

HIGHER POWER HYDRAULIC DOORS  
UNFACTORED DOOR JAMB REACTIONS - 160 mph - ASCE 7-22 / IBC-24

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
14.5	$h \leq 24$ ft	160	53.5	50	7.2	50	3.2	-5.9
	$24$ ft < $h \leq 32$ ft		56.8		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	4536	2655	3489	0
30	12	5350	3186	4280	0
30	14	6161	3717	5074	0
30	16	6970	4248	5870	0
30	18	7778	4779	6667	0
30	20	8585	5310	7465	0
30	22	9391	5841	8264	0
30	24	10196	6372	9063	0
30	26	11675	6979	10467	0
30	28	12529	7516	11317	0
30	30	13383	8053	12166	0
30	32	14236	8589	13016	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
32	10	4838	2832	3722	0
32	12	5707	3398	4565	0
32	14	6572	3965	5412	0
32	16	7435	4531	6261	0
32	18	8297	5097	7111	0
32	20	9157	5664	7963	0
32	22	10017	6230	8815	0
32	24	10876	6796	9668	0
32	26	12453	7444	11165	0
32	28	13364	8017	12071	0
32	30	14275	8589	12977	0
32	32	15185	9162	13884	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
34	10	5141	3009	3954	0
34	12	6063	3611	4851	0
34	14	6983	4212	5750	0
34	16	7900	4814	6652	0
34	18	8815	5416	7556	0
34	20	9729	6018	8460	0
34	22	10643	6619	9366	0
34	24	11556	7221	10272	0
34	26	13232	7909	11863	0
34	28	14200	8518	12825	0
34	30	15167	9126	13788	0
34	32	16134	9735	14751	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
36	10	5443	3186	4187	0
36	12	6420	3823	5136	0
36	14	7393	4460	6089	0
36	16	8364	5097	7044	0
36	18	9334	5734	8000	0
36	20	10302	6372	8958	0
36	22	11269	7009	9917	0
36	24	12236	7646	10876	0
36	26	14010	8375	12561	0
36	28	15035	9019	13580	0
36	30	16059	9663	14599	0
36	32	17083	10307	15619	0

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Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
38	10	5745	3363	4420	0
38	12	6777	4035	5421	0
38	14	7804	4708	6427	0
38	16	8829	5380	7435	0
38	18	9852	6053	8445	0
38	20	10874	6726	9456	0
38	22	11895	7398	10468	0
38	24	12915	8071	11480	0
38	26	14788	8840	13259	0
38	28	15870	9520	14334	0
38	30	16951	10200	15410	0
38	32	18032	10880	16487	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
40	10	6048	3540	4652	0
40	12	7133	4248	5707	0
40	14	8215	4956	6765	0
40	16	9294	5664	7826	0
40	18	10371	6372	8889	0
40	20	11446	7079	9953	0
40	22	12521	7787	11019	0
40	24	13595	8495	12085	0
40	26	15567	9305	13956	0
40	28	16705	10021	15089	0
40	30	17844	10737	16221	0
40	32	18982	11453	17355	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
42	10	6350	3717	4885	0
42	12	7490	4460	5992	0
42	14	8626	5203	7103	0
42	16	9758	5947	8218	0
42	18	10889	6690	9334	0
42	20	12019	7433	10451	0
42	22	13147	8177	11570	0
42	24	14275	8920	12689	0
42	26	16345	9770	14654	0
42	28	17541	10522	15843	0
42	30	18736	11274	17033	0
42	32	19931	12025	18222	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
44	10	6653	3894	5117	0
44	12	7847	4672	6277	0
44	14	9036	5451	7442	0
44	16	10223	6230	8609	0
44	18	11408	7009	9778	0
44	20	12591	7787	10949	0
44	22	13773	8566	12121	0
44	24	14955	9345	13293	0
44	26	17123	10236	15352	0
44	28	18376	11023	16598	0
44	30	19628	11810	17844	0
44	32	20880	12598	19090	0

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Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
46	10	6955	4071	5350	0
46	12	8203	4885	6563	0
46	14	9447	5699	7780	0
46	16	10688	6513	9000	0
46	18	11926	7327	10223	0
46	20	13163	8141	11446	0
46	22	14399	8956	12671	0
46	24	15634	9770	13897	0
46	26	17902	10701	16050	0
46	28	19211	11524	17352	0
46	30	20520	12347	18655	0
46	32	21829	13170	19958	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
48	10	7257	4248	5583	0
48	12	8560	5097	6848	0
48	14	9858	5947	8118	0
48	16	11152	6796	9391	0
48	18	12445	7646	10667	0
48	20	13736	8495	11944	0
48	22	15025	9345	13222	0
48	24	16314	10194	14502	0
48	26	18680	11166	16748	0
48	28	20046	12025	18106	0
48	30	21412	12884	19466	0
48	32	22778	13743	20825	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
50	10	7560	4425	5815	0
50	12	8917	5310	7133	0
50	14	10268	6195	8456	0
50	16	11617	7079	9783	0
50	18	12963	7964	11111	0
50	20	14308	8849	12442	0
50	22	15651	9734	13773	0
50	24	16994	10619	15106	0
50	26	19458	11631	17445	0
50	28	20882	12526	18861	0
50	30	22305	13421	20277	0
50	32	23727	14316	21693	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
52	10	7862	4602	6048	0
52	12	9273	5522	7419	0
52	14	10679	6442	8795	0
52	16	12082	7363	10174	0
52	18	13482	8283	11556	0
52	20	14880	9203	12939	0
52	22	16278	10124	14324	0
52	24	17674	11044	15710	0
52	26	20237	12097	18143	0
52	28	21717	13027	19615	0
52	30	23197	13958	21088	0
52	32	24676	14888	22561	0

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Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
54	10	8165	4779	6280	0
54	12	9630	5734	7704	0
54	14	11090	6690	9133	0
54	16	12546	7646	10565	0
54	18	14000	8602	12000	0
54	20	15453	9557	13437	0
54	22	16904	10513	14875	0
54	24	18354	11469	16314	0
54	26	21015	12562	18841	0
54	28	22552	13528	20370	0
54	30	24089	14495	21899	0
54	32	25625	15461	23429	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
56	10	8467	4956	6513	0
56	12	9987	5947	7989	0
56	14	11501	6938	9471	0
56	16	13011	7929	10957	0
56	18	14519	8920	12445	0
56	20	16025	9911	13935	0
56	22	17530	10902	15426	0
56	24	19033	11894	16918	0
56	26	21793	13027	19539	0
56	28	23388	14029	21124	0
56	30	24981	15031	22710	0
56	32	26574	16034	24296	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
58	10	8769	5133	6746	0
58	12	10343	6159	8275	0
58	14	11911	7186	9809	0
58	16	13476	8212	11348	0
58	18	15038	9239	12889	0
58	20	16597	10265	14432	0
58	22	18156	11292	15977	0
58	24	19713	12318	17523	0
58	26	22572	13492	20237	0
58	28	24223	14530	21879	0
58	30	25873	15568	23521	0
58	32	27523	16606	25164	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
60	10	9072	5310	6978	0
60	12	10700	6372	8560	0
60	14	12322	7433	10148	0
60	16	13940	8495	11739	0
60	18	15556	9557	13334	0
60	20	17170	10619	14930	0
60	22	18782	11681	16528	0
60	24	20393	12743	18127	0
60	26	23350	13958	20935	0
60	28	25058	15031	22633	0
60	30	26765	16105	24332	0
60	32	28472	17179	26032	0

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Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
62	10	9374	5487	7211	0
62	12	11057	6584	8845	0
62	14	12733	7681	10486	0
62	16	14405	8779	12131	0
62	18	16075	9876	13778	0
62	20	17742	10973	15428	0
62	22	19408	12071	17079	0
62	24	21073	13168	18731	0
62	26	24128	14423	21632	0
62	28	25893	15532	23388	0
62	30	27658	16642	25143	0
62	32	29421	17751	26900	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
64	10	9676	5664	7443	0
64	12	11413	6796	9131	0
64	14	13144	7929	10824	0
64	16	14870	9062	12522	0
64	18	16593	10194	14223	0
64	20	18314	11327	15925	0
64	22	20034	12460	17630	0
64	24	21752	13593	19335	0
64	26	24907	14888	22330	0
64	28	26729	16034	24142	0
64	30	28550	17179	25954	0
64	32	30370	20372	27767	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
66	10	9979	5841	7676	0
66	12	11770	7009	9416	0
66	14	13554	8177	11162	0
66	16	15335	9345	12913	0
66	18	17112	10513	14667	0
66	20	18887	11681	16423	0
66	22	20660	12849	18181	0
66	24	22432	14017	19940	0
66	26	25685	15354	23028	0
66	28	27564	16535	24896	0
66	30	29442	17716	26765	0
66	32	31320	21009	28635	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
68	10	10281	6018	7909	0
68	12	12127	7221	9701	0
68	14	13965	8425	11501	0
68	16	15799	9628	13305	0
68	18	17630	10832	15112	0
68	20	19459	12035	16921	0
68	22	21286	13239	18732	0
68	24	23112	14442	20544	0
68	26	26463	15819	23726	0
68	28	28399	17036	25651	0
68	30	30334	20292	27577	0
68	32	32269	21645	29503	0

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Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
70	10	10584	6195	8141	0
70	12	12483	7433	9987	0
70	14	14376	8672	11839	0
70	16	16264	9911	13696	0
70	18	18149	11150	15556	0
70	20	20031	12389	17418	0
70	22	21912	13628	19283	0
70	24	23792	14867	21148	0
70	26	27242	16284	24424	0
70	28	29234	17537	26405	0
70	30	31226	20889	28388	0
70	32	33218	22282	30370	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
72	10	10886	6372	8374	0
72	12	12840	7646	10272	0
72	14	14787	8920	12177	0
72	16	16729	10194	14087	0
72	18	18667	11469	16001	0
72	20	20604	12743	17916	0
72	22	22538	14017	19834	0
72	24	24471	15292	21752	0
72	26	28020	16749	25121	0
72	28	30070	20054	27160	0
72	30	32119	21486	29199	0
72	32	34167	22919	31238	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
74	10	11188	6549	8606	0
74	12	13197	7858	10557	0
74	14	15197	9168	12515	0
74	16	17193	10478	14479	0
74	18	19186	11787	16445	0
74	20	21176	13097	18414	0
74	22	23164	14407	20385	0
74	24	25151	15716	22357	0
74	26	27242	17215	25819	0
74	28	29234	20611	27914	0
74	30	31226	22083	30010	0
74	32	33218	23555	32106	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
76	10	11491	6726	8839	0
76	12	13553	8071	10843	0
76	14	15608	9416	12854	0
76	16	17658	10761	14870	0
76	18	19704	12106	16889	0
76	20	21748	13451	18912	0
76	22	23790	14796	20935	0
76	24	25831	16141	22961	0
76	26	29577	17680	26517	0
76	28	31740	21168	28669	0
76	30	33903	22680	30821	0
76	32	36065	24192	32974	0

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Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
78	10	11793	6903	9072	0
78	12	13910	8283	11128	0
78	14	16019	9664	13192	0
78	16	18123	11044	15261	0
78	18	20223	12425	17334	0
78	20	22321	13805	19409	0
78	22	24416	15186	21486	0
78	24	26511	16566	23565	0
78	26	30355	20173	27215	0
78	28	32575	21725	29423	0
78	30	34795	23277	31632	0
78	32	37014	24828	33841	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
80	10	12096	7079	9304	0
80	12	14267	8495	11413	0
80	14	16430	9911	13530	0
80	16	18587	11327	15652	0
80	18	20741	12743	17778	0
80	20	22893	14159	19907	0
80	22	25042	15575	22037	0
80	24	27190	16991	24169	0
80	26	31133	20690	27913	0
80	28	33411	22282	30177	0
80	30	35687	23873	32443	0
80	32	37963	28025	34709	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
82	10	12398	7256	9537	0
82	12	14623	8708	11699	0
82	14	16840	10159	13868	0
82	16	19052	11610	16044	0
82	18	21260	13062	18223	0
82	20	23465	14513	20405	0
82	22	25668	15964	22588	0
82	24	27870	17416	24773	0
82	26	31912	21208	28611	0
82	28	34246	22839	30932	0
82	30	36579	24470	33254	0
82	32	38912	28726	35577	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
84	10	12700	7433	9770	0
84	12	14980	8920	11984	0
84	14	17251	10407	14207	0
84	16	19517	11894	16435	0
84	18	21778	13380	18667	0
84	20	24038	14867	20902	0
84	22	26295	16354	23139	0
84	24	28550	19856	25378	0
84	26	32690	21725	29308	0
84	28	35081	23396	31686	0
84	30	37472	27587	34065	0
84	32	39861	29426	36445	0



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Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
86	10	13003	7610	10002	0
86	12	15337	9133	12269	0
86	14	17662	10655	14545	0
86	16	19981	12177	16826	0
86	18	22297	13699	19112	0
86	20	24610	15221	21400	0
86	22	26921	16743	23690	0
86	24	29230	20329	25982	0
86	26	33468	22242	30006	0
86	28	35917	23953	32441	0
86	30	38364	28244	34876	0
86	32	40810	30127	37312	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
88	10	13305	7787	10235	0
88	12	15693	9345	12555	0
88	14	18073	10902	14883	0
88	16	20446	12460	17218	0
88	18	22816	14017	19556	0
88	20	25182	15575	21898	0
88	22	27547	17132	24241	0
88	24	29909	20802	26586	0
88	26	34247	22759	30704	0
88	28	36752	24510	33195	0
88	30	39256	28901	35687	0
88	32	41759	30828	38180	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
90	10	13608	7964	10467	0
90	12	16050	9557	12840	0
90	14	18483	11150	15222	0
90	16	20911	12743	17609	0
90	18	23334	14336	20001	0
90	20	25754	15929	22395	0
90	22	28173	17522	24792	0
90	24	30589	21275	27190	0
90	26	35025	23277	31402	0
90	28	37587	27587	33950	0
90	30	40148	29558	36498	0
90	32	42708	31528	39048	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
92	10	13910	8141	10700	0
92	12	16407	9770	13125	0
92	14	18894	11398	15560	0
92	16	21375	13026	18000	0
92	18	23853	14655	20445	0
92	20	26327	16283	22893	0
92	22	28799	19935	25343	0
92	24	31269	21747	27795	0
92	26	35803	23794	32100	0
92	28	38422	28200	34704	0
92	30	41040	30214	37309	0
92	32	43658	32229	39915	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	14212	8318	10933	0
94	12	16763	9982	13411	0
94	14	19305	11646	15898	0
94	16	21840	13309	18392	0
94	18	24371	14973	20890	0
94	20	26899	16637	23391	0
94	22	29425	20368	25894	0
94	24	31949	22220	28399	0
94	26	36582	24311	32797	0
94	28	39258	28813	35458	0
94	30	41933	30871	38120	0
94	32	44607	35937	40783	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
96	10	14515	8495	11165	0
96	12	17120	10194	13696	0
96	14	19715	11894	16236	0
96	16	22305	13593	18783	0
96	18	24890	15292	21334	0
96	20	27471	16991	23888	0
96	22	30051	20802	26445	0
96	24	32628	22693	29003	0
96	26	37360	24828	33495	0
96	28	40093	29426	36213	0
96	30	42825	31528	38932	0
96	32	45556	36702	41651	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
98	10	14817	8672	11398	0
98	12	17477	10407	13981	0
98	14	20126	12141	16575	0
98	16	22769	13876	19174	0
98	18	25408	15610	21778	0
98	20	28044	17345	24386	0
98	22	30677	21235	26996	0
98	24	33308	23166	29607	0
98	26	38138	27894	34193	0
98	28	40928	30039	36967	0
98	30	43717	32185	39743	0
98	32	46505	37467	42519	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
100	10	15119	8849	11630	0
100	12	17833	10619	14267	0
100	14	20537	12389	16913	0
100	16	23234	14159	19566	0
100	18	25927	15929	22223	0
100	20	28616	17699	24884	0
100	22	31303	21669	27547	0
100	24	33988	23638	30212	0
100	26	38917	28463	34891	0
100	28	41763	30652	37722	0
100	30	44609	35842	40554	0
100	32	47454	38231	43386	0

HIGHER POWER HYDRAULIC DOORS  
UNFACTORED DOOR JAMB REACTIONS - 160 mph - ASCE 7-22 / IBC-24

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
105	10	15875	9292	12212	0
105	12	18725	11150	14980	0
105	14	21564	13009	17758	0
105	16	24396	14867	20544	0
105	18	27223	16725	23334	0
105	20	30047	20684	26128	0
105	22	32868	22752	28924	0
105	24	35687	27340	31722	0
105	26	40863	29886	36635	0
105	28	43852	32185	39608	0
105	30	46839	37634	42581	0
105	32	49827	40143	45556	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
110	10	16631	9734	12793	0
110	12	19617	11681	15693	0
110	14	22591	13628	18604	0
110	16	25558	15575	21522	0
110	18	28519	17522	24445	0
110	20	31478	21669	27372	0
110	22	34433	23835	30301	0
110	24	37387	28642	33233	0
110	26	42808	31309	38380	0
110	28	45940	36798	41494	0
110	30	49070	39426	44609	0
110	32	52199	45574	47725	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
115	10	17387	10177	13375	0
115	12	20508	12212	16407	0
115	14	23618	14247	19450	0
115	16	26719	16283	22500	0
115	18	29816	20388	25556	0
115	20	32909	22654	28616	0
115	22	35998	27449	31679	0
115	24	39086	29944	34743	0
115	26	44754	32732	40125	0
115	28	48028	38470	43380	0
115	30	51300	41218	46637	0
115	32	54572	47646	49894	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
120	10	18143	10619	13956	0
120	12	21400	12743	17120	0
120	14	24644	14867	20295	0
120	16	27881	16991	23479	0
120	18	31112	21275	26668	0
120	20	34339	23638	29860	0
120	22	37564	28642	33056	0
120	24	40786	31246	36254	0
120	26	46700	37276	41869	0
120	28	50116	40143	45266	0
120	30	53531	46610	48664	0
120	32	56945	49718	52064	0

HIGHER POWER HYDRAULIC DOORS  
UNFACTORED DOOR JAMB REACTIONS - 160 mph - ASCE 7-22 / IBC-24

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
125	10	18899	11062	14538	0
125	12	22292	13274	17833	0
125	14	25671	15486	21141	0
125	16	29043	17699	24457	0
125	18	32408	22161	27779	0
125	20	35770	27123	31104	0
125	22	39129	29836	34433	0
125	24	42485	35548	37764	0
125	26	48646	38829	43614	0
125	28	52204	45315	47152	0
125	30	55761	48552	50692	0
125	32	59317	55789	54233	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
130	10	19655	11504	15119	0
130	12	23183	13805	18547	0
130	14	26698	16106	21987	0
130	16	30204	20487	25435	0
130	18	33705	23048	28890	0
130	20	37201	28208	32349	0
130	22	40694	31029	35811	0
130	24	44184	36970	39275	0
130	26	50592	40382	45358	0
130	28	54292	47128	49038	0
130	30	57992	50494	52720	0
130	32	61690	58021	56402	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
135	10	20411	11947	15701	0
135	12	24075	14336	19260	0
135	14	27725	16725	22832	0
135	16	31366	21275	26414	0
135	18	35001	23934	30001	0
135	20	38632	29293	33593	0
135	22	42259	32223	37188	0
135	24	45884	38392	40786	0
135	26	52538	45445	47103	0
135	28	56381	48941	50924	0
135	30	60222	56486	54747	0
135	32	64063	60252	58572	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
140	10	21167	12389	16283	0
140	12	24967	14867	19973	0
140	14	28752	17345	23678	0
140	16	32528	22063	27392	0
140	18	36297	27340	31112	0
140	20	40063	30378	34837	0
140	22	43824	36496	38565	0
140	24	47583	39814	42296	0
140	26	54483	47128	48847	0
140	28	58469	50753	52811	0
140	30	62453	58579	56775	0
140	32	66435	62484	60741	0

HIGHER POWER HYDRAULIC DOORS  
UNFACTORED DOOR JAMB REACTIONS - 160 mph - ASCE 7-22 / IBC-24

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
145	10	21923	12832	16864	0
145	12	25858	15398	20687	0
145	14	29779	19994	24524	0
145	16	33689	22851	28370	0
145	18	37594	28317	32223	0
145	20	41493	31463	36081	0
145	22	45389	37799	39943	0
145	24	49283	41236	43807	0
145	26	56429	48811	50592	0
145	28	60557	56626	54697	0
145	30	64683	60671	58803	0
145	32	68808	69355	62910	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
150	10	22679	13274	17446	0
150	12	26750	15929	21400	0
150	14	30805	20684	25369	0
150	16	34851	23638	29348	0
150	18	38890	29293	33334	0
150	20	42924	35548	37325	0
150	22	46954	39103	41320	0
150	24	50982	46258	45317	0
150	26	58375	50494	52336	0
150	28	62645	58579	56583	0
150	30	66914	67263	60831	0
150	32	71181	71747	65080	0