

HIGHER POWER HYDRAULIC DOORS  
UNFACTORED DOOR JAMB REACTIONS - 130 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	130	35.3	50	7.2	50	3.2	-5.9
	$24$ ft < $h \leq 32$ ft		37.5		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	2994	1980	2303	0
30	12	3532	2376	2825	0
30	14	4067	2772	3350	0
30	16	4601	3168	3875	0
30	18	5135	3564	4401	0
30	20	5667	3960	4928	0
30	22	6199	4356	5456	0
30	24	6731	4752	5983	0
30	26	7707	5224	6910	0
30	28	8271	5626	7471	0
30	30	8835	6028	8032	0
30	32	9398	6429	8593	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
32	10	3194	2112	2457	0
32	12	3767	2534	3014	0
32	14	4338	2957	3573	0
32	16	4908	3379	4133	0
32	18	5477	3801	4695	0
32	20	6045	4224	5257	0
32	22	6613	4646	5819	0
32	24	7180	5068	6382	0
32	26	8221	5572	7371	0
32	28	8823	6001	7969	0
32	30	9424	6429	8567	0
32	32	10025	6858	9165	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
34	10	3394	2244	2610	0
34	12	4003	2693	3202	0
34	14	4610	3141	3796	0
34	16	5215	3590	4392	0
34	18	5819	4039	4988	0
34	20	6423	4488	5585	0
34	22	7026	4936	6183	0
34	24	7629	5385	6781	0
34	26	8735	5920	7831	0
34	28	9374	6376	8467	0
34	30	10013	6831	9102	0
34	32	10651	7287	9738	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
36	10	3593	2376	2764	0
36	12	4238	2851	3391	0
36	14	4881	3326	4019	0
36	16	5522	3801	4650	0
36	18	6162	4276	5281	0
36	20	6801	4752	5914	0
36	22	7439	5227	6547	0
36	24	8077	5702	7180	0
36	26	9249	6269	8292	0
36	28	9925	6751	8965	0
36	30	10602	7233	9638	0
36	32	11278	7715	10311	0

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Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
38	10	3793	2508	2918	0
38	12	4474	3009	3579	0
38	14	5152	3511	4243	0
38	16	5829	4012	4908	0
38	18	6504	4514	5575	0
38	20	7179	5016	6242	0
38	22	7853	5517	6910	0
38	24	8526	6019	7579	0
38	26	9763	6617	8753	0
38	28	10477	7126	9463	0
38	30	11191	7635	10173	0
38	32	11904	8144	10884	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
40	10	3992	2640	3071	0
40	12	4709	3168	3767	0
40	14	5423	3696	4466	0
40	16	6135	4224	5167	0
40	18	6846	4752	5868	0
40	20	7556	5279	6571	0
40	22	8266	5807	7274	0
40	24	8975	6335	7978	0
40	26	10276	6965	9213	0
40	28	11028	7501	9961	0
40	30	11780	8037	10709	0
40	32	12531	8573	11457	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
42	10	4192	2772	3225	0
42	12	4945	3326	3956	0
42	14	5694	3880	4689	0
42	16	6442	4435	5425	0
42	18	7189	4989	6162	0
42	20	7934	5543	6899	0
42	22	8679	6098	7638	0
42	24	9424	6652	8377	0
42	26	10790	7313	9674	0
42	28	11580	7876	10459	0
42	30	12369	8439	11244	0
42	32	13157	9001	12030	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
44	10	4392	2904	3378	0
44	12	5180	3484	4144	0
44	14	5965	4065	4913	0
44	16	6749	4646	5683	0
44	18	7531	5227	6455	0
44	20	8312	5807	7228	0
44	22	9093	6388	8001	0
44	24	9872	6969	8776	0
44	26	11304	7662	10135	0
44	28	12131	8251	10957	0
44	30	12958	8840	11780	0
44	32	13784	9430	12602	0

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Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
46	10	4591	3036	3532	0
46	12	5415	3643	4332	0
46	14	6236	4250	5136	0
46	16	7056	4857	5942	0
46	18	7873	5464	6748	0
46	20	8690	6071	7556	0
46	22	9506	6679	8365	0
46	24	10321	7286	9174	0
46	26	111818	8010	10595	0
46	28	12682	8626	11455	0
46	30	13547	9242	12315	0
46	32	14410	9858	13175	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
48	10	4791	3168	3685	0
48	12	5651	3801	4521	0
48	14	6508	4435	5359	0
48	16	7362	5068	6200	0
48	18	8216	5702	7042	0
48	20	9068	6335	7885	0
48	22	9919	6969	8729	0
48	24	10770	7602	9573	0
48	26	12332	8358	11056	0
48	28	13234	9001	11953	0
48	30	14135	9644	12850	0
48	32	15037	10287	13748	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
50	10	4991	3300	3839	0
50	12	5886	3960	4709	0
50	14	6779	4620	5583	0
50	16	7669	5279	6458	0
50	18	8558	5939	7335	0
50	20	9446	6599	8214	0
50	22	10332	7259	9093	0
50	24	11219	7919	9972	0
50	26	12846	8706	11517	0
50	28	13785	9376	12451	0
50	30	14724	10046	13386	0
50	32	15663	10716	14321	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
52	10	5190	3432	3992	0
52	12	6122	4118	4897	0
52	14	7050	4804	5806	0
52	16	7976	5491	6716	0
52	18	8900	6177	7629	0
52	20	9823	6863	8542	0
52	22	10746	7550	9456	0
52	24	11667	8236	10371	0
52	26	13359	9055	11977	0
52	28	14337	9751	12949	0
52	30	15313	10448	13921	0
52	32	16290	11144	14894	0

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Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
54	10	5390	3564	4146	0
54	12	6357	4276	5086	0
54	14	7321	4989	6029	0
54	16	8283	5702	6975	0
54	18	9242	6415	7922	0
54	20	10201	7127	8871	0
54	22	11159	7840	9820	0
54	24	12116	8553	10770	0
54	26	13873	9403	12438	0
54	28	14888	10126	13447	0
54	30	15902	10850	14457	0
54	32	16917	11573	15467	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
56	10	5589	3696	4300	0
56	12	6593	4435	5274	0
56	14	7592	5174	6252	0
56	16	8589	5913	7233	0
56	18	9585	6652	8216	0
56	20	10579	7391	9199	0
56	22	11572	8130	10184	0
56	24	12565	8870	11169	0
56	26	14387	9751	12899	0
56	28	15439	10501	13945	0
56	30	16491	11251	14992	0
56	32	17543	12002	16039	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
58	10	5789	3828	4453	0
58	12	6828	4593	5463	0
58	14	7863	5359	6476	0
58	16	8896	6124	7491	0
58	18	9927	6890	8509	0
58	20	10957	7655	9528	0
58	22	11986	8421	10547	0
58	24	13014	9186	11568	0
58	26	14901	10099	13359	0
58	28	15991	10876	14443	0
58	30	17080	11653	15528	0
58	32	18170	12430	16612	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
60	10	5989	3960	4607	0
60	12	7064	4752	5651	0
60	14	8135	5543	6699	0
60	16	9203	6335	7750	0
60	18	10269	7127	8802	0
60	20	11335	7919	9856	0
60	22	12399	8711	10911	0
60	24	13462	9503	11967	0
60	26	15415	10448	13820	0
60	28	16542	11251	14941	0
60	30	17669	12055	16063	0
60	32	18796	12859	17185	0

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Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
62	10	6188	4092	4760	0
62	12	7299	4910	5839	0
62	14	8406	5728	6922	0
62	16	9510	6547	8008	0
62	18	10612	7365	9096	0
62	20	11712	8183	10185	0
62	22	12812	9002	11275	0
62	24	13911	9820	12366	0
62	26	15929	10796	14281	0
62	28	17094	11626	15439	0
62	30	18258	12457	16598	0
62	32	19423	13287	17758	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
64	10	6388	4224	4914	0
64	12	7535	5068	6028	0
64	14	8677	5913	7146	0
64	16	9816	6758	8266	0
64	18	10954	7602	9389	0
64	20	12090	8447	10513	0
64	22	13226	9292	11638	0
64	24	14360	10137	12764	0
64	26	16442	11144	14741	0
64	28	17645	12002	15937	0
64	30	18847	12859	17134	0
64	32	20049	13716	18331	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
66	10	6588	4356	5067	0
66	12	7770	5227	6216	0
66	14	8948	6098	7369	0
66	16	10123	6969	8525	0
66	18	11296	7840	9683	0
66	20	12468	8711	10842	0
66	22	13639	9582	12002	0
66	24	14809	10453	13163	0
66	26	16956	11493	15202	0
66	28	18196	12377	16436	0
66	30	19436	13261	17669	0
66	32	20676	14145	18904	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
68	10	6787	4488	5221	0
68	12	8005	5385	6404	0
68	14	9219	6283	7592	0
68	16	10430	7180	8783	0
68	18	11639	8078	9976	0
68	20	12846	8975	11170	0
68	22	14052	9873	12366	0
68	24	15257	10770	13562	0
68	26	17470	11841	15663	0
68	28	18748	12752	16934	0
68	30	20025	13662	18205	0
68	32	21302	14573	19476	0

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Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
70	10	6987	4620	5374	0
70	12	8241	5543	6593	0
70	14	9490	6467	7816	0
70	16	10737	7391	9041	0
70	18	11981	8315	10269	0
70	20	13224	9239	11499	0
70	22	14465	10163	12730	0
70	24	15706	11087	13961	0
70	26	17984	12189	16123	0
70	28	19299	13127	17432	0
70	30	20614	14064	18740	0
70	32	21929	15002	20049	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
72	10	7186	4752	5528	0
72	12	8476	5702	6781	0
72	14	9761	6652	8039	0
72	16	11043	7602	9300	0
72	18	12323	8553	10563	0
72	20	13602	9503	11827	0
72	22	14879	10453	13093	0
72	24	16155	11404	14360	0
72	26	18498	12537	16584	0
72	28	19851	13502	17930	0
72	30	21203	14466	19276	0
72	32	22555	15431	20622	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
74	10	7386	4884	5682	0
74	12	8712	5860	6969	0
74	14	10033	6837	8262	0
74	16	11350	7814	9558	0
74	18	12666	8790	10856	0
74	20	13979	9767	12156	0
74	22	15292	10744	13457	0
74	24	16604	11720	14759	0
74	26	17984	12886	17045	0
74	28	19299	13877	18428	0
74	30	20614	14868	19811	0
74	32	21929	15859	21195	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
76	10	7586	5016	5835	0
76	12	8947	6019	7158	0
76	14	10304	7022	8485	0
76	16	11657	8025	9816	0
76	18	13008	9028	11150	0
76	20	14357	10031	12485	0
76	22	15705	11034	13821	0
76	24	17052	12037	15158	0
76	26	19525	13234	17505	0
76	28	20953	14252	18926	0
76	30	22381	15270	20347	0
76	32	23808	16288	21768	0

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Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
78	10	7785	5148	5989	0
78	12	9183	6177	7346	0
78	14	10575	7207	8709	0
78	16	11964	8236	10075	0
78	18	13350	9266	11443	0
78	20	14735	10295	12813	0
78	22	16119	11325	14184	0
78	24	17501	12354	15557	0
78	26	20039	13582	17966	0
78	28	21505	14627	19424	0
78	30	22970	15672	20882	0
78	32	24435	16716	22341	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
80	10	7985	5279	6142	0
80	12	9418	6335	7535	0
80	14	10846	7391	8932	0
80	16	12271	8447	10333	0
80	18	13693	9503	11736	0
80	20	15113	10559	13142	0
80	22	16532	11615	14548	0
80	24	17950	12671	15955	0
80	26	20553	13930	18427	0
80	28	22056	15002	19922	0
80	30	23559	16073	21417	0
80	32	25062	17145	22913	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
82	10	8185	5411	6296	0
82	12	9654	6494	7723	0
82	14	11117	7576	9155	0
82	16	12577	8658	10591	0
82	18	14035	9741	12030	0
82	20	15491	10823	13470	0
82	22	16945	11905	14912	0
82	24	18399	12988	16354	0
82	26	21067	14279	18887	0
82	28	22608	15377	20420	0
82	30	24148	16475	21953	0
82	32	25688	17574	23486	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
84	10	8384	5543	6449	0
84	12	9889	6652	7911	0
84	14	11388	7761	9379	0
84	16	12884	8870	10850	0
84	18	14377	9978	12323	0
84	20	15869	11087	13799	0
84	22	17358	12196	15275	0
84	24	18847	13304	16753	0
84	26	21581	14627	19348	0
84	28	23159	15752	20918	0
84	30	24737	16877	22488	0
84	32	26315	18002	24059	0



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Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
86	10	8584	5675	6603	0
86	12	10125	6811	8100	0
86	14	11660	7946	9602	0
86	16	13191	9081	11108	0
86	18	14720	10216	12617	0
86	20	16246	11351	14127	0
86	22	17772	12486	15639	0
86	24	19296	13621	17152	0
86	26	22094	14975	19809	0
86	28	23711	16127	21416	0
86	30	25326	17279	23024	0
86	32	26941	18431	24632	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
88	10	8783	5807	6757	0
88	12	10360	6969	8288	0
88	14	11931	8130	9825	0
88	16	13498	9292	11366	0
88	18	15062	10453	12910	0
88	20	16624	11615	14456	0
88	22	18185	12776	16003	0
88	24	19745	13938	17551	0
88	26	22608	15323	20269	0
88	28	24262	16502	21914	0
88	30	25915	17681	23559	0
88	32	27568	18860	25205	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
90	10	8983	5939	6910	0
90	12	10595	7127	8476	0
90	14	12202	8315	10049	0
90	16	13804	9503	11625	0
90	18	15404	10691	13204	0
90	20	17002	11879	14784	0
90	22	18598	13067	16367	0
90	24	20194	14255	17950	0
90	26	23122	15672	20730	0
90	28	24813	16877	22412	0
90	30	26504	18083	24095	0
90	32	28194	19288	25778	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
92	10	9183	6071	7064	0
92	12	10831	7286	8665	0
92	14	12473	8500	10272	0
92	16	14111	9714	11883	0
92	18	15746	10929	13497	0
92	20	17380	12143	15113	0
92	22	19012	13357	16730	0
92	24	20642	14571	18349	0
92	26	23636	16020	21191	0
92	28	25365	17252	22910	0
92	30	27093	18484	24630	0
92	32	28821	19717	26350	0

HIGHER POWER HYDRAULIC DOORS  
UNFACTORED DOOR JAMB REACTIONS - 130 mph - ASCE 7-16

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
94	10	9382	6203	7217	0
94	12	11066	7444	8853	0
94	14	12744	8685	10495	0
94	16	14418	9925	12141	0
94	18	16089	11166	13790	0
94	20	17758	12407	15441	0
94	22	19425	13647	17094	0
94	24	21091	14888	18748	0
94	26	24150	16368	21651	0
94	28	25916	17627	23408	0
94	30	27682	18886	25165	0
94	32	29447	20145	26923	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
96	10	9582	6335	7371	0
96	12	11302	7602	9041	0
96	14	13015	8870	10718	0
96	16	14725	10137	12400	0
96	18	16431	11404	14084	0
96	20	18135	12671	15770	0
96	22	19838	13938	17458	0
96	24	21540	15205	19147	0
96	26	24664	16716	22112	0
96	28	26468	18002	23906	0
96	30	28271	19288	25701	0
96	32	30074	20574	27496	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
98	10	9782	6467	7524	0
98	12	11537	7761	9230	0
98	14	13286	9054	10942	0
98	16	15031	10348	12658	0
98	18	16773	11641	14377	0
98	20	18513	12935	16098	0
98	22	20252	14228	17821	0
98	24	21989	15522	19545	0
98	26	25177	17065	22573	0
98	28	27019	18377	24404	0
98	30	28860	19690	26236	0
98	32	30700	21003	28069	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
100	10	9981	6599	7678	0
100	12	11773	7919	9418	0
100	14	13558	9239	11165	0
100	16	15338	10559	12916	0
100	18	17116	11879	14671	0
100	20	18891	13199	16427	0
100	22	20665	14519	18185	0
100	24	22437	15838	19944	0
100	26	25691	17413	23033	0
100	28	27570	18752	24902	0
100	30	29449	20092	26772	0
100	32	31327	21431	28642	0

HIGHER POWER HYDRAULIC DOORS  
UNFACTORED DOOR JAMB REACTIONS - 130 mph - ASCE 7-16

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
105	10	10480	6929	8062	0
105	12	12361	8315	9889	0
105	14	14235	9701	11723	0
105	16	16105	11087	13562	0
105	18	17971	12473	15404	0
105	20	19836	13859	17248	0
105	22	21698	15245	19094	0
105	24	23559	16630	20942	0
105	26	26976	18284	24185	0
105	28	28949	19690	26147	0
105	30	30921	21096	28110	0
105	32	32893	22503	30074	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
110	10	10979	7259	8446	0
110	12	12950	8711	10360	0
110	14	14913	10163	12282	0
110	16	16872	11615	14208	0
110	18	18827	13067	16138	0
110	20	20780	14519	18070	0
110	22	22731	15970	20004	0
110	24	24681	17422	21939	0
110	26	28260	19154	25337	0
110	28	30327	20628	27393	0
110	30	32394	22101	29449	0
110	32	34460	23574	31506	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
115	10	11478	7589	8830	0
115	12	13539	9107	10831	0
115	14	15591	10625	12840	0
115	16	17639	12143	14854	0
115	18	19683	13661	16871	0
115	20	21725	15179	18891	0
115	22	23765	16696	20913	0
115	24	25803	18214	22936	0
115	26	29545	20025	26488	0
115	28	31706	21565	28638	0
115	30	33866	23106	30788	0
115	32	36026	24646	32938	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
120	10	11977	7919	9213	0
120	12	14127	9503	11302	0
120	14	16269	11087	13398	0
120	16	18406	12671	15500	0
120	18	20539	14255	17605	0
120	20	22669	15838	19712	0
120	22	24798	17422	21822	0
120	24	26925	19006	23933	0
120	26	30829	20896	27640	0
120	28	33084	22503	29883	0
120	30	35339	24110	32126	0
120	32	37592	25718	34370	0

HIGHER POWER HYDRAULIC DOORS  
UNFACTORED DOOR JAMB REACTIONS - 130 mph - ASCE 7-16

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
125	10	12477	8249	9597	0
125	12	14716	9899	11773	0
125	14	16947	11549	13956	0
125	16	19173	13199	16145	0
125	18	21395	14849	18338	0
125	20	23614	16498	20534	0
125	22	25831	18148	22731	0
125	24	28047	19798	24930	0
125	26	32114	21766	28792	0
125	28	34463	23440	31128	0
125	30	36811	25115	33465	0
125	32	39159	26789	35802	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
130	10	12976	8579	9981	0
130	12	15305	10295	12244	0
130	14	17625	12011	14515	0
130	16	19940	13727	16791	0
130	18	22250	15443	19072	0
130	20	24558	17158	21355	0
130	22	26864	18874	23641	0
130	24	29169	20590	25928	0
130	26	33399	22637	29943	0
130	28	35841	24378	32373	0
130	30	38284	26119	34803	0
130	32	40725	27861	37234	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
135	10	13475	8909	10365	0
135	12	15893	10691	12715	0
135	14	18303	12473	15073	0
135	16	20707	14255	17437	0
135	18	23106	16036	19805	0
135	20	25503	17818	22177	0
135	22	27898	19600	24550	0
135	24	30290	21382	26925	0
135	26	34683	23507	31095	0
135	28	37220	25316	33618	0
135	30	39756	27124	36142	0
135	32	42291	28932	38666	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
140	10	13974	9239	10749	0
140	12	16482	11087	13185	0
140	14	18981	12935	15631	0
140	16	21473	14783	18083	0
140	18	23962	16630	20539	0
140	20	26448	18478	22998	0
140	22	28931	20326	25459	0
140	24	31412	22174	27922	0
140	26	35968	24378	32247	0
140	28	38599	26253	34863	0
140	30	41229	28129	37480	0
140	32	43858	30004	40099	0

HIGHER POWER HYDRAULIC DOORS  
UNFACTORED DOOR JAMB REACTIONS - 130 mph - ASCE 7-16

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
145	10	14473	9569	11133	0
145	12	17070	11483	13656	0
145	14	19659	13397	16189	0
145	16	22240	15311	18729	0
145	18	24818	17224	21272	0
145	20	27392	19138	23819	0
145	22	29964	21052	26368	0
145	24	32534	22966	28919	0
145	26	37252	25249	33399	0
145	28	39977	27191	36108	0
145	30	42701	29133	38819	0
145	32	45424	31075	41531	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
150	10	14972	9899	11517	0
150	12	17659	11879	14127	0
150	14	20336	13859	16748	0
150	16	23007	15838	19375	0
150	18	25674	17818	22006	0
150	20	28337	19798	24641	0
150	22	30997	21778	27278	0
150	24	33656	23758	29917	0
150	26	38537	26119	34550	0
150	28	41356	28129	37353	0
150	30	44173	30138	40158	0
150	32	46990	32147	42963	0