

HIGHER POWER HYDRAULIC DOORS
UNFACTORED DOOR JAMB REACTIONS - 140 mph - ASCE 7-22 / IBC-24

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
12.5	$h \leq 24$ 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 7-22.

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 7-22, 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 7-22, Section 30.1.2.

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	2355	2671	0
30	12	4096	2826	3277	0
30	14	4717	3297	3885	0
30	16	5337	3768	4494	0
30	18	5955	4239	5104	0
30	20	6573	4710	5715	0
30	22	7190	5181	6327	0
30	24	7807	5652	6939	0
30	26	8939	6199	8014	0
30	28	9593	6676	8664	0
30	30	10246	7153	9315	0
30	32	10900	7629	9965	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
32	10	3704	2512	2849	0
32	12	4369	3014	3495	0
32	14	5032	3517	4144	0
32	16	5692	4019	4794	0
32	18	6352	4521	5445	0
32	20	7011	5024	6096	0
32	22	7669	5526	6749	0
32	24	8327	6028	7402	0
32	26	9535	6612	8548	0
32	28	10232	7121	9242	0
32	30	10929	7629	9936	0
32	32	11626	8138	10630	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
34	10	3936	2669	3028	0
34	12	4642	3203	3714	0
34	14	5346	3736	4403	0
34	16	6048	4270	5093	0
34	18	6749	4804	5785	0
34	20	7449	5338	6478	0
34	22	8149	5871	7171	0
34	24	8848	6405	7864	0
34	26	10131	7025	9083	0
34	28	10872	7566	9819	0
34	30	11612	8106	10557	0
34	32	12353	8647	11294	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
36	10	4167	2826	3206	0
36	12	4915	3391	3932	0
36	14	5661	3956	4662	0
36	16	6404	4521	5393	0
36	18	7146	5086	6125	0
36	20	7887	5652	6859	0
36	22	8628	6217	7593	0
36	24	9368	6782	8327	0
36	26	10726	7439	9617	0
36	28	11511	8011	10397	0
36	30	12295	8583	11178	0
36	32	13079	9155	11958	0

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Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
38	10	4399	2983	3384	0
38	12	5188	3579	4151	0
38	14	5975	4176	4921	0
38	16	6760	4772	5692	0
38	18	7543	5369	6465	0
38	20	8325	5966	7240	0
38	22	9107	6562	8014	0
38	24	9888	7159	8790	0
38	26	11322	7852	10151	0
38	28	12151	8456	10975	0
38	30	12978	9060	11799	0
38	32	13806	9664	12623	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
40	10	4630	3140	3562	0
40	12	5461	3768	4369	0
40	14	6289	4396	5180	0
40	16	7115	5024	5992	0
40	18	7940	5652	6806	0
40	20	8764	6279	7621	0
40	22	9587	6907	8436	0
40	24	10409	7535	9252	0
40	26	11918	8265	10685	0
40	28	12790	8901	11552	0
40	30	13662	9537	12420	0
40	32	14533	10173	13287	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
42	10	4862	3297	3740	0
42	12	5734	3956	4588	0
42	14	6604	4615	5439	0
42	16	7471	5275	6292	0
42	18	8337	5934	7146	0
42	20	9202	6593	8002	0
42	22	10066	7253	8858	0
42	24	10929	7912	9715	0
42	26	12514	8678	11220	0
42	28	13430	9346	12130	0
42	30	14345	10014	13041	0
42	32	15259	10681	13951	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
44	10	5093	3454	3918	0
44	12	6008	4144	4806	0
44	14	6918	4835	5697	0
44	16	7827	5526	6591	0
44	18	8734	6217	7486	0
44	20	9640	6907	8383	0
44	22	10545	7598	9280	0
44	24	11450	8289	10178	0
44	26	13110	9092	11754	0
44	28	14069	9791	12708	0
44	30	15028	10490	13662	0
44	32	15986	11190	14616	0

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Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
46	10	5325	3611	4096	0
46	12	6281	4333	5025	0
46	14	7233	5055	5956	0
46	16	8183	5777	6891	0
46	18	9131	6499	7827	0
46	20	10078	7221	8764	0
46	22	11025	7944	9702	0
46	24	11970	8666	10640	0
46	26	13706	9505	12288	0
46	28	14709	10236	13285	0
46	30	15711	10967	14282	0
46	32	16713	11698	15280	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
48	10	5556	3768	4274	0
48	12	6554	4521	5243	0
48	14	7547	5275	6215	0
48	16	8539	6028	7190	0
48	18	9528	6782	8167	0
48	20	10516	7535	9145	0
48	22	11504	8289	10123	0
48	24	12491	9042	11103	0
48	26	14302	9918	12822	0
48	28	15348	10681	13863	0
48	30	16394	11444	14903	0
48	32	17439	12207	15944	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
50	10	5788	3925	4452	0
50	12	6827	4710	5461	0
50	14	7862	5495	6474	0
50	16	8894	6279	7490	0
50	18	9925	7064	8507	0
50	20	10955	7849	9526	0
50	22	11983	8634	10545	0
50	24	13011	9419	11565	0
50	26	14898	10331	13357	0
50	28	15988	11126	14440	0
50	30	17077	11921	15524	0
50	32	18166	12716	16609	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
52	10	6019	4082	4630	0
52	12	7100	4898	5680	0
52	14	8176	5714	6733	0
52	16	9250	6531	7790	0
52	18	10322	7347	8848	0
52	20	11393	8163	9907	0
52	22	12463	8980	10967	0
52	24	13531	9796	12028	0
52	26	15494	10745	13891	0
52	28	16627	11571	15018	0
52	30	17760	12398	16145	0
52	32	18893	13224	17273	0

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Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
54	10	6251	4239	4808	0
54	12	7373	5086	5898	0
54	14	8491	5934	6992	0
54	16	9606	6782	8089	0
54	18	10719	7630	9188	0
54	20	11831	8477	10288	0
54	22	12942	9325	11389	0
54	24	14052	10173	12491	0
54	26	16090	11158	14425	0
54	28	17267	12016	15596	0
54	30	18443	12875	16766	0
54	32	19619	13733	17938	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
56	10	6482	4396	4987	0
56	12	7646	5275	6117	0
56	14	8805	6154	7251	0
56	16	9962	7033	8389	0
56	18	11116	7912	9528	0
56	20	12269	8791	10669	0
56	22	13421	9670	11811	0
56	24	14572	10550	12953	0
56	26	16686	11571	14959	0
56	28	17906	12461	16173	0
56	30	19126	13351	17387	0
56	32	20346	14242	18602	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
58	10	6714	4553	5165	0
58	12	7919	5463	6335	0
58	14	9120	6374	7510	0
58	16	10317	7284	8688	0
58	18	11513	8195	9868	0
58	20	12707	9105	11050	0
58	22	13900	10016	12232	0
58	24	15093	10926	13416	0
58	26	17281	11984	15494	0
58	28	18546	12906	16751	0
58	30	19809	13828	18008	0
58	32	21072	14750	19266	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
60	10	6946	4710	5343	0
60	12	8192	5652	6554	0
60	14	9434	6593	7769	0
60	16	10673	7535	8988	0
60	18	11910	8477	10209	0
60	20	13146	9419	11431	0
60	22	14380	10361	12654	0
60	24	15613	11303	13878	0
60	26	17877	12398	16028	0
60	28	19185	13351	17328	0
60	30	20492	14305	18629	0
60	32	21799	15259	19931	0

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Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
62	10	7177	4867	5521	0
62	12	8465	5840	6772	0
62	14	9749	6813	8028	0
62	16	11029	7787	9288	0
62	18	12307	8760	10549	0
62	20	13584	9733	11812	0
62	22	14859	10707	13076	0
62	24	16134	11680	14341	0
62	26	18473	12811	16562	0
62	28	19825	13796	17906	0
62	30	21175	14782	19250	0
62	32	22526	15767	20595	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
64	10	7409	5024	5699	0
64	12	8738	6028	6991	0
64	14	10063	7033	8287	0
64	16	11385	8038	9587	0
64	18	12704	9042	10889	0
64	20	14022	10047	12193	0
64	22	15338	11052	13498	0
64	24	16654	12057	14804	0
64	26	19069	13224	17097	0
64	28	20464	14242	18484	0
64	30	21858	15259	19871	0
64	32	23252	18324	21259	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
66	10	7640	5181	5877	0
66	12	9011	6217	7209	0
66	14	10378	7253	8546	0
66	16	11741	8289	9887	0
66	18	13101	9325	11230	0
66	20	14460	10361	12574	0
66	22	15818	11397	13920	0
66	24	17175	12433	15266	0
66	26	19665	13638	17631	0
66	28	21104	14687	19061	0
66	30	22542	15736	20492	0
66	32	23979	18897	21924	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
68	10	7872	5338	6055	0
68	12	9284	6405	7428	0
68	14	10692	7473	8805	0
68	16	12096	8540	10186	0
68	18	13498	9608	11570	0
68	20	14898	10675	12955	0
68	22	16297	11743	14341	0
68	24	17695	12810	15729	0
68	26	20261	14051	18165	0
68	28	21743	15132	19639	0
68	30	23225	18252	21113	0
68	32	24706	19469	22588	0

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Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
70	10	8103	5495	6233	0
70	12	9557	6593	7646	0
70	14	11007	7692	9064	0
70	16	12452	8791	10486	0
70	18	13895	9890	11910	0
70	20	15336	10989	13336	0
70	22	16776	12088	14763	0
70	24	18215	13187	16192	0
70	26	20857	14464	18699	0
70	28	22383	15577	20217	0
70	30	23908	18789	21734	0
70	32	25432	20042	23252	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
72	10	8335	5652	6411	0
72	12	9831	6782	7864	0
72	14	11321	7912	9323	0
72	16	12808	9042	10786	0
72	18	14292	10173	12250	0
72	20	15775	11303	13717	0
72	22	17256	12433	15185	0
72	24	18736	13564	16654	0
72	26	21453	14877	19234	0
72	28	23022	18038	20794	0
72	30	24591	19326	22355	0
72	32	26159	20615	23917	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
74	10	8566	5809	6589	0
74	12	10104	6970	8083	0
74	14	11635	8132	9582	0
74	16	13164	9294	11085	0
74	18	14689	10455	12591	0
74	20	16213	11617	14098	0
74	22	17735	12779	15607	0
74	24	19256	13940	17117	0
74	26	20857	15291	19768	0
74	28	22383	18539	21372	0
74	30	23908	19863	22976	0
74	32	25432	21187	24581	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
76	10	8798	5966	6767	0
76	12	10377	7159	8301	0
76	14	11950	8352	9841	0
76	16	13519	9545	11385	0
76	18	15086	10738	12931	0
76	20	16651	11931	14479	0
76	22	18214	13124	16029	0
76	24	19777	14317	17579	0
76	26	22645	15704	20302	0
76	28	24301	19040	21949	0
76	30	25957	20400	23597	0
76	32	27612	21760	25245	0

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Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
78	10	9029	6123	6946	0
78	12	10650	7347	8520	0
78	14	12264	8572	10100	0
78	16	13875	9796	11684	0
78	18	15483	11021	13271	0
78	20	17089	12245	14860	0
78	22	18694	13470	16451	0
78	24	20297	14694	18042	0
78	26	23241	18145	20836	0
78	28	24941	19541	22527	0
78	30	26640	20937	24218	0
78	32	28339	22332	25910	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
80	10	9261	6279	7124	0
80	12	10923	7535	8738	0
80	14	12579	8791	10359	0
80	16	14231	10047	11984	0
80	18	15880	11303	13612	0
80	20	17527	12559	15241	0
80	22	19173	13815	16872	0
80	24	20818	15071	18505	0
80	26	23837	18610	21371	0
80	28	25580	20042	23105	0
80	30	27323	21473	24839	0
80	32	29065	25465	26574	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
82	10	9492	6436	7302	0
82	12	11196	7724	8957	0
82	14	12893	9011	10618	0
82	16	14587	10298	12284	0
82	18	16277	11586	13952	0
82	20	17966	12873	15622	0
82	22	19652	14160	17294	0
82	24	21338	15448	18967	0
82	26	24432	19076	21905	0
82	28	26220	20543	23682	0
82	30	28006	22010	25460	0
82	32	29792	26102	27239	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
84	10	9724	6593	7480	0
84	12	11469	7912	9175	0
84	14	13208	9231	10877	0
84	16	14942	10550	12583	0
84	18	16674	11868	14292	0
84	20	18404	13187	16003	0
84	22	20132	14506	17716	0
84	24	21859	17840	19430	0
84	26	25028	19541	22439	0
84	28	26859	21044	24260	0
84	30	28689	25067	26081	0
84	32	30519	26738	27903	0

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Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
86	10	9955	6750	7658	0
86	12	11742	8101	9394	0
86	14	13522	9451	11136	0
86	16	15298	10801	12883	0
86	18	17071	12151	14632	0
86	20	18842	13501	16384	0
86	22	20611	14851	18138	0
86	24	22379	18265	19892	0
86	26	25624	20006	22973	0
86	28	27499	21545	24837	0
86	30	29372	25664	26702	0
86	32	31245	27375	28567	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
88	10	10187	6907	7836	0
88	12	12015	8289	9612	0
88	14	13837	9670	11395	0
88	16	15654	11052	13182	0
88	18	17468	12433	14973	0
88	20	19280	13815	16765	0
88	22	21090	15196	18560	0
88	24	22899	18690	20355	0
88	26	26220	20471	23508	0
88	28	28138	22046	25415	0
88	30	30055	26261	27323	0
88	32	31972	28012	29232	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
90	10	10418	7064	8014	0
90	12	12288	8477	9831	0
90	14	14151	9890	11654	0
90	16	16010	11303	13482	0
90	18	17865	12716	15313	0
90	20	19718	14129	17146	0
90	22	21570	15542	18981	0
90	24	23420	19115	20818	0
90	26	26816	20937	24042	0
90	28	28778	25067	25993	0
90	30	30738	26858	27944	0
90	32	32699	28648	29896	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
92	10	10650	7221	8192	0
92	12	12561	8666	10049	0
92	14	14466	10110	11913	0
92	16	16366	11554	13782	0
92	18	18262	12999	15653	0
92	20	20156	14443	17527	0
92	22	22049	17911	19403	0
92	24	23940	19539	21280	0
92	26	27412	21402	24576	0
92	28	29417	25624	26570	0
92	30	31421	27454	28565	0
92	32	33425	29285	30560	0

HIGHER POWER HYDRAULIC DOORS
UNFACTORED DOOR JAMB REACTIONS - 140 mph - ASCE 7-22 / IBC-24

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
94	10	10881	7378	8370	0
94	12	12834	8854	10267	0
94	14	14780	10330	12172	0
94	16	16721	11805	14081	0
94	18	18659	13281	15994	0
94	20	20595	14757	17908	0
94	22	22528	18300	19825	0
94	24	24461	19964	21743	0
94	26	28008	21867	25111	0
94	28	30057	26181	27148	0
94	30	32105	28051	29186	0
94	32	34152	32929	31225	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
96	10	11113	7535	8548	0
96	12	13107	9042	10486	0
96	14	15095	10550	12431	0
96	16	17077	12057	14381	0
96	18	19056	13564	16334	0
96	20	21033	15071	18289	0
96	22	23008	18690	20247	0
96	24	24981	20389	22206	0
96	26	28604	22332	25645	0
96	28	30696	26738	27726	0
96	30	32788	28648	29807	0
96	32	34879	33630	31889	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
98	10	11344	7692	8726	0
98	12	13380	9231	10704	0
98	14	15409	10769	12690	0
98	16	17433	12308	14680	0
98	18	19453	13846	16674	0
98	20	21471	15385	18670	0
98	22	23487	19079	20669	0
98	24	25502	20814	22668	0
98	26	29200	25346	26179	0
98	28	31336	27295	28303	0
98	30	33471	29245	30428	0
98	32	35605	34331	32553	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
100	10	11576	7849	8904	0
100	12	13654	9419	10923	0
100	14	15724	10989	12949	0
100	16	17789	12559	14980	0
100	18	19850	14129	17014	0
100	20	21909	15699	19051	0
100	22	23966	19469	21090	0
100	24	26022	21238	23131	0
100	26	29796	25863	26713	0
100	28	31975	27852	28881	0
100	30	34154	32842	31049	0
100	32	36332	35031	33218	0

HIGHER POWER HYDRAULIC DOORS
UNFACTORED DOOR JAMB REACTIONS - 140 mph - ASCE 7-22 / IBC-24

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
105	10	12155	8242	9350	0
105	12	14336	9890	11469	0
105	14	16510	11539	13596	0
105	16	18678	13187	15729	0
105	18	20843	14835	17865	0
105	20	23005	18584	20004	0
105	22	25165	20442	22145	0
105	24	27323	24820	24287	0
105	26	31285	27156	28049	0
105	28	33574	29245	30325	0
105	30	35861	34484	32601	0
105	32	38148	36783	34879	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
110	10	12733	8634	9795	0
110	12	15019	10361	12015	0
110	14	17296	12088	14244	0
110	16	19568	13815	16478	0
110	18	21835	15542	18716	0
110	20	24100	19469	20957	0
110	22	26363	21415	23199	0
110	24	28624	26002	25444	0
110	26	32775	28449	29385	0
110	28	35173	33718	31769	0
110	30	37569	36126	34154	0
110	32	39965	42054	36539	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
115	10	13312	9027	10240	0
115	12	15702	10832	12561	0
115	14	18082	12637	14891	0
115	16	20457	14443	17227	0
115	18	22828	18318	19567	0
115	20	25196	20354	21909	0
115	22	27561	24919	24254	0
115	24	29925	27184	26600	0
115	26	34265	29742	30720	0
115	28	36771	35250	33213	0
115	30	39277	37768	35706	0
115	32	41782	43966	38200	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
120	10	13891	9419	10685	0
120	12	16384	11303	13107	0
120	14	18868	13187	15539	0
120	16	21346	15071	17976	0
120	18	23820	19115	20417	0
120	20	26291	21238	22862	0
120	22	28760	26002	25308	0
120	24	31226	28366	27757	0
120	26	35755	34156	32056	0
120	28	38370	36783	34657	0
120	30	40985	43010	37259	0
120	32	43598	45878	39861	0

HIGHER POWER HYDRAULIC DOORS
UNFACTORED DOOR JAMB REACTIONS - 140 mph - ASCE 7-22 / IBC-24

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
125	10	14470	9812	11131	0
125	12	17067	11774	13654	0
125	14	19655	13736	16186	0
125	16	22236	15699	18725	0
125	18	24813	19911	21268	0
125	20	27386	24623	23814	0
125	22	29958	27086	26363	0
125	24	32528	32548	28913	0
125	26	37245	35579	33392	0
125	28	39969	41815	36101	0
125	30	42692	44802	38811	0
125	32	45415	51789	41522	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
130	10	15049	10204	11576	0
130	12	17750	12245	14200	0
130	14	20441	14286	16834	0
130	16	23125	18407	19474	0
130	18	25805	20708	22119	0
130	20	28482	25608	24767	0
130	22	31156	28169	27418	0
130	24	33829	33850	30070	0
130	26	38734	37002	34727	0
130	28	41568	43488	37545	0
130	30	44400	46594	40364	0
130	32	47231	53861	43183	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
135	10	15627	10597	12021	0
135	12	18432	12716	14746	0
135	14	21227	14835	17481	0
135	16	24015	19115	20223	0
135	18	26798	21504	22969	0
135	20	29577	26593	25719	0
135	22	32355	29253	28472	0
135	24	35130	35152	31226	0
135	26	40224	41935	36063	0
135	28	43166	45161	38989	0
135	30	46108	52436	41916	0
135	32	49048	55932	44844	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
140	10	16206	10989	12466	0
140	12	19115	13187	15292	0
140	14	22013	15385	18128	0
140	16	24904	19823	20972	0
140	18	27790	24820	23820	0
140	20	30673	27578	26672	0
140	22	33553	33416	29527	0
140	24	36431	36454	32383	0
140	26	41714	43488	37399	0
140	28	44765	46833	40433	0
140	30	47815	54379	43468	0
140	32	50865	58004	46505	0

HIGHER POWER HYDRAULIC DOORS
UNFACTORED DOOR JAMB REACTIONS - 140 mph - ASCE 7-22 / IBC-24

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
145	10	16785	11382	12912	0
145	12	19798	13658	15838	0
145	14	22799	17964	18776	0
145	16	25794	20531	21721	0
145	18	28783	25707	24671	0
145	20	31768	28563	27625	0
145	22	34751	34609	30581	0
145	24	37732	37756	33540	0
145	26	43204	45041	38734	0
145	28	46364	52566	41877	0
145	30	49523	56321	45021	0
145	32	52681	64715	48166	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
150	10	17364	11774	13357	0
150	12	20480	14129	16384	0
150	14	23585	18584	19423	0
150	16	26683	21238	22470	0
150	18	29775	26593	25522	0
150	20	32864	32548	28577	0
150	22	35950	35803	31636	0
150	24	39033	42658	34696	0
150	26	44693	46594	40070	0
150	28	47963	54379	43321	0
150	30	51231	62763	46573	0
150	32	54498	66947	49827	0