

HIGHER POWER HYDRAULIC DOORS  
UNFACTORED DOOR JAMB REACTIONS - 145 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
13.0	$h \leq 24$ ft	145	43.9	50	7.2	50	3.2	-5.9
	$24$ ft < $h \leq 32$ ft		46.6		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	3725	2430	2866	0
30	12	4394	2916	3515	0
30	14	5060	3402	4167	0
30	16	5725	3888	4821	0
30	18	6388	4374	5475	0
30	20	7051	4860	6131	0
30	22	7713	5346	6787	0
30	24	8374	5832	7444	0
30	26	9589	6394	8597	0
30	28	10290	6886	9294	0
30	30	10991	7378	9992	0
30	32	11692	7869	10690	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
32	10	3974	2592	3057	0
32	12	4687	3110	3749	0
32	14	5397	3629	4445	0
32	16	6106	4147	5142	0
32	18	6814	4665	5840	0
32	20	7521	5184	6540	0
32	22	8227	5702	7240	0
32	24	8932	6220	7940	0
32	26	10228	6820	9170	0
32	28	10976	7345	9914	0
32	30	11724	7869	10658	0
32	32	12471	8394	11402	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
34	10	4222	2754	3248	0
34	12	4980	3305	3984	0
34	14	5735	3855	4723	0
34	16	6488	4406	5463	0
34	18	7240	4957	6205	0
34	20	7991	5508	6948	0
34	22	8741	6058	7692	0
34	24	9491	6609	8436	0
34	26	10867	7246	9743	0
34	28	11662	7804	10533	0
34	30	12457	8361	11324	0
34	32	13251	8919	12115	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
36	10	4470	2916	3439	0
36	12	5273	3499	4218	0
36	14	6072	4082	5001	0
36	16	6869	4665	5785	0
36	18	7666	5248	6571	0
36	20	8461	5832	7357	0
36	22	9255	6415	8145	0
36	24	10049	6998	8932	0
36	26	11506	7673	10316	0
36	28	12348	8263	11153	0
36	30	13189	8853	11990	0
36	32	14030	9443	12828	0

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Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
38	10	4719	3078	3630	0
38	12	5566	3693	4452	0
38	14	6409	4309	5278	0
38	16	7251	4924	6106	0
38	18	8091	5540	6936	0
38	20	8931	6156	7766	0
38	22	9769	6771	8597	0
38	24	10607	7387	9429	0
38	26	12146	8099	10889	0
38	28	13034	8722	11773	0
38	30	13922	9345	12656	0
38	32	14810	9968	13540	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
40	10	4967	3240	3821	0
40	12	5858	3888	4687	0
40	14	6747	4536	5556	0
40	16	7633	5184	6428	0
40	18	8517	5832	7301	0
40	20	9401	6479	8175	0
40	22	10284	7127	9049	0
40	24	11166	7775	9925	0
40	26	12785	8525	11462	0
40	28	13720	9181	12392	0
40	30	14655	9837	13323	0
40	32	15589	10493	14253	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
42	10	5215	3402	4012	0
42	12	6151	4082	4921	0
42	14	7084	4762	5834	0
42	16	8014	5443	6749	0
42	18	8943	6123	7666	0
42	20	9871	6803	8583	0
42	22	10798	7484	9502	0
42	24	11724	8164	10421	0
42	26	13424	8951	12035	0
42	28	14406	9640	13012	0
42	30	15388	10329	13989	0
42	32	16369	11017	14966	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
44	10	5464	3564	4203	0
44	12	6444	4276	5155	0
44	14	7421	4989	6112	0
44	16	8396	5702	7070	0
44	18	9369	6415	8031	0
44	20	10341	7127	8992	0
44	22	11312	7840	9954	0
44	24	12282	8553	10917	0
44	26	14063	9378	12608	0
44	28	15092	10099	13631	0
44	30	16120	10820	14655	0
44	32	17148	11542	15678	0

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Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
46	10	5712	3726	4394	0
46	12	6737	4471	5390	0
46	14	7759	5216	6390	0
46	16	8778	5961	7392	0
46	18	9795	6706	8396	0
46	20	10811	7451	9401	0
46	22	11826	8197	10407	0
46	24	12840	8942	11414	0
46	26	14702	9804	13182	0
46	28	15778	10558	14251	0
46	30	16853	11312	15321	0
46	32	17928	12066	16391	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
48	10	5960	3888	4585	0
48	12	7030	4665	5624	0
48	14	8096	5443	6667	0
48	16	9159	6220	7713	0
48	18	10221	6998	8761	0
48	20	11281	7775	9810	0
48	22	12340	8553	10859	0
48	24	13399	9330	11910	0
48	26	15342	10230	13755	0
48	28	16464	11017	14871	0
48	30	17586	11804	15987	0
48	32	18707	12591	17104	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
50	10	6209	4050	4776	0
50	12	7323	4860	5858	0
50	14	8433	5670	6945	0
50	16	9541	6479	8035	0
50	18	10647	7289	9126	0
50	20	11751	8099	10218	0
50	22	12854	8909	11312	0
50	24	13957	9719	12406	0
50	26	15981	10656	14328	0
50	28	17150	11476	15490	0
50	30	18318	12296	16653	0
50	32	19487	13116	17816	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
52	10	6457	4212	4967	0
52	12	7616	5054	6093	0
52	14	8771	5896	7223	0
52	16	9923	6739	8356	0
52	18	11073	7581	9491	0
52	20	12221	8423	10627	0
52	22	13369	9266	11764	0
52	24	14515	10108	12902	0
52	26	16620	11083	14901	0
52	28	17836	11935	16110	0
52	30	19051	12788	17319	0
52	32	20266	13640	18529	0

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Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
54	10	6705	4374	5158	0
54	12	7909	5248	6327	0
54	14	9108	6123	7501	0
54	16	10304	6998	8677	0
54	18	11498	7873	9856	0
54	20	12691	8747	11036	0
54	22	13883	9622	12217	0
54	24	15074	10497	13399	0
54	26	17259	11509	15474	0
54	28	18522	12394	16729	0
54	30	19784	13280	17985	0
54	32	21046	14165	19242	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
56	10	6954	4536	5349	0
56	12	8202	5443	6562	0
56	14	9445	6350	7779	0
56	16	10686	7257	8999	0
56	18	11924	8164	10221	0
56	20	13161	9071	11444	0
56	22	14397	9978	12669	0
56	24	15632	10886	13895	0
56	26	17899	11935	16047	0
56	28	19208	12853	17349	0
56	30	20517	13771	18652	0
56	32	21825	14690	19954	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
58	10	7202	4698	5540	0
58	12	8495	5637	6796	0
58	14	9783	6577	8056	0
58	16	11068	7516	9320	0
58	18	12350	8456	10586	0
58	20	13631	9395	11853	0
58	22	14911	10335	13122	0
58	24	16190	11274	14391	0
58	26	18538	12361	16620	0
58	28	19894	13312	17969	0
58	30	21249	14263	19318	0
58	32	22605	15214	20667	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
60	10	7450	4860	5731	0
60	12	8788	5832	7030	0
60	14	10120	6803	8334	0
60	16	11449	7775	9641	0
60	18	12776	8747	10951	0
60	20	14101	9719	12262	0
60	22	15425	10691	13574	0
60	24	16748	11663	14887	0
60	26	19177	12788	17193	0
60	28	20580	13771	18588	0
60	30	21982	14755	19984	0
60	32	23384	15739	21380	0

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Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
62	10	7699	5022	5922	0
62	12	9081	6026	7265	0
62	14	10457	7030	8612	0
62	16	11831	8035	9963	0
62	18	13202	9039	11316	0
62	20	14571	10043	12671	0
62	22	15939	11048	14027	0
62	24	17307	12052	15384	0
62	26	19816	13214	17766	0
62	28	21266	14230	19208	0
62	30	22715	15247	20650	0
62	32	24163	16263	22092	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
64	10	7947	5184	6113	0
64	12	9374	6220	7499	0
64	14	10795	7257	8890	0
64	16	12212	8294	10284	0
64	18	13628	9330	11681	0
64	20	15041	10367	13079	0
64	22	16454	11404	14479	0
64	24	17865	12441	15880	0
64	26	20456	13640	18340	0
64	28	21952	14690	19828	0
64	30	23448	15739	21316	0
64	32	24943	18836	22805	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
66	10	8196	5346	6304	0
66	12	9667	6415	7733	0
66	14	11132	7484	9168	0
66	16	12594	8553	10606	0
66	18	14054	9622	12046	0
66	20	15511	10691	13488	0
66	22	16968	11760	14932	0
66	24	18423	12829	16376	0
66	26	21095	14067	18913	0
66	28	22638	15149	20447	0
66	30	24180	16231	21982	0
66	32	25722	19425	23518	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
68	10	8444	5508	6495	0
68	12	9959	6609	7968	0
68	14	11469	7711	9445	0
68	16	12976	8812	10927	0
68	18	14479	9914	12411	0
68	20	15981	11015	13897	0
68	22	17482	12117	15384	0
68	24	18982	13218	16872	0
68	26	21734	14493	19486	0
68	28	23324	15608	21067	0
68	30	24913	18762	22648	0
68	32	26502	20013	24230	0

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Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
70	10	8692	5670	6686	0
70	12	10252	6803	8202	0
70	14	11807	7937	9723	0
70	16	13357	9071	11248	0
70	18	14905	10205	12776	0
70	20	16451	11339	14306	0
70	22	17996	12473	15837	0
70	24	19540	13607	17369	0
70	26	22373	14919	20059	0
70	28	24010	16067	21686	0
70	30	25646	19314	23314	0
70	32	27281	20602	24943	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
72	10	8941	5832	6877	0
72	12	10545	6998	8436	0
72	14	12144	8164	10001	0
72	16	13739	9330	11570	0
72	18	15331	10497	13141	0
72	20	16922	11663	14714	0
72	22	18510	12829	16289	0
72	24	20098	13996	17865	0
72	26	23013	15345	20632	0
72	28	24696	18542	22306	0
72	30	26379	19866	23981	0
72	32	28061	21191	25656	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
74	10	9189	5994	7068	0
74	12	10838	7192	8671	0
74	14	12481	8391	10279	0
74	16	14121	9590	11891	0
74	18	15757	10788	13506	0
74	20	17392	11987	15123	0
74	22	19025	13186	16742	0
74	24	20656	14384	18361	0
74	26	22373	15772	21205	0
74	28	24010	19057	22926	0
74	30	25646	20418	24647	0
74	32	27281	21779	26368	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
76	10	9437	6156	7259	0
76	12	11131	7387	8905	0
76	14	12819	8618	10557	0
76	16	14502	9849	12212	0
76	18	16183	11080	13871	0
76	20	17862	12311	15532	0
76	22	19539	13542	17194	0
76	24	21215	14773	18857	0
76	26	24291	16198	21778	0
76	28	26068	19572	23545	0
76	30	27844	20970	25313	0
76	32	29620	22368	27081	0

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Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
78	10	9686	6318	7450	0
78	12	11424	7581	9139	0
78	14	13156	8845	10834	0
78	16	14884	10108	12534	0
78	18	16609	11372	14236	0
78	20	18332	12635	15941	0
78	22	20053	13899	17647	0
78	24	21773	15162	19354	0
78	26	24930	18652	22351	0
78	28	26754	20087	24165	0
78	30	28577	21522	25979	0
78	32	30399	22956	27794	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
80	10	9934	6479	7642	0
80	12	11717	7775	9374	0
80	14	13493	9071	11112	0
80	16	15266	10367	12855	0
80	18	17035	11663	14601	0
80	20	18802	12959	16349	0
80	22	20567	14255	18099	0
80	24	22331	15551	19850	0
80	26	25570	19130	22924	0
80	28	27440	20602	24784	0
80	30	29310	22073	26645	0
80	32	31179	26105	28506	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
82	10	10182	6641	7833	0
82	12	12010	7970	9608	0
82	14	13831	9298	11390	0
82	16	15647	10626	13177	0
82	18	17461	11955	14966	0
82	20	19272	13283	16758	0
82	22	21081	14611	18551	0
82	24	22889	15940	20346	0
82	26	26209	19609	23498	0
82	28	28126	21117	25404	0
82	30	30042	22625	27311	0
82	32	31958	26758	29219	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
84	10	10431	6803	8024	0
84	12	12303	8164	9842	0
84	14	14168	9525	11668	0
84	16	16029	10886	13498	0
84	18	17886	12246	15331	0
84	20	19742	13607	17167	0
84	22	21595	14968	19004	0
84	24	23448	18344	20842	0
84	26	26848	20087	24071	0
84	28	28812	21632	26024	0
84	30	30775	25697	27977	0
84	32	32738	27410	29932	0



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Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
86	10	10679	6965	8215	0
86	12	12596	8359	10077	0
86	14	14505	9752	11946	0
86	16	16410	11145	13819	0
86	18	18312	12538	15696	0
86	20	20212	13931	17575	0
86	22	22110	15324	19456	0
86	24	24006	18781	21339	0
86	26	27487	20565	24644	0
86	28	29498	22147	26643	0
86	30	31508	26309	28643	0
86	32	33517	28063	30644	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
88	10	10927	7127	8406	0
88	12	12889	8553	10311	0
88	14	14843	9978	12223	0
88	16	16792	11404	14141	0
88	18	18738	12829	16061	0
88	20	20682	14255	17984	0
88	22	22624	15680	19909	0
88	24	24564	19218	21835	0
88	26	28126	21043	25217	0
88	28	30184	22662	27263	0
88	30	32240	26921	29310	0
88	32	34297	28716	31357	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
90	10	11176	7289	8597	0
90	12	13182	8747	10545	0
90	14	15180	10205	12501	0
90	16	17174	11663	14462	0
90	18	19164	13121	16426	0
90	20	21152	14579	18393	0
90	22	23138	16037	20361	0
90	24	25123	19655	22331	0
90	26	28766	21522	25790	0
90	28	30870	25697	27882	0
90	30	32973	27533	29976	0
90	32	35076	29368	32069	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
92	10	11424	7451	8788	0
92	12	13475	8942	10780	0
92	14	15517	10432	12779	0
92	16	17555	11922	14783	0
92	18	19590	13413	16791	0
92	20	21622	14903	18802	0
92	22	23652	18417	20814	0
92	24	25681	20091	22827	0
92	26	29405	22000	26363	0
92	28	31556	26268	28502	0
92	30	33706	28144	30642	0
92	32	35855	30021	32782	0

HIGHER POWER HYDRAULIC DOORS  
UNFACTORED DOOR JAMB REACTIONS - 145 mph - ASCE 7-22 / IBC-24

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
94	10	11672	7613	8979	0
94	12	13767	9136	11014	0
94	14	15855	10659	13057	0
94	16	17937	12181	15105	0
94	18	20016	13704	17156	0
94	20	22092	15227	19210	0
94	22	24166	18817	21266	0
94	24	26239	20528	23324	0
94	26	30044	22478	26936	0
94	28	32242	26839	29122	0
94	30	34439	28756	31308	0
94	32	36635	33681	33495	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
96	10	11921	7775	9170	0
96	12	14060	9330	11248	0
96	14	16192	10886	13335	0
96	16	18319	12441	15426	0
96	18	20442	13996	17521	0
96	20	22562	15551	19619	0
96	22	24680	19218	21719	0
96	24	26797	20965	23820	0
96	26	30683	22956	27509	0
96	28	32928	27410	29741	0
96	30	35171	29368	31974	0
96	32	37414	34398	34207	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
98	10	12169	7937	9361	0
98	12	14353	9525	11483	0
98	14	16529	11112	13612	0
98	16	18700	12700	15748	0
98	18	20867	14287	17886	0
98	20	23032	15875	20028	0
98	22	25195	19618	22171	0
98	24	27356	21402	24316	0
98	26	31323	25983	28082	0
98	28	33614	27981	30361	0
98	30	35904	29980	32640	0
98	32	38194	35115	34920	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
100	10	12417	8099	9552	0
100	12	14646	9719	11717	0
100	14	16867	11339	13890	0
100	16	19082	12959	16069	0
100	18	21293	14579	18251	0
100	20	23502	16199	20437	0
100	22	25709	20019	22624	0
100	24	27914	21838	24812	0
100	26	31962	26513	28656	0
100	28	34300	28552	30980	0
100	30	36637	33592	33306	0
100	32	38973	35831	35633	0

HIGHER POWER HYDRAULIC DOORS  
UNFACTORED DOOR JAMB REACTIONS - 145 mph - ASCE 7-22 / IBC-24

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
105	10	13038	8504	10029	0
105	12	15379	10205	12303	0
105	14	17710	11906	14585	0
105	16	20036	13607	16872	0
105	18	22358	15308	19164	0
105	20	24677	19109	21458	0
105	22	26994	21020	23755	0
105	24	29310	25450	26053	0
105	26	33560	27839	30088	0
105	28	36015	29980	32530	0
105	30	38469	35271	34972	0
105	32	40922	37623	37414	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
110	10	13659	8909	10507	0
110	12	16111	10691	12889	0
110	14	18553	12473	15279	0
110	16	20990	14255	17676	0
110	18	23423	16037	20077	0
110	20	25852	20019	22480	0
110	22	28280	22020	24886	0
110	24	30705	26662	27294	0
110	26	35158	29164	31521	0
110	28	37730	34488	34079	0
110	30	40301	36951	36637	0
110	32	42871	42934	39196	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
115	10	14280	9314	10985	0
115	12	16843	11177	13475	0
115	14	19397	13040	15974	0
115	16	21944	14903	18479	0
115	18	24487	18836	20989	0
115	20	27027	20929	23502	0
115	22	29565	25551	26017	0
115	24	32101	27874	28534	0
115	26	36756	30490	32954	0
115	28	39445	36055	35628	0
115	30	42132	38631	38302	0
115	32	44819	44886	40978	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
120	10	14901	9719	11462	0
120	12	17575	11663	14060	0
120	14	20240	13607	16668	0
120	16	22898	15551	19283	0
120	18	25552	19655	21902	0
120	20	28203	21838	24524	0
120	22	30851	26662	27148	0
120	24	33497	29086	29775	0
120	26	38354	34936	34387	0
120	28	41160	37623	37177	0
120	30	43964	43910	39968	0
120	32	46768	46838	42759	0

HIGHER POWER HYDRAULIC DOORS  
UNFACTORED DOOR JAMB REACTIONS - 145 mph - ASCE 7-22 / IBC-24

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
125	10	15522	10124	11940	0
125	12	18308	12149	14646	0
125	14	21083	14174	17363	0
125	16	23852	16199	20086	0
125	18	26617	20474	22814	0
125	20	29378	25248	25546	0
125	22	32136	27773	28280	0
125	24	34892	33298	31016	0
125	26	39952	36391	35819	0
125	28	42875	42690	38726	0
125	30	45796	45740	41633	0
125	32	48717	52789	44541	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
130	10	16143	10529	12417	0
130	12	19040	12635	15232	0
130	14	21927	14741	18057	0
130	16	24807	18927	20890	0
130	18	27681	21293	23727	0
130	20	30553	26258	26568	0
130	22	33421	28884	29411	0
130	24	36288	34630	32256	0
130	26	41551	37847	37252	0
130	28	44590	44398	40275	0
130	30	47628	47569	43298	0
130	32	50665	54901	46323	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
135	10	16764	10934	12895	0
135	12	19772	13121	15818	0
135	14	22770	15308	18752	0
135	16	25761	19655	21693	0
135	18	28746	22111	24639	0
135	20	31728	27268	27589	0
135	22	34707	29995	30542	0
135	24	37684	35962	33497	0
135	26	43149	42812	38685	0
135	28	46305	46106	41824	0
135	30	49460	53449	44963	0
135	32	52614	57012	48104	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
140	10	17384	11339	13373	0
140	12	20505	13607	16404	0
140	14	23613	15875	19446	0
140	16	26715	20383	22497	0
140	18	29811	25450	25552	0
140	20	32903	28278	28611	0
140	22	35992	34186	31673	0
140	24	39080	37294	34737	0
140	26	44747	44398	40118	0
140	28	48020	47813	43373	0
140	30	51292	55429	46629	0
140	32	54563	59124	49886	0

HIGHER POWER HYDRAULIC DOORS  
UNFACTORED DOOR JAMB REACTIONS - 145 mph - ASCE 7-22 / IBC-24

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
145	10	18005	11744	13850	0
145	12	21237	14093	16990	0
145	14	24457	18472	20141	0
145	16	27669	21111	23300	0
145	18	30875	26359	26465	0
145	20	34078	29288	29633	0
145	22	37278	35407	32804	0
145	24	40475	38626	35978	0
145	26	46345	45984	41551	0
145	28	49735	53581	44922	0
145	30	53124	57408	48294	0
145	32	56511	65875	51668	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
150	10	18626	12149	14328	0
150	12	21969	14579	17575	0
150	14	25300	19109	20835	0
150	16	28623	21838	24104	0
150	18	31940	27268	27377	0
150	20	35253	33298	30655	0
150	22	38563	36628	33936	0
150	24	41871	43558	37219	0
150	26	47943	47569	42983	0
150	28	51450	55429	46471	0
150	30	54955	63888	49959	0
150	32	58460	68147	53449	0