	4488	6023	0
34	22	7577	4936	6668	0
34	24	8227	5385	7313	0
34	26	9420	5920	8445	0
34	28	10109	6376	9131	0
34	30	10798	6831	9816	0
34	32	11486	7287	10502	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
36	10	3875	2376	2981	0
36	12	4570	2851	3656	0
36	14	5263	3326	4335	0
36	16	5955	3801	5014	0
36	18	6645	4276	5695	0
36	20	7334	4752	6377	0
36	22	8023	5227	7060	0
36	24	8711	5702	7743	0
36	26	9974	6269	8942	0
36	28	10704	6751	9668	0
36	30	11433	7233	10393	0
36	32	12162	7715	11119	0

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Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
38	10	4090	2508	3146	0
38	12	4824	3009	3859	0
38	14	5556	3511	4575	0
38	16	6285	4012	5293	0
38	18	7014	4514	6012	0
38	20	7741	5016	6732	0
38	22	8468	5517	7452	0
38	24	9195	6019	8173	0
38	26	10528	6617	9439	0
38	28	11298	7126	10205	0
38	30	12068	7635	10971	0
38	32	12838	8144	11737	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
40	10	4306	2640	3312	0
40	12	5078	3168	4063	0
40	14	5848	3696	4816	0
40	16	6616	4224	5572	0
40	18	7383	4752	6328	0
40	20	8149	5279	7086	0
40	22	8914	5807	7844	0
40	24	9679	6335	8603	0
40	26	11082	6965	9936	0
40	28	11893	7501	10742	0
40	30	12703	8037	11548	0
40	32	13513	8573	12355	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
42	10	4521	2772	3478	0
42	12	5332	3326	4266	0
42	14	6141	3880	5057	0
42	16	6947	4435	5850	0
42	18	7752	4989	6645	0
42	20	8556	5543	7440	0
42	22	9360	6098	8237	0
42	24	10163	6652	9033	0
42	26	11636	7313	10433	0
42	28	12487	7876	11279	0
42	30	13338	8439	12126	0
42	32	14189	9001	12973	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
44	10	4736	2904	3643	0
44	12	5586	3484	4469	0
44	14	6433	4065	5298	0
44	16	7278	4646	6129	0
44	18	8121	5227	6961	0
44	20	8964	5807	7795	0
44	22	9805	6388	8629	0
44	24	10646	6969	9464	0
44	26	12190	7662	10929	0
44	28	13082	8251	11816	0
44	30	13973	8840	12703	0
44	32	14865	9430	13590	0

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Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
46	10	4951	3036	3809	0
46	12	5840	3643	4672	0
46	14	6725	4250	5539	0
46	16	7609	4857	6407	0
46	18	8491	5464	7278	0
46	20	9371	6071	8149	0
46	22	10251	6679	9021	0
46	24	11130	7286	9894	0
46	26	12744	8010	11426	0
46	28	13677	8626	12353	0
46	30	14609	9242	13281	0
46	32	15540	9858	14208	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
48	10	5167	3168	3974	0
48	12	6094	3801	4875	0
48	14	7018	4435	5779	0
48	16	7940	5068	6686	0
48	18	8860	5702	7594	0
48	20	9779	6335	8503	0
48	22	10697	6969	9413	0
48	24	11614	7602	10324	0
48	26	13299	8358	11923	0
48	28	14271	9001	12890	0
48	30	15244	9644	13858	0
48	32	16216	10287	14826	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
50	10	5382	3300	4140	0
50	12	6348	3960	5078	0
50	14	7310	4620	6020	0
50	16	8270	5279	6965	0
50	18	9229	5939	7910	0
50	20	10186	6599	8857	0
50	22	11143	7259	9805	0
50	24	12098	7919	10754	0
50	26	13853	8706	12420	0
50	28	14866	9376	13427	0
50	30	15879	10046	14435	0
50	32	16892	10716	15444	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
52	10	5597	3432	4306	0
52	12	6602	4118	5281	0
52	14	7603	4804	6261	0
52	16	8601	5491	7243	0
52	18	9598	6177	8227	0
52	20	10594	6863	9212	0
52	22	11588	7550	10198	0
52	24	12582	8236	11184	0
52	26	14407	9055	12916	0
52	28	15461	9751	13964	0
52	30	16514	10448	15013	0
52	32	17567	11144	16061	0

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Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
54	10	5812	3564	4471	0
54	12	6856	4276	5485	0
54	14	7895	4989	6502	0
54	16	8932	5702	7522	0
54	18	9967	6415	8543	0
54	20	11001	7127	9566	0
54	22	12034	7840	10590	0
54	24	13066	8553	11614	0
54	26	14961	9403	13413	0
54	28	16055	10126	14502	0
54	30	17149	10850	15590	0
54	32	18243	11573	16679	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
56	10	6028	3696	4637	0
56	12	7110	4435	5688	0
56	14	8188	5174	6743	0
56	16	9263	5913	7800	0
56	18	10336	6652	8860	0
56	20	11408	7391	9920	0
56	22	12480	8130	10982	0
56	24	13550	8870	12045	0
56	26	15515	9751	13910	0
56	28	16650	10501	15039	0
56	30	17784	11251	16168	0
56	32	18919	12002	17297	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
58	10	6243	3828	4802	0
58	12	7364	4593	5891	0
58	14	8480	5359	6983	0
58	16	9594	6124	8079	0
58	18	10705	6890	9176	0
58	20	11816	7655	10275	0
58	22	12925	8421	11374	0
58	24	14034	9186	12475	0
58	26	16069	10099	14407	0
58	28	17245	10876	15576	0
58	30	18420	11653	16745	0
58	32	19594	12430	17915	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
60	10	6458	3960	4968	0
60	12	7617	4752	6094	0
60	14	8772	5543	7224	0
60	16	9924	6335	8357	0
60	18	11075	7127	9492	0
60	20	12223	7919	10629	0
60	22	13371	8711	11767	0
60	24	14518	9503	12905	0
60	26	16623	10448	14904	0
60	28	17839	11251	16113	0
60	30	19055	12055	17322	0
60	32	20270	12859	18532	0

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Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
62	10	6674	4092	5133	0
62	12	7871	4910	6297	0
62	14	9065	5728	7465	0
62	16	10255	6547	8636	0
62	18	11444	7365	9809	0
62	20	12631	8183	10983	0
62	22	13817	9002	12159	0
62	24	15002	9820	13335	0
62	26	17177	10796	15400	0
62	28	18434	11626	16650	0
62	30	19690	12457	17900	0
62	32	20946	13287	19150	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
64	10	6889	4224	5299	0
64	12	8125	5068	6500	0
64	14	9357	5913	7706	0
64	16	10586	6758	8915	0
64	18	11813	7602	10125	0
64	20	13038	8447	11338	0
64	22	14262	9292	12551	0
64	24	15486	10137	13765	0
64	26	17731	11144	15897	0
64	28	19028	12002	17187	0
64	30	20325	12859	18477	0
64	32	21621	13716	19768	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
66	10	7104	4356	5465	0
66	12	8379	5227	6703	0
66	14	9650	6098	7947	0
66	16	10917	6969	9193	0
66	18	12182	7840	10442	0
66	20	13446	8711	11692	0
66	22	14708	9582	12943	0
66	24	15970	10453	14195	0
66	26	18286	11493	16394	0
66	28	19623	12377	17724	0
66	30	20960	13261	19055	0
66	32	22297	14145	20386	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
68	10	7319	4488	5630	0
68	12	8633	5385	6906	0
68	14	9942	6283	8188	0
68	16	11248	7180	9472	0
68	18	12551	8078	10758	0
68	20	13853	8975	12046	0
68	22	15154	9873	13335	0
68	24	16454	10770	14625	0
68	26	18840	11841	16891	0
68	28	20218	12752	18261	0
68	30	21595	13662	19632	0
68	32	22972	14573	21003	0

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Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
70	10	7535	4620	5796	0
70	12	8887	5543	7110	0
70	14	10234	6467	8428	0
70	16	11578	7391	9750	0
70	18	12920	8315	11075	0
70	20	14261	9239	12400	0
70	22	15600	10163	13728	0
70	24	16938	11087	15056	0
70	26	19394	12189	17388	0
70	28	20812	13127	18798	0
70	30	22230	14064	20210	0
70	32	23648	15002	21621	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
72	10	7750	4752	5961	0
72	12	9141	5702	7313	0
72	14	10527	6652	8669	0
72	16	11909	7602	10029	0
72	18	13289	8553	11391	0
72	20	14668	9503	12755	0
72	22	16045	10453	14120	0
72	24	17422	11404	15486	0
72	26	19948	12537	17884	0
72	28	21407	13502	19335	0
72	30	22866	14466	20787	0
72	32	24324	15431	22239	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
74	10	7965	4884	6127	0
74	12	9395	5860	7516	0
74	14	10819	6837	8910	0
74	16	12240	7814	10307	0
74	18	13659	8790	11707	0
74	20	15075	9767	13109	0
74	22	16491	10744	14512	0
74	24	17905	11720	15916	0
74	26	19394	12886	18381	0
74	28	20812	13877	19872	0
74	30	22230	14868	21364	0
74	32	23648	15859	22857	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
76	10	8180	5016	6293	0
76	12	9649	6019	7719	0
76	14	11112	7022	9151	0
76	16	12571	8025	10586	0
76	18	14028	9028	12024	0
76	20	15483	10031	13463	0
76	22	16937	11034	14904	0
76	24	18389	12037	16346	0
76	26	21056	13234	18878	0
76	28	22596	14252	20410	0
76	30	24136	15270	21942	0
76	32	25675	16288	23474	0

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Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
78	10	8396	5148	6458	0
78	12	9903	6177	7922	0
78	14	11404	7207	9392	0
78	16	12902	8236	10865	0
78	18	14397	9266	12340	0
78	20	15890	10295	13818	0
78	22	17382	11325	15296	0
78	24	18873	12354	16776	0
78	26	21610	13582	19375	0
78	28	23191	14627	20947	0
78	30	24771	15672	22519	0
78	32	26351	16716	24092	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
80	10	8611	5279	6624	0
80	12	10157	6335	8125	0
80	14	11696	7391	9632	0
80	16	13233	8447	11143	0
80	18	14766	9503	12657	0
80	20	16298	10559	14172	0
80	22	17828	11615	15689	0
80	24	19357	12671	17206	0
80	26	22164	13930	19871	0
80	28	23786	15002	21484	0
80	30	25406	16073	23097	0
80	32	27026	17145	24710	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
82	10	8826	5411	6789	0
82	12	10410	6494	8328	0
82	14	11989	7576	9873	0
82	16	13563	8658	11422	0
82	18	15135	9741	12973	0
82	20	16705	10823	14526	0
82	22	18274	11905	16081	0
82	24	19841	12988	17637	0
82	26	22718	14279	20368	0
82	28	24380	15377	22021	0
82	30	26041	16475	23674	0
82	32	27702	17574	25328	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
84	10	9042	5543	6955	0
84	12	10664	6652	8532	0
84	14	12281	7761	10114	0
84	16	13894	8870	11700	0
84	18	15504	9978	13289	0
84	20	17113	11087	14881	0
84	22	18719	12196	16473	0
84	24	20325	13304	18067	0
84	26	23273	14627	20865	0
84	28	24975	15752	22558	0
84	30	26677	16877	24251	0
84	32	28378	18002	25945	0

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Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
86	10	9257	5675	7121	0
86	12	10918	6811	8735	0
86	14	12574	7946	10355	0
86	16	14225	9081	11979	0
86	18	15874	10216	13606	0
86	20	17520	11351	15235	0
86	22	19165	12486	16865	0
86	24	20809	13621	18497	0
86	26	23827	14975	21362	0
86	28	25569	16127	23095	0
86	30	27312	17279	24829	0
86	32	29053	18431	26563	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
88	10	9472	5807	7286	0
88	12	11172	6969	8938	0
88	14	12866	8130	10596	0
88	16	14556	9292	12258	0
88	18	16243	10453	13922	0
88	20	17928	11615	15589	0
88	22	19611	12776	17258	0
88	24	21293	13938	18927	0
88	26	24381	15323	21859	0
88	28	26164	16502	23632	0
88	30	27947	17681	25406	0
88	32	29729	18860	27181	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
90	10	9687	5939	7452	0
90	12	11426	7127	9141	0
90	14	13158	8315	10836	0
90	16	14887	9503	12536	0
90	18	16612	10691	14239	0
90	20	18335	11879	15943	0
90	22	20057	13067	17650	0
90	24	21777	14255	19357	0
90	26	24935	15672	22355	0
90	28	26759	16877	24169	0
90	30	28582	18083	25984	0
90	32	30405	19288	27799	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
92	10	9903	6071	7617	0
92	12	11680	7286	9344	0
92	14	13451	8500	11077	0
92	16	15217	9714	12815	0
92	18	16981	10929	14555	0
92	20	18742	12143	16298	0
92	22	20502	13357	18042	0
92	24	22261	14571	19787	0
92	26	25489	16020	22852	0
92	28	27353	17252	24706	0
92	30	29217	18484	26561	0
92	32	31080	19717	28416	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	10118	6203	7783	0
94	12	11934	7444	9547	0
94	14	13743	8685	11318	0
94	16	15548	9925	13093	0
94	18	17350	11166	14872	0
94	20	19150	12407	16652	0
94	22	20948	13647	18434	0
94	24	22745	14888	20218	0
94	26	26043	16368	23349	0
94	28	27948	17627	25243	0
94	30	29852	18886	27138	0
94	32	31756	20145	29034	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
96	10	10333	6335	7949	0
96	12	12188	7602	9750	0
96	14	14036	8870	11559	0
96	16	15879	10137	13372	0
96	18	17719	11404	15188	0
96	20	19557	12671	17006	0
96	22	21394	13938	18826	0
96	24	23229	15205	20648	0
96	26	26597	16716	23846	0
96	28	28543	18002	25780	0
96	30	30487	19288	27716	0
96	32	32432	20574	29652	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
98	10	10548	6467	8114	0
98	12	12442	7761	9953	0
98	14	14328	9054	11800	0
98	16	16210	10348	13650	0
98	18	18088	11641	15504	0
98	20	19965	12935	17361	0
98	22	21839	14228	19219	0
98	24	23713	15522	21078	0
98	26	27151	17065	24343	0
98	28	29137	18377	26318	0
98	30	31123	19690	28293	0
98	32	33107	21003	30270	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
100	10	10764	6599	8280	0
100	12	12696	7919	10157	0
100	14	14621	9239	12040	0
100	16	16541	10559	13929	0
100	18	18458	11879	15821	0
100	20	20372	13199	17715	0
100	22	22285	14519	19611	0
100	24	24197	15838	21508	0
100	26	27705	17413	24839	0
100	28	29732	18752	26855	0
100	30	31758	20092	28871	0
100	32	33783	21431	30887	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	11302	6929	8694	0
105	12	13331	8315	10664	0
105	14	15352	9701	12642	0
105	16	17368	11087	14625	0
105	18	19381	12473	16612	0
105	20	21391	13859	18601	0
105	22	23399	15245	20591	0
105	24	25406	16630	22583	0
105	26	29091	18284	26081	0
105	28	31219	19690	28197	0
105	30	33346	21096	30314	0
105	32	35472	22503	32432	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
110	10	11840	7259	9108	0
110	12	13965	8711	11172	0
110	14	16083	10163	13245	0
110	16	18195	11615	15322	0
110	18	20303	13067	17403	0
110	20	22409	14519	19486	0
110	22	24514	15970	21572	0
110	24	26616	17422	23659	0
110	26	30476	19154	27323	0
110	28	32705	20628	29540	0
110	30	34934	22101	31758	0
110	32	37161	23574	33976	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
115	10	12378	7589	9522	0
115	12	14600	9107	11680	0
115	14	16814	10625	13847	0
115	16	19022	12143	16018	0
115	18	21226	13661	18194	0
115	20	23428	15179	20372	0
115	22	25628	16696	22552	0
115	24	27826	18214	24734	0
115	26	31861	20025	28565	0
115	28	34192	21565	30883	0
115	30	36521	23106	33201	0
115	32	38851	24646	35520	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
120	10	12917	7919	9936	0
120	12	15235	9503	12188	0
120	14	17545	11087	14449	0
120	16	19849	12671	16715	0
120	18	22149	14255	18985	0
120	20	24447	15838	21258	0
120	22	26742	17422	23533	0
120	24	29036	19006	25810	0
120	26	33246	20896	29807	0
120	28	35678	22503	32226	0
120	30	38109	24110	34645	0
120	32	40540	25718	37065	0

HIGHER POWER HYDRAULIC DOORS
UNFACTORED DOOR JAMB REACTIONS - 135 mph - ASCE 7-16

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
125	10	13455	8249	10350	0
125	12	15870	9899	12696	0
125	14	18276	11549	15051	0
125	16	20676	13199	17411	0
125	18	23072	14849	19776	0
125	20	25465	16498	22144	0
125	22	27856	18148	24514	0
125	24	30246	19798	26885	0
125	26	34632	21766	31049	0
125	28	37165	23440	33568	0
125	30	39697	25115	36088	0
125	32	42229	26789	38609	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
130	10	13993	8579	10764	0
130	12	16504	10295	13204	0
130	14	19007	12011	15653	0
130	16	21503	13727	18108	0
130	18	23995	15443	20567	0
130	20	26484	17158	23029	0
130	22	28971	18874	25494	0
130	24	31456	20590	27960	0
130	26	36017	22637	32291	0
130	28	38652	24378	34911	0
130	30	41285	26119	37532	0
130	32	43918	27861	40154	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
135	10	14531	8909	11178	0
135	12	17139	10691	13711	0
135	14	19738	12473	16255	0
135	16	22330	14255	18804	0
135	18	24918	16036	21358	0
135	20	27502	17818	23915	0
135	22	30085	19600	26475	0
135	24	32665	21382	29036	0
135	26	37402	23507	33533	0
135	28	40138	25316	36254	0
135	30	42873	27124	38975	0
135	32	45607	28932	41698	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
140	10	15069	9239	11592	0
140	12	17774	11087	14219	0
140	14	20469	12935	16857	0
140	16	23157	14783	19501	0
140	18	25841	16630	22149	0
140	20	28521	18478	24801	0
140	22	31199	20326	27455	0
140	24	33875	22174	30111	0
140	26	38788	24378	34775	0
140	28	41625	26253	37597	0
140	30	44461	28129	40419	0
140	32	47296	30004	43242	0

HIGHER POWER HYDRAULIC DOORS
 UNFACTORED DOOR JAMB REACTIONS - 135 mph - ASCE 7-16

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
145	10	15607	9569	12006	0
145	12	18409	11483	14727	0
145	14	21200	13397	17459	0
145	16	23984	15311	20197	0
145	18	26764	17224	22940	0
145	20	29540	19138	25687	0
145	22	32313	21052	28436	0
145	24	35085	22966	31187	0
145	26	40173	25249	36017	0
145	28	43111	27191	38939	0
145	30	46049	29133	41863	0
145	32	48985	31075	44787	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
150	10	16146	9899	12420	0
150	12	19044	11879	15235	0
150	14	21931	13859	18061	0
150	16	24811	15838	20894	0
150	18	27686	17818	23731	0
150	20	30558	19798	26572	0
150	22	33428	21778	29416	0
150	24	36295	23758	32262	0
150	26	41558	26119	37259	0
150	28	44598	28129	40282	0
150	30	47637	30138	43306	0
150	32	50675	32147	46331	0