

HIGHER POWER HYDRAULIC DOORS
UNFACTORED DOOR JAMB REACTIONS - 110 mph - ASCE 7-22 / IBC-24

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
$h \leq 24$ ft	110	25.3	50	7.2	50	3.2	-5.9
$24 \text{ ft} < h \leq 32$ ft		26.8		7.6		3.4	-6.2
$32 \text{ ft} < h \leq 40$ ft		28.1		8.0		3.6	-6.5
$40 \text{ ft} < h \leq 50$ ft		29.2		8.3		3.7	-6.8

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'.

For doors $32' < h \leq 40'$, assumed mean roof height = 50'.

For doors $40' < h \leq 50'$, assumed mean roof height = 60'.

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	2144	1980	1649	0
30	12	2529	2376	2023	0
30	14	2912	2772	2398	0
30	16	3295	3168	2774	0
30	18	3676	3564	3151	0
30	20	4058	3960	3528	0
30	22	4439	4356	3906	0
30	24	4819	4752	4284	0
30	26	5518	5224	4947	0
30	28	5922	5626	5349	0
30	30	6325	6028	5750	0
30	32	6729	6429	6152	0
30	34	7475	6914	6869	0
30	36	7898	7321	7290	0
30	38	8320	7728	7711	0
30	40	8743	8135	8133	0
30	42	9501	8624	8868	0
30	44	9939	9034	9305	0
30	46	10377	9445	9742	0
30	48	10815	9856	10179	0
30	50	11252	10266	10616	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#)	Vert. (#)	Horiz. (#)	Vert. (#)
32	10	2287	2112	1759	0
32	12	2697	2534	2158	0
32	14	3106	2957	2558	0
32	16	3514	3379	2959	0
32	18	3921	3801	3361	0
32	20	4328	4224	3764	0
32	22	4735	4646	4166	0
32	24	5141	5068	4570	0
32	26	5886	5572	5277	0
32	28	6317	6001	5705	0
32	30	6747	6429	6134	0
32	32	7177	6858	6562	0
32	34	7973	7375	7327	0
32	36	8424	7809	7776	0
32	38	8875	8243	8225	0
32	40	9325	8677	8675	0
32	42	10135	9199	9459	0
32	44	10602	9637	9925	0
32	46	11069	10075	10391	0
32	48	11536	10513	10857	0
32	50	12003	10951	11323	0

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Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#)	Vert. (#)	Horiz. (#)	Vert. (#)
34	10	2430	2244	1869	0
34	12	2866	2693	2293	0
34	14	3300	3141	2718	0
34	16	3734	3590	3144	0
34	18	4167	4039	3571	0
34	20	4599	4488	3999	0
34	22	5030	4936	4427	0
34	24	5462	5385	4855	0
34	26	6254	5920	5607	0
34	28	6712	6376	6062	0
34	30	7169	6831	6517	0
34	32	7626	7287	6972	0
34	34	8472	7836	7785	0
34	36	8951	8297	8262	0
34	38	9429	8758	8739	0
34	40	9908	9219	9217	0
34	42	10768	9773	10050	0
34	44	11264	10239	10545	0
34	46	11761	10704	11041	0
34	48	12257	11170	11536	0
34	50	12753	11635	12031	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#)	Vert. (#)	Horiz. (#)	Vert. (#)
36	10	2573	2376	1979	0
36	12	3034	2851	2428	0
36	14	3494	3326	2878	0
36	16	3953	3801	3329	0
36	18	4412	4276	3781	0
36	20	4869	4752	4234	0
36	22	5326	5227	4687	0
36	24	5783	5702	5141	0
36	26	6622	6269	5937	0
36	28	7106	6751	6419	0
36	30	7591	7233	6900	0
36	32	8075	7715	7382	0
36	34	8970	8297	8243	0
36	36	9477	8785	8748	0
36	38	9984	9274	9254	0
36	40	10491	9762	9759	0
36	42	11402	10348	10641	0
36	44	11927	10841	11166	0
36	46	12452	11334	11690	0
36	48	12978	11827	12214	0
36	50	13503	12319	12739	0

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Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#)	Vert. (#)	Horiz. (#)	Vert. (#)
38	10	2716	2508	2089	0
38	12	3203	3009	2562	0
38	14	3689	3511	3038	0
38	16	4173	4012	3514	0
38	18	4657	4514	3991	0
38	20	5140	5016	4469	0
38	22	5622	5517	4948	0
38	24	6105	6019	5426	0
38	26	6990	6617	6267	0
38	28	7501	7126	6775	0
38	30	8012	7635	7284	0
38	32	8523	8144	7793	0
38	34	9468	8758	8701	0
38	36	10004	9274	9234	0
38	38	10539	9789	9768	0
38	40	11074	10304	10301	0
38	42	12035	10923	11233	0
38	44	12590	11443	11786	0
38	46	13144	11964	12339	0
38	48	13699	12484	12893	0
38	50	14253	13004	13446	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#)	Vert. (#)	Horiz. (#)	Vert. (#)
40	10	2859	2640	2199	0
40	12	3372	3168	2697	0
40	14	3883	3696	3198	0
40	16	4393	4224	3699	0
40	18	4902	4752	4202	0
40	20	5410	5279	4705	0
40	22	5918	5807	5208	0
40	24	6426	6335	5712	0
40	26	7358	6965	6597	0
40	28	7896	7501	7132	0
40	30	8434	8037	7667	0
40	32	8972	8573	8203	0
40	34	9967	9219	9159	0
40	36	10530	9762	9720	0
40	38	11093	10304	10282	0
40	40	11657	10846	10843	0
40	42	12668	11498	11824	0
40	44	13252	12046	12406	0
40	46	13836	12593	12989	0
40	48	14420	13141	13571	0
40	50	15003	13688	14154	0

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Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#)	Vert. (#)	Horiz. (#)	Vert. (#)
42	10	3001	2772	2309	0
42	12	3540	3326	2832	0
42	14	4077	3880	3357	0
42	16	4612	4435	3884	0
42	18	5147	4989	4412	0
42	20	5681	5543	4940	0
42	22	6214	6098	5468	0
42	24	6747	6652	5997	0
42	26	7276	7313	6926	0
42	28	8291	7876	7488	0
42	30	8856	8439	8051	0
42	32	9420	9001	8613	0
42	34	10465	9680	9616	0
42	36	11057	10250	10206	0
42	38	11648	10819	10796	0
42	40	12240	11389	11386	0
42	42	13302	12073	12415	0
42	44	13915	12648	13027	0
42	46	14528	13223	13638	0
42	48	15141	15814	14250	0
42	50	15753	16473	14862	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#)	Vert. (#)	Horiz. (#)	Vert. (#)
44	10	3144	2904	2419	0
44	12	3709	3484	2967	0
44	14	4271	4065	3517	0
44	16	4832	4646	4069	0
44	18	5392	5227	4622	0
44	20	5951	5807	5175	0
44	22	6510	6388	5729	0
44	24	7068	6969	6283	0
44	26	8093	7550	7256	0
44	28	8685	8130	7845	0
44	30	9277	8711	8434	0
44	32	9869	9292	9023	0
44	34	10963	9873	10074	0
44	36	11583	10453	10692	0
44	38	12203	11034	11310	0
44	40	12822	11615	11928	0
44	42	13935	12196	13006	0
44	44	14577	12776	13647	0
44	46	15220	15381	14288	0
44	48	15862	16050	14929	0
44	50	16504	16719	15569	0

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Width (ft)	Height (ft)	Horiz. (#)	Vert. (#)	Horiz. (#)	Vert. (#)
46	10	3287	3036	2529	0
46	12	3877	3643	3102	0
46	14	4465	4250	3677	0
46	16	5052	4857	4254	0
46	18	5637	5464	4832	0
46	20	6222	6071	5410	0
46	22	6806	6679	5989	0
46	24	7390	7286	6569	0
46	26	8461	8010	7586	0
46	28	9080	8626	8202	0
46	30	9699	9242	8817	0
46	32	10318	9858	9433	0
46	34	11462	10602	10532	0
46	36	12110	11226	11178	0
46	38	12757	11849	11824	0
46	40	13405	12473	12470	0
46	42	14569	13223	13597	0
46	44	15240	15877	14267	0
46	46	15911	16598	14937	0
46	48	16583	17320	15607	0
46	50	17254	18042	16277	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#)	Vert. (#)	Horiz. (#)	Vert. (#)
48	10	3430	3168	2639	0
48	12	4046	3801	3237	0
48	14	4659	4435	3837	0
48	16	5271	5068	4439	0
48	18	5882	5702	5042	0
48	20	6492	6335	5645	0
48	22	7102	6969	6250	0
48	24	7711	7602	6854	0
48	26	8829	8358	7916	0
48	28	9475	9001	8558	0
48	30	10121	9644	9201	0
48	32	10766	10287	9843	0
48	34	11960	11063	10990	0
48	36	12636	11714	11664	0
48	38	13312	12365	12338	0
48	40	13988	13015	13012	0
48	42	15202	15814	14189	0
48	44	15903	16567	14888	0
48	46	16603	17320	15587	0
48	48	17304	18073	16286	0
48	50	18004	18826	16985	0

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Width (ft)	Height (ft)	Horiz. (#)	Vert. (#)	Horiz. (#)	Vert. (#)
50	10	3573	3300	2749	0
50	12	4214	3960	3372	0
50	14	4853	4620	3997	0
50	16	5491	5279	4624	0
50	18	6127	5939	5252	0
50	20	6763	6599	5881	0
50	22	7398	7259	6510	0
50	24	8032	7919	7140	0
50	26	9197	8706	8246	0
50	28	9870	9376	8915	0
50	30	10542	10046	9584	0
50	32	11215	10716	10253	0
50	34	12458	11524	11448	0
50	36	13163	12202	12150	0
50	38	13867	12880	12852	0
50	40	14571	13558	13554	0
50	42	15835	16473	14780	0
50	44	16565	17257	15508	0
50	46	17295	18042	16236	0
50	48	18025	18826	16964	0
50	50	18754	22110	17693	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#)	Vert. (#)	Horiz. (#)	Vert. (#)
52	10	3716	3432	2859	0
52	12	4383	4118	3506	0
52	14	5048	4804	4157	0
52	16	5711	5491	4809	0
52	18	6372	6177	5462	0
52	20	7033	6863	6116	0
52	22	7694	7550	6770	0
52	24	8354	8236	7425	0
52	26	9565	9055	8576	0
52	28	10265	9751	9271	0
52	30	10964	10448	9967	0
52	32	11663	11144	10664	0
52	34	12957	11985	11906	0
52	36	13689	12690	12636	0
52	38	14422	13395	13366	0
52	40	15154	16180	14097	0
52	42	16469	17132	15371	0
52	44	17228	17947	16128	0
52	46	17987	18763	16886	0
52	48	18746	19579	17643	0
52	50	19504	22995	18400	0

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Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#)	Vert. (#)	Horiz. (#)	Vert. (#)
54	10	3859	3564	2968	0
54	12	4552	4276	3641	0
54	14	5242	4989	4317	0
54	16	5930	5702	4994	0
54	18	6617	6415	5672	0
54	20	7304	7127	6351	0
54	22	7990	7840	7031	0
54	24	8675	8553	7711	0
54	26	9363	9266	8391	0
54	28	10051	9979	9071	0
54	30	10740	10692	9751	0
54	32	11428	11405	10431	0
54	34	12117	12118	11111	0
54	36	12805	12829	11791	0
54	38	13494	13542	12471	0
54	40	14182	14255	13151	0
54	42	14871	14968	13831	0
54	44	15560	15681	14511	0
54	46	16248	16394	15191	0
54	48	16937	17107	15871	0
54	50	17625	17820	16551	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#)	Vert. (#)	Horiz. (#)	Vert. (#)
56	10	4002	3696	3078	0
56	12	4720	4435	3776	0
56	14	5436	5174	4477	0
56	16	6150	5913	5179	0
56	18	6862	6652	5882	0
56	20	7574	7391	6586	0
56	22	8286	8130	7291	0
56	24	8996	8870	7997	0
56	26	9705	9609	8702	0
56	28	10414	10348	9407	0
56	30	11122	11087	10112	0
56	32	11830	11826	10817	0
56	34	12538	12565	11522	0
56	36	13246	13304	12227	0
56	38	13954	14043	12932	0
56	40	14662	14782	13637	0
56	42	15370	15521	14342	0
56	44	16078	16260	15047	0
56	46	16786	17000	15752	0
56	48	17494	17739	16457	0
56	50	18202	18478	17162	0

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Width (ft)	Height (ft)	Horiz. (#)	Vert. (#)	Horiz. (#)	Vert. (#)
58	10	4145	3828	3188	0
58	12	4889	4593	3911	0
58	14	5630	5359	4636	0
58	16	6369	6124	5364	0
58	18	7108	6890	6092	0
58	20	7845	7655	6822	0
58	22	8581	8421	7552	0
58	24	9317	9186	8282	0
58	26	10669	10099	9565	0
58	28	11449	10876	10341	0
58	30	12229	11653	11117	0
58	32	13009	12430	11894	0
58	34	14452	13368	13280	0
58	36	15269	16242	14094	0
58	38	16086	17145	14909	0
58	40	16902	18047	15723	0
58	42	18369	19108	17145	0
58	44	19216	22570	17989	0
58	46	20062	23596	18834	0
58	48	20909	24622	19679	0
58	50	21755	25648	20523	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#)	Vert. (#)	Horiz. (#)	Vert. (#)
60	10	4288	3960	3298	0
60	12	5057	4752	4046	0
60	14	5824	5543	4796	0
60	16	6589	6335	5549	0
60	18	7353	7127	6302	0
60	20	8115	7919	7057	0
60	22	8877	8711	7812	0
60	24	9639	9503	8568	0
60	26	11037	10448	9895	0
60	28	11844	11251	10698	0
60	30	12651	12055	11501	0
60	32	13458	12859	12304	0
60	34	14950	15869	13738	0
60	36	15795	16802	14580	0
60	38	16640	17736	15423	0
60	40	17485	18669	16265	0
60	42	19003	22287	17736	0
60	44	19878	23349	18609	0
60	46	20754	24410	19483	0
60	48	21629	25471	20357	0
60	50	22505	29532	21231	0

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Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#)	Vert. (#)	Horiz. (#)	Vert. (#)
62	10	4431	4092	3408	0
62	12	5226	4910	4181	0
62	14	6018	5728	4956	0
62	16	6809	6547	5734	0
62	18	7598	7365	6512	0
62	20	8386	8183	7292	0
62	22	9173	9002	8072	0
62	24	9960	9820	8853	0
62	26	11404	10796	10225	0
62	28	12239	11626	11054	0
62	30	13073	12457	11884	0
62	32	13906	13287	12714	0
62	34	15448	16398	14196	0
62	36	16322	17362	15066	0
62	38	17195	18327	15937	0
62	40	18068	19292	16807	0
62	42	19636	23030	18327	0
62	44	20541	24127	19230	0
62	46	21446	25224	20133	0
62	48	22350	26320	21036	0
62	50	23255	30517	21939	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#)	Vert. (#)	Horiz. (#)	Vert. (#)
64	10	4574	4224	3518	0
64	12	5395	5068	4316	0
64	14	6212	5913	5116	0
64	16	7028	6758	5919	0
64	18	7843	7602	6722	0
64	20	8656	8447	7527	0
64	22	9469	9292	8333	0
64	24	10281	10137	9139	0
64	26	11772	11144	10554	0
64	28	12633	12002	11411	0
64	30	13494	12859	12267	0
64	32	14355	15764	13124	0
64	34	15947	16927	14654	0
64	36	16848	17923	15552	0
64	38	17750	18918	16451	0
64	40	18651	22474	17350	0
64	42	20269	23773	18918	0
64	44	21204	24905	19850	0
64	46	22138	26037	20782	0
64	48	23071	30241	21714	0
64	50	24005	31501	22647	0

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Width (ft)	Height (ft)	Horiz. (#)	Vert. (#)	Horiz. (#)	Vert. (#)
66	10	4717	4356	3628	0
66	12	5563	5227	4451	0
66	14	6407	6098	5276	0
66	16	7248	6969	6104	0
66	18	8088	7840	6933	0
66	20	8927	8711	7763	0
66	22	9765	9582	8593	0
66	24	10603	10453	9425	0
66	26	12140	11493	10884	0
66	28	13028	12377	11767	0
66	30	13916	13261	12651	0
66	32	14803	16257	13535	0
66	34	16445	17456	15112	0
66	36	17375	18483	16038	0
66	38	18304	22017	16965	0
66	40	19234	23176	17892	0
66	42	20903	24516	19509	0
66	44	21866	25683	20470	0
66	46	22829	29887	21432	0
66	48	23792	31186	22393	0
66	50	24755	32486	23354	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#)	Vert. (#)	Horiz. (#)	Vert. (#)
68	10	4859	4488	3738	0
68	12	5732	5385	4585	0
68	14	6601	6283	5436	0
68	16	7468	7180	6289	0
68	18	8333	8078	7143	0
68	20	9197	8975	7998	0
68	22	10061	9873	8854	0
68	24	10924	10770	9710	0
68	26	12508	11841	11214	0
68	28	13423	12752	12124	0
68	30	14338	15702	13034	0
68	32	15252	16749	13945	0
68	34	16943	17985	15570	0
68	36	17901	19043	16524	0
68	38	18859	22685	17479	0
68	40	19816	23879	18434	0
68	42	21536	25259	20101	0
68	44	22529	26462	21091	0
68	46	23521	30793	22081	0
68	48	24513	32131	23071	0
68	50	25506	33470	24062	0

HIGHER POWER HYDRAULIC DOORS
UNFACTORED DOOR JAMB REACTIONS - 110 mph - ASCE 7-22 / IBC-24

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#)	Vert. (#)	Horiz. (#)	Vert. (#)
70	10	5002	4620	3848	0
70	12	5900	5543	4720	0
70	14	6795	6467	5596	0
70	16	7687	7391	6473	0
70	18	8578	8315	7353	0
70	20	9468	9239	8233	0
70	22	10357	10163	9114	0
70	24	11245	11087	9996	0
70	26	12876	12189	11544	0
70	28	13818	13127	12481	0
70	30	14759	16164	13418	0
70	32	15701	17242	14355	0
70	34	17442	18514	16027	0
70	36	18428	22123	17010	0
70	38	19414	23352	17993	0
70	40	20399	24581	18976	0
70	42	22170	26002	20692	0
70	44	23191	30320	21711	0
70	46	24213	31698	22730	0
70	48	25234	33076	23750	0
70	50	26256	37955	24770	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#)	Vert. (#)	Horiz. (#)	Vert. (#)
72	10	5145	4752	3958	0
72	12	6069	5702	4855	0
72	14	6989	6652	5756	0
72	16	7907	7602	6658	0
72	18	8823	8553	7563	0
72	20	9738	9503	8468	0
72	22	10653	10453	9374	0
72	24	11567	11404	10281	0
72	26	13244	12537	11874	0
72	28	14213	15518	12837	0
72	30	15181	16626	13801	0
72	32	16149	17735	14765	0
72	34	17940	19043	16485	0
72	36	18954	22755	17496	0
72	38	19968	24019	18507	0
72	40	20982	25283	19518	0
72	42	22803	29769	21283	0
72	44	23854	31186	22331	0
72	46	24905	32604	23380	0
72	48	25955	34021	24429	0
72	50	27006	39039	25477	0

HIGHER POWER HYDRAULIC DOORS
UNFACTORED DOOR JAMB REACTIONS - 110 mph - ASCE 7-22 / IBC-24

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#)	Vert. (#)	Horiz. (#)	Vert. (#)
74	10	5288	4884	4068	0
74	12	6237	5860	4990	0
74	14	7183	6837	5916	0
74	16	8127	7814	6843	0
74	18	9068	8790	7773	0
74	20	10009	9767	8703	0
74	22	10949	10744	9635	0
74	24	11888	11720	10567	0
74	26	13612	12886	12204	0
74	28	14607	15949	13194	0
74	30	15603	17088	14184	0
74	32	16598	18227	15175	0
74	34	18438	22088	16943	0
74	36	19481	23387	17982	0
74	38	20523	24686	19021	0
74	40	21565	25985	20060	0
74	42	23437	30596	21874	0
74	44	24517	32053	22952	0
74	46	25597	33510	24029	0
74	48	26676	38518	25107	0
74	50	27756	40123	26185	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#)	Vert. (#)	Horiz. (#)	Vert. (#)
76	10	5431	5016	4178	0
76	12	6406	6019	5125	0
76	14	7377	7022	6075	0
76	16	8346	8025	7028	0
76	18	9313	9028	7983	0
76	20	10279	10031	8939	0
76	22	11245	11034	9895	0
76	24	12209	12037	10853	0
76	26	13980	13234	12533	0
76	28	15002	16380	13550	0
76	30	16024	17550	14568	0
76	32	17046	18720	15585	0
76	34	18937	22685	17401	0
76	36	20007	24019	18468	0
76	38	21078	25353	19535	0
76	40	22148	29728	20603	0
76	42	24070	31423	22465	0
76	44	25179	32919	23572	0
76	46	26288	34415	24679	0
76	48	27397	39559	25786	0
76	50	28506	41208	26893	0

HIGHER POWER HYDRAULIC DOORS
UNFACTORED DOOR JAMB REACTIONS - 110 mph - ASCE 7-22 / IBC-24

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#)	Vert. (#)	Horiz. (#)	Vert. (#)
78	10	5574	5148	4288	0
78	12	6575	6177	5260	0
78	14	7571	7207	6235	0
78	16	8566	8236	7213	0
78	18	9558	9266	8193	0
78	20	10550	10295	9174	0
78	22	11541	11325	10156	0
78	24	12530	12354	11138	0
78	26	14348	15610	12863	0
78	28	15397	16811	13907	0
78	30	16446	18012	14951	0
78	32	17495	19212	15995	0
78	34	19435	23282	17859	0
78	36	20534	24651	18954	0
78	38	21632	26021	20049	0
78	40	22731	30510	21145	0
78	42	24703	32249	23056	0
78	44	25842	33785	24192	0
78	46	26980	38909	25328	0
78	48	28118	40601	26464	0
78	50	29256	42292	27600	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#)	Vert. (#)	Horiz. (#)	Vert. (#)
80	10	5717	5279	4398	0
80	12	6743	6335	5395	0
80	14	7766	7391	6395	0
80	16	8785	8447	7398	0
80	18	9804	9503	8403	0
80	20	10820	10559	9409	0
80	22	11836	11615	10416	0
80	24	12852	12671	11424	0
80	26	14715	16010	13193	0
80	28	15792	17242	14264	0
80	30	16868	18473	15334	0
80	32	17943	22265	16405	0
80	34	19933	23879	18317	0
80	36	21060	25283	19440	0
80	38	22187	29728	20563	0
80	40	23313	31292	21687	0
80	42	25337	33076	23648	0
80	44	26504	38171	24813	0
80	46	27672	39907	25978	0
80	48	28839	41642	27143	0
80	50	30007	47377	28308	0

HIGHER POWER HYDRAULIC DOORS
UNFACTORED DOOR JAMB REACTIONS - 110 mph - ASCE 7-22 / IBC-24

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#)	Vert. (#)	Horiz. (#)	Vert. (#)
82	10	5860	5411	4508	0
82	12	6912	6494	5529	0
82	14	7960	7576	6555	0
82	16	9005	8658	7583	0
82	18	10049	9741	8613	0
82	20	11091	10823	9644	0
82	22	12132	11905	10676	0
82	24	13173	12988	11709	0
82	26	15083	16411	13523	0
82	28	16187	17673	14620	0
82	30	17289	18935	15718	0
82	32	18392	22822	16816	0
82	34	20432	24476	18775	0
82	36	21587	25915	19926	0
82	38	22742	30471	21078	0
82	40	23896	32075	22229	0
82	42	25970	33903	24239	0
82	44	27167	39126	25433	0
82	46	28364	40904	26627	0
82	48	29560	42683	27821	0
82	50	30757	48561	29016	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#)	Vert. (#)	Horiz. (#)	Vert. (#)
84	10	6003	5543	4618	0
84	12	7080	6652	5664	0
84	14	8154	7761	6715	0
84	16	9225	8870	7768	0
84	18	10294	9978	8823	0
84	20	11361	11087	9880	0
84	22	12428	12196	10937	0
84	24	13494	15320	11995	0
84	26	15451	16811	13853	0
84	28	16581	18104	14977	0
84	30	17711	21917	16101	0
84	32	18841	23378	17226	0
84	34	20930	25072	19233	0
84	36	22113	29571	20412	0
84	38	23296	31214	21592	0
84	40	24479	32857	22771	0
84	42	26604	38258	24830	0
84	44	27830	40080	26053	0
84	46	29056	41902	27277	0
84	48	30281	47756	28500	0
84	50	31507	49745	29724	0

HIGHER POWER HYDRAULIC DOORS
UNFACTORED DOOR JAMB REACTIONS - 110 mph - ASCE 7-22 / IBC-24

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#)	Vert. (#)	Horiz. (#)	Vert. (#)
86	10	6146	5675	4728	0
86	12	7249	6811	5799	0
86	14	8348	7946	6875	0
86	16	9444	9081	7953	0
86	18	10539	10216	9033	0
86	20	11632	11351	10115	0
86	22	12724	12486	11197	0
86	24	13816	15685	12281	0
86	26	15819	17211	14183	0
86	28	16976	18535	15333	0
86	30	18133	22439	16484	0
86	32	19289	23935	17636	0
86	34	21428	25669	19691	0
86	36	22640	30275	20898	0
86	38	23851	31957	22106	0
86	40	25062	33639	23313	0
86	42	27237	39169	25421	0
86	44	28492	41034	26674	0
86	46	29747	42899	27926	0
86	48	31002	48893	29179	0
86	50	32257	50930	30431	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#)	Vert. (#)	Horiz. (#)	Vert. (#)
88	10	6289	5807	4838	0
88	12	7418	6969	5934	0
88	14	8542	8130	7035	0
88	16	9664	9292	8138	0
88	18	10784	10453	9243	0
88	20	11903	11615	10350	0
88	22	13020	12776	11458	0
88	24	14137	16050	12566	0
88	26	16187	17611	14512	0
88	28	17371	18966	15690	0
88	30	18555	22961	16868	0
88	32	19738	24492	18046	0
88	34	21927	26266	20149	0
88	36	23166	30979	21384	0
88	38	24406	32701	22620	0
88	40	25645	37942	23856	0
88	42	27870	40080	26012	0
88	44	29155	41989	27294	0
88	46	30439	47945	28575	0
88	48	31723	50030	29857	0
88	50	33007	52114	31139	0

HIGHER POWER HYDRAULIC DOORS
UNFACTORED DOOR JAMB REACTIONS - 110 mph - ASCE 7-22 / IBC-24

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#)	Vert. (#)	Horiz. (#)	Vert. (#)
90	10	6432	5939	4947	0
90	12	7586	7127	6069	0
90	14	8736	8315	7195	0
90	16	9884	9503	8323	0
90	18	11029	10691	9453	0
90	20	12173	11879	10585	0
90	22	13316	13067	11718	0
90	24	14458	16415	12852	0
90	26	16555	18012	14842	0
90	28	17766	21917	16046	0
90	30	18976	23483	17251	0
90	32	20186	25048	18456	0
90	34	22425	29923	20607	0
90	36	23693	31684	21870	0
90	38	24960	33444	23134	0
90	40	26228	38804	24398	0
90	42	28504	40991	26604	0
90	44	29817	42943	27914	0
90	46	31131	49035	29225	0
90	48	32444	51167	30536	0
90	50	33757	57799	31847	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#)	Vert. (#)	Horiz. (#)	Vert. (#)
92	10	6575	6071	5057	0
92	12	7755	7286	6204	0
92	14	8930	8500	7354	0
92	16	10103	9714	8508	0
92	18	11274	10929	9664	0
92	20	12444	12143	10820	0
92	22	13612	15381	11978	0
92	24	14779	16779	13137	0
92	26	16923	18412	15172	0
92	28	18161	22404	16403	0
92	30	19398	24004	17635	0
92	32	20635	25605	18866	0
92	34	22923	30588	21065	0
92	36	24219	32388	22356	0
92	38	25515	34187	23648	0
92	40	26811	39666	24940	0
92	42	29137	41902	27195	0
92	44	30480	47945	28535	0
92	46	31823	50124	29874	0
92	48	33165	52304	31214	0
92	50	34508	59083	32554	0

HIGHER POWER HYDRAULIC DOORS
UNFACTORED DOOR JAMB REACTIONS - 110 mph - ASCE 7-22 / IBC-24

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#)	Vert. (#)	Horiz. (#)	Vert. (#)
94	10	6718	6203	5167	0
94	12	7923	7444	6339	0
94	14	9125	8685	7514	0
94	16	10323	9925	8693	0
94	18	11519	11166	9874	0
94	20	12714	12407	11056	0
94	22	13908	15715	12239	0
94	24	15101	17144	13423	0
94	26	17291	18812	15502	0
94	28	18555	22891	16760	0
94	30	19820	24526	18018	0
94	32	21084	29169	19276	0
94	34	23422	31253	21523	0
94	36	24746	33092	22842	0
94	38	26070	38502	24162	0
94	40	27393	40529	25482	0
94	42	29771	42813	27786	0
94	44	31143	48987	29155	0
94	46	32514	51214	30524	0
94	48	33886	57953	31893	0
94	50	35258	60368	33262	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#)	Vert. (#)	Horiz. (#)	Vert. (#)
96	10	6860	6335	5277	0
96	12	8092	7602	6473	0
96	14	9319	8870	7674	0
96	16	10542	10137	8878	0
96	18	11764	11404	10084	0
96	20	12985	12671	11291	0
96	22	14204	16050	12499	0
96	24	15422	17509	13709	0
96	26	17658	19212	15832	0
96	28	18950	23378	17116	0
96	30	20241	25048	18401	0
96	32	21532	29790	19687	0
96	34	23920	31918	21980	0
96	36	25272	33796	23328	0
96	38	26624	39321	24676	0
96	40	27976	41391	26024	0
96	42	30404	47756	28377	0
96	44	31805	50030	29775	0
96	46	33206	52304	31173	0
96	48	34607	59186	32571	0
96	50	36008	61652	33970	0

HIGHER POWER HYDRAULIC DOORS
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Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#)	Vert. (#)	Horiz. (#)	Vert. (#)
98	10	7003	6467	5387	0
98	12	8260	7761	6608	0
98	14	9513	9054	7834	0
98	16	10762	10348	9063	0
98	18	12009	11641	10294	0
98	20	13255	12935	11526	0
98	22	14500	16384	12760	0
98	24	15743	17874	13994	0
98	26	18026	22161	16162	0
98	28	19345	23865	17473	0
98	30	20663	25570	18785	0
98	32	21981	30411	20097	0
98	34	24418	32583	22438	0
98	36	25799	38028	23814	0
98	38	27179	40141	25190	0
98	40	28559	42253	26567	0
98	42	31038	48751	28968	0
98	44	32468	51072	30395	0
98	46	33898	57901	31823	0
98	48	35328	60419	33250	0
98	50	36758	62936	34677	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#)	Vert. (#)	Horiz. (#)	Vert. (#)
100	10	7146	6599	5497	0
100	12	8429	7919	6743	0
100	14	9707	9239	7994	0
100	16	10982	10559	9248	0
100	18	12254	11879	10504	0
100	20	13526	13199	11761	0
100	22	14796	16719	13020	0
100	24	16065	18238	14280	0
100	26	18394	22613	16491	0
100	28	19740	24352	17829	0
100	30	21085	29092	19168	0
100	32	22429	31031	20507	0
100	34	24917	33248	22896	0
100	36	26325	38804	24300	0
100	38	27734	40960	25704	0
100	40	29142	47116	27109	0
100	42	31671	49745	29560	0
100	44	33130	52114	31016	0
100	46	34590	59083	32472	0
100	48	36049	61652	33929	0
100	50	37508	69221	35385	0

HIGHER POWER HYDRAULIC DOORS
UNFACTORED DOOR JAMB REACTIONS - 110 mph - ASCE 7-22 / IBC-24

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#)	Vert. (#)	Horiz. (#)	Vert. (#)
105	10	7504	6929	5772	0
105	12	8850	8315	7080	0
105	14	10192	9701	8394	0
105	16	11531	11087	9710	0
105	18	12867	12473	11029	0
105	20	14202	15959	12349	0
105	22	15535	17555	13671	0
105	24	16868	21670	14994	0
105	26	19314	23744	17316	0
105	28	20727	25570	18721	0
105	30	22139	30546	20126	0
105	32	23551	32583	21532	0
105	34	26162	38481	24041	0
105	36	27642	40744	25515	0
105	38	29120	43008	26990	0
105	40	30599	49471	28464	0
105	42	33255	52233	31038	0
105	44	34787	59340	32567	0
105	46	36319	62037	34096	0
105	48	37852	69775	35625	0
105	50	39384	72682	37154	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#)	Vert. (#)	Horiz. (#)	Vert. (#)
110	10	7861	7259	6047	0
110	12	9272	8711	7418	0
110	14	10678	10163	8793	0
110	16	12080	11615	10173	0
110	18	13480	13067	11554	0
110	20	14878	16719	12938	0
110	22	16275	18390	14322	0
110	24	17671	22702	15708	0
110	26	20234	24874	18141	0
110	28	21714	29868	19612	0
110	30	23193	32001	21085	0
110	32	24672	37654	22558	0
110	34	27408	40313	25186	0
110	36	28958	42684	26730	0
110	38	30507	49236	28275	0
110	40	32056	51827	29820	0
110	42	34838	59340	32516	0
110	44	36444	62166	34117	0
110	46	38049	70051	35719	0
110	48	39654	73097	37321	0
110	50	41259	76143	38924	0

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Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#)	Vert. (#)	Horiz. (#)	Vert. (#)
115	10	8218	7589	6322	0
115	12	9693	9107	7755	0
115	14	11163	10625	9193	0
115	16	12629	12143	10635	0
115	18	14093	15731	12079	0
115	20	15554	17479	13526	0
115	22	17015	21756	14973	0
115	24	18474	23734	16422	0
115	26	21153	26005	18965	0
115	28	22701	31225	20504	0
115	30	24247	33456	22043	0
115	32	25794	39366	23583	0
115	34	28654	42145	26331	0
115	36	30274	48765	27945	0
115	38	31894	51474	29560	0
115	40	33513	58783	31175	0
115	42	36422	62037	33994	0
115	44	38100	70051	35668	0
115	46	39778	73236	37343	0
115	48	41457	76420	39018	0
115	50	43135	79604	40693	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#)	Vert. (#)	Horiz. (#)	Vert. (#)
120	10	8576	7919	6597	0
120	12	10115	9503	8092	0
120	14	11648	11087	9593	0
120	16	13178	12671	11097	0
120	18	14705	16415	12605	0
120	20	16231	18238	14114	0
120	22	17755	22702	15624	0
120	24	19278	24766	17136	0
120	26	22073	30256	19790	0
120	28	23688	32583	21395	0
120	30	25302	38510	23002	0
120	32	26915	41078	24608	0
120	34	29900	48058	27476	0
120	36	31590	50885	29160	0
120	38	33280	58272	30845	0
120	40	34970	61339	32530	0
120	42	38005	69775	35471	0
120	44	39757	73097	37219	0
120	46	41508	76420	38967	0
120	48	43259	79742	40714	0
120	50	45010	83065	42462	0

HIGHER POWER HYDRAULIC DOORS
UNFACTORED DOOR JAMB REACTIONS - 110 mph - ASCE 7-22 / IBC-24

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#)	Vert. (#)	Horiz. (#)	Vert. (#)
125	10	8933	8249	6871	0
125	12	10536	9899	8429	0
125	14	12134	11549	9992	0
125	16	13727	13199	11560	0
125	18	15318	17099	13130	0
125	20	16907	21498	14702	0
125	22	18494	23648	16275	0
125	24	20081	28798	17850	0
125	26	22993	31516	20614	0
125	28	24675	37440	22287	0
125	30	26356	40115	23960	0
125	32	28037	46789	25634	0
125	34	31146	50060	28620	0
125	36	32907	57505	30375	0
125	38	34667	60700	32130	0
125	40	36427	68894	33886	0
125	42	39589	72682	36949	0
125	44	41413	76143	38770	0
125	46	43237	79604	40590	0
125	48	45061	83065	42411	0
125	50	46885	86526	44231	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#)	Vert. (#)	Horiz. (#)	Vert. (#)
130	10	9290	8579	7146	0
130	12	10958	10295	8766	0
130	14	12619	12011	10392	0
130	16	14276	15807	12022	0
130	18	15931	17783	13655	0
130	20	17583	22358	15290	0
130	22	19234	24594	16926	0
130	24	20884	29950	18564	0
130	26	23913	32777	21439	0
130	28	25662	38938	23178	0
130	30	27410	41719	24918	0
130	32	29158	48661	26659	0
130	34	32392	52063	29765	0
130	36	34223	59805	31590	0
130	38	36054	63128	33416	0
130	40	37884	71650	35241	0
130	42	41172	75589	38427	0
130	44	43070	79189	40321	0
130	46	44967	82788	42214	0
130	48	46864	86388	44107	0
130	50	48761	89987	46001	0

HIGHER POWER HYDRAULIC DOORS
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Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#)	Vert. (#)	Horiz. (#)	Vert. (#)
135	10	9648	8909	7421	0
135	12	11379	10691	9103	0
135	14	13104	12473	10792	0
135	16	14825	16415	12485	0
135	18	16543	18466	14180	0
135	20	18260	23218	15878	0
135	22	19974	25540	17577	0
135	24	21687	31102	19278	0
135	26	24832	37547	22263	0
135	28	26649	40436	24070	0
135	30	28464	47374	25877	0
135	32	30280	50532	27684	0
135	34	33637	58655	30910	0
135	36	35539	62105	32805	0
135	38	37440	70686	34701	0
135	40	39342	74406	36597	0
135	42	42756	78496	39905	0
135	44	44726	82234	41871	0
135	46	46696	85972	43837	0
135	48	48666	89710	45804	0
135	50	50636	93448	47770	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#)	Vert. (#)	Horiz. (#)	Vert. (#)
140	10	10005	9239	7696	0
140	12	11801	11087	9440	0
140	14	13590	12935	11192	0
140	16	15374	17023	12947	0
140	18	17156	21670	14705	0
140	20	18936	24078	16466	0
140	22	20714	29566	18228	0
140	24	22491	32254	19992	0
140	26	25752	38938	23088	0
140	28	27636	41933	24961	0
140	30	29519	49129	26835	0
140	32	31401	52404	28710	0
140	34	34883	60827	32055	0
140	36	36855	69446	34020	0
140	38	38827	73304	35986	0
140	40	40799	77162	37952	0
140	42	44339	81404	41383	0
140	44	46383	85280	43422	0
140	46	48426	89156	45461	0
140	48	50469	93033	47500	0
140	50	52512	96909	49539	0

HIGHER POWER HYDRAULIC DOORS
UNFACTORED DOOR JAMB REACTIONS - 110 mph - ASCE 7-22 / IBC-24

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#)	Vert. (#)	Horiz. (#)	Vert. (#)
145	10	10362	9569	7971	0
145	12	12222	11483	9778	0
145	14	14075	15427	11591	0
145	16	15924	17631	13409	0
145	18	17769	22444	15231	0
145	20	19612	24938	17054	0
145	22	21454	30622	18879	0
145	24	23294	33406	20706	0
145	26	26672	40329	23913	0
145	28	28623	47491	25853	0
145	30	30573	50883	27794	0
145	32	32523	58915	29735	0
145	34	36129	63000	33200	0
145	36	38172	71926	35235	0
145	38	40214	75922	37271	0
145	40	42256	79918	39308	0
145	42	45923	84311	42861	0
145	44	48039	88326	44973	0
145	46	50155	92341	47085	0
145	48	52271	96355	49196	0
145	50	54387	100370	51309	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#)	Vert. (#)	Horiz. (#)	Vert. (#)
150	10	10719	9899	8246	0
150	12	12643	11879	10115	0
150	14	14560	15959	11991	0
150	16	16473	18238	13872	0
150	18	18382	23218	15756	0
150	20	20288	28798	17642	0
150	22	22193	31678	19530	0
150	24	24097	38158	21420	0
150	26	27591	41719	24737	0
150	28	29610	49129	26744	0
150	30	31627	57138	28752	0
150	32	33644	60947	30760	0
150	34	37375	70272	34345	0
150	36	39488	74406	36450	0
150	38	41600	78540	38557	0
150	40	43713	82673	40663	0
150	42	47506	87218	44339	0
150	44	49696	91371	46524	0
150	46	51885	95525	48708	0
150	48	54074	99678	50893	0
150	50	56262	111331	53078	0

HIGHER POWER HYDRAULIC DOORS
UNFACTORED DOOR JAMB REACTIONS - 110 mph - ASCE 7-22 / IBC-24

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#)	Vert. (#)	Horiz. (#)	Vert. (#)
160	10	11434	10559	8795	0
160	12	13486	12671	10789	0
160	14	15531	17023	12790	0
160	16	17571	22014	14796	0
160	18	19607	24766	16806	0
160	20	21641	30718	18818	0
160	22	23673	37310	20832	0
160	24	25703	40702	22848	0
160	26	29431	48661	26386	0
160	28	31584	52404	28527	0
160	30	33736	60947	30669	0
160	32	35887	70130	32811	0
160	34	39867	74957	36634	0
160	36	42120	79366	38880	0
160	38	44374	83776	41127	0
160	40	46627	88185	43374	0
160	42	50674	93033	47295	0
160	44	53009	97463	49625	0
160	46	55344	101893	51955	0
160	48	57679	114003	54286	0
160	50	60013	118753	56616	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#)	Vert. (#)	Horiz. (#)	Vert. (#)
170	10	12149	11219	9345	0
170	12	14329	15503	11463	0
170	14	16502	18086	13590	0
170	16	18669	23390	15721	0
170	18	20833	29374	17856	0
170	20	22993	32638	19994	0
170	22	25152	39642	22134	0
170	24	27310	47325	24275	0
170	26	31270	51702	28035	0
170	28	33558	60439	30310	0
170	30	35844	69856	32586	0
170	32	38130	74513	34862	0
170	34	42358	79642	38924	0
170	36	44753	84327	41310	0
170	38	47147	89012	43697	0
170	40	49541	93696	46085	0
170	42	53841	98847	50251	0
170	44	56322	103554	52727	0
170	46	58803	116081	55203	0
170	48	61284	121128	57679	0
170	50	63764	126175	60155	0

HIGHER POWER HYDRAULIC DOORS
UNFACTORED DOOR JAMB REACTIONS - 110 mph - ASCE 7-22 / IBC-24

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#)	Vert. (#)	Horiz. (#)	Vert. (#)
180	10	12863	11879	9895	0
180	12	15172	16415	12138	0
180	14	17472	21670	14389	0
180	16	19767	24766	16646	0
180	18	22058	31102	18907	0
180	20	24346	38158	21170	0
180	22	26632	41973	23436	0
180	24	28916	50109	25703	0
180	26	33110	59423	29685	0
180	28	35532	69034	32093	0
180	30	37953	73965	34502	0
180	32	40373	78896	36912	0
180	34	44850	84327	41213	0
180	36	47385	89287	43740	0
180	38	49921	94248	46268	0
180	40	52455	99208	48796	0
180	42	57008	112222	53207	0
180	44	59635	117566	55828	0
180	46	62262	122910	58450	0
180	48	64888	128254	61071	0
180	50	67515	133597	63693	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#)	Vert. (#)	Horiz. (#)	Vert. (#)
190	10	13578	12539	10445	0
190	12	16015	17327	12812	0
190	14	18443	22874	15188	0
190	16	20865	29182	17571	0
190	18	23283	32830	19957	0
190	20	25699	40278	22347	0
190	22	28112	48485	24738	0
190	24	30523	57453	27131	0
190	26	34949	62725	31334	0
190	28	37506	72870	33876	0
190	30	40061	78074	36419	0
190	32	42616	83279	38963	0
190	34	47342	89012	43503	0
190	36	50018	94248	46170	0
190	38	52694	99484	48838	0
190	40	55370	112319	51507	0
190	42	60175	118456	56163	0
190	44	62948	124097	58930	0
190	46	65721	129738	61697	0
190	48	68493	135379	64464	0
190	50	71266	141020	67232	0

HIGHER POWER HYDRAULIC DOORS
UNFACTORED DOOR JAMB REACTIONS - 110 mph - ASCE 7-22 / IBC-24

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#)	Vert. (#)	Horiz. (#)	Vert. (#)
200	10	14293	13199	10994	0
200	12	16858	18238	13486	0
200	14	19414	24078	15988	0
200	16	21964	30718	18496	0
200	18	24509	38158	21008	0
200	20	27051	46397	23523	0
200	22	29591	51037	26040	0
200	24	32129	60477	28559	0
200	26	36789	71226	32983	0
200	28	39479	76705	35659	0
200	30	42169	82184	38336	0
200	32	44859	87663	41014	0
200	34	49833	93696	45793	0
200	36	52651	99208	48600	0
200	38	55467	112319	51409	0
200	40	58284	118231	54217	0
200	42	63342	124691	59119	0
200	44	66261	130629	62032	0
200	46	69180	136566	64944	0
200	48	72098	142504	67857	0
200	50	75017	148442	70770	0