

HIGHER POWER HYDRAULIC DOORS
UNFACTORED DOOR JAMB REACTIONS - 115 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	115	27.6	50	7.2	50	3.2	-5.9
	24 ft < $h \leq 32$ ft		29.3		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

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Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
30	10	2343	1980	1802	0
30	12	2764	2376	2211	0
30	14	3183	2772	2621	0
30	16	3601	3168	3032	0
30	18	4018	3564	3444	0
30	20	4435	3960	3856	0
30	22	4851	4356	4269	0
30	24	5267	4752	4682	0
30	26	6031	5224	5407	0
30	28	6473	5626	5846	0
30	30	6914	6028	6285	0
30	32	7354	6429	6724	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
32	10	2499	2112	1923	0
32	12	2948	2534	2358	0
32	14	3395	2957	2796	0
32	16	3841	3379	3234	0
32	18	4286	3801	3674	0
32	20	4731	4224	4114	0
32	22	5175	4646	4554	0
32	24	5619	5068	4994	0
32	26	6433	5572	5768	0
32	28	6904	6001	6236	0
32	30	7374	6429	6704	0
32	32	7845	6858	7172	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
34	10	2656	2244	2043	0
34	12	3132	2693	2506	0
34	14	3607	3141	2971	0
34	16	4081	3590	3437	0
34	18	4554	4039	3903	0
34	20	5026	4488	4371	0
34	22	5498	4936	4838	0
34	24	5970	5385	5306	0
34	26	6836	5920	6128	0
34	28	7336	6376	6626	0
34	30	7835	6831	7123	0
34	32	8335	7287	7621	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
36	10	2812	2376	2163	0
36	12	3317	2851	2653	0
36	14	3819	3326	3145	0
36	16	4321	3801	3639	0
36	18	4822	4276	4133	0
36	20	5322	4752	4628	0
36	22	5822	5227	5123	0
36	24	6321	5702	5619	0
36	26	7238	6269	6489	0
36	28	7767	6751	7015	0
36	30	8296	7233	7542	0
36	32	8825	7715	8069	0

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Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
38	10	2968	2508	2283	0
38	12	3501	3009	2801	0
38	14	4032	3511	3320	0
38	16	4561	4012	3841	0
38	18	5090	4514	4363	0
38	20	5618	5016	4885	0
38	22	6145	5517	5408	0
38	24	6672	6019	5931	0
38	26	7640	6617	6849	0
38	28	8199	7126	7405	0
38	30	8757	7635	7961	0
38	32	9316	8144	8517	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
40	10	3124	2640	2403	0
40	12	3685	3168	2948	0
40	14	4244	3696	3495	0
40	16	4801	4224	4043	0
40	18	5358	4752	4592	0
40	20	5913	5279	5142	0
40	22	6468	5807	5692	0
40	24	7023	6335	6243	0
40	26	8042	6965	7210	0
40	28	8630	7501	7795	0
40	30	9218	8037	8380	0
40	32	9806	8573	8965	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
42	10	3281	2772	2523	0
42	12	3869	3326	3095	0
42	14	4456	3880	3670	0
42	16	5041	4435	4245	0
42	18	5625	4989	4822	0
42	20	6209	5543	5399	0
42	22	6792	6098	5977	0
42	24	7374	6652	6555	0
42	26	8444	7313	7570	0
42	28	9062	7876	8185	0
42	30	9679	8439	8799	0
42	32	10296	9001	9414	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
44	10	3437	2904	2644	0
44	12	4054	3484	3243	0
44	14	4668	4065	3844	0
44	16	5281	4646	4447	0
44	18	5893	5227	5051	0
44	20	6505	5807	5656	0
44	22	7115	6388	6261	0
44	24	7726	6969	6867	0
44	26	8846	7662	7931	0
44	28	9493	8251	8574	0
44	30	10140	8840	9218	0
44	32	10786	9430	9862	0

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Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
46	10	3593	3036	2764	0
46	12	4238	3643	3390	0
46	14	4880	4250	4019	0
46	16	5521	4857	4650	0
46	18	6161	5464	5281	0
46	20	6800	6071	5913	0
46	22	7439	6679	6546	0
46	24	8077	7286	7179	0
46	26	9248	8010	8291	0
46	28	9925	8626	8964	0
46	30	10601	9242	9637	0
46	32	11277	9858	10310	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
48	10	3749	3168	2884	0
48	12	4422	3801	3538	0
48	14	5093	4435	4194	0
48	16	5761	5068	4852	0
48	18	6429	5702	5511	0
48	20	7096	6335	6170	0
48	22	7762	6969	6831	0
48	24	8428	7602	7492	0
48	26	9650	8358	8652	0
48	28	10356	9001	9354	0
48	30	11062	9644	10056	0
48	32	11767	10287	10758	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
50	10	3905	3300	3004	0
50	12	4606	3960	3685	0
50	14	5305	4620	4369	0
50	16	6001	5279	5054	0
50	18	6697	5939	5740	0
50	20	7392	6599	6427	0
50	22	8086	7259	7115	0
50	24	8779	7919	7804	0
50	26	10052	8706	9012	0
50	28	10788	9376	9744	0
50	30	11523	10046	10475	0
50	32	12257	10716	11207	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
52	10	4062	3432	3124	0
52	12	4791	4118	3832	0
52	14	5517	4804	4543	0
52	16	6241	5491	5256	0
52	18	6965	6177	5970	0
52	20	7687	6863	6685	0
52	22	8409	7550	7400	0
52	24	9130	8236	8116	0
52	26	10454	9055	9373	0
52	28	11219	9751	10133	0
52	30	11983	10448	10894	0
52	32	12748	11144	11655	0

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Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
54	10	4218	3564	3244	0
54	12	4975	4276	3980	0
54	14	5729	4989	4718	0
54	16	6482	5702	5458	0
54	18	7233	6415	6199	0
54	20	7983	7127	6942	0
54	22	8732	7840	7685	0
54	24	9481	8553	8428	0
54	26	10856	9403	9733	0
54	28	11651	10126	10523	0
54	30	12444	10850	11313	0
54	32	13238	11573	12103	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
56	10	4374	3696	3365	0
56	12	5159	4435	4127	0
56	14	5941	5174	4893	0
56	16	6722	5913	5660	0
56	18	7501	6652	6429	0
56	20	8279	7391	7199	0
56	22	9056	8130	7969	0
56	24	9833	8870	8740	0
56	26	11259	9751	10094	0
56	28	12082	10501	10913	0
56	30	12905	11251	11732	0
56	32	13728	12002	12552	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
58	10	4530	3828	3485	0
58	12	5343	4593	4275	0
58	14	6153	5359	5068	0
58	16	6962	6124	5862	0
58	18	7768	6890	6659	0
58	20	8574	7655	7456	0
58	22	9379	8421	8254	0
58	24	10184	9186	9052	0
58	26	11661	10099	10454	0
58	28	12514	10876	11303	0
58	30	13366	11653	12151	0
58	32	14219	12430	13000	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
60	10	4686	3960	3605	0
60	12	5528	4752	4422	0
60	14	6366	5543	5242	0
60	16	7202	6335	6065	0
60	18	8036	7127	6888	0
60	20	8870	7919	7713	0
60	22	9703	8711	8538	0
60	24	10535	9503	9364	0
60	26	12063	10448	10815	0
60	28	12945	11251	11692	0
60	30	13827	12055	12570	0
60	32	14709	12859	13448	0

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Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
62	10	4843	4092	3725	0
62	12	5712	4910	4569	0
62	14	6578	5728	5417	0
62	16	7442	6547	6267	0
62	18	8304	7365	7118	0
62	20	9166	8183	7970	0
62	22	10026	9002	8823	0
62	24	10886	9820	9677	0
62	26	12465	10796	11175	0
62	28	13377	11626	12082	0
62	30	14288	12457	12989	0
62	32	15199	13287	13896	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
64	10	4999	4224	3845	0
64	12	5896	5068	4717	0
64	14	6790	5913	5592	0
64	16	7682	6758	6469	0
64	18	8572	7602	7347	0
64	20	9461	8447	8227	0
64	22	10350	9292	9108	0
64	24	11237	10137	9989	0
64	26	12867	11144	11536	0
64	28	13808	12002	12472	0
64	30	14749	12859	13408	0
64	32	15689	13716	14345	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
66	10	5155	4356	3965	0
66	12	6080	5227	4864	0
66	14	7002	6098	5767	0
66	16	7922	6969	6671	0
66	18	8840	7840	7577	0
66	20	9757	8711	8484	0
66	22	10673	9582	9392	0
66	24	11588	10453	10301	0
66	26	13269	11493	11896	0
66	28	14240	12377	12862	0
66	30	15210	13261	13827	0
66	32	16180	14145	14793	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
68	10	5311	4488	4086	0
68	12	6265	5385	5012	0
68	14	7214	6283	5941	0
68	16	8162	7180	6873	0
68	18	9108	8078	7807	0
68	20	10053	8975	8741	0
68	22	10996	9873	9677	0
68	24	11940	10770	10613	0
68	26	13671	11841	12257	0
68	28	14671	12752	13251	0
68	30	15671	13662	14246	0
68	32	16670	14573	15241	0

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Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
70	10	5468	4620	4206	0
70	12	6449	5543	5159	0
70	14	7427	6467	6116	0
70	16	8402	7391	7075	0
70	18	9376	8315	8036	0
70	20	10348	9239	8998	0
70	22	11320	10163	9961	0
70	24	12291	11087	10925	0
70	26	14073	12189	12617	0
70	28	15103	13127	13641	0
70	30	16132	14064	14665	0
70	32	17160	15002	15689	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
72	10	5624	4752	4326	0
72	12	6633	5702	5306	0
72	14	7639	6652	6291	0
72	16	8642	7602	7277	0
72	18	9644	8553	8266	0
72	20	10644	9503	9256	0
72	22	11643	10453	10246	0
72	24	12642	11404	11237	0
72	26	14475	12537	12978	0
72	28	15534	13502	14031	0
72	30	16592	14466	15084	0
72	32	17651	15431	16138	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
74	10	5780	4884	4446	0
74	12	6817	5860	5454	0
74	14	7851	6837	6466	0
74	16	8882	7814	7480	0
74	18	9911	8790	8495	0
74	20	10940	9767	9513	0
74	22	11967	10744	10531	0
74	24	12993	11720	11549	0
74	26	14073	12886	13338	0
74	28	15103	13877	14420	0
74	30	16132	14868	15503	0
74	32	17160	15859	16586	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
76	10	5936	5016	4566	0
76	12	7002	6019	5601	0
76	14	8063	7022	6640	0
76	16	9122	8025	7682	0
76	18	10179	9028	8725	0
76	20	11235	10031	9770	0
76	22	12290	11034	10815	0
76	24	13344	12037	11862	0
76	26	15279	13234	13699	0
76	28	16397	14252	14810	0
76	30	17514	15270	15922	0
76	32	18631	16288	17034	0

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Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
78	10	6092	5148	4686	0
78	12	7186	6177	5749	0
78	14	8275	7207	6815	0
78	16	9362	8236	7884	0
78	18	10447	9266	8955	0
78	20	11531	10295	10027	0
78	22	12614	11325	11100	0
78	24	13695	12354	12174	0
78	26	15681	13582	14059	0
78	28	16829	14627	15200	0
78	30	17975	15672	16341	0
78	32	19121	16716	17483	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
80	10	6249	5279	4807	0
80	12	7370	6335	5896	0
80	14	8488	7391	6990	0
80	16	9602	8447	8086	0
80	18	10715	9503	9184	0
80	20	11826	10559	10284	0
80	22	12937	11615	11385	0
80	24	14047	12671	12486	0
80	26	16084	13930	14420	0
80	28	17260	15002	15590	0
80	30	18436	16073	16760	0
80	32	19612	17145	17931	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
82	10	6405	5411	4927	0
82	12	7554	6494	6044	0
82	14	8700	7576	7164	0
82	16	9842	8658	8288	0
82	18	10983	9741	9414	0
82	20	12122	10823	10541	0
82	22	13260	11905	11669	0
82	24	14398	12988	12798	0
82	26	16486	14279	14780	0
82	28	17692	15377	15979	0
82	30	18897	16475	17179	0
82	32	20102	17574	18379	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
84	10	6561	5543	5047	0
84	12	7739	6652	6191	0
84	14	8912	7761	7339	0
84	16	10082	8870	8490	0
84	18	11251	9978	9644	0
84	20	12418	11087	10798	0
84	22	13584	12196	11954	0
84	24	14749	13304	13110	0
84	26	16888	14627	15141	0
84	28	18123	15752	16369	0
84	30	19358	16877	17598	0
84	32	20592	18002	18827	0

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Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
86	10	6717	5675	5167	0
86	12	7923	6811	6338	0
86	14	9124	7946	7514	0
86	16	10322	9081	8693	0
86	18	11519	10216	9873	0
86	20	12713	11351	11055	0
86	22	13907	12486	12238	0
86	24	15100	13621	13422	0
86	26	17290	14975	15501	0
86	28	18555	16127	16759	0
86	30	19819	17279	18017	0
86	32	21083	18431	19276	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
88	10	6873	5807	5287	0
88	12	8107	6969	6486	0
88	14	9336	8130	7689	0
88	16	10562	9292	8895	0
88	18	11787	10453	10103	0
88	20	13009	11615	11312	0
88	22	14231	12776	12523	0
88	24	15451	13938	13734	0
88	26	17692	15323	15862	0
88	28	18986	16502	17149	0
88	30	20280	17681	18436	0
88	32	21573	18860	19724	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
90	10	7030	5939	5407	0
90	12	8291	7127	6633	0
90	14	9548	8315	7863	0
90	16	10803	9503	9097	0
90	18	12054	10691	10332	0
90	20	13305	11879	11569	0
90	22	14554	13067	12808	0
90	24	15802	14255	14047	0
90	26	18094	15672	16222	0
90	28	19418	16877	17538	0
90	30	20741	18083	18855	0
90	32	22063	19288	20172	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
92	10	7186	6071	5528	0
92	12	8476	7286	6781	0
92	14	9761	8500	8038	0
92	16	11043	9714	9299	0
92	18	12322	10929	10562	0
92	20	13600	12143	11826	0
92	22	14877	13357	13092	0
92	24	16154	14571	14359	0
92	26	18496	16020	16583	0
92	28	19849	17252	17928	0
92	30	21201	18484	19274	0
92	32	22554	19717	20620	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	7342	6203	5648	0
94	12	8660	7444	6928	0
94	14	9973	8685	8213	0
94	16	11283	9925	9501	0
94	18	12590	11166	10792	0
94	20	13896	12407	12084	0
94	22	15201	13647	13377	0
94	24	16505	14888	14671	0
94	26	18898	16368	16943	0
94	28	20281	17627	18318	0
94	30	21662	18886	19693	0
94	32	23044	20145	21069	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
96	10	7498	6335	5768	0
96	12	8844	7602	7075	0
96	14	10185	8870	8388	0
96	16	11523	10137	9703	0
96	18	12858	11404	11021	0
96	20	14192	12671	12341	0
96	22	15524	13938	13661	0
96	24	16856	15205	14983	0
96	26	19300	16716	17304	0
96	28	20712	18002	18708	0
96	30	22123	19288	20112	0
96	32	23534	20574	21517	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
98	10	7655	6467	5888	0
98	12	9028	7761	7223	0
98	14	10397	9054	8562	0
98	16	11763	10348	9905	0
98	18	13126	11641	11251	0
98	20	14487	12935	12598	0
98	22	15848	14228	13946	0
98	24	17207	15522	15295	0
98	26	19702	17065	17664	0
98	28	21144	18377	19097	0
98	30	22584	19690	20531	0
98	32	24024	21003	21965	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
100	10	7811	6599	6008	0
100	12	9213	7919	7370	0
100	14	10609	9239	8737	0
100	16	12003	10559	10108	0
100	18	13394	11879	11480	0
100	20	14783	13199	12855	0
100	22	16171	14519	14231	0
100	24	17558	15838	15607	0
100	26	20104	17413	18025	0
100	28	21575	18752	19487	0
100	30	23045	20092	20950	0
100	32	24515	21431	22413	0

HIGHER POWER HYDRAULIC DOORS
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Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
105	10	8201	6929	6309	0
105	12	9673	8315	7739	0
105	14	11140	9701	9174	0
105	16	12603	11087	10613	0
105	18	14063	12473	12054	0
105	20	15522	13859	13498	0
105	22	16980	15245	14942	0
105	24	18436	16630	16388	0
105	26	21110	18284	18926	0
105	28	22654	19690	20461	0
105	30	24197	21096	21998	0
105	32	25740	22503	23534	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
110	10	8592	7259	6609	0
110	12	10134	8711	8107	0
110	14	11670	10163	9611	0
110	16	13203	11615	11118	0
110	18	14733	13067	12628	0
110	20	16261	14519	14140	0
110	22	17788	15970	15654	0
110	24	19314	17422	17168	0
110	26	22115	19154	19827	0
110	28	23733	20628	21436	0
110	30	25350	22101	23045	0
110	32	26966	23574	24655	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
115	10	8982	7589	6910	0
115	12	10595	9107	8476	0
115	14	12201	10625	10048	0
115	16	13803	12143	11624	0
115	18	15403	13661	13202	0
115	20	17001	15179	14783	0
115	22	18597	16696	16365	0
115	24	20192	18214	17948	0
115	26	23120	20025	20728	0
115	28	24811	21565	22410	0
115	30	26502	23106	24093	0
115	32	28192	24646	25775	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
120	10	9373	7919	7210	0
120	12	11055	9503	8844	0
120	14	12731	11087	10485	0
120	16	14403	12671	12129	0
120	18	16073	14255	13776	0
120	20	17740	15838	15426	0
120	22	19405	17422	17077	0
120	24	21070	19006	18729	0
120	26	24125	20896	21630	0
120	28	25890	22503	23385	0
120	30	27654	24110	25140	0
120	32	29418	25718	26896	0

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Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
125	10	9763	8249	7510	0
125	12	11516	9899	9213	0
125	14	13262	11549	10921	0
125	16	15003	13199	12635	0
125	18	16742	14849	14351	0
125	20	18479	16498	16069	0
125	22	20214	18148	17788	0
125	24	21948	19798	19509	0
125	26	25131	21766	22531	0
125	28	26969	23440	24359	0
125	30	28806	25115	26188	0
125	32	30643	26789	28017	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
130	10	10154	8579	7811	0
130	12	11976	10295	9581	0
130	14	13792	12011	11358	0
130	16	15604	13727	13140	0
130	18	17412	15443	14925	0
130	20	19218	17158	16711	0
130	22	21023	18874	18500	0
130	24	22826	20590	20290	0
130	26	26136	22637	23432	0
130	28	28048	24378	25333	0
130	30	29959	26119	27235	0
130	32	31869	27861	29138	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
135	10	10545	8909	8111	0
135	12	12437	10691	9950	0
135	14	14323	12473	11795	0
135	16	16204	14255	13645	0
135	18	18082	16036	15499	0
135	20	19957	17818	17354	0
135	22	21831	19600	19211	0
135	24	23704	21382	21070	0
135	26	27141	23507	24333	0
135	28	29126	25316	26308	0
135	30	31111	27124	28283	0
135	32	33095	28932	30258	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
140	10	10935	9239	8412	0
140	12	12898	11087	10318	0
140	14	14853	12935	12232	0
140	16	16804	14783	14151	0
140	18	18751	16630	16073	0
140	20	20696	18478	17997	0
140	22	22640	20326	19923	0
140	24	24582	22174	21850	0
140	26	28146	24378	25235	0
140	28	30205	26253	27282	0
140	30	32263	28129	29330	0
140	32	34321	30004	31379	0

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Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
145	10	11326	9569	8712	0
145	12	13358	11483	10687	0
145	14	15384	13397	12669	0
145	16	17404	15311	14656	0
145	18	19421	17224	16647	0
145	20	21436	19138	18640	0
145	22	23448	21052	20634	0
145	24	25459	22966	22631	0
145	26	29151	25249	26136	0
145	28	31284	27191	28256	0
145	30	33415	29133	30378	0
145	32	35546	31075	32500	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
150	10	11716	9899	9012	0
150	12	13819	11879	11055	0
150	14	15914	13859	13106	0
150	16	18004	15838	15161	0
150	18	20091	17818	17221	0
150	20	22175	19798	19282	0
150	22	24257	21778	21346	0
150	24	26337	23758	23411	0
150	26	30157	26119	27037	0
150	28	32363	28129	29231	0
150	30	34568	30138	31425	0
150	32	36772	32147	33620	0