

HIGHER POWER HYDRAULIC DOORS
UNFACTORED DOOR JAMB REACTIONS - 150 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	150	47.0	50	7.2	50	3.2	-5.9
	24 ft $< h \leq 32$ ft		49.9		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	3987	1980	3067	0
30	12	4702	2376	3762	0
30	14	5415	2772	4459	0
30	16	6126	3168	5159	0
30	18	6836	3564	5860	0
30	20	7545	3960	6561	0
30	22	8254	4356	7263	0
30	24	8962	4752	7966	0
30	26	10261	5224	9200	0
30	28	11012	5626	9946	0
30	30	11762	6028	10693	0
30	32	12512	6429	11440	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
32	10	4252	2112	3271	0
32	12	5016	2534	4012	0
32	14	5776	2957	4757	0
32	16	6535	3379	5503	0
32	18	7292	3801	6250	0
32	20	8048	4224	6999	0
32	22	8804	4646	7747	0
32	24	9559	5068	8497	0
32	26	10945	5572	9813	0
32	28	11746	6001	10609	0
32	30	12546	6429	11406	0
32	32	13346	6858	12202	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
34	10	4518	2244	3475	0
34	12	5329	2693	4263	0
34	14	6137	3141	5054	0
34	16	6943	3590	5847	0
34	18	7748	4039	6641	0
34	20	8551	4488	7436	0
34	22	9354	4936	8232	0
34	24	10157	5385	9028	0
34	26	11629	5920	10426	0
34	28	12480	6376	11272	0
34	30	13330	6831	12119	0
34	32	14181	7287	12965	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
36	10	4784	2376	3680	0
36	12	5643	2851	4514	0
36	14	6498	3326	5351	0
36	16	7351	3801	6191	0
36	18	8203	4276	7031	0
36	20	9054	4752	7873	0
36	22	9904	5227	8716	0
36	24	10754	5702	9559	0
36	26	12314	6269	11040	0
36	28	13214	6751	11935	0
36	30	14115	7233	12831	0
36	32	15015	7715	13728	0

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Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
38	10	5050	2508	3884	0
38	12	5956	3009	4765	0
38	14	6859	3511	5649	0
38	16	7760	4012	6535	0
38	18	8659	4514	7422	0
38	20	9557	5016	8311	0
38	22	10455	5517	9200	0
38	24	11351	6019	10090	0
38	26	12998	6617	11653	0
38	28	13948	7126	12598	0
38	30	14899	7635	13544	0
38	32	15849	8144	14490	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
40	10	5315	2640	4089	0
40	12	6269	3168	5016	0
40	14	7220	3696	5946	0
40	16	8168	4224	6879	0
40	18	9115	4752	7813	0
40	20	10060	5279	8748	0
40	22	11005	5807	9684	0
40	24	11949	6335	10621	0
40	26	13682	6965	12266	0
40	28	14682	7501	13262	0
40	30	15683	8037	14257	0
40	32	16683	8573	15253	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
42	10	5581	2772	4293	0
42	12	6583	3326	5266	0
42	14	7581	3880	6243	0
42	16	8577	4435	7222	0
42	18	9571	4989	8203	0
42	20	10563	5543	9186	0
42	22	11555	6098	10169	0
42	24	12546	6652	11152	0
42	26	14366	7313	12880	0
42	28	15417	7876	13925	0
42	30	16467	8439	14970	0
42	32	17517	9001	16016	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
44	10	5847	2904	4498	0
44	12	6896	3484	5517	0
44	14	7942	4065	6540	0
44	16	8985	4646	7566	0
44	18	10026	5227	8594	0
44	20	11066	5807	9623	0
44	22	12105	6388	10653	0
44	24	13144	6969	11683	0
44	26	15050	7662	13493	0
44	28	16151	8251	14588	0
44	30	17251	8840	15683	0
44	32	18351	9430	16778	0

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Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
46	10	6113	3036	4702	0
46	12	7210	3643	5768	0
46	14	8303	4250	6838	0
46	16	9393	4857	7910	0
46	18	10482	5464	8985	0
46	20	11569	6071	10060	0
46	22	12656	6679	11137	0
46	24	13741	7286	12214	0
46	26	15734	8010	14106	0
46	28	16885	8626	15251	0
46	30	18035	9242	16396	0
46	32	19185	9858	17541	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
48	10	6379	3168	4907	0
48	12	7523	3801	6019	0
48	14	8664	4435	7135	0
48	16	9802	5068	8254	0
48	18	10938	5702	9375	0
48	20	12072	6335	10498	0
48	22	13206	6969	11621	0
48	24	14339	7602	12746	0
48	26	16418	8358	14720	0
48	28	17619	9001	15914	0
48	30	18819	9644	17109	0
48	32	20020	10287	18304	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
50	10	6644	3300	5111	0
50	12	7837	3960	6269	0
50	14	9025	4620	7432	0
50	16	10210	5279	8598	0
50	18	11394	5939	9766	0
50	20	12575	6599	10935	0
50	22	13756	7259	12105	0
50	24	14936	7919	13277	0
50	26	17102	8706	15333	0
50	28	18353	9376	16577	0
50	30	19604	10046	17821	0
50	32	20854	10716	19066	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
52	10	6910	3432	5315	0
52	12	8150	4118	6520	0
52	14	9386	4804	7730	0
52	16	10619	5491	8942	0
52	18	11849	6177	10157	0
52	20	13078	6863	11373	0
52	22	14306	7550	12590	0
52	24	15534	8236	13808	0
52	26	17786	9055	15946	0
52	28	19087	9751	17240	0
52	30	20388	10448	18534	0
52	32	21688	11144	19829	0

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Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
54	10	7176	3564	5520	0
54	12	8464	4276	6771	0
54	14	9747	4989	8027	0
54	16	11027	5702	9286	0
54	18	12305	6415	10547	0
54	20	13581	7127	11810	0
54	22	14857	7840	13074	0
54	24	16131	8553	14339	0
54	26	18470	9403	16560	0
54	28	19821	10126	17903	0
54	30	21172	10850	19247	0
54	32	22522	11573	20592	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
56	10	7442	3696	5724	0
56	12	8777	4435	7022	0
56	14	10108	5174	8324	0
56	16	11436	5913	9630	0
56	18	12761	6652	10938	0
56	20	14084	7391	12247	0
56	22	15407	8130	13558	0
56	24	16728	8870	14870	0
56	26	19154	9751	17173	0
56	28	20555	10501	18566	0
56	30	21956	11251	19960	0
56	32	23356	12002	21354	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
58	10	7707	3828	5929	0
58	12	9091	4593	7273	0
58	14	10469	5359	8622	0
58	16	11844	6124	9974	0
58	18	13217	6890	11328	0
58	20	14588	7655	12685	0
58	22	15957	8421	14042	0
58	24	17326	9186	15401	0
58	26	19838	10099	17786	0
58	28	21290	10876	19229	0
58	30	22740	11653	20673	0
58	32	24190	12430	22117	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
60	10	7973	3960	6133	0
60	12	9404	4752	7523	0
60	14	10830	5543	8919	0
60	16	12252	6335	10318	0
60	18	13672	7127	11719	0
60	20	15091	7919	13122	0
60	22	16507	8711	14527	0
60	24	17923	9503	15932	0
60	26	20523	10448	18400	0
60	28	22024	11251	19892	0
60	30	23524	12055	21386	0
60	32	25024	12859	22880	0

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Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
62	10	8239	4092	6338	0
62	12	9718	4910	7774	0
62	14	11191	5728	9216	0
62	16	12661	6547	10662	0
62	18	14128	7365	12110	0
62	20	15594	8183	13560	0
62	22	17058	9002	15011	0
62	24	18521	9820	16463	0
62	26	21207	10796	19013	0
62	28	22758	11626	20555	0
62	30	24308	12457	22099	0
62	32	25859	13287	23642	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
64	10	8505	4224	6542	0
64	12	10031	5068	8025	0
64	14	11552	5913	9513	0
64	16	13069	6758	11006	0
64	18	14584	7602	12500	0
64	20	16097	8447	13997	0
64	22	17608	9292	15495	0
64	24	19118	10137	16994	0
64	26	21891	11144	19626	0
64	28	23492	12002	21219	0
64	30	25093	12859	22811	0
64	32	26693	13716	24405	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
66	10	8770	4356	6747	0
66	12	10345	5227	8276	0
66	14	11913	6098	9811	0
66	16	13478	6969	11350	0
66	18	15040	7840	12891	0
66	20	16600	8711	14434	0
66	22	18158	9582	15979	0
66	24	19716	10453	17525	0
66	26	22575	11493	20239	0
66	28	24226	12377	21882	0
66	30	25877	13261	23524	0
66	32	27527	14145	25167	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
68	10	9036	4488	6951	0
68	12	10658	5385	8527	0
68	14	12274	6283	10108	0
68	16	13886	7180	11693	0
68	18	15495	8078	13282	0
68	20	17103	8975	14872	0
68	22	18708	9873	16463	0
68	24	20313	10770	18056	0
68	26	23259	11841	20853	0
68	28	24960	12752	22545	0
68	30	26661	13662	24237	0
68	32	28361	14573	25930	0

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Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
70	10	9302	4620	7155	0
70	12	10972	5543	8777	0
70	14	12635	6467	10405	0
70	16	14294	7391	12037	0
70	18	15951	8315	13672	0
70	20	17606	9239	15309	0
70	22	19259	10163	16948	0
70	24	20911	11087	18587	0
70	26	23943	12189	21466	0
70	28	25694	13127	23208	0
70	30	27445	14064	24950	0
70	32	29195	15002	26693	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
72	10	9568	4752	7360	0
72	12	11285	5702	9028	0
72	14	12996	6652	10703	0
72	16	14703	7602	12381	0
72	18	16407	8553	14063	0
72	20	18109	9503	15747	0
72	22	19809	10453	17432	0
72	24	21508	11404	19118	0
72	26	24627	12537	22079	0
72	28	26428	13502	23871	0
72	30	28229	14466	25663	0
72	32	30029	15431	27455	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
74	10	9834	4884	7564	0
74	12	11599	5860	9279	0
74	14	13357	6837	11000	0
74	16	15111	7814	12725	0
74	18	16863	8790	14454	0
74	20	18612	9767	16184	0
74	22	20359	10744	17916	0
74	24	22105	11720	19649	0
74	26	23943	12886	22693	0
74	28	25694	13877	24534	0
74	30	27445	14868	26376	0
74	32	29195	15859	28218	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
76	10	10099	5016	7769	0
76	12	11912	6019	9530	0
76	14	13718	7022	11297	0
76	16	15520	8025	13069	0
76	18	17318	9028	14844	0
76	20	19115	10031	16621	0
76	22	20909	11034	18400	0
76	24	22703	12037	20180	0
76	26	25995	13234	23306	0
76	28	27897	14252	25197	0
76	30	29797	15270	27089	0
76	32	31698	16288	28981	0

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Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
78	10	10365	5148	7973	0
78	12	12226	6177	9780	0
78	14	14079	7207	11595	0
78	16	15928	8236	13413	0
78	18	17774	9266	15235	0
78	20	19618	10295	17059	0
78	22	21460	11325	18885	0
78	24	23300	12354	20711	0
78	26	26679	13582	23919	0
78	28	28631	14627	25860	0
78	30	30582	15672	27801	0
78	32	32532	16716	29743	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
80	10	10631	5279	8178	0
80	12	12539	6335	10031	0
80	14	14440	7391	11892	0
80	16	16337	8447	13757	0
80	18	18230	9503	15626	0
80	20	20121	10559	17496	0
80	22	22010	11615	19369	0
80	24	23898	12671	21243	0
80	26	27363	13930	24533	0
80	28	29365	15002	26523	0
80	30	31366	16073	28514	0
80	32	33366	17145	30506	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
82	10	10897	5411	8382	0
82	12	12852	6494	10282	0
82	14	14801	7576	12189	0
82	16	16745	8658	14101	0
82	18	18685	9741	16016	0
82	20	20624	10823	17934	0
82	22	22560	11905	19853	0
82	24	24495	12988	21774	0
82	26	28047	14279	25146	0
82	28	30099	15377	27186	0
82	30	32150	16475	29227	0
82	32	34200	17574	31269	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
84	10	11162	5543	8586	0
84	12	13166	6652	10533	0
84	14	15162	7761	12486	0
84	16	17153	8870	14445	0
84	18	19141	9978	16407	0
84	20	21127	11087	18371	0
84	22	23110	12196	20337	0
84	24	25093	13304	22305	0
84	26	28732	14627	25759	0
84	28	30833	15752	27849	0
84	30	32934	16877	29940	0
84	32	35034	18002	32031	0

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Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
86	10	11428	5675	8791	0
86	12	13479	6811	10784	0
86	14	15523	7946	12784	0
86	16	17562	9081	14789	0
86	18	19597	10216	16797	0
86	20	21630	11351	18808	0
86	22	23661	12486	20821	0
86	24	25690	13621	22836	0
86	26	29416	14975	26373	0
86	28	31567	16127	28512	0
86	30	33718	17279	30653	0
86	32	35868	18431	32794	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
88	10	11694	5807	8995	0
88	12	13793	6969	11034	0
88	14	15884	8130	13081	0
88	16	17970	9292	15133	0
88	18	20053	10453	17188	0
88	20	22133	11615	19246	0
88	22	24211	12776	21306	0
88	24	26288	13938	23367	0
88	26	30100	15323	26986	0
88	28	32301	16502	29175	0
88	30	34502	17681	31366	0
88	32	36703	18860	33557	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
90	10	11960	5939	9200	0
90	12	14106	7127	11285	0
90	14	16245	8315	13378	0
90	16	18379	9503	15477	0
90	18	20508	10691	17579	0
90	20	22636	11879	19683	0
90	22	24761	13067	21790	0
90	24	26885	14255	23898	0
90	26	30784	15672	27599	0
90	28	33036	16877	29839	0
90	30	35286	18083	32079	0
90	32	37537	19288	34319	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
92	10	12226	6071	9404	0
92	12	14420	7286	11536	0
92	14	16606	8500	13676	0
92	16	18787	9714	15821	0
92	18	20964	10929	17969	0
92	20	23139	12143	20121	0
92	22	25311	13357	22274	0
92	24	27482	14571	24429	0
92	26	31468	16020	28213	0
92	28	33770	17252	30502	0
92	30	36071	18484	32791	0
92	32	38371	19717	35082	0

HIGHER POWER HYDRAULIC DOORS
UNFACTORED DOOR JAMB REACTIONS - 150 mph - ASCE 7-16

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
94	10	12491	6203	9609	0
94	12	14733	7444	11787	0
94	14	16967	8685	13973	0
94	16	19195	9925	16165	0
94	18	21420	11166	18360	0
94	20	23642	12407	20558	0
94	22	25862	13647	22758	0
94	24	28080	14888	24960	0
94	26	32152	16368	28826	0
94	28	34504	17627	31165	0
94	30	36855	18886	33504	0
94	32	39205	20145	35845	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
96	10	12757	6335	9813	0
96	12	15047	7602	12037	0
96	14	17328	8870	14270	0
96	16	19604	10137	16508	0
96	18	21876	11404	18751	0
96	20	24145	12671	20996	0
96	22	26412	13938	23242	0
96	24	28677	15205	25491	0
96	26	32836	16716	29439	0
96	28	35238	18002	31828	0
96	30	37639	19288	34217	0
96	32	40039	20574	36607	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
98	10	13023	6467	10018	0
98	12	15360	7761	12288	0
98	14	17689	9054	14567	0
98	16	20012	10348	16852	0
98	18	22331	11641	19141	0
98	20	24648	12935	21433	0
98	22	26962	14228	23727	0
98	24	29275	15522	26022	0
98	26	33520	17065	30053	0
98	28	35972	18377	32491	0
98	30	38423	19690	34930	0
98	32	40873	21003	37370	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
100	10	13289	6599	10222	0
100	12	15674	7919	12539	0
100	14	18050	9239	14865	0
100	16	20421	10559	17196	0
100	18	22787	11879	19532	0
100	20	25151	13199	21870	0
100	22	27512	14519	24211	0
100	24	29872	15838	26553	0
100	26	34204	17413	30666	0
100	28	36706	18752	33154	0
100	30	39207	20092	35643	0
100	32	41707	21431	38133	0

HIGHER POWER HYDRAULIC DOORS
UNFACTORED DOOR JAMB REACTIONS - 150 mph - ASCE 7-16

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
105	10	13953	6929	10733	0
105	12	16457	8315	13166	0
105	14	18953	9701	15608	0
105	16	21442	11087	18056	0
105	18	23927	12473	20508	0
105	20	26408	13859	22964	0
105	22	28888	15245	25421	0
105	24	31366	16630	27881	0
105	26	35914	18284	32199	0
105	28	38541	19690	34812	0
105	30	41168	21096	37425	0
105	32	43793	22503	40039	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
110	10	14617	7259	11244	0
110	12	17241	8711	13793	0
110	14	19855	10163	16351	0
110	16	22463	11615	18916	0
110	18	25066	13067	21485	0
110	20	27666	14519	24057	0
110	22	30264	15970	26632	0
110	24	32860	17422	29208	0
110	26	37625	19154	33732	0
110	28	40377	20628	36469	0
110	30	43128	22101	39207	0
110	32	45878	23574	41946	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
115	10	15282	7589	11755	0
115	12	18025	9107	14420	0
115	14	20758	10625	17094	0
115	16	23484	12143	19776	0
115	18	26205	13661	22462	0
115	20	28923	15179	25151	0
115	22	31639	16696	27843	0
115	24	34353	18214	30536	0
115	26	39335	20025	35266	0
115	28	42212	21565	38127	0
115	30	45088	23106	40989	0
115	32	47964	24646	43852	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
120	10	15946	7919	12266	0
120	12	18808	9503	15047	0
120	14	21660	11087	17838	0
120	16	24505	12671	20636	0
120	18	27345	14255	23438	0
120	20	30181	15838	26244	0
120	22	33015	17422	29053	0
120	24	35847	19006	31864	0
120	26	41045	20896	36799	0
120	28	44047	22503	39785	0
120	30	47049	24110	42771	0
120	32	50049	25718	45759	0

HIGHER POWER HYDRAULIC DOORS
UNFACTORED DOOR JAMB REACTIONS - 150 mph - ASCE 7-16

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
125	10	16611	8249	12777	0
125	12	19592	9899	15674	0
125	14	22563	11549	18581	0
125	16	25526	13199	21495	0
125	18	28484	14849	24415	0
125	20	31439	16498	27338	0
125	22	34390	18148	30264	0
125	24	37340	19798	33191	0
125	26	42755	21766	38332	0
125	28	45883	23440	41442	0
125	30	49009	25115	44554	0
125	32	52134	26789	47666	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
130	10	17275	8579	13289	0
130	12	20376	10295	16301	0
130	14	23465	12011	19324	0
130	16	26547	13727	22355	0
130	18	29623	15443	25391	0
130	20	32696	17158	28431	0
130	22	35766	18874	31474	0
130	24	38834	20590	34519	0
130	26	44465	22637	39866	0
130	28	47718	24378	43100	0
130	30	50969	26119	46336	0
130	32	54220	27861	49572	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
135	10	17940	8909	13800	0
135	12	21160	10691	16928	0
135	14	24368	12473	20067	0
135	16	27568	14255	23215	0
135	18	30763	16036	26368	0
135	20	33954	17818	29525	0
135	22	37142	19600	32685	0
135	24	40328	21382	35847	0
135	26	46176	23507	41399	0
135	28	49553	25316	44758	0
135	30	52930	27124	48118	0
135	32	56305	28932	51479	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
140	10	18604	9239	14311	0
140	12	21943	11087	17555	0
140	14	25270	12935	20811	0
140	16	28589	14783	24075	0
140	18	31902	16630	27345	0
140	20	35211	18478	30618	0
140	22	38517	20326	33895	0
140	24	41821	22174	37174	0
140	26	47886	24378	42932	0
140	28	51389	26253	46415	0
140	30	54890	28129	49900	0
140	32	58390	30004	53386	0

HIGHER POWER HYDRAULIC DOORS
UNFACTORED DOOR JAMB REACTIONS - 150 mph - ASCE 7-16

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
145	10	19268	9569	14822	0
145	12	22727	11483	18182	0
145	14	26173	13397	21554	0
145	16	29610	15311	24935	0
145	18	33041	17224	28321	0
145	20	36469	19138	31712	0
145	22	39893	21052	35106	0
145	24	43315	22966	38502	0
145	26	49596	25249	44465	0
145	28	53224	27191	48073	0
145	30	56850	29133	51682	0
145	32	60476	31075	55292	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
150	10	19933	9899	15333	0
150	12	23511	11879	18808	0
150	14	27075	13859	22297	0
150	16	30631	15838	25794	0
150	18	34181	17818	29298	0
150	20	37726	19798	32805	0
150	22	41269	21778	36316	0
150	24	44808	23758	39830	0
150	26	51306	26119	45999	0
150	28	55059	28129	49731	0
150	30	58811	30138	53464	0
150	32	62561	32147	57199	0