

HIGHER POWER HYDRAULIC DOORS
UNFACTORED DOOR JAMB REACTIONS - 120 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
10.5	$h \leq 24$ 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 7-22.

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	2551	2055	1963	0
30	12	3009	2466	2407	0
30	14	3466	2877	2854	0
30	16	3921	3288	3302	0
30	18	4375	3699	3750	0
30	20	4829	4110	4199	0
30	22	5282	4521	4648	0
30	24	5735	4932	5098	0
30	26	6567	5419	5888	0
30	28	7048	5836	6366	0
30	30	7528	6253	6843	0
30	32	8008	6669	7321	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
32	10	2722	2192	2093	0
32	12	3210	2630	2568	0
32	14	3697	3069	3044	0
32	16	4182	3507	3522	0
32	18	4667	3945	4000	0
32	20	5151	4384	4479	0
32	22	5635	4822	4958	0
32	24	6118	5260	5438	0
32	26	7005	5780	6280	0
32	28	7517	6225	6790	0
32	30	8030	6669	7300	0
32	32	8542	7114	7810	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
34	10	2892	2329	2224	0
34	12	3411	2795	2728	0
34	14	3928	3260	3235	0
34	16	4444	3726	3742	0
34	18	4958	4192	4250	0
34	20	5473	4658	4759	0
34	22	5987	5123	5268	0
34	24	6500	5589	5778	0
34	26	7443	6141	6673	0
34	28	7987	6614	7214	0
34	30	8531	7086	7756	0
34	32	9076	7559	8298	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
36	10	3062	2466	2355	0
36	12	3611	2959	2889	0
36	14	4159	3452	3425	0
36	16	4705	3945	3962	0
36	18	5250	4438	4500	0
36	20	5795	4932	5039	0
36	22	6339	5425	5578	0
36	24	6883	5918	6118	0
36	26	7881	6503	7065	0
36	28	8457	7003	7639	0
36	30	9033	7503	8212	0
36	32	9609	8003	8786	0

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Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
38	10	3232	2603	2486	0
38	12	3812	3123	3049	0
38	14	4390	3644	3615	0
38	16	4966	4164	4182	0
38	18	5542	4685	4750	0
38	20	6117	5206	5319	0
38	22	6691	5726	5888	0
38	24	7265	6247	6458	0
38	26	8318	6864	7458	0
38	28	8927	7392	8063	0
38	30	9535	7920	8668	0
38	32	10143	8448	9274	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
40	10	3402	2740	2617	0
40	12	4012	3288	3210	0
40	14	4621	3836	3805	0
40	16	5228	4384	4402	0
40	18	5834	4932	5000	0
40	20	6439	5479	5599	0
40	22	7043	6027	6198	0
40	24	7647	6575	6798	0
40	26	8756	7225	7850	0
40	28	9397	7781	8487	0
40	30	10037	8337	9125	0
40	32	10677	8893	9762	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
42	10	3572	2877	2748	0
42	12	4213	3452	3370	0
42	14	4852	4027	3996	0
42	16	5489	4603	4622	0
42	18	6125	5178	5250	0
42	20	6761	5753	5879	0
42	22	7395	6329	6508	0
42	24	8030	6904	7137	0
42	26	9194	7586	8243	0
42	28	9867	8170	8912	0
42	30	10539	8754	9581	0
42	32	11211	9337	10250	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
44	10	3742	3014	2879	0
44	12	4414	3616	3531	0
44	14	5083	4219	4186	0
44	16	5750	4822	4842	0
44	18	6417	5425	5500	0
44	20	7082	6027	6159	0
44	22	7747	6630	6818	0
44	24	8412	7233	7477	0
44	26	9632	7948	8635	0
44	28	10336	8559	9336	0
44	30	11041	9170	10037	0
44	32	11745	9782	10738	0

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Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
46	10	3912	3151	3009	0
46	12	4614	3781	3691	0
46	14	5314	4411	4376	0
46	16	6012	5041	5063	0
46	18	6709	5671	5750	0
46	20	7404	6301	6439	0
46	22	8100	6932	7128	0
46	24	8794	7562	7817	0
46	26	10070	8309	9028	0
46	28	10806	8948	9761	0
46	30	11543	9587	10493	0
46	32	12279	10226	11226	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
48	10	4082	3288	3140	0
48	12	4815	3945	3852	0
48	14	5545	4603	4566	0
48	16	6273	5260	5283	0
48	18	7000	5918	6000	0
48	20	7726	6575	6719	0
48	22	8452	7233	7438	0
48	24	9177	7890	8157	0
48	26	10508	8670	9421	0
48	28	11276	9337	10185	0
48	30	12044	10004	10949	0
48	32	12813	10671	11714	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
50	10	4252	3425	3271	0
50	12	5016	4110	4012	0
50	14	5776	4795	4757	0
50	16	6535	5479	5503	0
50	18	7292	6164	6250	0
50	20	8048	6849	6999	0
50	22	8804	7534	7747	0
50	24	9559	8219	8497	0
50	26	10945	9031	9813	0
50	28	11746	9726	10609	0
50	30	12546	10421	11406	0
50	32	13346	11116	12202	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
52	10	4422	3562	3402	0
52	12	5216	4274	4173	0
52	14	6007	4986	4947	0
52	16	6796	5699	5723	0
52	18	7584	6411	6500	0
52	20	8370	7123	7278	0
52	22	9156	7836	8057	0
52	24	9941	8548	8837	0
52	26	11383	9393	10206	0
52	28	12216	10115	11034	0
52	30	13048	10838	11862	0
52	32	13880	11560	12691	0

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Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
54	10	4593	3699	3533	0
54	12	5417	4438	4333	0
54	14	6238	5178	5137	0
54	16	7057	5918	5943	0
54	18	7875	6658	6750	0
54	20	8692	7397	7558	0
54	22	9508	8137	8367	0
54	24	10324	8877	9177	0
54	26	11821	9754	10598	0
54	28	12686	10504	11458	0
54	30	13550	11255	12318	0
54	32	14414	12005	13179	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
56	10	4763	3836	3664	0
56	12	5617	4603	4494	0
56	14	6469	5370	5328	0
56	16	7319	6137	6163	0
56	18	8167	6904	7000	0
56	20	9014	7671	7838	0
56	22	9860	8438	8677	0
56	24	10706	9206	9517	0
56	26	12259	10115	10991	0
56	28	13155	10893	11882	0
56	30	14052	11671	12774	0
56	32	14948	12450	13667	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
58	10	4933	3973	3794	0
58	12	5818	4767	4654	0
58	14	6700	5562	5518	0
58	16	7580	6356	6383	0
58	18	8459	7151	7250	0
58	20	9336	7945	8118	0
58	22	10213	8740	8987	0
58	24	11089	9534	9857	0
58	26	12697	10476	11383	0
58	28	13625	11282	12307	0
58	30	14554	12088	13231	0
58	32	15482	12894	14155	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
60	10	5103	4110	3925	0
60	12	6019	4932	4815	0
60	14	6931	5753	5708	0
60	16	7842	6575	6603	0
60	18	8750	7397	7500	0
60	20	9658	8219	8398	0
60	22	10565	9041	9297	0
60	24	11471	9863	10196	0
60	26	13134	10838	11776	0
60	28	14095	11671	12731	0
60	30	15056	12505	13687	0
60	32	16016	13339	14643	0

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Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
62	10	5273	4247	4056	0
62	12	6219	5096	4975	0
62	14	7162	5945	5898	0
62	16	8103	6795	6823	0
62	18	9042	7644	7750	0
62	20	9980	8493	8678	0
62	22	10917	9343	9607	0
62	24	11853	10192	10536	0
62	26	13572	11199	12168	0
62	28	14565	12060	13155	0
62	30	15557	12922	14143	0
62	32	16550	13783	15131	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
64	10	5443	4384	4187	0
64	12	6420	5260	5136	0
64	14	7393	6137	6089	0
64	16	8364	7014	7044	0
64	18	9334	7890	8000	0
64	20	10302	8767	8958	0
64	22	11269	9644	9917	0
64	24	12236	10521	10876	0
64	26	14010	11560	12561	0
64	28	15035	12450	13580	0
64	30	16059	13339	14599	0
64	32	17083	16276	15619	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
66	10	5613	4521	4318	0
66	12	6621	5425	5296	0
66	14	7624	6329	6279	0
66	16	8626	7233	7264	0
66	18	9625	8137	8250	0
66	20	10624	9041	9238	0
66	22	11621	9945	10227	0
66	24	12618	10849	11216	0
66	26	14448	11922	12953	0
66	28	15505	12839	14004	0
66	30	16561	13756	15056	0
66	32	17617	16785	16107	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
68	10	5783	4658	4449	0
68	12	6821	5589	5457	0
68	14	7855	6521	6469	0
68	16	8887	7452	7484	0
68	18	9917	8384	8500	0
68	20	10946	9315	9518	0
68	22	11973	10247	10537	0
68	24	13000	11178	11556	0
68	26	14886	12283	13346	0
68	28	15975	13228	14429	0
68	30	17063	16212	15512	0
68	32	18151	17293	16595	0

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Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
70	10	5953	4795	4579	0
70	12	7022	5753	5617	0
70	14	8086	6712	6659	0
70	16	9148	7671	7704	0
70	18	10209	8630	8750	0
70	20	11268	9589	9798	0
70	22	12326	10548	10846	0
70	24	13383	11507	11896	0
70	26	15323	12644	13738	0
70	28	16444	13617	14853	0
70	30	17565	16689	15968	0
70	32	18685	17802	17083	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
72	10	6123	4932	4710	0
72	12	7222	5918	5778	0
72	14	8317	6904	6850	0
72	16	9410	7890	7924	0
72	18	10500	8877	9000	0
72	20	11590	9863	10078	0
72	22	12678	10849	11156	0
72	24	13765	11836	12236	0
72	26	15761	13005	14131	0
72	28	16914	16022	15277	0
72	30	18067	17166	16424	0
72	32	19219	18311	17571	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
74	10	6293	5069	4841	0
74	12	7423	6082	5938	0
74	14	8549	7096	7040	0
74	16	9671	8110	8144	0
74	18	10792	9123	9250	0
74	20	11911	10137	10358	0
74	22	13030	11151	11466	0
74	24	14148	12164	12576	0
74	26	15323	13367	14523	0
74	28	16444	16467	15702	0
74	30	17565	17643	16880	0
74	32	18685	18819	18060	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
76	10	6464	5206	4972	0
76	12	7624	6247	6099	0
76	14	8780	7288	7230	0
76	16	9933	8329	8364	0
76	18	11084	9370	9500	0
76	20	12233	10411	10638	0
76	22	13382	11452	11776	0
76	24	14530	12493	12915	0
76	26	16637	13728	14916	0
76	28	17854	16912	16126	0
76	30	19070	18120	17337	0
76	32	20287	19328	18548	0

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Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
78	10	6634	5343	5103	0
78	12	7824	6411	6259	0
78	14	9011	7480	7420	0
78	16	10194	8548	8584	0
78	18	11375	9617	9750	0
78	20	12555	10685	10918	0
78	22	13734	11754	12086	0
78	24	14912	12822	13255	0
78	26	17075	16117	15308	0
78	28	18324	17357	16550	0
78	30	19572	18597	17793	0
78	32	20820	19836	19036	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
80	10	6804	5479	5234	0
80	12	8025	6575	6420	0
80	14	9242	7671	7611	0
80	16	10455	8767	8805	0
80	18	11667	9863	10000	0
80	20	12877	10959	11198	0
80	22	14086	12055	12396	0
80	24	15295	13151	13595	0
80	26	17513	16530	15701	0
80	28	18794	17802	16975	0
80	30	20074	19073	18249	0
80	32	21354	22905	19524	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
82	10	6974	5616	5365	0
82	12	8226	6740	6580	0
82	14	9473	7863	7801	0
82	16	10717	8986	9025	0
82	18	11959	10110	10250	0
82	20	13199	11233	11478	0
82	22	14439	12356	12706	0
82	24	15677	13480	13935	0
82	26	17950	16944	16093	0
82	28	19263	18247	17399	0
82	30	20576	19550	18705	0
82	32	21888	23478	20012	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
84	10	7144	5753	5495	0
84	12	8426	6904	6741	0
84	14	9704	8055	7991	0
84	16	10978	9206	9245	0
84	18	12250	10356	10500	0
84	20	13521	11507	11757	0
84	22	14791	12658	13016	0
84	24	16059	15824	14275	0
84	26	18388	17357	16486	0
84	28	19733	18692	17824	0
84	30	21078	22547	19162	0
84	32	22422	24050	20500	0

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Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
86	10	7314	5890	5626	0
86	12	8627	7069	6901	0
86	14	9935	8247	8182	0
86	16	11240	9425	9465	0
86	18	12542	10603	10750	0
86	20	13843	11781	12037	0
86	22	15143	12959	13326	0
86	24	16442	16201	14615	0
86	26	18826	17770	16878	0
86	28	20203	19137	18248	0
86	30	21580	23084	19618	0
86	32	22956	24623	20988	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
88	10	7484	6027	5757	0
88	12	8827	7233	7062	0
88	14	10166	8438	8372	0
88	16	11501	9644	9685	0
88	18	12834	10849	11000	0
88	20	14165	12055	12317	0
88	22	15495	13260	13636	0
88	24	16824	16578	14955	0
88	26	19264	18183	17271	0
88	28	20673	19582	18672	0
88	30	22081	23621	20074	0
88	32	23490	25196	21476	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
90	10	7654	6164	5888	0
90	12	9028	7397	7222	0
90	14	10397	8630	8562	0
90	16	11762	9863	9905	0
90	18	13125	11096	11250	0
90	20	14487	12329	12597	0
90	22	15847	13562	13945	0
90	24	17206	16955	15295	0
90	26	19702	18597	17664	0
90	28	21143	22547	19097	0
90	30	22583	24158	20530	0
90	32	24024	25768	21964	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
92	10	7824	6301	6019	0
92	12	9229	7562	7383	0
92	14	10628	8822	8752	0
92	16	12024	10082	10125	0
92	18	13417	11343	11500	0
92	20	14809	12603	12877	0
92	22	16199	15887	14255	0
92	24	17589	17331	15634	0
92	26	20139	19010	18056	0
92	28	21613	23048	19521	0
92	30	23085	24694	20987	0
92	32	24557	26341	22452	0

HIGHER POWER HYDRAULIC DOORS
UNFACTORED DOOR JAMB REACTIONS - 120 mph - ASCE 7-22 / IBC-24

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
94	10	7994	6438	6150	0
94	12	9429	7726	7543	0
94	14	10859	9014	8943	0
94	16	12285	10301	10345	0
94	18	13709	11589	11750	0
94	20	15131	12877	13157	0
94	22	16551	16232	14565	0
94	24	17971	17708	15974	0
94	26	20577	19423	18449	0
94	28	22082	23549	19945	0
94	30	23587	25231	21443	0
94	32	25091	29921	22941	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
96	10	8165	6575	6280	0
96	12	9630	7890	7704	0
96	14	11090	9206	9133	0
96	16	12546	10521	10565	0
96	18	14000	11836	12000	0
96	20	15453	13151	13437	0
96	22	16904	16578	14875	0
96	24	18354	18085	16314	0
96	26	21015	19836	18841	0
96	28	22552	24050	20370	0
96	30	24089	25768	21899	0
96	32	25625	30558	23429	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
98	10	8335	6712	6411	0
98	12	9831	8055	7864	0
98	14	11321	9397	9323	0
98	16	12808	10740	10786	0
98	18	14292	12082	12250	0
98	20	15775	13425	13717	0
98	22	17256	16923	15185	0
98	24	18736	18462	16654	0
98	26	21453	22798	19234	0
98	28	23022	24551	20794	0
98	30	24591	26305	22355	0
98	32	26159	31195	23917	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
100	10	8505	6849	6542	0
100	12	10031	8219	8025	0
100	14	11552	9589	9513	0
100	16	13069	10959	11006	0
100	18	14584	12329	12500	0
100	20	16097	13699	13997	0
100	22	17608	17269	15495	0
100	24	19118	18838	16994	0
100	26	21891	23263	19626	0
100	28	23492	25052	21219	0
100	30	25093	29842	22811	0
100	32	26693	31831	24405	0

HIGHER POWER HYDRAULIC DOORS
UNFACTORED DOOR JAMB REACTIONS - 120 mph - ASCE 7-22 / IBC-24

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
105	10	8930	7192	6869	0
105	12	10533	8630	8426	0
105	14	12130	10069	9989	0
105	16	13723	11507	11556	0
105	18	15313	12945	13125	0
105	20	16901	16484	14697	0
105	22	18488	18132	16270	0
105	24	20074	22300	17844	0
105	26	22985	24426	20607	0
105	28	24667	26305	22279	0
105	30	26347	31334	23952	0
105	32	28027	33423	25625	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
110	10	9355	7534	7196	0
110	12	11034	9041	8827	0
110	14	12707	10548	10465	0
110	16	14376	12055	12106	0
110	18	16042	13562	13750	0
110	20	17706	17269	15397	0
110	22	19369	18995	17044	0
110	24	21030	23362	18693	0
110	26	24080	25589	21589	0
110	28	25841	30638	23340	0
110	30	27602	32826	25093	0
110	32	29362	38534	26845	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
115	10	9780	7877	7523	0
115	12	11536	9452	9229	0
115	14	13285	11027	10940	0
115	16	15030	12603	12656	0
115	18	16771	16248	14375	0
115	20	18511	18054	16097	0
115	22	20249	22389	17819	0
115	24	21986	24424	19543	0
115	26	25174	26752	22570	0
115	28	27016	32030	24401	0
115	30	28856	34318	26233	0
115	32	30697	40286	28066	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
120	10	10206	8219	7850	0
120	12	12037	9863	9630	0
120	14	13862	11507	11416	0
120	16	15683	13151	13207	0
120	18	17501	16955	15000	0
120	20	19316	18838	16796	0
120	22	21130	23362	18594	0
120	24	22942	25486	20393	0
120	26	26269	31036	23551	0
120	28	28190	33423	25462	0
120	30	30111	39410	27374	0
120	32	32031	42038	29286	0

HIGHER POWER HYDRAULIC DOORS
UNFACTORED DOOR JAMB REACTIONS - 120 mph - ASCE 7-22 / IBC-24

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
125	10	10631	8562	8178	0
125	12	12539	10274	10031	0
125	14	14440	11986	11892	0
125	16	16337	13699	13757	0
125	18	18230	17661	15626	0
125	20	20121	22123	17496	0
125	22	22010	24336	19369	0
125	24	23898	29548	21243	0
125	26	27363	32329	24533	0
125	28	29365	38315	26523	0
125	30	31366	41052	28514	0
125	32	33366	47789	30506	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
130	10	11056	8904	8505	0
130	12	13041	10685	10432	0
130	14	15018	12466	12367	0
130	16	16990	16327	14307	0
130	18	18959	18368	16251	0
130	20	20926	23008	18196	0
130	22	22890	25309	20143	0
130	24	24854	30730	22092	0
130	26	28458	33622	25514	0
130	28	30539	39848	27584	0
130	30	32620	42694	29655	0
130	32	34701	49701	31726	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
135	10	11481	9247	8832	0
135	12	13542	11096	10834	0
135	14	15595	12945	12843	0
135	16	17643	16955	14858	0
135	18	19688	19074	16876	0
135	20	21730	23893	18896	0
135	22	23771	26283	20918	0
135	24	25810	31912	22942	0
135	26	29552	38425	26495	0
135	28	31714	41381	28645	0
135	30	33875	48386	30795	0
135	32	36035	51612	32947	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
140	10	11907	9589	9159	0
140	12	14044	11507	11235	0
140	14	16173	13425	13319	0
140	16	18297	17583	15408	0
140	18	20417	22300	17501	0
140	20	22535	24778	19596	0
140	22	24651	30336	21693	0
140	24	26766	33094	23792	0
140	26	30647	39848	27477	0
140	28	32889	42913	29706	0
140	30	35130	50179	31936	0
140	32	37370	53524	34167	0

HIGHER POWER HYDRAULIC DOORS
UNFACTORED DOOR JAMB REACTIONS - 120 mph - ASCE 7-22 / IBC-24

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
145	10	12332	9932	9486	0
145	12	14545	11918	11636	0
145	14	16750	15934	13794	0
145	16	18950	18211	15958	0
145	18	21147	23097	18126	0
145	20	23340	25663	20296	0
145	22	25532	31419	22468	0
145	24	27721	34276	24641	0
145	26	31742	41271	28458	0
145	28	34063	48506	30767	0
145	30	36384	51971	33077	0
145	32	38705	60075	35387	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
150	10	12757	10274	9813	0
150	12	15047	12329	12037	0
150	14	17328	16484	14270	0
150	16	19604	18838	16508	0
150	18	21876	23893	18751	0
150	20	24145	29548	20996	0
150	22	26412	32503	23242	0
150	24	28677	39058	25491	0
150	26	32836	42694	29439	0
150	28	35238	50179	31828	0
150	30	37639	58263	34217	0
150	32	40039	62147	36607	0