

HIGHER POWER HYDRAULIC DOORS
UNFACTORED DOOR JAMB REACTIONS - 180 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
16.5	$h \leq 24$ ft	180	67.7	50	7.2	50	3.2	-5.9
	24 ft < $h \leq 32$ ft		71.9		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

HIGHER POWER HYDRAULIC DOORS
UNFACTORED DOOR JAMB REACTIONS - 180 mph - ASCE 7-22 / IBC-24

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
30	10	5741	2955	4416	0
30	12	6771	3546	5417	0
30	14	7798	4137	6422	0
30	16	8822	4728	7429	0
30	18	9844	5319	8438	0
30	20	10865	5910	9448	0
30	22	11885	6501	10459	0
30	24	12905	7092	11471	0
30	26	14776	7759	13248	0
30	28	15857	8356	14322	0
30	30	16937	8953	15398	0
30	32	18018	9549	16473	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
32	10	6123	3152	4710	0
32	12	7222	3782	5778	0
32	14	8317	4413	6850	0
32	16	9410	5043	7924	0
32	18	10500	5673	9000	0
32	20	11590	6304	10078	0
32	22	12678	6934	11156	0
32	24	13765	7564	12236	0
32	26	15761	8276	14131	0
32	28	16914	8913	15277	0
32	30	18067	9549	16424	0
32	32	19219	10186	17571	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
34	10	6506	3349	5005	0
34	12	7674	4019	6139	0
34	14	8837	4688	7278	0
34	16	9998	5358	8419	0
34	18	11157	6028	9563	0
34	20	12314	6698	10708	0
34	22	13470	7367	11854	0
34	24	14625	8037	13000	0
34	26	16746	8793	15014	0
34	28	17971	9470	16232	0
34	30	19196	10146	17451	0
34	32	20420	10823	18670	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
36	10	6889	3546	5299	0
36	12	8125	4255	6500	0
36	14	9357	4964	7706	0
36	16	10586	5673	8915	0
36	18	11813	6382	10125	0
36	20	13038	7092	11338	0
36	22	14262	7801	12551	0
36	24	15486	8510	13765	0
36	26	17731	9311	15897	0
36	28	19028	10027	17187	0
36	30	20325	10743	18477	0
36	32	21621	11459	19768	0

HIGHER POWER HYDRAULIC DOORS
UNFACTORED DOOR JAMB REACTIONS - 180 mph - ASCE 7-22 / IBC-24

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
38	10	7272	3743	5593	0
38	12	8577	4491	6861	0
38	14	9877	5240	8134	0
38	16	11174	5988	9410	0
38	18	12469	6737	10688	0
38	20	13763	7486	11967	0
38	22	15055	8234	13248	0
38	24	16346	8983	14530	0
38	26	18717	9828	16780	0
38	28	20086	10584	18142	0
38	30	21454	11340	19504	0
38	32	22822	12096	20866	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
40	10	7654	3940	5888	0
40	12	9028	4728	7222	0
40	14	10397	5516	8562	0
40	16	11762	6304	9905	0
40	18	13125	7092	11250	0
40	20	14487	7879	12597	0
40	22	15847	8667	13945	0
40	24	17206	9455	15295	0
40	26	19702	10345	17664	0
40	28	21143	11141	19097	0
40	30	22583	11937	20530	0
40	32	24024	12733	21964	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
42	10	8037	4137	6182	0
42	12	9479	4964	7584	0
42	14	10917	5791	8990	0
42	16	12350	6619	10400	0
42	18	13782	7446	11813	0
42	20	15211	8273	13227	0
42	22	16639	9101	14643	0
42	24	18067	9928	16059	0
42	26	20687	10862	18547	0
42	28	22200	11698	20051	0
42	30	23712	12534	21557	0
42	32	25225	13369	23063	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
44	10	8420	4334	6477	0
44	12	9931	5200	7945	0
44	14	11437	6067	9418	0
44	16	12939	6934	10896	0
44	18	14438	7801	12375	0
44	20	15936	8667	13857	0
44	22	17432	9534	15340	0
44	24	18927	10401	16824	0
44	26	21672	11380	19430	0
44	28	23257	12255	21006	0
44	30	24842	13130	22583	0
44	32	26426	14006	24161	0

HIGHER POWER HYDRAULIC DOORS
UNFACTORED DOOR JAMB REACTIONS - 180 mph - ASCE 7-22 / IBC-24

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
46	10	8802	4531	6771	0
46	12	10382	5437	8306	0
46	14	11956	6343	9846	0
46	16	13527	7249	11391	0
46	18	15094	8155	12938	0
46	20	16660	9061	14487	0
46	22	18224	9968	16037	0
46	24	19787	10874	17589	0
46	26	22657	11897	20313	0
46	28	24314	12812	21961	0
46	30	25971	13727	23610	0
46	32	27627	14642	25259	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
48	10	9185	4728	7065	0
48	12	10834	5673	8667	0
48	14	12476	6619	10275	0
48	16	14115	7564	11886	0
48	18	15751	8510	13500	0
48	20	17384	9455	15117	0
48	22	19017	10401	16735	0
48	24	20648	11346	18354	0
48	26	23642	12414	21196	0
48	28	25371	13369	22916	0
48	30	27100	14324	24636	0
48	32	28828	15279	26357	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
50	10	9568	4925	7360	0
50	12	11285	5910	9028	0
50	14	12996	6895	10703	0
50	16	14703	7879	12381	0
50	18	16407	8864	14063	0
50	20	18109	9849	15747	0
50	22	19809	10834	17432	0
50	24	21508	11819	19118	0
50	26	24627	12931	22079	0
50	28	26428	13926	23871	0
50	30	28229	14921	25663	0
50	32	30029	15916	27455	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
52	10	9951	5122	7654	0
52	12	11736	6146	9389	0
52	14	13516	7170	11131	0
52	16	15291	8195	12877	0
52	18	17063	9219	14625	0
52	20	18833	10243	16376	0
52	22	20601	11268	18129	0
52	24	22368	12292	19883	0
52	26	25612	13449	22963	0
52	28	27486	14483	24826	0
52	30	29358	15518	26689	0
52	32	31231	16552	28554	0

HIGHER POWER HYDRAULIC DOORS
UNFACTORED DOOR JAMB REACTIONS - 180 mph - ASCE 7-22 / IBC-24

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
54	10	10333	5319	7949	0
54	12	12188	6382	9750	0
54	14	14036	7446	11559	0
54	16	15879	8510	13372	0
54	18	17719	9574	15188	0
54	20	19557	10637	17006	0
54	22	21394	11701	18826	0
54	24	23229	12765	20648	0
54	26	26597	13966	23846	0
54	28	28543	15040	25780	0
54	30	30487	16115	27716	0
54	32	32432	17189	29652	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
56	10	10716	5516	8243	0
56	12	12639	6619	10111	0
56	14	14556	7722	11987	0
56	16	16467	8825	13867	0
56	18	18376	9928	15751	0
56	20	20282	11031	17636	0
56	22	22186	12134	19524	0
56	24	24089	13238	21412	0
56	26	27582	14483	24729	0
56	28	29600	15597	26735	0
56	30	31617	16711	28742	0
56	32	33633	17826	30750	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
58	10	11099	5713	8537	0
58	12	13091	6855	10473	0
58	14	15075	7998	12415	0
58	16	17055	9140	14362	0
58	18	19032	10283	16313	0
58	20	21006	11425	18266	0
58	22	22978	12568	20221	0
58	24	24949	13710	22177	0
58	26	28567	15000	25612	0
58	28	30657	16154	27690	0
58	30	32746	17308	29769	0
58	32	34834	18462	31848	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
60	10	11481	5910	8832	0
60	12	13542	7092	10834	0
60	14	15595	8273	12843	0
60	16	17643	9455	14858	0
60	18	19688	10637	16876	0
60	20	21730	11819	18896	0
60	22	23771	13001	20918	0
60	24	25810	14183	22942	0
60	26	29552	15518	26495	0
60	28	31714	16711	28645	0
60	30	33875	17905	30795	0
60	32	36035	19099	32947	0

HIGHER POWER HYDRAULIC DOORS
UNFACTORED DOOR JAMB REACTIONS - 180 mph - ASCE 7-22 / IBC-24

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
62	10	11864	6107	9126	0
62	12	13994	7328	11195	0
62	14	16115	8549	13271	0
62	16	18232	9771	15353	0
62	18	20344	10992	17438	0
62	20	22455	12213	19526	0
62	22	24563	13435	21615	0
62	24	26670	14656	23707	0
62	26	30538	16035	27378	0
62	28	32771	17268	29600	0
62	30	35004	18502	31822	0
62	32	37236	19735	34045	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
64	10	12247	6304	9421	0
64	12	14445	7564	11556	0
64	14	16635	8825	13699	0
64	16	18820	10086	15848	0
64	18	21001	11346	18001	0
64	20	23179	12607	20156	0
64	22	25355	13868	22313	0
64	24	27530	15129	24471	0
64	26	31523	16552	28262	0
64	28	33828	17826	30555	0
64	30	36133	19099	32848	0
64	32	38438	22420	35143	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
66	10	12629	6501	9715	0
66	12	14896	7801	11917	0
66	14	17155	9101	14127	0
66	16	19408	10401	16343	0
66	18	21657	11701	18563	0
66	20	23903	13001	20786	0
66	22	26148	14301	23010	0
66	24	28391	15601	25236	0
66	26	32508	17070	29145	0
66	28	34886	18383	31509	0
66	30	37262	19696	33875	0
66	32	39639	23121	36241	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
68	10	13012	6698	10009	0
68	12	15348	8037	12278	0
68	14	17675	9377	14556	0
68	16	19996	10716	16839	0
68	18	22313	12056	19126	0
68	20	24628	13395	21415	0
68	22	26940	14735	23707	0
68	24	29251	16074	26001	0
68	26	33493	17587	30028	0
68	28	35943	18940	32464	0
68	30	38392	22332	34902	0
68	32	40840	23821	37339	0

HIGHER POWER HYDRAULIC DOORS
UNFACTORED DOOR JAMB REACTIONS - 180 mph - ASCE 7-22 / IBC-24

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
70	10	13395	6895	10304	0
70	12	15799	8273	12639	0
70	14	18194	9652	14984	0
70	16	20584	11031	17334	0
70	18	22969	12410	19688	0
70	20	25352	13789	22045	0
70	22	27732	15168	24405	0
70	24	30111	16547	26766	0
70	26	34478	18104	30911	0
70	28	37000	19497	33419	0
70	30	39521	22989	35928	0
70	32	42041	24522	38438	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
72	10	13778	7092	10598	0
72	12	16251	8510	13000	0
72	14	18714	9928	15412	0
72	16	21172	11346	17829	0
72	18	23626	12765	20251	0
72	20	26076	14183	22675	0
72	22	28525	15601	25102	0
72	24	30972	17020	27530	0
72	26	35463	18621	31794	0
72	28	38057	22070	34374	0
72	30	40650	23646	36955	0
72	32	43242	25223	39536	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
74	10	14160	7289	10893	0
74	12	16702	8746	13362	0
74	14	19234	10204	15840	0
74	16	21760	11662	18324	0
74	18	24282	13119	20813	0
74	20	26801	14577	23305	0
74	22	29317	16035	25799	0
74	24	31832	17492	28295	0
74	26	34478	19139	32678	0
74	28	37000	22683	35329	0
74	30	39521	24303	37981	0
74	32	42041	25923	40634	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
76	10	14543	7486	11187	0
76	12	17153	8983	13723	0
76	14	19754	10480	16268	0
76	16	22348	11977	18820	0
76	18	24938	13474	21376	0
76	20	27525	14971	23935	0
76	22	30110	16468	26496	0
76	24	32692	17965	29060	0
76	26	37433	19656	33561	0
76	28	40171	23296	36284	0
76	30	42908	24960	39008	0
76	32	45645	26624	41732	0

HIGHER POWER HYDRAULIC DOORS
UNFACTORED DOOR JAMB REACTIONS - 180 mph - ASCE 7-22 / IBC-24

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
78	10	14926	7683	11481	0
78	12	17605	9219	14084	0
78	14	20274	10756	16696	0
78	16	22936	12292	19315	0
78	18	25595	13829	21938	0
78	20	28249	15365	24565	0
78	22	30902	16902	27194	0
78	24	33553	18438	29824	0
78	26	38418	22201	34444	0
78	28	41228	23909	37238	0
78	30	44037	25617	40034	0
78	32	46846	27324	42830	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
80	10	15308	7879	11776	0
80	12	18056	9455	14445	0
80	14	20794	11031	17124	0
80	16	23525	12607	19810	0
80	18	26251	14183	22501	0
80	20	28974	15759	25195	0
80	22	31694	17335	27891	0
80	24	34413	18911	30589	0
80	26	39403	22770	35327	0
80	28	42285	24522	38193	0
80	30	45167	26273	41061	0
80	32	48047	30585	43929	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
82	10	15691	8076	12070	0
82	12	18508	9692	14806	0
82	14	21314	11307	17552	0
82	16	24113	12922	20305	0
82	18	26907	14538	23063	0
82	20	29698	16153	25824	0
82	22	32487	17768	28588	0
82	24	35273	19384	31354	0
82	26	40388	23340	36210	0
82	28	43343	25135	39148	0
82	30	46296	26930	42087	0
82	32	49248	31350	45027	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
84	10	16074	8273	12365	0
84	12	18959	9928	15167	0
84	14	21833	11583	17980	0
84	16	24701	13238	20801	0
84	18	27563	14892	23626	0
84	20	30422	16547	26454	0
84	22	33279	18202	29286	0
84	24	36134	21872	32119	0
84	26	41373	23909	37093	0
84	28	44400	25748	40103	0
84	30	47425	30107	43114	0
84	32	50449	32114	46125	0

HIGHER POWER HYDRAULIC DOORS
UNFACTORED DOOR JAMB REACTIONS - 180 mph - ASCE 7-22 / IBC-24

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
86	10	16457	8470	12659	0
86	12	19410	10165	15528	0
86	14	22353	11859	18409	0
86	16	25289	13553	21296	0
86	18	28220	15247	24188	0
86	20	31147	16941	27084	0
86	22	34071	18635	29983	0
86	24	36994	22393	32883	0
86	26	42358	24478	37977	0
86	28	45457	26361	41058	0
86	30	48554	30824	44140	0
86	32	51651	32879	47223	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
88	10	16839	8667	12953	0
88	12	19862	10401	15889	0
88	14	22873	12134	18837	0
88	16	25877	13868	21791	0
88	18	28876	15601	24751	0
88	20	31871	17335	27714	0
88	22	34864	19068	30680	0
88	24	37854	22914	33648	0
88	26	43344	25047	38860	0
88	28	46514	26974	42013	0
88	30	49683	31541	45167	0
88	32	52852	33644	48322	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
90	10	17222	8864	13248	0
90	12	20313	10637	16251	0
90	14	23393	12410	19265	0
90	16	26465	14183	22286	0
90	18	29532	15956	25313	0
90	20	32596	17729	28344	0
90	22	35656	19502	31377	0
90	24	38714	23435	34413	0
90	26	44329	25617	39743	0
90	28	47571	30107	42967	0
90	30	50812	32258	46193	0
90	32	54053	34408	49420	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
92	10	17605	9061	13542	0
92	12	20765	10874	16612	0
92	14	23913	12686	19693	0
92	16	27053	14498	22782	0
92	18	30188	16311	25876	0
92	20	33320	18123	28974	0
92	22	36448	21959	32075	0
92	24	39575	23955	35178	0
92	26	45314	26186	40626	0
92	28	48628	30776	43922	0
92	30	51942	32974	47220	0
92	32	55254	35173	50518	0

HIGHER POWER HYDRAULIC DOORS
UNFACTORED DOOR JAMB REACTIONS - 180 mph - ASCE 7-22 / IBC-24

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
94	10	17987	9258	13836	0
94	12	21216	11110	16973	0
94	14	24433	12962	20121	0
94	16	27641	14813	23277	0
94	18	30845	16665	26438	0
94	20	34044	18517	29604	0
94	22	37241	22436	32772	0
94	24	40435	24476	35942	0
94	26	46299	26755	41509	0
94	28	49685	31445	44877	0
94	30	53071	33691	48246	0
94	32	56455	38945	51616	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
96	10	18370	9455	14131	0
96	12	21667	11346	17334	0
96	14	24952	13238	20549	0
96	16	28229	15129	23772	0
96	18	31501	17020	27001	0
96	20	34769	18911	30234	0
96	22	38033	22914	33469	0
96	24	41295	24997	36707	0
96	26	47284	27324	42392	0
96	28	50743	32114	45832	0
96	30	54200	34408	49273	0
96	32	57656	39774	52714	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
98	10	18753	9652	14425	0
98	12	22119	11583	17695	0
98	14	25472	13513	20977	0
98	16	28818	15444	24267	0
98	18	32157	17374	27563	0
98	20	35493	19305	30863	0
98	22	38825	23391	34166	0
98	24	42156	25518	37472	0
98	26	48269	30442	43276	0
98	28	51800	32783	46787	0
98	30	55329	35125	50299	0
98	32	58858	40603	53813	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
100	10	19136	9849	14720	0
100	12	22570	11819	18056	0
100	14	25992	13789	21405	0
100	16	29406	15759	24763	0
100	18	32814	17729	28126	0
100	20	36217	19699	31493	0
100	22	39618	23869	34864	0
100	24	43016	26038	38237	0
100	26	49254	31063	44159	0
100	28	52857	33452	47742	0
100	30	56458	38842	51326	0
100	32	60059	41431	54911	0

HIGHER POWER HYDRAULIC DOORS
UNFACTORED DOOR JAMB REACTIONS - 180 mph - ASCE 7-22 / IBC-24

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
105	10	20092	10342	15456	0
105	12	23699	12410	18959	0
105	14	27292	14479	22476	0
105	16	30876	16547	26001	0
105	18	34454	18615	29532	0
105	20	38028	22784	33068	0
105	22	41599	25062	36607	0
105	24	45167	29860	40148	0
105	26	51717	32616	46367	0
105	28	55500	35125	50129	0
105	30	59281	40784	53892	0
105	32	63062	43503	57656	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
110	10	21049	10834	16192	0
110	12	24827	13001	19862	0
110	14	28591	15168	23546	0
110	16	32346	17335	27239	0
110	18	36095	19502	30938	0
110	20	39839	23869	34643	0
110	22	43580	26255	38350	0
110	24	47318	31282	42060	0
110	26	54179	34169	48575	0
110	28	58143	39878	52516	0
110	30	62104	42726	56458	0
110	32	66065	49094	60402	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
115	10	22006	11327	16928	0
115	12	25956	13592	20765	0
115	14	29891	15857	24616	0
115	16	33817	18123	28477	0
115	18	37736	22458	32345	0
115	20	41650	24954	36217	0
115	22	45561	29979	40093	0
115	24	49468	32704	43972	0
115	26	56642	35722	50783	0
115	28	60785	41690	54903	0
115	30	64927	44668	59025	0
115	32	69068	51326	63148	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
120	10	22963	11819	17664	0
120	12	27084	14183	21667	0
120	14	31191	16547	25686	0
120	16	35287	18911	29715	0
120	18	39376	23435	33751	0
120	20	43461	26038	37792	0
120	22	47541	31282	41836	0
120	24	51619	34126	45884	0
120	26	59105	40396	52991	0
120	28	63428	43503	57290	0
120	30	67750	50210	61591	0
120	32	72071	53558	65893	0

HIGHER POWER HYDRAULIC DOORS
UNFACTORED DOOR JAMB REACTIONS - 180 mph - ASCE 7-22 / IBC-24

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
125	10	23919	12312	18400	0
125	12	28213	14774	22570	0
125	14	32490	17236	26757	0
125	16	36757	19699	30953	0
125	18	41017	24411	35157	0
125	20	45272	29623	39367	0
125	22	49522	32586	43580	0
125	24	53770	38548	47796	0
125	26	61568	42079	55199	0
125	28	66071	48815	59677	0
125	30	70573	52302	64157	0
125	32	75073	59789	68639	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
130	10	24876	12804	19136	0
130	12	29341	15365	23473	0
130	14	33790	17926	27827	0
130	16	38227	22567	32192	0
130	18	42658	25388	36564	0
130	20	47082	30808	40941	0
130	22	51503	33889	45323	0
130	24	55921	40090	49707	0
130	26	64030	43762	57406	0
130	28	68714	50768	62064	0
130	30	73396	54394	66723	0
130	32	78076	62181	71384	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
135	10	25833	13297	19872	0
135	12	30470	15956	24376	0
135	14	35089	18615	28897	0
135	16	39698	23435	33430	0
135	18	44298	26364	37970	0
135	20	48893	31993	42516	0
135	22	53484	35193	47066	0
135	24	58072	41632	51619	0
135	26	66493	48955	59614	0
135	28	71357	52721	64451	0
135	30	76219	60536	69290	0
135	32	81079	64572	74130	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
140	10	26790	13789	20608	0
140	12	31598	16547	25279	0
140	14	36389	19305	29967	0
140	16	41168	24303	34668	0
140	18	45939	29860	39376	0
140	20	50704	33178	44091	0
140	22	55465	39576	48809	0
140	24	60223	43174	53531	0
140	26	68956	50768	61822	0
140	28	74000	54673	66838	0
140	30	79042	62779	71856	0
140	32	84082	66964	76875	0

HIGHER POWER HYDRAULIC DOORS
 UNFACTORED DOOR JAMB REACTIONS - 180 mph - ASCE 7-22 / IBC-24

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
145	10	27747	14282	21344	0
145	12	32727	17138	26181	0
145	14	37689	22024	31038	0
145	16	42638	25171	35906	0
145	18	47580	30927	40783	0
145	20	52515	34363	45665	0
145	22	57446	40989	50552	0
145	24	62373	44716	55443	0
145	26	71418	52581	64030	0
145	28	76642	60686	69225	0
145	30	81865	65021	74422	0
145	32	87085	73995	79621	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
150	10	28703	14774	22080	0
150	12	33855	17729	27084	0
150	14	38988	22784	32108	0
150	16	44109	26038	37144	0
150	18	49220	31993	42189	0
150	20	54326	38548	47240	0
150	22	59427	42403	52296	0
150	24	64524	49858	57355	0
150	26	73881	54394	66238	0
150	28	79285	62779	71612	0
150	30	84687	71763	76989	0
150	32	90088	76547	82366	0