

HIGHER POWER HYDRAULIC DOORS  
UNFACTORED DOOR JAMB REACTIONS - 190 mph - ASCE 7-16

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
10.0	$h \leq 24$ ft	190	75.4	50	7.2	50	3.2	-5.9
	$24$ ft < $h \leq 32$ ft		80.1		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	6396	1980	4920	0
30	12	7544	2376	6035	0
30	14	8688	2772	7155	0
30	16	9829	3168	8277	0
30	18	10968	3564	9401	0
30	20	12106	3960	10527	0
30	22	13243	4356	11654	0
30	24	14379	4752	12781	0
30	26	16464	5224	14760	0
30	28	17668	5626	15958	0
30	30	18872	6028	17156	0
30	32	20075	6429	18354	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
32	10	6823	2112	5248	0
32	12	8047	2534	6438	0
32	14	9267	2957	7632	0
32	16	10484	3379	8829	0
32	18	11699	3801	10028	0
32	20	12913	4224	11229	0
32	22	14125	4646	12430	0
32	24	15337	5068	13633	0
32	26	17561	5572	15745	0
32	28	18846	6001	17022	0
32	30	20130	6429	18300	0
32	32	21414	6858	19578	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
34	10	7249	2244	5576	0
34	12	8550	2693	6840	0
34	14	9847	3141	8109	0
34	16	11140	3590	9381	0
34	18	12431	4039	10655	0
34	20	13720	4488	11931	0
34	22	15008	4936	13207	0
34	24	16296	5385	14485	0
34	26	18659	5920	16729	0
34	28	20024	6376	18086	0
34	30	21388	6831	19444	0
34	32	22752	7287	20802	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
36	10	7675	2376	5904	0
36	12	9053	2851	7243	0
36	14	10426	3326	8586	0
36	16	11795	3801	9933	0
36	18	13162	4276	11282	0
36	20	14527	4752	12632	0
36	22	15891	5227	13984	0
36	24	17254	5702	15337	0
36	26	19756	6269	17713	0
36	28	21201	6751	19150	0
36	30	22646	7233	20587	0
36	32	24090	7715	22025	0

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Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
38	10	8102	2508	6232	0
38	12	9556	3009	7645	0
38	14	11005	3511	9063	0
38	16	12450	4012	10484	0
38	18	13893	4514	11908	0
38	20	15334	5016	13334	0
38	22	16774	5517	14761	0
38	24	18213	6019	16189	0
38	26	20854	6617	18697	0
38	28	22379	7126	20214	0
38	30	23904	7635	21731	0
38	32	25429	8144	23249	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
40	10	8528	2640	6560	0
40	12	10059	3168	8047	0
40	14	11584	3696	9540	0
40	16	13106	4224	11036	0
40	18	14624	4752	12535	0
40	20	16141	5279	14036	0
40	22	17657	5807	15538	0
40	24	19171	6335	17041	0
40	26	21951	6965	19681	0
40	28	23557	7501	21277	0
40	30	25162	8037	22875	0
40	32	26767	8573	24473	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
42	10	8955	2772	6888	0
42	12	10562	3326	8450	0
42	14	12163	3880	10017	0
42	16	13761	4435	11588	0
42	18	15356	4989	13162	0
42	20	16948	5543	14738	0
42	22	18540	6098	16315	0
42	24	20130	6652	17893	0
42	26	23049	7313	20665	0
42	28	24735	7876	22341	0
42	30	26420	8439	24019	0
42	32	28105	9001	25696	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
44	10	9381	2904	7216	0
44	12	11065	3484	8852	0
44	14	12743	4065	10494	0
44	16	14416	4646	12140	0
44	18	16087	5227	13789	0
44	20	17755	5807	15439	0
44	22	19423	6388	17092	0
44	24	21089	6969	18745	0
44	26	24147	7662	21649	0
44	28	25913	8251	23405	0
44	30	27679	8840	25162	0
44	32	29444	9430	26920	0

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Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
46	10	9808	3036	7544	0
46	12	11568	3643	9254	0
46	14	13322	4250	10971	0
46	16	15071	4857	12692	0
46	18	16818	5464	14415	0
46	20	18562	6071	16141	0
46	22	20305	6679	17869	0
46	24	22047	7286	19597	0
46	26	25244	8010	22633	0
46	28	27091	8626	24469	0
46	30	28937	9242	26306	0
46	32	30782	9858	28144	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
48	10	10234	3168	7872	0
48	12	12071	3801	9657	0
48	14	13901	4435	11448	0
48	16	15727	5068	13243	0
48	18	17549	5702	15042	0
48	20	19370	6335	16843	0
48	22	21188	6969	18646	0
48	24	23006	7602	20449	0
48	26	26342	8358	23617	0
48	28	28269	9001	25533	0
48	30	30195	9644	27450	0
48	32	32120	10287	29367	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
50	10	10660	3300	8200	0
50	12	12574	3960	10059	0
50	14	14480	4620	11925	0
50	16	16382	5279	13795	0
50	18	18280	5939	15669	0
50	20	20177	6599	17545	0
50	22	22071	7259	19423	0
50	24	23964	7919	21302	0
50	26	27439	8706	24601	0
50	28	29446	9376	26597	0
50	30	31453	10046	28594	0
50	32	33459	10716	30591	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
52	10	11087	3432	8528	0
52	12	13077	4118	10461	0
52	14	15059	4804	12402	0
52	16	17037	5491	14347	0
52	18	19012	6177	16296	0
52	20	20984	6863	18247	0
52	22	22954	7550	20199	0
52	24	24923	8236	22154	0
52	26	28537	9055	25585	0
52	28	30624	9751	27661	0
52	30	32711	10448	29737	0
52	32	34797	11144	31814	0

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Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
54	10	11513	3564	8856	0
54	12	13580	4276	10864	0
54	14	15639	4989	12879	0
54	16	17692	5702	14899	0
54	18	19743	6415	16922	0
54	20	21791	7127	18948	0
54	22	23837	7840	20976	0
54	24	25881	8553	23006	0
54	26	29635	9403	26569	0
54	28	31802	10126	28725	0
54	30	33969	10850	30881	0
54	32	36135	11573	33038	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
56	10	11940	3696	9184	0
56	12	14083	4435	11266	0
56	14	16218	5174	13356	0
56	16	18348	5913	15451	0
56	18	20474	6652	17549	0
56	20	22598	7391	19650	0
56	22	24720	8130	21753	0
56	24	26840	8870	23858	0
56	26	30732	9751	27553	0
56	28	32980	10501	29788	0
56	30	35227	11251	32025	0
56	32	37474	12002	34262	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
58	10	12366	3828	9512	0
58	12	14586	4593	11668	0
58	14	16797	5359	13833	0
58	16	19003	6124	16003	0
58	18	21205	6890	18176	0
58	20	23405	7655	20352	0
58	22	25602	8421	22530	0
58	24	27798	9186	24710	0
58	26	31830	10099	28537	0
58	28	34158	10876	30852	0
58	30	36485	11653	33168	0
58	32	38812	12430	35485	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
60	10	12792	3960	9840	0
60	12	15089	4752	12071	0
60	14	17376	5543	14310	0
60	16	19658	6335	16554	0
60	18	21936	7127	18803	0
60	20	24212	7919	21054	0
60	22	26485	8711	23307	0
60	24	28757	9503	25562	0
60	26	32927	10448	29521	0
60	28	35336	11251	31916	0
60	30	37743	12055	34312	0
60	32	40150	12859	36709	0

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Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
62	10	13219	4092	10168	0
62	12	15592	4910	12473	0
62	14	17955	5728	14787	0
62	16	20314	6547	17106	0
62	18	22668	7365	19429	0
62	20	25019	8183	21756	0
62	22	27368	9002	24084	0
62	24	29716	9820	26414	0
62	26	34025	10796	30505	0
62	28	36514	11626	32980	0
62	30	39002	12457	35456	0
62	32	41489	13287	37933	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
64	10	13645	4224	10496	0
64	12	16094	5068	12876	0
64	14	18535	5913	15264	0
64	16	20969	6758	17658	0
64	18	23399	7602	20056	0
64	20	25826	8447	22457	0
64	22	28251	9292	24861	0
64	24	30674	10137	27266	0
64	26	35122	11144	31489	0
64	28	37691	12002	34044	0
64	30	40260	12859	36600	0
64	32	42827	13716	39156	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
66	10	14072	4356	10824	0
66	12	16597	5227	13278	0
66	14	19114	6098	15741	0
66	16	21624	6969	18210	0
66	18	24130	7840	20683	0
66	20	26633	8711	23159	0
66	22	29134	9582	25638	0
66	24	31633	10453	28118	0
66	26	36220	11493	32473	0
66	28	38869	12377	35108	0
66	30	41518	13261	37743	0
66	32	44165	14145	40380	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
68	10	14498	4488	11152	0
68	12	17100	5385	13680	0
68	14	19693	6283	16218	0
68	16	22279	7180	18762	0
68	18	24861	8078	21310	0
68	20	27440	8975	23861	0
68	22	30017	9873	26415	0
68	24	32591	10770	28970	0
68	26	37318	11841	33457	0
68	28	40047	12752	36172	0
68	30	42776	13662	38887	0
68	32	45504	14573	41603	0

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Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
70	10	14925	4620	11480	0
70	12	17603	5543	14083	0
70	14	20272	6467	16695	0
70	16	22935	7391	19313	0
70	18	25593	8315	21936	0
70	20	28247	9239	24563	0
70	22	30899	10163	27192	0
70	24	33550	11087	29822	0
70	26	38415	12189	34441	0
70	28	41225	13127	37236	0
70	30	44034	14064	40031	0
70	32	46842	15002	42827	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
72	10	15351	4752	11808	0
72	12	18106	5702	14485	0
72	14	20851	6652	17172	0
72	16	23590	7602	19865	0
72	18	26324	8553	22563	0
72	20	29054	9503	25265	0
72	22	31782	10453	27968	0
72	24	34508	11404	30674	0
72	26	39513	12537	35425	0
72	28	42403	13502	38299	0
72	30	45292	14466	41175	0
72	32	48180	15431	44051	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
74	10	15777	4884	12136	0
74	12	18609	5860	14887	0
74	14	21431	6837	17649	0
74	16	24245	7814	20417	0
74	18	27055	8790	23190	0
74	20	29861	9767	25966	0
74	22	32665	10744	28745	0
74	24	35467	11720	31526	0
74	26	38415	12886	36409	0
74	28	41225	13877	39363	0
74	30	44034	14868	42318	0
74	32	46842	15859	45274	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
76	10	16204	5016	12464	0
76	12	19112	6019	15290	0
76	14	22010	7022	18126	0
76	16	24900	8025	20969	0
76	18	27786	9028	23817	0
76	20	30668	10031	26668	0
76	22	33548	11034	29522	0
76	24	36426	12037	32378	0
76	26	41708	13234	37393	0
76	28	44759	14252	40427	0
76	30	47808	15270	43462	0
76	32	50857	16288	46498	0

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Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
78	10	16630	5148	12792	0
78	12	19615	6177	15692	0
78	14	22589	7207	18603	0
78	16	25556	8236	21521	0
78	18	28517	9266	24443	0
78	20	31475	10295	27370	0
78	22	34431	11325	30299	0
78	24	37384	12354	33230	0
78	26	42805	13582	38377	0
78	28	45936	14627	41491	0
78	30	49066	15672	44606	0
78	32	52196	16716	47722	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
80	10	17057	5279	13121	0
80	12	20118	6335	16094	0
80	14	23168	7391	19080	0
80	16	26211	8447	22072	0
80	18	29249	9503	25070	0
80	20	32283	10559	28072	0
80	22	35314	11615	31076	0
80	24	38343	12671	34082	0
80	26	43903	13930	39361	0
80	28	47114	15002	42555	0
80	30	50325	16073	45750	0
80	32	53534	17145	48945	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
82	10	17483	5411	13449	0
82	12	20621	6494	16497	0
82	14	23747	7576	19557	0
82	16	26866	8658	22624	0
82	18	29980	9741	25697	0
82	20	33090	10823	28774	0
82	22	36197	11905	31853	0
82	24	39301	12988	34934	0
82	26	45001	14279	40345	0
82	28	48292	15377	43619	0
82	30	51583	16475	46893	0
82	32	54872	17574	50169	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
84	10	17909	5543	13777	0
84	12	21124	6652	16899	0
84	14	24327	7761	20034	0
84	16	27522	8870	23176	0
84	18	30711	9978	26324	0
84	20	33897	11087	29475	0
84	22	37079	12196	32630	0
84	24	40260	13304	35787	0
84	26	46098	14627	41329	0
84	28	49470	15752	44683	0
84	30	52841	16877	48037	0
84	32	56211	18002	51393	0

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Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
86	10	18336	5675	14105	0
86	12	21627	6811	17302	0
86	14	24906	7946	20511	0
86	16	28177	9081	23728	0
86	18	31442	10216	26951	0
86	20	34704	11351	30177	0
86	22	37962	12486	33407	0
86	24	41218	13621	36639	0
86	26	47196	14975	42313	0
86	28	50648	16127	45747	0
86	30	54099	17279	49181	0
86	32	57549	18431	52616	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
88	10	18762	5807	14433	0
88	12	22130	6969	17704	0
88	14	25485	8130	20988	0
88	16	28832	9292	24280	0
88	18	32173	10453	27577	0
88	20	35511	11615	30879	0
88	22	38845	12776	34184	0
88	24	42177	13938	37491	0
88	26	48293	15323	43297	0
88	28	51826	16502	46810	0
88	30	55357	17681	50325	0
88	32	58887	18860	53840	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
90	10	19189	5939	14761	0
90	12	22633	7127	18106	0
90	14	26064	8315	21465	0
90	16	29487	9503	24831	0
90	18	32905	10691	28204	0
90	20	36318	11879	31581	0
90	22	39728	13067	34961	0
90	24	43136	14255	38343	0
90	26	49391	15672	44281	0
90	28	53004	16877	47874	0
90	30	56615	18083	51468	0
90	32	60226	19288	55063	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
92	10	19615	6071	15089	0
92	12	23136	7286	18509	0
92	14	26644	8500	21942	0
92	16	30143	9714	25383	0
92	18	33636	10929	28831	0
92	20	37125	12143	32283	0
92	22	40611	13357	35737	0
92	24	44094	14571	39195	0
92	26	50488	16020	45266	0
92	28	54182	17252	48938	0
92	30	57873	18484	52612	0
92	32	61564	19717	56287	0

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Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
94	10	20042	6203	15417	0
94	12	23639	7444	18911	0
94	14	27223	8685	22419	0
94	16	30798	9925	25935	0
94	18	34367	11166	29458	0
94	20	37932	12407	32984	0
94	22	41494	13647	36514	0
94	24	45053	14888	40047	0
94	26	51586	16368	46250	0
94	28	55359	17627	50002	0
94	30	59131	18886	53756	0
94	32	62902	20145	57511	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
96	10	20468	6335	15745	0
96	12	24142	7602	19313	0
96	14	27802	8870	22896	0
96	16	31453	10137	26487	0
96	18	35098	11404	30084	0
96	20	38739	12671	33686	0
96	22	42376	13938	37291	0
96	24	46011	15205	40899	0
96	26	52684	16716	47234	0
96	28	56537	18002	51066	0
96	30	60389	19288	54900	0
96	32	64241	20574	58734	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
98	10	20894	6467	16073	0
98	12	24645	7761	19716	0
98	14	28381	9054	23373	0
98	16	32108	10348	27039	0
98	18	35830	11641	30711	0
98	20	39546	12935	34388	0
98	22	43259	14228	38068	0
98	24	46970	15522	41751	0
98	26	53781	17065	48218	0
98	28	57715	18377	52130	0
98	30	61648	19690	56043	0
98	32	65579	21003	59958	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
100	10	21321	6599	16401	0
100	12	25148	7919	20118	0
100	14	28960	9239	23850	0
100	16	32764	10559	27591	0
100	18	36561	11879	31338	0
100	20	40353	13199	35090	0
100	22	44142	14519	38845	0
100	24	47928	15838	42603	0
100	26	54879	17413	49202	0
100	28	58893	18752	53194	0
100	30	62906	20092	57187	0
100	32	66917	21431	61182	0

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Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
105	10	22387	6929	17221	0
105	12	26405	8315	21124	0
105	14	30408	9701	25042	0
105	16	34402	11087	28970	0
105	18	38389	12473	32905	0
105	20	42371	13859	36844	0
105	22	46349	15245	40787	0
105	24	50325	16630	44733	0
105	26	57623	18284	51662	0
105	28	61838	19690	55853	0
105	30	66051	21096	60046	0
105	32	70263	22503	64241	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
110	10	23453	7259	18041	0
110	12	27662	8711	22130	0
110	14	31856	10163	26235	0
110	16	36040	11615	30350	0
110	18	40217	13067	34472	0
110	20	44388	14519	38599	0
110	22	48556	15970	42730	0
110	24	52721	17422	46863	0
110	26	60367	19154	54122	0
110	28	64782	20628	58513	0
110	30	69196	22101	62906	0
110	32	73609	23574	67300	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
115	10	24519	7589	18861	0
115	12	28920	9107	23136	0
115	14	33304	10625	27427	0
115	16	37678	12143	31729	0
115	18	42045	13661	36038	0
115	20	46406	15179	40353	0
115	22	50763	16696	44672	0
115	24	55118	18214	48993	0
115	26	63111	20025	56582	0
115	28	67727	21565	61173	0
115	30	72342	23106	65765	0
115	32	76955	24646	70359	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
120	10	25585	7919	19681	0
120	12	30177	9503	24142	0
120	14	34752	11087	28620	0
120	16	39317	12671	33109	0
120	18	43873	14255	37605	0
120	20	48424	15838	42108	0
120	22	52971	17422	46614	0
120	24	57514	19006	51124	0
120	26	65854	20896	59042	0
120	28	70672	22503	63832	0
120	30	75487	24110	68624	0
120	32	80301	25718	73418	0

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Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
125	10	26651	8249	20501	0
125	12	31435	9899	25148	0
125	14	36200	11549	29812	0
125	16	40955	13199	34488	0
125	18	45701	14849	39172	0
125	20	50441	16498	43862	0
125	22	55178	18148	48556	0
125	24	59911	19798	53254	0
125	26	68598	21766	61502	0
125	28	73616	23440	66492	0
125	30	78632	25115	71484	0
125	32	83647	26789	76477	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
130	10	27717	8579	21321	0
130	12	32692	10295	26154	0
130	14	37648	12011	31005	0
130	16	42593	13727	35868	0
130	18	47529	15443	40739	0
130	20	52459	17158	45617	0
130	22	57385	18874	50499	0
130	24	62307	20590	55384	0
130	26	71342	22637	63962	0
130	28	76561	24378	69152	0
130	30	81777	26119	74343	0
130	32	86993	27861	79536	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
135	10	28783	8909	22141	0
135	12	33949	10691	27159	0
135	14	39096	12473	32197	0
135	16	44231	14255	37247	0
135	18	49357	16036	42306	0
135	20	54477	17818	47371	0
135	22	59592	19600	52441	0
135	24	64703	21382	57514	0
135	26	74086	23507	66422	0
135	28	79505	25316	71811	0
135	30	84923	27124	77202	0
135	32	90338	28932	82595	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
140	10	29849	9239	22961	0
140	12	35207	11087	28165	0
140	14	40544	12935	33390	0
140	16	45869	14783	38627	0
140	18	51185	16630	43873	0
140	20	56494	18478	49126	0
140	22	61799	20326	54383	0
140	24	67100	22174	59644	0
140	26	76830	24378	68882	0
140	28	82450	26253	74471	0
140	30	88068	28129	80062	0
140	32	93684	30004	85654	0

HIGHER POWER HYDRAULIC DOORS  
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Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
145	10	30915	9569	23781	0
145	12	36464	11483	29171	0
145	14	41992	13397	34582	0
145	16	47507	15311	40006	0
145	18	53013	17224	45440	0
145	20	58512	19138	50880	0
145	22	64006	21052	56325	0
145	24	69496	22966	61774	0
145	26	79574	25249	71342	0
145	28	85395	27191	77131	0
145	30	91213	29133	82921	0
145	32	97030	31075	88713	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
150	10	31981	9899	24601	0
150	12	37721	11879	30177	0
150	14	43440	13859	35775	0
150	16	49146	15838	41386	0
150	18	54841	17818	47007	0
150	20	60530	19798	52635	0
150	22	66213	21778	58268	0
150	24	71893	23758	63905	0
150	26	82318	26119	73802	0
150	28	88339	28129	79790	0
150	30	94359	30138	85781	0
150	32	100376	32147	91772	0