

HIGHER POWER HYDRAULIC DOORS
UNFACTORED DOOR JAMB REACTIONS - 135 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
12.0	$h \leq 24$ ft	135	38.1	50	7.2	50	3.2	-5.9
	24 ft < $h \leq 32$ ft		40.4		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	3229	2280	2484	0
30	12	3809	2736	3047	0
30	14	4386	3192	3612	0
30	16	4962	3648	4179	0
30	18	5537	4104	4746	0
30	20	6112	4560	5314	0
30	22	6686	5016	5883	0
30	24	7259	5472	6452	0
30	26	8312	6004	7452	0
30	28	8920	6466	8056	0
30	30	9527	6928	8661	0
30	32	10135	7389	9266	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
32	10	3444	2432	2650	0
32	12	4063	2918	3250	0
32	14	4679	3405	3853	0
32	16	5293	3891	4457	0
32	18	5906	4377	5063	0
32	20	6519	4864	5669	0
32	22	7131	5350	6275	0
32	24	7743	5836	6883	0
32	26	8866	6404	7949	0
32	28	9514	6897	8593	0
32	30	10162	7389	9239	0
32	32	10811	7882	9884	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
34	10	3660	2584	2815	0
34	12	4317	3101	3453	0
34	14	4971	3617	4094	0
34	16	5624	4134	4736	0
34	18	6276	4651	5379	0
34	20	6927	5168	6023	0
34	22	7577	5684	6668	0
34	24	8227	6201	7313	0
34	26	9420	6804	8445	0
34	28	10109	7328	9131	0
34	30	10798	7851	9816	0
34	32	11486	8375	10502	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
36	10	3875	2736	2981	0
36	12	4570	3283	3656	0
36	14	5263	3830	4335	0
36	16	5955	4377	5014	0
36	18	6645	4924	5695	0
36	20	7334	5472	6377	0
36	22	8023	6019	7060	0
36	24	8711	6566	7743	0
36	26	9974	7205	8942	0
36	28	10704	7759	9668	0
36	30	11433	8313	10393	0
36	32	12162	8867	11119	0

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Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
38	10	4090	2888	3146	0
38	12	4824	3465	3859	0
38	14	5556	4043	4575	0
38	16	6285	4620	5293	0
38	18	7014	5198	6012	0
38	20	7741	5776	6732	0
38	22	8468	6353	7452	0
38	24	9195	6931	8173	0
38	26	10528	7605	9439	0
38	28	11298	8190	10205	0
38	30	12068	8775	10971	0
38	32	12838	9360	11737	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
40	10	4306	3040	3312	0
40	12	5078	3648	4063	0
40	14	5848	4256	4816	0
40	16	6616	4864	5572	0
40	18	7383	5472	6328	0
40	20	8149	6079	7086	0
40	22	8914	6687	7844	0
40	24	9679	7295	8603	0
40	26	11082	8005	9936	0
40	28	11893	8621	10742	0
40	30	12703	9237	11548	0
40	32	13513	9853	12355	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
42	10	4521	3192	3478	0
42	12	5332	3830	4266	0
42	14	6141	4468	5057	0
42	16	6947	5107	5850	0
42	18	7752	5745	6645	0
42	20	8556	6383	7440	0
42	22	9360	7022	8237	0
42	24	10163	7660	9033	0
42	26	11636	8405	10433	0
42	28	12487	9052	11279	0
42	30	13338	9699	12126	0
42	32	14189	10345	12973	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
44	10	4736	3344	3643	0
44	12	5586	4012	4469	0
44	14	6433	4681	5298	0
44	16	7278	5350	6129	0
44	18	8121	6019	6961	0
44	20	8964	6687	7795	0
44	22	9805	7356	8629	0
44	24	10646	8025	9464	0
44	26	12190	8806	10929	0
44	28	13082	9483	11816	0
44	30	13973	10160	12703	0
44	32	14865	10838	13590	0

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Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
46	10	4951	3496	3809	0
46	12	5840	4195	4672	0
46	14	6725	4894	5539	0
46	16	7609	5593	6407	0
46	18	8491	6292	7278	0
46	20	9371	6991	8149	0
46	22	10251	7691	9021	0
46	24	11130	8390	9894	0
46	26	12744	9206	11426	0
46	28	13677	9914	12353	0
46	30	14609	10622	13281	0
46	32	15540	11330	14208	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
48	10	5167	3648	3974	0
48	12	6094	4377	4875	0
48	14	7018	5107	5779	0
48	16	7940	5836	6686	0
48	18	8860	6566	7594	0
48	20	9779	7295	8503	0
48	22	10697	8025	9413	0
48	24	11614	8754	10324	0
48	26	13299	9606	11923	0
48	28	14271	10345	12890	0
48	30	15244	11084	13858	0
48	32	16216	11823	14826	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
50	10	5382	3800	4140	0
50	12	6348	4560	5078	0
50	14	7310	5320	6020	0
50	16	8270	6079	6965	0
50	18	9229	6839	7910	0
50	20	10186	7599	8857	0
50	22	11143	8359	9805	0
50	24	12098	9119	10754	0
50	26	13853	10006	12420	0
50	28	14866	10776	13427	0
50	30	15879	11546	14435	0
50	32	16892	12316	15444	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
52	10	5597	3952	4306	0
52	12	6602	4742	5281	0
52	14	7603	5532	6261	0
52	16	8601	6323	7243	0
52	18	9598	7113	8227	0
52	20	10594	7903	9212	0
52	22	11588	8694	10198	0
52	24	12582	9484	11184	0
52	26	14407	10407	12916	0
52	28	15461	11207	13964	0
52	30	16514	12008	15013	0
52	32	17567	12808	16061	0

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Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
54	10	5812	4104	4471	0
54	12	6856	4924	5485	0
54	14	7895	5745	6502	0
54	16	8932	6566	7522	0
54	18	9967	7387	8543	0
54	20	11001	8207	9566	0
54	22	12034	9028	10590	0
54	24	13066	9849	11614	0
54	26	14961	10807	13413	0
54	28	16055	11638	14502	0
54	30	17149	12470	15590	0
54	32	18243	13301	16679	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
56	10	6028	4256	4637	0
56	12	7110	5107	5688	0
56	14	8188	5958	6743	0
56	16	9263	6809	7800	0
56	18	10336	7660	8860	0
56	20	11408	8511	9920	0
56	22	12480	9362	10982	0
56	24	13550	10214	12045	0
56	26	15515	11207	13910	0
56	28	16650	12069	15039	0
56	30	17784	12931	16168	0
56	32	18919	13794	17297	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
58	10	6243	4408	4802	0
58	12	7364	5289	5891	0
58	14	8480	6171	6983	0
58	16	9594	7052	8079	0
58	18	10705	7934	9176	0
58	20	11816	8815	10275	0
58	22	12925	9697	11374	0
58	24	14034	10578	12475	0
58	26	16069	11607	14407	0
58	28	17245	12500	15576	0
58	30	18420	13393	16745	0
58	32	19594	14286	17915	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
60	10	6458	4560	4968	0
60	12	7617	5472	6094	0
60	14	8772	6383	7224	0
60	16	9924	7295	8357	0
60	18	11075	8207	9492	0
60	20	12223	9119	10629	0
60	22	13371	10031	11767	0
60	24	14518	10943	12905	0
60	26	16623	12008	14904	0
60	28	17839	12931	16113	0
60	30	19055	13855	17322	0
60	32	20270	14779	18532	0

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Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
62	10	6674	4712	5133	0
62	12	7871	5654	6297	0
62	14	9065	6596	7465	0
62	16	10255	7539	8636	0
62	18	11444	8481	9809	0
62	20	12631	9423	10983	0
62	22	13817	10366	12159	0
62	24	15002	11308	13335	0
62	26	17177	12408	15400	0
62	28	18434	13362	16650	0
62	30	19690	14317	17900	0
62	32	20946	15271	19150	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
64	10	6889	4864	5299	0
64	12	8125	5836	6500	0
64	14	9357	6809	7706	0
64	16	10586	7782	8915	0
64	18	11813	8754	10125	0
64	20	13038	9727	11338	0
64	22	14262	10700	12551	0
64	24	15486	11673	13765	0
64	26	17731	12808	15897	0
64	28	19028	13794	17187	0
64	30	20325	14779	18477	0
64	32	21621	17812	19768	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
66	10	7104	5016	5465	0
66	12	8379	6019	6703	0
66	14	9650	7022	7947	0
66	16	10917	8025	9193	0
66	18	12182	9028	10442	0
66	20	13446	10031	11692	0
66	22	14708	11034	12943	0
66	24	15970	12037	14195	0
66	26	18286	13209	16394	0
66	28	19623	14225	17724	0
66	30	20960	15241	19055	0
66	32	22297	18369	20386	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
68	10	7319	5168	5630	0
68	12	8633	6201	6906	0
68	14	9942	7235	8188	0
68	16	11248	8268	9472	0
68	18	12551	9302	10758	0
68	20	13853	10335	12046	0
68	22	15154	11369	13335	0
68	24	16454	12402	14625	0
68	26	18840	13609	16891	0
68	28	20218	14656	18261	0
68	30	21595	17742	19632	0
68	32	22972	18925	21003	0

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Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
70	10	7535	5320	5796	0
70	12	8887	6383	7110	0
70	14	10234	7447	8428	0
70	16	11578	8511	9750	0
70	18	12920	9575	11075	0
70	20	14261	10639	12400	0
70	22	15600	11703	13728	0
70	24	16938	12767	15056	0
70	26	19394	14009	17388	0
70	28	20812	15087	18798	0
70	30	22230	18264	20210	0
70	32	23648	19482	21621	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
72	10	7750	5472	5961	0
72	12	9141	6566	7313	0
72	14	10527	7660	8669	0
72	16	11909	8754	10029	0
72	18	13289	9849	11391	0
72	20	14668	10943	12755	0
72	22	16045	12037	14120	0
72	24	17422	13132	15486	0
72	26	19948	14409	17884	0
72	28	21407	17534	19335	0
72	30	22866	18786	20787	0
72	32	24324	20039	22239	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
74	10	7965	5624	6127	0
74	12	9395	6748	7516	0
74	14	10819	7873	8910	0
74	16	12240	8998	10307	0
74	18	13659	10122	11707	0
74	20	15075	11247	13109	0
74	22	16491	12372	14512	0
74	24	17905	13496	15916	0
74	26	19394	14810	18381	0
74	28	20812	18021	19872	0
74	30	22230	19308	21364	0
74	32	23648	20595	22857	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
76	10	8180	5776	6293	0
76	12	9649	6931	7719	0
76	14	11112	8086	9151	0
76	16	12571	9241	10586	0
76	18	14028	10396	12024	0
76	20	15483	11551	13463	0
76	22	16937	12706	14904	0
76	24	18389	13861	16346	0
76	26	21056	15210	18878	0
76	28	22596	18508	20410	0
76	30	24136	19830	21942	0
76	32	25675	21152	23474	0

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Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
78	10	8396	5928	6458	0
78	12	9903	7113	7922	0
78	14	11404	8299	9392	0
78	16	12902	9484	10865	0
78	18	14397	10670	12340	0
78	20	15890	11855	13818	0
78	22	17382	13041	15296	0
78	24	18873	14226	16776	0
78	26	21610	17638	19375	0
78	28	23191	18995	20947	0
78	30	24771	20352	22519	0
78	32	26351	21708	24092	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
80	10	8611	6079	6624	0
80	12	10157	7295	8125	0
80	14	11696	8511	9632	0
80	16	13233	9727	11143	0
80	18	14766	10943	12657	0
80	20	16298	12159	14172	0
80	22	17828	13375	15689	0
80	24	19357	14591	17206	0
80	26	22164	18090	19871	0
80	28	23786	19482	21484	0
80	30	25406	20873	23097	0
80	32	27026	24825	24710	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
82	10	8826	6231	6789	0
82	12	10410	7478	8328	0
82	14	11989	8724	9873	0
82	16	13563	9970	11422	0
82	18	15135	11217	12973	0
82	20	16705	12463	14526	0
82	22	18274	13709	16081	0
82	24	19841	14956	17637	0
82	26	22718	18543	20368	0
82	28	24380	19969	22021	0
82	30	26041	21395	23674	0
82	32	27702	25446	25328	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
84	10	9042	6383	6955	0
84	12	10664	7660	8532	0
84	14	12281	8937	10114	0
84	16	13894	10214	11700	0
84	18	15504	11490	13289	0
84	20	17113	12767	14881	0
84	22	18719	14044	16473	0
84	24	20325	17336	18067	0
84	26	23273	18995	20865	0
84	28	24975	20456	22558	0
84	30	26677	24437	24251	0
84	32	28378	26066	25945	0

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Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
86	10	9257	6535	7121	0
86	12	10918	7843	8735	0
86	14	12574	9150	10355	0
86	16	14225	10457	11979	0
86	18	15874	11764	13606	0
86	20	17520	13071	15235	0
86	22	19165	14378	16865	0
86	24	20809	17749	18497	0
86	26	23827	19447	21362	0
86	28	25569	20943	23095	0
86	30	27312	25019	24829	0
86	32	29053	26687	26563	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
88	10	9472	6687	7286	0
88	12	11172	8025	8938	0
88	14	12866	9362	10596	0
88	16	14556	10700	12258	0
88	18	16243	12037	13922	0
88	20	17928	13375	15589	0
88	22	19611	14712	17258	0
88	24	21293	18162	18927	0
88	26	24381	19899	21859	0
88	28	26164	21430	23632	0
88	30	27947	25601	25406	0
88	32	29729	27308	27181	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
90	10	9687	6839	7452	0
90	12	11426	8207	9141	0
90	14	13158	9575	10836	0
90	16	14887	10943	12536	0
90	18	16612	12311	14239	0
90	20	18335	13679	15943	0
90	22	20057	15047	17650	0
90	24	21777	18575	19357	0
90	26	24935	20352	22355	0
90	28	26759	24437	24169	0
90	30	28582	26183	25984	0
90	32	30405	27928	27799	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
92	10	9903	6991	7617	0
92	12	11680	8390	9344	0
92	14	13451	9788	11077	0
92	16	15217	11186	12815	0
92	18	16981	12585	14555	0
92	20	18742	13983	16298	0
92	22	20502	17405	18042	0
92	24	22261	18987	19787	0
92	26	25489	20804	22852	0
92	28	27353	24980	24706	0
92	30	29217	26764	26561	0
92	32	31080	28549	28416	0

HIGHER POWER HYDRAULIC DOORS
UNFACTORED DOOR JAMB REACTIONS - 135 mph - ASCE 7-22 / IBC-24

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
94	10	10118	7143	7783	0
94	12	11934	8572	9547	0
94	14	13743	10001	11318	0
94	16	15548	11429	13093	0
94	18	17350	12858	14872	0
94	20	19150	14287	16652	0
94	22	20948	17783	18434	0
94	24	22745	19400	20218	0
94	26	26043	21256	23349	0
94	28	27948	25523	25243	0
94	30	29852	27346	27138	0
94	32	31756	32177	29034	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
96	10	10333	7295	7949	0
96	12	12188	8754	9750	0
96	14	14036	10214	11559	0
96	16	15879	11673	13372	0
96	18	17719	13132	15188	0
96	20	19557	14591	17006	0
96	22	21394	18162	18826	0
96	24	23229	19813	20648	0
96	26	26597	21708	23846	0
96	28	28543	26066	25780	0
96	30	30487	27928	27716	0
96	32	32432	32862	29652	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
98	10	10548	7447	8114	0
98	12	12442	8937	9953	0
98	14	14328	10426	11800	0
98	16	16210	11916	13650	0
98	18	18088	13405	15504	0
98	20	19965	14895	17361	0
98	22	21839	18540	19219	0
98	24	23713	20226	21078	0
98	26	27151	24709	24343	0
98	28	29137	26609	26318	0
98	30	31123	28510	28293	0
98	32	33107	33547	30270	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
100	10	10764	7599	8280	0
100	12	12696	9119	10157	0
100	14	14621	10639	12040	0
100	16	16541	12159	13929	0
100	18	18458	13679	15821	0
100	20	20372	15199	17715	0
100	22	22285	18919	19611	0
100	24	24197	20638	21508	0
100	26	27705	25213	24839	0
100	28	29732	27152	26855	0
100	30	31758	32092	28871	0
100	32	33783	34231	30887	0

HIGHER POWER HYDRAULIC DOORS
UNFACTORED DOOR JAMB REACTIONS - 135 mph - ASCE 7-22 / IBC-24

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
105	10	11302	7979	8694	0
105	12	13331	9575	10664	0
105	14	15352	11171	12642	0
105	16	17368	12767	14625	0
105	18	19381	14363	16612	0
105	20	21391	18059	18601	0
105	22	23399	19865	20591	0
105	24	25406	24190	22583	0
105	26	29091	26474	26081	0
105	28	31219	28510	28197	0
105	30	33346	33696	30314	0
105	32	35472	35943	32432	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
110	10	11840	8359	9108	0
110	12	13965	10031	11172	0
110	14	16083	11703	13245	0
110	16	18195	13375	15322	0
110	18	20303	15047	17403	0
110	20	22409	18919	19486	0
110	22	24514	20810	21572	0
110	24	26616	25342	23659	0
110	26	30476	27734	27323	0
110	28	32705	32948	29540	0
110	30	34934	35301	31758	0
110	32	37161	41174	33976	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
115	10	12378	8739	9522	0
115	12	14600	10487	11680	0
115	14	16814	12235	13847	0
115	16	19022	13983	16018	0
115	18	21226	17801	18194	0
115	20	23428	19779	20372	0
115	22	25628	24286	22552	0
115	24	27826	26494	24734	0
115	26	31861	28995	28565	0
115	28	34192	34445	30883	0
115	30	36521	36906	33201	0
115	32	38851	43046	35520	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
120	10	12917	9119	9936	0
120	12	15235	10943	12188	0
120	14	17545	12767	14449	0
120	16	19849	14591	16715	0
120	18	22149	18575	18985	0
120	20	24447	20638	21258	0
120	22	26742	25342	23533	0
120	24	29036	27646	25810	0
120	26	33246	33376	29807	0
120	28	35678	35943	32226	0
120	30	38109	42110	34645	0
120	32	40540	44918	37065	0

HIGHER POWER HYDRAULIC DOORS
UNFACTORED DOOR JAMB REACTIONS - 135 mph - ASCE 7-22 / IBC-24

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
125	10	13455	9499	10350	0
125	12	15870	11399	12696	0
125	14	18276	13299	15051	0
125	16	20676	15199	17411	0
125	18	23072	19349	19776	0
125	20	25465	23998	22144	0
125	22	27856	26398	24514	0
125	24	30246	31798	26885	0
125	26	34632	34766	31049	0
125	28	37165	40940	33568	0
125	30	39697	43865	36088	0
125	32	42229	50789	38609	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
130	10	13993	9879	10764	0
130	12	16504	11855	13204	0
130	14	19007	13831	15653	0
130	16	21503	17887	18108	0
130	18	23995	20123	20567	0
130	20	26484	24958	23029	0
130	22	28971	27454	25494	0
130	24	31456	33070	27960	0
130	26	36017	36157	32291	0
130	28	38652	42578	34911	0
130	30	41285	45619	37532	0
130	32	43918	52821	40154	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
135	10	14531	10259	11178	0
135	12	17139	12311	13711	0
135	14	19738	14363	16255	0
135	16	22330	18575	18804	0
135	18	24918	20896	21358	0
135	20	27502	25918	23915	0
135	22	30085	28510	26475	0
135	24	32665	34342	29036	0
135	26	37402	41057	33533	0
135	28	40138	44216	36254	0
135	30	42873	51424	38975	0
135	32	45607	54852	41698	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
140	10	15069	10639	11592	0
140	12	17774	12767	14219	0
140	14	20469	14895	16857	0
140	16	23157	19263	19501	0
140	18	25841	24190	22149	0
140	20	28521	26878	24801	0
140	22	31199	32646	27455	0
140	24	33875	35614	30111	0
140	26	38788	42578	34775	0
140	28	41625	45853	37597	0
140	30	44461	53329	40419	0
140	32	47296	56884	43242	0

HIGHER POWER HYDRAULIC DOORS
UNFACTORED DOOR JAMB REACTIONS - 135 mph - ASCE 7-22 / IBC-24

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
145	10	15607	11019	12006	0
145	12	18409	13223	14727	0
145	14	21200	17457	17459	0
145	16	23984	19951	20197	0
145	18	26764	25054	22940	0
145	20	29540	27838	25687	0
145	22	32313	33812	28436	0
145	24	35085	36886	31187	0
145	26	40173	44099	36017	0
145	28	43111	51551	38939	0
145	30	46049	55233	41863	0
145	32	48985	63555	44787	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
150	10	16146	11399	12420	0
150	12	19044	13679	15235	0
150	14	21931	18059	18061	0
150	16	24811	20638	20894	0
150	18	27686	25918	23731	0
150	20	30558	31798	26572	0
150	22	33428	34978	29416	0
150	24	36295	41758	32262	0
150	26	41558	45619	37259	0
150	28	44598	53329	40282	0
150	30	47637	61638	43306	0
150	32	50675	65747	46331	0