

HIGHER POWER HYDRAULIC DOORS
UNFACTORED DOOR JAMB REACTIONS - 150 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
13.5	$h \leq 24$ 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 7-22.

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	3987	2505	3067	0
30	12	4702	3006	3762	0
30	14	5415	3507	4459	0
30	16	6126	4008	5159	0
30	18	6836	4509	5860	0
30	20	7545	5010	6561	0
30	22	8254	5511	7263	0
30	24	8962	6012	7966	0
30	26	10261	6589	9200	0
30	28	11012	7096	9946	0
30	30	11762	7603	10693	0
30	32	12512	8109	11440	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
32	10	4252	2672	3271	0
32	12	5016	3206	4012	0
32	14	5776	3741	4757	0
32	16	6535	4275	5503	0
32	18	7292	4809	6250	0
32	20	8048	5344	6999	0
32	22	8804	5878	7747	0
32	24	9559	6412	8497	0
32	26	10945	7028	9813	0
32	28	11746	7569	10609	0
32	30	12546	8109	11406	0
32	32	13346	8650	12202	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
34	10	4518	2839	3475	0
34	12	5329	3407	4263	0
34	14	6137	3974	5054	0
34	16	6943	4542	5847	0
34	18	7748	5110	6641	0
34	20	8551	5678	7436	0
34	22	9354	6245	8232	0
34	24	10157	6813	9028	0
34	26	11629	7467	10426	0
34	28	12480	8042	11272	0
34	30	13330	8616	12119	0
34	32	14181	9191	12965	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
36	10	4784	3006	3680	0
36	12	5643	3607	4514	0
36	14	6498	4208	5351	0
36	16	7351	4809	6191	0
36	18	8203	5410	7031	0
36	20	9054	6012	7873	0
36	22	9904	6613	8716	0
36	24	10754	7214	9559	0
36	26	12314	7907	11040	0
36	28	13214	8515	11935	0
36	30	14115	9123	12831	0
36	32	15015	9731	13728	0

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Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
38	10	5050	3173	3884	0
38	12	5956	3807	4765	0
38	14	6859	4442	5649	0
38	16	7760	5076	6535	0
38	18	8659	5711	7422	0
38	20	9557	6346	8311	0
38	22	10455	6980	9200	0
38	24	11351	7615	10090	0
38	26	12998	8346	11653	0
38	28	13948	8988	12598	0
38	30	14899	9630	13544	0
38	32	15849	10272	14490	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
40	10	5315	3340	4089	0
40	12	6269	4008	5016	0
40	14	7220	4676	5946	0
40	16	8168	5344	6879	0
40	18	9115	6012	7813	0
40	20	10060	6679	8748	0
40	22	11005	7347	9684	0
40	24	11949	8015	10621	0
40	26	13682	8785	12266	0
40	28	14682	9461	13262	0
40	30	15683	10137	14257	0
40	32	16683	10813	15253	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
42	10	5581	3507	4293	0
42	12	6583	4208	5266	0
42	14	7581	4909	6243	0
42	16	8577	5611	7222	0
42	18	9571	6312	8203	0
42	20	10563	7013	9186	0
42	22	11555	7715	10169	0
42	24	12546	8416	11152	0
42	26	14366	9224	12880	0
42	28	15417	9934	13925	0
42	30	16467	10644	14970	0
42	32	17517	11353	16016	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
44	10	5847	3674	4498	0
44	12	6896	4408	5517	0
44	14	7942	5143	6540	0
44	16	8985	5878	7566	0
44	18	10026	6613	8594	0
44	20	11066	7347	9623	0
44	22	12105	8082	10653	0
44	24	13144	8817	11683	0
44	26	15050	9664	13493	0
44	28	16151	10407	14588	0
44	30	17251	11150	15683	0
44	32	18351	11894	16778	0

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Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
46	10	6113	3841	4702	0
46	12	7210	4609	5768	0
46	14	8303	5377	6838	0
46	16	9393	6145	7910	0
46	18	10482	6913	8985	0
46	20	11569	7681	10060	0
46	22	12656	8450	11137	0
46	24	13741	9218	12214	0
46	26	15734	10103	14106	0
46	28	16885	10880	15251	0
46	30	18035	11657	16396	0
46	32	19185	12434	17541	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
48	10	6379	4008	4907	0
48	12	7523	4809	6019	0
48	14	8664	5611	7135	0
48	16	9802	6412	8254	0
48	18	10938	7214	9375	0
48	20	12072	8015	10498	0
48	22	13206	8817	11621	0
48	24	14339	9618	12746	0
48	26	16418	10542	14720	0
48	28	17619	11353	15914	0
48	30	18819	12164	17109	0
48	32	20020	12975	18304	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
50	10	6644	4175	5111	0
50	12	7837	5010	6269	0
50	14	9025	5845	7432	0
50	16	10210	6679	8598	0
50	18	11394	7514	9766	0
50	20	12575	8349	10935	0
50	22	13756	9184	12105	0
50	24	14936	10019	13277	0
50	26	17102	10981	15333	0
50	28	18353	11826	16577	0
50	30	19604	12671	17821	0
50	32	20854	13516	19066	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
52	10	6910	4342	5315	0
52	12	8150	5210	6520	0
52	14	9386	6078	7730	0
52	16	10619	6947	8942	0
52	18	11849	7815	10157	0
52	20	13078	8683	11373	0
52	22	14306	9552	12590	0
52	24	15534	10420	13808	0
52	26	17786	11421	15946	0
52	28	19087	12299	17240	0
52	30	20388	13178	18534	0
52	32	21688	14056	19829	0

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Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
54	10	7176	4509	5520	0
54	12	8464	5410	6771	0
54	14	9747	6312	8027	0
54	16	11027	7214	9286	0
54	18	12305	8116	10547	0
54	20	13581	9017	11810	0
54	22	14857	9919	13074	0
54	24	16131	10821	14339	0
54	26	18470	11860	16560	0
54	28	19821	12772	17903	0
54	30	21172	13685	19247	0
54	32	22522	14597	20592	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
56	10	7442	4676	5724	0
56	12	8777	5611	7022	0
56	14	10108	6546	8324	0
56	16	11436	7481	9630	0
56	18	12761	8416	10938	0
56	20	14084	9351	12247	0
56	22	15407	10286	13558	0
56	24	16728	11222	14870	0
56	26	19154	12299	17173	0
56	28	20555	13245	18566	0
56	30	21956	14191	19960	0
56	32	23356	15138	21354	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
58	10	7707	4843	5929	0
58	12	9091	5811	7273	0
58	14	10469	6780	8622	0
58	16	11844	7748	9974	0
58	18	13217	8717	11328	0
58	20	14588	9685	12685	0
58	22	15957	10654	14042	0
58	24	17326	11622	15401	0
58	26	19838	12738	17786	0
58	28	21290	13718	19229	0
58	30	22740	14698	20673	0
58	32	24190	15678	22117	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
60	10	7973	5010	6133	0
60	12	9404	6012	7523	0
60	14	10830	7013	8919	0
60	16	12252	8015	10318	0
60	18	13672	9017	11719	0
60	20	15091	10019	13122	0
60	22	16507	11021	14527	0
60	24	17923	12023	15932	0
60	26	20523	13178	18400	0
60	28	22024	14191	19892	0
60	30	23524	15205	21386	0
60	32	25024	16219	22880	0

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Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
62	10	8239	5177	6338	0
62	12	9718	6212	7774	0
62	14	11191	7247	9216	0
62	16	12661	8283	10662	0
62	18	14128	9318	12110	0
62	20	15594	10353	13560	0
62	22	17058	11389	15011	0
62	24	18521	12424	16463	0
62	26	21207	13617	19013	0
62	28	22758	14664	20555	0
62	30	24308	15712	22099	0
62	32	25859	16759	23642	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
64	10	8505	5344	6542	0
64	12	10031	6412	8025	0
64	14	11552	7481	9513	0
64	16	13069	8550	11006	0
64	18	14584	9618	12500	0
64	20	16097	10687	13997	0
64	22	17608	11756	15495	0
64	24	19118	12825	16994	0
64	26	21891	14056	19626	0
64	28	23492	15138	21219	0
64	30	25093	16219	22811	0
64	32	26693	19348	24405	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
66	10	8770	5511	6747	0
66	12	10345	6613	8276	0
66	14	11913	7715	9811	0
66	16	13478	8817	11350	0
66	18	15040	9919	12891	0
66	20	16600	11021	14434	0
66	22	18158	12123	15979	0
66	24	19716	13225	17525	0
66	26	22575	14496	20239	0
66	28	24226	15611	21882	0
66	30	25877	16726	23524	0
66	32	27527	19953	25167	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
68	10	9036	5678	6951	0
68	12	10658	6813	8527	0
68	14	12274	7949	10108	0
68	16	13886	9084	11693	0
68	18	15495	10220	13282	0
68	20	17103	11355	14872	0
68	22	18708	12491	16463	0
68	24	20313	13626	18056	0
68	26	23259	14935	20853	0
68	28	24960	16084	22545	0
68	30	26661	19272	24237	0
68	32	28361	20557	25930	0

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Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
70	10	9302	5845	7155	0
70	12	10972	7013	8777	0
70	14	12635	8182	10405	0
70	16	14294	9351	12037	0
70	18	15951	10520	13672	0
70	20	17606	11689	15309	0
70	22	19259	12858	16948	0
70	24	20911	14027	18587	0
70	26	23943	15374	21466	0
70	28	25694	16557	23208	0
70	30	27445	19839	24950	0
70	32	29195	21162	26693	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
72	10	9568	6012	7360	0
72	12	11285	7214	9028	0
72	14	12996	8416	10703	0
72	16	14703	9618	12381	0
72	18	16407	10821	14063	0
72	20	18109	12023	15747	0
72	22	19809	13225	17432	0
72	24	21508	14428	19118	0
72	26	24627	15813	22079	0
72	28	26428	19046	23871	0
72	30	28229	20406	25663	0
72	32	30029	21767	27455	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
74	10	9834	6179	7564	0
74	12	11599	7414	9279	0
74	14	13357	8650	11000	0
74	16	15111	9886	12725	0
74	18	16863	11121	14454	0
74	20	18612	12357	16184	0
74	22	20359	13593	17916	0
74	24	22105	14828	19649	0
74	26	23943	16253	22693	0
74	28	25694	19575	24534	0
74	30	27445	20973	26376	0
74	32	29195	22371	28218	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
76	10	10099	6346	7769	0
76	12	11912	7615	9530	0
76	14	13718	8884	11297	0
76	16	15520	10153	13069	0
76	18	17318	11422	14844	0
76	20	19115	12691	16621	0
76	22	20909	13960	18400	0
76	24	22703	15229	20180	0
76	26	25995	16692	23306	0
76	28	27897	20104	25197	0
76	30	29797	21540	27089	0
76	32	31698	22976	28981	0

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Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
78	10	10365	6513	7973	0
78	12	12226	7815	9780	0
78	14	14079	9118	11595	0
78	16	15928	10420	13413	0
78	18	17774	11723	15235	0
78	20	19618	13025	17059	0
78	22	21460	14328	18885	0
78	24	23300	15630	20711	0
78	26	26679	19159	23919	0
78	28	28631	20633	25860	0
78	30	30582	22107	27801	0
78	32	32532	23580	29743	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
80	10	10631	6679	8178	0
80	12	12539	8015	10031	0
80	14	14440	9351	11892	0
80	16	16337	10687	13757	0
80	18	18230	12023	15626	0
80	20	20121	13359	17496	0
80	22	22010	14695	19369	0
80	24	23898	16031	21243	0
80	26	27363	19650	24533	0
80	28	29365	21162	26523	0
80	30	31366	22673	28514	0
80	32	33366	26745	30506	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
82	10	10897	6846	8382	0
82	12	12852	8216	10282	0
82	14	14801	9585	12189	0
82	16	16745	10954	14101	0
82	18	18685	12324	16016	0
82	20	20624	13693	17934	0
82	22	22560	15062	19853	0
82	24	24495	16432	21774	0
82	26	28047	20142	25146	0
82	28	30099	21691	27186	0
82	30	32150	23240	29227	0
82	32	34200	27414	31269	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
84	10	11162	7013	8586	0
84	12	13166	8416	10533	0
84	14	15162	9819	12486	0
84	16	17153	11222	14445	0
84	18	19141	12624	16407	0
84	20	21127	14027	18371	0
84	22	23110	15430	20337	0
84	24	25093	18848	22305	0
84	26	28732	20633	25759	0
84	28	30833	22220	27849	0
84	30	32934	26327	29940	0
84	32	35034	28082	32031	0

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Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
86	10	11428	7180	8791	0
86	12	13479	8617	10784	0
86	14	15523	10053	12784	0
86	16	17562	11489	14789	0
86	18	19597	12925	16797	0
86	20	21630	14361	18808	0
86	22	23661	15797	20821	0
86	24	25690	19297	22836	0
86	26	29416	21124	26373	0
86	28	31567	22749	28512	0
86	30	33718	26954	30653	0
86	32	35868	28751	32794	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
88	10	11694	7347	8995	0
88	12	13793	8817	11034	0
88	14	15884	10286	13081	0
88	16	17970	11756	15133	0
88	18	20053	13225	17188	0
88	20	22133	14695	19246	0
88	22	24211	16164	21306	0
88	24	26288	19746	23367	0
88	26	30100	21615	26986	0
88	28	32301	23278	29175	0
88	30	34502	27581	31366	0
88	32	36703	29420	33557	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
90	10	11960	7514	9200	0
90	12	14106	9017	11285	0
90	14	16245	10520	13378	0
90	16	18379	12023	15477	0
90	18	20508	13526	17579	0
90	20	22636	15029	19683	0
90	22	24761	16532	21790	0
90	24	26885	20195	23898	0
90	26	30784	22107	27599	0
90	28	33036	26327	29839	0
90	30	35286	28208	32079	0
90	32	37537	30088	34319	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
92	10	12226	7681	9404	0
92	12	14420	9218	11536	0
92	14	16606	10754	13676	0
92	16	18787	12290	15821	0
92	18	20964	13827	17969	0
92	20	23139	15363	20121	0
92	22	25311	18923	22274	0
92	24	27482	20643	24429	0
92	26	31468	22598	28213	0
92	28	33770	26912	30502	0
92	30	36071	28834	32791	0
92	32	38371	30757	35082	0

HIGHER POWER HYDRAULIC DOORS
UNFACTORED DOOR JAMB REACTIONS - 150 mph - ASCE 7-22 / IBC-24

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
94	10	12491	7848	9609	0
94	12	14733	9418	11787	0
94	14	16967	10988	13973	0
94	16	19195	12557	16165	0
94	18	21420	14127	18360	0
94	20	23642	15697	20558	0
94	22	25862	19334	22758	0
94	24	28080	21092	24960	0
94	26	32152	23089	28826	0
94	28	34504	27497	31165	0
94	30	36855	29461	33504	0
94	32	39205	34433	35845	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
96	10	12757	8015	9813	0
96	12	15047	9618	12037	0
96	14	17328	11222	14270	0
96	16	19604	12825	16508	0
96	18	21876	14428	18751	0
96	20	24145	16031	20996	0
96	22	26412	19746	23242	0
96	24	28677	21541	25491	0
96	26	32836	23580	29439	0
96	28	35238	28082	31828	0
96	30	37639	30088	34217	0
96	32	40039	35166	36607	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
98	10	13023	8182	10018	0
98	12	15360	9819	12288	0
98	14	17689	11455	14567	0
98	16	20012	13092	16852	0
98	18	22331	14728	19141	0
98	20	24648	16365	21433	0
98	22	26962	20157	23727	0
98	24	29275	21990	26022	0
98	26	33520	26620	30053	0
98	28	35972	28667	32491	0
98	30	38423	30715	34930	0
98	32	40873	35899	37370	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
100	10	13289	8349	10222	0
100	12	15674	10019	12539	0
100	14	18050	11689	14865	0
100	16	20421	13359	17196	0
100	18	22787	15029	19532	0
100	20	25151	16699	21870	0
100	22	27512	20569	24211	0
100	24	29872	22438	26553	0
100	26	34204	27163	30666	0
100	28	36706	29252	33154	0
100	30	39207	34342	35643	0
100	32	41707	36631	38133	0

HIGHER POWER HYDRAULIC DOORS
UNFACTORED DOOR JAMB REACTIONS - 150 mph - ASCE 7-22 / IBC-24

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
105	10	13953	8767	10733	0
105	12	16457	10520	13166	0
105	14	18953	12274	15608	0
105	16	21442	14027	18056	0
105	18	23927	15780	20508	0
105	20	26408	19634	22964	0
105	22	28888	21597	25421	0
105	24	31366	26080	27881	0
105	26	35914	28521	32199	0
105	28	38541	30715	34812	0
105	30	41168	36059	37425	0
105	32	43793	38463	40039	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
110	10	14617	9184	11244	0
110	12	17241	11021	13793	0
110	14	19855	12858	16351	0
110	16	22463	14695	18916	0
110	18	25066	16532	21485	0
110	20	27666	20569	24057	0
110	22	30264	22625	26632	0
110	24	32860	27322	29208	0
110	26	37625	29879	33732	0
110	28	40377	35258	36469	0
110	30	43128	37776	39207	0
110	32	45878	43814	41946	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
115	10	15282	9602	11755	0
115	12	18025	11522	14420	0
115	14	20758	13442	17094	0
115	16	23484	15363	19776	0
115	18	26205	19353	22462	0
115	20	28923	21504	25151	0
115	22	31639	26184	27843	0
115	24	34353	28564	30536	0
115	26	39335	31237	35266	0
115	28	42212	36860	38127	0
115	30	45088	39493	40989	0
115	32	47964	45806	43852	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
120	10	15946	10019	12266	0
120	12	18808	12023	15047	0
120	14	21660	14027	17838	0
120	16	24505	16031	20636	0
120	18	27345	20195	23438	0
120	20	30181	22438	26244	0
120	22	33015	27322	29053	0
120	24	35847	29806	31864	0
120	26	41045	35716	36799	0
120	28	44047	38463	39785	0
120	30	47049	44810	42771	0
120	32	50049	47798	45759	0

HIGHER POWER HYDRAULIC DOORS
UNFACTORED DOOR JAMB REACTIONS - 150 mph - ASCE 7-22 / IBC-24

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
125	10	16611	10437	12777	0
125	12	19592	12524	15674	0
125	14	22563	14611	18581	0
125	16	25526	16699	21495	0
125	18	28484	21036	24415	0
125	20	31439	25873	27338	0
125	22	34390	28461	30264	0
125	24	37340	34048	33191	0
125	26	42755	37204	38332	0
125	28	45883	43565	41442	0
125	30	49009	46677	44554	0
125	32	52134	53789	47666	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
130	10	17275	10854	13289	0
130	12	20376	13025	16301	0
130	14	23465	15196	19324	0
130	16	26547	19447	22355	0
130	18	29623	21878	25391	0
130	20	32696	26908	28431	0
130	22	35766	29599	31474	0
130	24	38834	35410	34519	0
130	26	44465	38692	39866	0
130	28	47718	45308	43100	0
130	30	50969	48544	46336	0
130	32	54220	55941	49572	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
135	10	17940	11272	13800	0
135	12	21160	13526	16928	0
135	14	24368	15780	20067	0
135	16	27568	20195	23215	0
135	18	30763	22719	26368	0
135	20	33954	27943	29525	0
135	22	37142	30738	32685	0
135	24	40328	36772	35847	0
135	26	46176	43690	41399	0
135	28	49553	47051	44758	0
135	30	52930	54461	48118	0
135	32	56305	58092	51479	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
140	10	18604	11689	14311	0
140	12	21943	14027	17555	0
140	14	25270	16365	20811	0
140	16	28589	20943	24075	0
140	18	31902	26080	27345	0
140	20	35211	28978	30618	0
140	22	38517	34956	33895	0
140	24	41821	38134	37174	0
140	26	47886	45308	42932	0
140	28	51389	48793	46415	0
140	30	54890	56479	49900	0
140	32	58390	60244	53386	0

HIGHER POWER HYDRAULIC DOORS
UNFACTORED DOOR JAMB REACTIONS - 150 mph - ASCE 7-22 / IBC-24

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
145	10	19268	12107	14822	0
145	12	22727	14528	18182	0
145	14	26173	18979	21554	0
145	16	29610	21691	24935	0
145	18	33041	27012	28321	0
145	20	36469	30013	31712	0
145	22	39893	36204	35106	0
145	24	43315	39496	38502	0
145	26	49596	46926	44465	0
145	28	53224	54596	48073	0
145	30	56850	58496	51682	0
145	32	60476	67035	55292	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
150	10	19933	12524	15333	0
150	12	23511	15029	18808	0
150	14	27075	19634	22297	0
150	16	30631	22438	25794	0
150	18	34181	27943	29298	0
150	20	37726	34048	32805	0
150	22	41269	37453	36316	0
150	24	44808	44458	39830	0
150	26	51306	48544	45999	0
150	28	55059	56479	49731	0
150	30	58811	65013	53464	0
150	32	62561	69347	57199	0