

HIGHER POWER HYDRAULIC DOORS
UNFACTORED DOOR JAMB REACTIONS - 160 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	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 7-16.

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

HIGHER POWER HYDRAULIC DOORS
UNFACTORED DOOR JAMB REACTIONS - 160 mph - ASCE 7-16

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
30	10	4536	1980	3489	0
30	12	5350	2376	4280	0
30	14	6161	2772	5074	0
30	16	6970	3168	5870	0
30	18	7778	3564	6667	0
30	20	8585	3960	7465	0
30	22	9391	4356	8264	0
30	24	10196	4752	9063	0
30	26	11675	5224	10467	0
30	28	12529	5626	11317	0
30	30	13383	6028	12166	0
30	32	14236	6429	13016	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
32	10	4838	2112	3722	0
32	12	5707	2534	4565	0
32	14	6572	2957	5412	0
32	16	7435	3379	6261	0
32	18	8297	3801	7111	0
32	20	9157	4224	7963	0
32	22	10017	4646	8815	0
32	24	10876	5068	9668	0
32	26	12453	5572	11165	0
32	28	13364	6001	12071	0
32	30	14275	6429	12977	0
32	32	15185	6858	13884	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
34	10	5141	2244	3954	0
34	12	6063	2693	4851	0
34	14	6983	3141	5750	0
34	16	7900	3590	6652	0
34	18	8815	4039	7556	0
34	20	9729	4488	8460	0
34	22	10643	4936	9366	0
34	24	11556	5385	10272	0
34	26	13232	5920	11863	0
34	28	14200	6376	12825	0
34	30	15167	6831	13788	0
34	32	16134	7287	14751	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
36	10	5443	2376	4187	0
36	12	6420	2851	5136	0
36	14	7393	3326	6089	0
36	16	8364	3801	7044	0
36	18	9334	4276	8000	0
36	20	10302	4752	8958	0
36	22	11269	5227	9917	0
36	24	12236	5702	10876	0
36	26	14010	6269	12561	0
36	28	15035	6751	13580	0
36	30	16059	7233	14599	0
36	32	17083	7715	15619	0

HIGHER POWER HYDRAULIC DOORS
UNFACTORED DOOR JAMB REACTIONS - 160 mph - ASCE 7-16

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
38	10	5745	2508	4420	0
38	12	6777	3009	5421	0
38	14	7804	3511	6427	0
38	16	8829	4012	7435	0
38	18	9852	4514	8445	0
38	20	10874	5016	9456	0
38	22	11895	5517	10468	0
38	24	12915	6019	11480	0
38	26	14788	6617	13259	0
38	28	15870	7126	14334	0
38	30	16951	7635	15410	0
38	32	18032	8144	16487	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
40	10	6048	2640	4652	0
40	12	7133	3168	5707	0
40	14	8215	3696	6765	0
40	16	9294	4224	7826	0
40	18	10371	4752	8889	0
40	20	11446	5279	9953	0
40	22	12521	5807	11019	0
40	24	13595	6335	12085	0
40	26	15567	6965	13956	0
40	28	16705	7501	15089	0
40	30	17844	8037	16221	0
40	32	18982	8573	17355	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
42	10	6350	2772	4885	0
42	12	7490	3326	5992	0
42	14	8626	3880	7103	0
42	16	9758	4435	8218	0
42	18	10889	4989	9334	0
42	20	12019	5543	10451	0
42	22	13147	6098	11570	0
42	24	14275	6652	12689	0
42	26	16345	7313	14654	0
42	28	17541	7876	15843	0
42	30	18736	8439	17033	0
42	32	19931	9001	18222	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
44	10	6653	2904	5117	0
44	12	7847	3484	6277	0
44	14	9036	4065	7442	0
44	16	10223	4646	8609	0
44	18	11408	5227	9778	0
44	20	12591	5807	10949	0
44	22	13773	6388	12121	0
44	24	14955	6969	13293	0
44	26	17123	7662	15352	0
44	28	18376	8251	16598	0
44	30	19628	8840	17844	0
44	32	20880	9430	19090	0

HIGHER POWER HYDRAULIC DOORS
UNFACTORED DOOR JAMB REACTIONS - 160 mph - ASCE 7-16

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
46	10	6955	3036	5350	0
46	12	8203	3643	6563	0
46	14	9447	4250	7780	0
46	16	10688	4857	9000	0
46	18	11926	5464	10223	0
46	20	13163	6071	11446	0
46	22	14399	6679	12671	0
46	24	15634	7286	13897	0
46	26	17902	8010	16050	0
46	28	19211	8626	17352	0
46	30	20520	9242	18655	0
46	32	21829	9858	19958	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
48	10	7257	3168	5583	0
48	12	8560	3801	6848	0
48	14	9858	4435	8118	0
48	16	11152	5068	9391	0
48	18	12445	5702	10667	0
48	20	13736	6335	11944	0
48	22	15025	6969	13222	0
48	24	16314	7602	14502	0
48	26	18680	8358	16748	0
48	28	20046	9001	18106	0
48	30	21412	9644	19466	0
48	32	22778	10287	20825	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
50	10	7560	3300	5815	0
50	12	8917	3960	7133	0
50	14	10268	4620	8456	0
50	16	11617	5279	9783	0
50	18	12963	5939	11111	0
50	20	14308	6599	12442	0
50	22	15651	7259	13773	0
50	24	16994	7919	15106	0
50	26	19458	8706	17445	0
50	28	20882	9376	18861	0
50	30	22305	10046	20277	0
50	32	23727	10716	21693	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
52	10	7862	3432	6048	0
52	12	9273	4118	7419	0
52	14	10679	4804	8795	0
52	16	12082	5491	10174	0
52	18	13482	6177	11556	0
52	20	14880	6863	12939	0
52	22	16278	7550	14324	0
52	24	17674	8236	15710	0
52	26	20237	9055	18143	0
52	28	21717	9751	19615	0
52	30	23197	10448	21088	0
52	32	24676	11144	22561	0

HIGHER POWER HYDRAULIC DOORS
UNFACTORED DOOR JAMB REACTIONS - 160 mph - ASCE 7-16

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
54	10	8165	3564	6280	0
54	12	9630	4276	7704	0
54	14	11090	4989	9133	0
54	16	12546	5702	10565	0
54	18	14000	6415	12000	0
54	20	15453	7127	13437	0
54	22	16904	7840	14875	0
54	24	18354	8553	16314	0
54	26	21015	9403	18841	0
54	28	22552	10126	20370	0
54	30	24089	10850	21899	0
54	32	25625	11573	23429	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
56	10	8467	3696	6513	0
56	12	9987	4435	7989	0
56	14	11501	5174	9471	0
56	16	13011	5913	10957	0
56	18	14519	6652	12445	0
56	20	16025	7391	13935	0
56	22	17530	8130	15426	0
56	24	19033	8870	16918	0
56	26	21793	9751	19539	0
56	28	23388	10501	21124	0
56	30	24981	11251	22710	0
56	32	26574	12002	24296	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
58	10	8769	3828	6746	0
58	12	10343	4593	8275	0
58	14	11911	5359	9809	0
58	16	13476	6124	11348	0
58	18	15038	6890	12889	0
58	20	16597	7655	14432	0
58	22	18156	8421	15977	0
58	24	19713	9186	17523	0
58	26	22572	10099	20237	0
58	28	24223	10876	21879	0
58	30	25873	11653	23521	0
58	32	27523	12430	25164	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
60	10	9072	3960	6978	0
60	12	10700	4752	8560	0
60	14	12322	5543	10148	0
60	16	13940	6335	11739	0
60	18	15556	7127	13334	0
60	20	17170	7919	14930	0
60	22	18782	8711	16528	0
60	24	20393	9503	18127	0
60	26	23350	10448	20935	0
60	28	25058	11251	22633	0
60	30	26765	12055	24332	0
60	32	28472	12859	26032	0

HIGHER POWER HYDRAULIC DOORS
UNFACTORED DOOR JAMB REACTIONS - 160 mph - ASCE 7-16

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
62	10	9374	4092	7211	0
62	12	11057	4910	8845	0
62	14	12733	5728	10486	0
62	16	14405	6547	12131	0
62	18	16075	7365	13778	0
62	20	17742	8183	15428	0
62	22	19408	9002	17079	0
62	24	21073	9820	18731	0
62	26	24128	10796	21632	0
62	28	25893	11626	23388	0
62	30	27658	12457	25143	0
62	32	29421	13287	26900	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
64	10	9676	4224	7443	0
64	12	11413	5068	9131	0
64	14	13144	5913	10824	0
64	16	14870	6758	12522	0
64	18	16593	7602	14223	0
64	20	18314	8447	15925	0
64	22	20034	9292	17630	0
64	24	21752	10137	19335	0
64	26	24907	11144	22330	0
64	28	26729	12002	24142	0
64	30	28550	12859	25954	0
64	32	30370	13716	27767	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
66	10	9979	4356	7676	0
66	12	11770	5227	9416	0
66	14	13554	6098	11162	0
66	16	15335	6969	12913	0
66	18	17112	7840	14667	0
66	20	18887	8711	16423	0
66	22	20660	9582	18181	0
66	24	22432	10453	19940	0
66	26	25685	11493	23028	0
66	28	27564	12377	24896	0
66	30	29442	13261	26765	0
66	32	31320	14145	28635	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
68	10	10281	4488	7909	0
68	12	12127	5385	9701	0
68	14	13965	6283	11501	0
68	16	15799	7180	13305	0
68	18	17630	8078	15112	0
68	20	19459	8975	16921	0
68	22	21286	9873	18732	0
68	24	23112	10770	20544	0
68	26	26463	11841	23726	0
68	28	28399	12752	25651	0
68	30	30334	13662	27577	0
68	32	32269	14573	29503	0

HIGHER POWER HYDRAULIC DOORS
UNFACTORED DOOR JAMB REACTIONS - 160 mph - ASCE 7-16

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
70	10	10584	4620	8141	0
70	12	12483	5543	9987	0
70	14	14376	6467	11839	0
70	16	16264	7391	13696	0
70	18	18149	8315	15556	0
70	20	20031	9239	17418	0
70	22	21912	10163	19283	0
70	24	23792	11087	21148	0
70	26	27242	12189	24424	0
70	28	29234	13127	26405	0
70	30	31226	14064	28388	0
70	32	33218	15002	30370	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
72	10	10886	4752	8374	0
72	12	12840	5702	10272	0
72	14	14787	6652	12177	0
72	16	16729	7602	14087	0
72	18	18667	8553	16001	0
72	20	20604	9503	17916	0
72	22	22538	10453	19834	0
72	24	24471	11404	21752	0
72	26	28020	12537	25121	0
72	28	30070	13502	27160	0
72	30	32119	14466	29199	0
72	32	34167	15431	31238	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
74	10	11188	4884	8606	0
74	12	13197	5860	10557	0
74	14	15197	6837	12515	0
74	16	17193	7814	14479	0
74	18	19186	8790	16445	0
74	20	21176	9767	18414	0
74	22	23164	10744	20385	0
74	24	25151	11720	22357	0
74	26	27242	12886	25819	0
74	28	29234	13877	27914	0
74	30	31226	14868	30010	0
74	32	33218	15859	32106	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
76	10	11491	5016	8839	0
76	12	13553	6019	10843	0
76	14	15608	7022	12854	0
76	16	17658	8025	14870	0
76	18	19704	9028	16889	0
76	20	21748	10031	18912	0
76	22	23790	11034	20935	0
76	24	25831	12037	22961	0
76	26	29577	13234	26517	0
76	28	31740	14252	28669	0
76	30	33903	15270	30821	0
76	32	36065	16288	32974	0

HIGHER POWER HYDRAULIC DOORS
UNFACTORED DOOR JAMB REACTIONS - 160 mph - ASCE 7-16

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
78	10	11793	5148	9072	0
78	12	13910	6177	11128	0
78	14	16019	7207	13192	0
78	16	18123	8236	15261	0
78	18	20223	9266	17334	0
78	20	22321	10295	19409	0
78	22	24416	11325	21486	0
78	24	26511	12354	23565	0
78	26	30355	13582	27215	0
78	28	32575	14627	29423	0
78	30	34795	15672	31632	0
78	32	37014	16716	33841	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
80	10	12096	5279	9304	0
80	12	14267	6335	11413	0
80	14	16430	7391	13530	0
80	16	18587	8447	15652	0
80	18	20741	9503	17778	0
80	20	22893	10559	19907	0
80	22	25042	11615	22037	0
80	24	27190	12671	24169	0
80	26	31133	13930	27913	0
80	28	33411	15002	30177	0
80	30	35687	16073	32443	0
80	32	37963	17145	34709	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
82	10	12398	5411	9537	0
82	12	14623	6494	11699	0
82	14	16840	7576	13868	0
82	16	19052	8658	16044	0
82	18	21260	9741	18223	0
82	20	23465	10823	20405	0
82	22	25668	11905	22588	0
82	24	27870	12988	24773	0
82	26	31912	14279	28611	0
82	28	34246	15377	30932	0
82	30	36579	16475	33254	0
82	32	38912	17574	35577	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
84	10	12700	5543	9770	0
84	12	14980	6652	11984	0
84	14	17251	7761	14207	0
84	16	19517	8870	16435	0
84	18	21778	9978	18667	0
84	20	24038	11087	20902	0
84	22	26295	12196	23139	0
84	24	28550	13304	25378	0
84	26	32690	14627	29308	0
84	28	35081	15752	31686	0
84	30	37472	16877	34065	0
84	32	39861	18002	36445	0

HIGHER POWER HYDRAULIC DOORS
UNFACTORED DOOR JAMB REACTIONS - 160 mph - ASCE 7-16

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
86	10	13003	5675	10002	0
86	12	15337	6811	12269	0
86	14	17662	7946	14545	0
86	16	19981	9081	16826	0
86	18	22297	10216	19112	0
86	20	24610	11351	21400	0
86	22	26921	12486	23690	0
86	24	29230	13621	25982	0
86	26	33468	14975	30006	0
86	28	35917	16127	32441	0
86	30	38364	17279	34876	0
86	32	40810	18431	37312	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
88	10	13305	5807	10235	0
88	12	15693	6969	12555	0
88	14	18073	8130	14883	0
88	16	20446	9292	17218	0
88	18	22816	10453	19556	0
88	20	25182	11615	21898	0
88	22	27547	12776	24241	0
88	24	29909	13938	26586	0
88	26	34247	15323	30704	0
88	28	36752	16502	33195	0
88	30	39256	17681	35687	0
88	32	41759	18860	38180	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
90	10	13608	5939	10467	0
90	12	16050	7127	12840	0
90	14	18483	8315	15222	0
90	16	20911	9503	17609	0
90	18	23334	10691	20001	0
90	20	25754	11879	22395	0
90	22	28173	13067	24792	0
90	24	30589	14255	27190	0
90	26	35025	15672	31402	0
90	28	37587	16877	33950	0
90	30	40148	18083	36498	0
90	32	42708	19288	39048	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
92	10	13910	6071	10700	0
92	12	16407	7286	13125	0
92	14	18894	8500	15560	0
92	16	21375	9714	18000	0
92	18	23853	10929	20445	0
92	20	26327	12143	22893	0
92	22	28799	13357	25343	0
92	24	31269	14571	27795	0
92	26	35803	16020	32100	0
92	28	38422	17252	34704	0
92	30	41040	18484	37309	0
92	32	43658	19717	39915	0

HIGHER POWER HYDRAULIC DOORS
UNFACTORED DOOR JAMB REACTIONS - 160 mph - ASCE 7-16

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
94	10	14212	6203	10933	0
94	12	16763	7444	13411	0
94	14	19305	8685	15898	0
94	16	21840	9925	18392	0
94	18	24371	11166	20890	0
94	20	26899	12407	23391	0
94	22	29425	13647	25894	0
94	24	31949	14888	28399	0
94	26	36582	16368	32797	0
94	28	39258	17627	35458	0
94	30	41933	18886	38120	0
94	32	44607	20145	40783	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
96	10	14515	6335	11165	0
96	12	17120	7602	13696	0
96	14	19715	8870	16236	0
96	16	22305	10137	18783	0
96	18	24890	11404	21334	0
96	20	27471	12671	23888	0
96	22	30051	13938	26445	0
96	24	32628	15205	29003	0
96	26	37360	16716	33495	0
96	28	40093	18002	36213	0
96	30	42825	19288	38932	0
96	32	45556	20574	41651	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
98	10	14817	6467	11398	0
98	12	17477	7761	13981	0
98	14	20126	9054	16575	0
98	16	22769	10348	19174	0
98	18	25408	11641	21778	0
98	20	28044	12935	24386	0
98	22	30677	14228	26996	0
98	24	33308	15522	29607	0
98	26	38138	17065	34193	0
98	28	40928	18377	36967	0
98	30	43717	19690	39743	0
98	32	46505	21003	42519	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
100	10	15119	6599	11630	0
100	12	17833	7919	14267	0
100	14	20537	9239	16913	0
100	16	23234	10559	19566	0
100	18	25927	11879	22223	0
100	20	28616	13199	24884	0
100	22	31303	14519	27547	0
100	24	33988	15838	30212	0
100	26	38917	17413	34891	0
100	28	41763	18752	37722	0
100	30	44609	20092	40554	0
100	32	47454	21431	43386	0

HIGHER POWER HYDRAULIC DOORS
UNFACTORED DOOR JAMB REACTIONS - 160 mph - ASCE 7-16

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
105	10	15875	6929	12212	0
105	12	18725	8315	14980	0
105	14	21564	9701	17758	0
105	16	24396	11087	20544	0
105	18	27223	12473	23334	0
105	20	30047	13859	26128	0
105	22	32868	15245	28924	0
105	24	35687	16630	31722	0
105	26	40863	18284	36635	0
105	28	43852	19690	39608	0
105	30	46839	21096	42581	0
105	32	49827	22503	45556	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
110	10	16631	7259	12793	0
110	12	19617	8711	15693	0
110	14	22591	10163	18604	0
110	16	25558	11615	21522	0
110	18	28519	13067	24445	0
110	20	31478	14519	27372	0
110	22	34433	15970	30301	0
110	24	37387	17422	33233	0
110	26	42808	19154	38380	0
110	28	45940	20628	41494	0
110	30	49070	22101	44609	0
110	32	52199	23574	47725	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
115	10	17387	7589	13375	0
115	12	20508	9107	16407	0
115	14	23618	10625	19450	0
115	16	26719	12143	22500	0
115	18	29816	13661	25556	0
115	20	32909	15179	28616	0
115	22	35998	16696	31679	0
115	24	39086	18214	34743	0
115	26	44754	20025	40125	0
115	28	48028	21565	43380	0
115	30	51300	23106	46637	0
115	32	54572	24646	49894	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
120	10	18143	7919	13956	0
120	12	21400	9503	17120	0
120	14	24644	11087	20295	0
120	16	27881	12671	23479	0
120	18	31112	14255	26668	0
120	20	34339	15838	29860	0
120	22	37564	17422	33056	0
120	24	40786	19006	36254	0
120	26	46700	20896	41869	0
120	28	50116	22503	45266	0
120	30	53531	24110	48664	0
120	32	56945	25718	52064	0

HIGHER POWER HYDRAULIC DOORS
UNFACTORED DOOR JAMB REACTIONS - 160 mph - ASCE 7-16

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
125	10	18899	8249	14538	0
125	12	22292	9899	17833	0
125	14	25671	11549	21141	0
125	16	29043	13199	24457	0
125	18	32408	14849	27779	0
125	20	35770	16498	31104	0
125	22	39129	18148	34433	0
125	24	42485	19798	37764	0
125	26	48646	21766	43614	0
125	28	52204	23440	47152	0
125	30	55761	25115	50692	0
125	32	59317	26789	54233	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
130	10	19655	8579	15119	0
130	12	23183	10295	18547	0
130	14	26698	12011	21987	0
130	16	30204	13727	25435	0
130	18	33705	15443	28890	0
130	20	37201	17158	32349	0
130	22	40694	18874	35811	0
130	24	44184	20590	39275	0
130	26	50592	22637	45358	0
130	28	54292	24378	49038	0
130	30	57992	26119	52720	0
130	32	61690	27861	56402	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
135	10	20411	8909	15701	0
135	12	24075	10691	19260	0
135	14	27725	12473	22832	0
135	16	31366	14255	26414	0
135	18	35001	16036	30001	0
135	20	38632	17818	33593	0
135	22	42259	19600	37188	0
135	24	45884	21382	40786	0
135	26	52538	23507	47103	0
135	28	56381	25316	50924	0
135	30	60222	27124	54747	0
135	32	64063	28932	58572	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
140	10	21167	9239	16283	0
140	12	24967	11087	19973	0
140	14	28752	12935	23678	0
140	16	32528	14783	27392	0
140	18	36297	16630	31112	0
140	20	40063	18478	34837	0
140	22	43824	20326	38565	0
140	24	47583	22174	42296	0
140	26	54483	24378	48847	0
140	28	58469	26253	52811	0
140	30	62453	28129	56775	0
140	32	66435	30004	60741	0

HIGHER POWER HYDRAULIC DOORS
UNFACTORED DOOR JAMB REACTIONS - 160 mph - ASCE 7-16

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
145	10	21923	9569	16864	0
145	12	25858	11483	20687	0
145	14	29779	13397	24524	0
145	16	33689	15311	28370	0
145	18	37594	17224	32223	0
145	20	41493	19138	36081	0
145	22	45389	21052	39943	0
145	24	49283	22966	43807	0
145	26	56429	25249	50592	0
145	28	60557	27191	54697	0
145	30	64683	29133	58803	0
145	32	68808	31075	62910	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
150	10	22679	9899	17446	0
150	12	26750	11879	21400	0
150	14	30805	13859	25369	0
150	16	34851	15838	29348	0
150	18	38890	17818	33334	0
150	20	42924	19798	37325	0
150	22	46954	21778	41320	0
150	24	50982	23758	45317	0
150	26	58375	26119	52336	0
150	28	62645	28129	56583	0
150	30	66914	30138	60831	0
150	32	71181	32147	65080	0