

HIGHER POWER HYDRAULIC DOORS  
UNFACTORED DOOR JAMB REACTIONS - 120 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	120	30.1	50	7.2	50	3.2	-5.9
	$24$ ft < $h \leq 32$ ft		31.9		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

HIGHER POWER HYDRAULIC DOORS  
UNFACTORED DOOR JAMB REACTIONS - 120 mph - ASCE 7-16

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
30	10	2551	1980	1963	0
30	12	3009	2376	2407	0
30	14	3466	2772	2854	0
30	16	3921	3168	3302	0
30	18	4375	3564	3750	0
30	20	4829	3960	4199	0
30	22	5282	4356	4648	0
30	24	5735	4752	5098	0
30	26	6567	5224	5888	0
30	28	7048	5626	6366	0
30	30	7528	6028	6843	0
30	32	8008	6429	7321	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
32	10	2722	2112	2093	0
32	12	3210	2534	2568	0
32	14	3697	2957	3044	0
32	16	4182	3379	3522	0
32	18	4667	3801	4000	0
32	20	5151	4224	4479	0
32	22	5635	4646	4958	0
32	24	6118	5068	5438	0
32	26	7005	5572	6280	0
32	28	7517	6001	6790	0
32	30	8030	6429	7300	0
32	32	8542	6858	7810	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
34	10	2892	2244	2224	0
34	12	3411	2693	2728	0
34	14	3928	3141	3235	0
34	16	4444	3590	3742	0
34	18	4958	4039	4250	0
34	20	5473	4488	4759	0
34	22	5987	4936	5268	0
34	24	6500	5385	5778	0
34	26	7443	5920	6673	0
34	28	7987	6376	7214	0
34	30	8531	6831	7756	0
34	32	9076	7287	8298	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
36	10	3062	2376	2355	0
36	12	3611	2851	2889	0
36	14	4159	3326	3425	0
36	16	4705	3801	3962	0
36	18	5250	4276	4500	0
36	20	5795	4752	5039	0
36	22	6339	5227	5578	0
36	24	6883	5702	6118	0
36	26	7881	6269	7065	0
36	28	8457	6751	7639	0
36	30	9033	7233	8212	0
36	32	9609	7715	8786	0

HIGHER POWER HYDRAULIC DOORS  
UNFACTORED DOOR JAMB REACTIONS - 120 mph - ASCE 7-16

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
38	10	3232	2508	2486	0
38	12	3812	3009	3049	0
38	14	4390	3511	3615	0
38	16	4966	4012	4182	0
38	18	5542	4514	4750	0
38	20	6117	5016	5319	0
38	22	6691	5517	5888	0
38	24	7265	6019	6458	0
38	26	8318	6617	7458	0
38	28	8927	7126	8063	0
38	30	9535	7635	8668	0
38	32	10143	8144	9274	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
40	10	3402	2640	2617	0
40	12	4012	3168	3210	0
40	14	4621	3696	3805	0
40	16	5228	4224	4402	0
40	18	5834	4752	5000	0
40	20	6439	5279	5599	0
40	22	7043	5807	6198	0
40	24	7647	6335	6798	0
40	26	8756	6965	7850	0
40	28	9397	7501	8487	0
40	30	10037	8037	9125	0
40	32	10677	8573	9762	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
42	10	3572	2772	2748	0
42	12	4213	3326	3370	0
42	14	4852	3880	3996	0
42	16	5489	4435	4622	0
42	18	6125	4989	5250	0
42	20	6761	5543	5879	0
42	22	7395	6098	6508	0
42	24	8030	6652	7137	0
42	26	9194	7313	8243	0
42	28	9867	7876	8912	0
42	30	10539	8439	9581	0
42	32	11211	9001	10250	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
44	10	3742	2904	2879	0
44	12	4414	3484	3531	0
44	14	5083	4065	4186	0
44	16	5750	4646	4842	0
44	18	6417	5227	5500	0
44	20	7082	5807	6159	0
44	22	7747	6388	6818	0
44	24	8412	6969	7477	0
44	26	9632	7662	8635	0
44	28	10336	8251	9336	0
44	30	11041	8840	10037	0
44	32	11745	9430	10738	0

HIGHER POWER HYDRAULIC DOORS  
UNFACTORED DOOR JAMB REACTIONS - 120 mph - ASCE 7-16

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
46	10	3912	3036	3009	0
46	12	4614	3643	3691	0
46	14	5314	4250	4376	0
46	16	6012	4857	5063	0
46	18	6709	5464	5750	0
46	20	7404	6071	6439	0
46	22	8100	6679	7128	0
46	24	8794	7286	7817	0
46	26	10070	8010	9028	0
46	28	10806	8626	9761	0
46	30	11543	9242	10493	0
46	32	12279	9858	11226	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
48	10	4082	3168	3140	0
48	12	4815	3801	3852	0
48	14	5545	4435	4566	0
48	16	6273	5068	5283	0
48	18	7000	5702	6000	0
48	20	7726	6335	6719	0
48	22	8452	6969	7438	0
48	24	9177	7602	8157	0
48	26	10508	8358	9421	0
48	28	11276	9001	10185	0
48	30	12044	9644	10949	0
48	32	12813	10287	11714	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
50	10	4252	3300	3271	0
50	12	5016	3960	4012	0
50	14	5776	4620	4757	0
50	16	6535	5279	5503	0
50	18	7292	5939	6250	0
50	20	8048	6599	6999	0
50	22	8804	7259	7747	0
50	24	9559	7919	8497	0
50	26	10945	8706	9813	0
50	28	11746	9376	10609	0
50	30	12546	10046	11406	0
50	32	13346	10716	12202	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
52	10	4422	3432	3402	0
52	12	5216	4118	4173	0
52	14	6007	4804	4947	0
52	16	6796	5491	5723	0
52	18	7584	6177	6500	0
52	20	8370	6863	7278	0
52	22	9156	7550	8057	0
52	24	9941	8236	8837	0
52	26	11383	9055	10206	0
52	28	12216	9751	11034	0
52	30	13048	10448	11862	0
52	32	13880	11144	12691	0

HIGHER POWER HYDRAULIC DOORS  
UNFACTORED DOOR JAMB REACTIONS - 120 mph - ASCE 7-16

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
54	10	4593	3564	3533	0
54	12	5417	4276	4333	0
54	14	6238	4989	5137	0
54	16	7057	5702	5943	0
54	18	7875	6415	6750	0
54	20	8692	7127	7558	0
54	22	9508	7840	8367	0
54	24	10324	8553	9177	0
54	26	11821	9403	10598	0
54	28	12686	10126	11458	0
54	30	13550	10850	12318	0
54	32	14414	11573	13179	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
56	10	4763	3696	3664	0
56	12	5617	4435	4494	0
56	14	6469	5174	5328	0
56	16	7319	5913	6163	0
56	18	8167	6652	7000	0
56	20	9014	7391	7838	0
56	22	9860	8130	8677	0
56	24	10706	8870	9517	0
56	26	12259	9751	10991	0
56	28	13155	10501	11882	0
56	30	14052	11251	12774	0
56	32	14948	12002	13667	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
58	10	4933	3828	3794	0
58	12	5818	4593	4654	0
58	14	6700	5359	5518	0
58	16	7580	6124	6383	0
58	18	8459	6890	7250	0
58	20	9336	7655	8118	0
58	22	10213	8421	8987	0
58	24	11089	9186	9857	0
58	26	12697	10099	11383	0
58	28	13625	10876	12307	0
58	30	14554	11653	13231	0
58	32	15482	12430	14155	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
60	10	5103	3960	3925	0
60	12	6019	4752	4815	0
60	14	6931	5543	5708	0
60	16	7842	6335	6603	0
60	18	8750	7127	7500	0
60	20	9658	7919	8398	0
60	22	10565	8711	9297	0
60	24	11471	9503	10196	0
60	26	13134	10448	11776	0
60	28	14095	11251	12731	0
60	30	15056	12055	13687	0
60	32	16016	12859	14643	0

HIGHER POWER HYDRAULIC DOORS  
UNFACTORED DOOR JAMB REACTIONS - 120 mph - ASCE 7-16

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
62	10	5273	4092	4056	0
62	12	6219	4910	4975	0
62	14	7162	5728	5898	0
62	16	8103	6547	6823	0
62	18	9042	7365	7750	0
62	20	9980	8183	8678	0
62	22	10917	9002	9607	0
62	24	11853	9820	10536	0
62	26	13572	10796	12168	0
62	28	14565	11626	13155	0
62	30	15557	12457	14143	0
62	32	16550	13287	15131	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
64	10	5443	4224	4187	0
64	12	6420	5068	5136	0
64	14	7393	5913	6089	0
64	16	8364	6758	7044	0
64	18	9334	7602	8000	0
64	20	10302	8447	8958	0
64	22	11269	9292	9917	0
64	24	12236	10137	10876	0
64	26	14010	11144	12561	0
64	28	15035	12002	13580	0
64	30	16059	12859	14599	0
64	32	17083	13716	15619	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
66	10	5613	4356	4318	0
66	12	6621	5227	5296	0
66	14	7624	6098	6279	0
66	16	8626	6969	7264	0
66	18	9625	7840	8250	0
66	20	10624	8711	9238	0
66	22	11621	9582	10227	0
66	24	12618	10453	11216	0
66	26	14448	11493	12953	0
66	28	15505	12377	14004	0
66	30	16561	13261	15056	0
66	32	17617	14145	16107	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
68	10	5783	4488	4449	0
68	12	6821	5385	5457	0
68	14	7855	6283	6469	0
68	16	8887	7180	7484	0
68	18	9917	8078	8500	0
68	20	10946	8975	9518	0
68	22	11973	9873	10537	0
68	24	13000	10770	11556	0
68	26	14886	11841	13346	0
68	28	15975	12752	14429	0
68	30	17063	13662	15512	0
68	32	18151	14573	16595	0

HIGHER POWER HYDRAULIC DOORS  
UNFACTORED DOOR JAMB REACTIONS - 120 mph - ASCE 7-16

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
70	10	5953	4620	4579	0
70	12	7022	5543	5617	0
70	14	8086	6467	6659	0
70	16	9148	7391	7704	0
70	18	10209	8315	8750	0
70	20	11268	9239	9798	0
70	22	12326	10163	10846	0
70	24	13383	11087	11896	0
70	26	15323	12189	13738	0
70	28	16444	13127	14853	0
70	30	17565	14064	15968	0
70	32	18685	15002	17083	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
72	10	6123	4752	4710	0
72	12	7222	5702	5778	0
72	14	8317	6652	6850	0
72	16	9410	7602	7924	0
72	18	10500	8553	9000	0
72	20	11590	9503	10078	0
72	22	12678	10453	11156	0
72	24	13765	11404	12236	0
72	26	15761	12537	14131	0
72	28	16914	13502	15277	0
72	30	18067	14466	16424	0
72	32	19219	15431	17571	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
74	10	6293	4884	4841	0
74	12	7423	5860	5938	0
74	14	8549	6837	7040	0
74	16	9671	7814	8144	0
74	18	10792	8790	9250	0
74	20	11911	9767	10358	0
74	22	13030	10744	11466	0
74	24	14148	11720	12576	0
74	26	15323	12886	14523	0
74	28	16444	13877	15702	0
74	30	17565	14868	16880	0
74	32	18685	15859	18060	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
76	10	6464	5016	4972	0
76	12	7624	6019	6099	0
76	14	8780	7022	7230	0
76	16	9933	8025	8364	0
76	18	11084	9028	9500	0
76	20	12233	10031	10638	0
76	22	13382	11034	11776	0
76	24	14530	12037	12915	0
76	26	16637	13234	14916	0
76	28	17854	14252	16126	0
76	30	19070	15270	17337	0
76	32	20287	16288	18548	0

HIGHER POWER HYDRAULIC DOORS  
UNFACTORED DOOR JAMB REACTIONS - 120 mph - ASCE 7-16

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
78	10	6634	5148	5103	0
78	12	7824	6177	6259	0
78	14	9011	7207	7420	0
78	16	10194	8236	8584	0
78	18	11375	9266	9750	0
78	20	12555	10295	10918	0
78	22	13734	11325	12086	0
78	24	14912	12354	13255	0
78	26	17075	13582	15308	0
78	28	18324	14627	16550	0
78	30	19572	15672	17793	0
78	32	20820	16716	19036	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
80	10	6804	5279	5234	0
80	12	8025	6335	6420	0
80	14	9242	7391	7611	0
80	16	10455	8447	8805	0
80	18	11667	9503	10000	0
80	20	12877	10559	11198	0
80	22	14086	11615	12396	0
80	24	15295	12671	13595	0
80	26	17513	13930	15701	0
80	28	18794	15002	16975	0
80	30	20074	16073	18249	0
80	32	21354	17145	19524	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
82	10	6974	5411	5365	0
82	12	8226	6494	6580	0
82	14	9473	7576	7801	0
82	16	10717	8658	9025	0
82	18	11959	9741	10250	0
82	20	13199	10823	11478	0
82	22	14439	11905	12706	0
82	24	15677	12988	13935	0
82	26	17950	14279	16093	0
82	28	19263	15377	17399	0
82	30	20576	16475	18705	0
82	32	21888	17574	20012	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
84	10	7144	5543	5495	0
84	12	8426	6652	6741	0
84	14	9704	7761	7991	0
84	16	10978	8870	9245	0
84	18	12250	9978	10500	0
84	20	13521	11087	11757	0
84	22	14791	12196	13016	0
84	24	16059	13304	14275	0
84	26	18388	14627	16486	0
84	28	19733	15752	17824	0
84	30	21078	16877	19162	0
84	32	22422	18002	20500	0

HIGHER POWER HYDRAULIC DOORS  
UNFACTORED DOOR JAMB REACTIONS - 120 mph - ASCE 7-16

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
86	10	7314	5675	5626	0
86	12	8627	6811	6901	0
86	14	9935	7946	8182	0
86	16	11240	9081	9465	0
86	18	12542	10216	10750	0
86	20	13843	11351	12037	0
86	22	15143	12486	13326	0
86	24	16442	13621	14615	0
86	26	18826	14975	16878	0
86	28	20203	16127	18248	0
86	30	21580	17279	19618	0
86	32	22956	18431	20988	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
88	10	7484	5807	5757	0
88	12	8827	6969	7062	0
88	14	10166	8130	8372	0
88	16	11501	9292	9685	0
88	18	12834	10453	11000	0
88	20	14165	11615	12317	0
88	22	15495	12776	13636	0
88	24	16824	13938	14955	0
88	26	19264	15323	17271	0
88	28	20673	16502	18672	0
88	30	22081	17681	20074	0
88	32	23490	18860	21476	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
90	10	7654	5939	5888	0
90	12	9028	7127	7222	0
90	14	10397	8315	8562	0
90	16	11762	9503	9905	0
90	18	13125	10691	11250	0
90	20	14487	11879	12597	0
90	22	15847	13067	13945	0
90	24	17206	14255	15295	0
90	26	19702	15672	17664	0
90	28	21143	16877	19097	0
90	30	22583	18083	20530	0
90	32	24024	19288	21964	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
92	10	7824	6071	6019	0
92	12	9229	7286	7383	0
92	14	10628	8500	8752	0
92	16	12024	9714	10125	0
92	18	13417	10929	11500	0
92	20	14809	12143	12877	0
92	22	16199	13357	14255	0
92	24	17589	14571	15634	0
92	26	20139	16020	18056	0
92	28	21613	17252	19521	0
92	30	23085	18484	20987	0
92	32	24557	19717	22452	0

HIGHER POWER HYDRAULIC DOORS  
UNFACTORED DOOR JAMB REACTIONS - 120 mph - ASCE 7-16

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
94	10	7994	6203	6150	0
94	12	9429	7444	7543	0
94	14	10859	8685	8943	0
94	16	12285	9925	10345	0
94	18	13709	11166	11750	0
94	20	15131	12407	13157	0
94	22	16551	13647	14565	0
94	24	17971	14888	15974	0
94	26	20577	16368	18449	0
94	28	22082	17627	19945	0
94	30	23587	18886	21443	0
94	32	25091	20145	22941	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
96	10	8165	6335	6280	0
96	12	9630	7602	7704	0
96	14	11090	8870	9133	0
96	16	12546	10137	10565	0
96	18	14000	11404	12000	0
96	20	15453	12671	13437	0
96	22	16904	13938	14875	0
96	24	18354	15205	16314	0
96	26	21015	16716	18841	0
96	28	22552	18002	20370	0
96	30	24089	19288	21899	0
96	32	25625	20574	23429	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
98	10	8335	6467	6411	0
98	12	9831	7761	7864	0
98	14	11321	9054	9323	0
98	16	12808	10348	10786	0
98	18	14292	11641	12250	0
98	20	15775	12935	13717	0
98	22	17256	14228	15185	0
98	24	18736	15522	16654	0
98	26	21453	17065	19234	0
98	28	23022	18377	20794	0
98	30	24591	19690	22355	0
98	32	26159	21003	23917	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
100	10	8505	6599	6542	0
100	12	10031	7919	8025	0
100	14	11552	9239	9513	0
100	16	13069	10559	11006	0
100	18	14584	11879	12500	0
100	20	16097	13199	13997	0
100	22	17608	14519	15495	0
100	24	19118	15838	16994	0
100	26	21891	17413	19626	0
100	28	23492	18752	21219	0
100	30	25093	20092	22811	0
100	32	26693	21431	24405	0

HIGHER POWER HYDRAULIC DOORS  
UNFACTORED DOOR JAMB REACTIONS - 120 mph - ASCE 7-16

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
105	10	8930	6929	6869	0
105	12	10533	8315	8426	0
105	14	12130	9701	9989	0
105	16	13723	11087	11556	0
105	18	15313	12473	13125	0
105	20	16901	13859	14697	0
105	22	18488	15245	16270	0
105	24	20074	16630	17844	0
105	26	22985	18284	20607	0
105	28	24667	19690	22279	0
105	30	26347	21096	23952	0
105	32	28027	22503	25625	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
110	10	9355	7259	7196	0
110	12	11034	8711	8827	0
110	14	12707	10163	10465	0
110	16	14376	11615	12106	0
110	18	16042	13067	13750	0
110	20	17706	14519	15397	0
110	22	19369	15970	17044	0
110	24	21030	17422	18693	0
110	26	24080	19154	21589	0
110	28	25841	20628	23340	0
110	30	27602	22101	25093	0
110	32	29362	23574	26845	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
115	10	9780	7589	7523	0
115	12	11536	9107	9229	0
115	14	13285	10625	10940	0
115	16	15030	12143	12656	0
115	18	16771	13661	14375	0
115	20	18511	15179	16097	0
115	22	20249	16696	17819	0
115	24	21986	18214	19543	0
115	26	25174	20025	22570	0
115	28	27016	21565	24401	0
115	30	28856	23106	26233	0
115	32	30697	24646	28066	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
120	10	10206	7919	7850	0
120	12	12037	9503	9630	0
120	14	13862	11087	11416	0
120	16	15683	12671	13207	0
120	18	17501	14255	15000	0
120	20	19316	15838	16796	0
120	22	21130	17422	18594	0
120	24	22942	19006	20393	0
120	26	26269	20896	23551	0
120	28	28190	22503	25462	0
120	30	30111	24110	27374	0
120	32	32031	25718	29286	0

HIGHER POWER HYDRAULIC DOORS  
UNFACTORED DOOR JAMB REACTIONS - 120 mph - ASCE 7-16

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
125	10	10631	8249	8178	0
125	12	12539	9899	10031	0
125	14	14440	11549	11892	0
125	16	16337	13199	13757	0
125	18	18230	14849	15626	0
125	20	20121	16498	17496	0
125	22	22010	18148	19369	0
125	24	23898	19798	21243	0
125	26	27363	21766	24533	0
125	28	29365	23440	26523	0
125	30	31366	25115	28514	0
125	32	33366	26789	30506	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
130	10	11056	8579	8505	0
130	12	13041	10295	10432	0
130	14	15018	12011	12367	0
130	16	16990	13727	14307	0
130	18	18959	15443	16251	0
130	20	20926	17158	18196	0
130	22	22890	18874	20143	0
130	24	24854	20590	22092	0
130	26	28458	22637	25514	0
130	28	30539	24378	27584	0
130	30	32620	26119	29655	0
130	32	34701	27861	31726	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
135	10	11481	8909	8832	0
135	12	13542	10691	10834	0
135	14	15595	12473	12843	0
135	16	17643	14255	14858	0
135	18	19688	16036	16876	0
135	20	21730	17818	18896	0
135	22	23771	19600	20918	0
135	24	25810	21382	22942	0
135	26	29552	23507	26495	0
135	28	31714	25316	28645	0
135	30	33875	27124	30795	0
135	32	36035	28932	32947	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
140	10	11907	9239	9159	0
140	12	14044	11087	11235	0
140	14	16173	12935	13319	0
140	16	18297	14783	15408	0
140	18	20417	16630	17501	0
140	20	22535	18478	19596	0
140	22	24651	20326	21693	0
140	24	26766	22174	23792	0
140	26	30647	24378	27477	0
140	28	32889	26253	29706	0
140	30	35130	28129	31936	0
140	32	37370	30004	34167	0

HIGHER POWER HYDRAULIC DOORS  
UNFACTORED DOOR JAMB REACTIONS - 120 mph - ASCE 7-16

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
145	10	12332	9569	9486	0
145	12	14545	11483	11636	0
145	14	16750	13397	13794	0
145	16	18950	15311	15958	0
145	18	21147	17224	18126	0
145	20	23340	19138	20296	0
145	22	25532	21052	22468	0
145	24	27721	22966	24641	0
145	26	31742	25249	28458	0
145	28	34063	27191	30767	0
145	30	36384	29133	33077	0
145	32	38705	31075	35387	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
150	10	12757	9899	9813	0
150	12	15047	11879	12037	0
150	14	17328	13859	14270	0
150	16	19604	15838	16508	0
150	18	21876	17818	18751	0
150	20	24145	19798	20996	0
150	22	26412	21778	23242	0
150	24	28677	23758	25491	0
150	26	32836	26119	29439	0
150	28	35238	28129	31828	0
150	30	37639	30138	34217	0
150	32	40039	32147	36607	0