

HIGHER POWER HYDRAULIC DOORS
UNFACTORED DOOR JAMB REACTIONS - 200 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	200	83.6	50	7.2	50	3.2	-5.9
	24 ft < $h \leq 32$ ft		88.7		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

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Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
30	10	7087	1980	5452	0
30	12	8359	2376	6687	0
30	14	9627	2772	7928	0
30	16	10891	3168	9171	0
30	18	12153	3564	10417	0
30	20	13414	3960	11664	0
30	22	14673	4356	12912	0
30	24	15932	4752	14162	0
30	26	18242	5224	16355	0
30	28	19577	5626	17682	0
30	30	20910	6028	19010	0
30	32	22244	6429	20337	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
32	10	7560	2112	5815	0
32	12	8917	2534	7133	0
32	14	10268	2957	8456	0
32	16	11617	3379	9783	0
32	18	12963	3801	11111	0
32	20	14308	4224	12442	0
32	22	15651	4646	13773	0
32	24	16994	5068	15106	0
32	26	19458	5572	17445	0
32	28	20882	6001	18861	0
32	30	22305	6429	20277	0
32	32	23727	6858	21693	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
34	10	8032	2244	6179	0
34	12	9474	2693	7579	0
34	14	10910	3141	8985	0
34	16	12343	3590	10394	0
34	18	13774	4039	11806	0
34	20	15202	4488	13219	0
34	22	16630	4936	14634	0
34	24	18056	5385	16050	0
34	26	20675	5920	18536	0
34	28	22187	6376	20040	0
34	30	23699	6831	21544	0
34	32	25210	7287	23049	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
36	10	8505	2376	6542	0
36	12	10031	2851	8025	0
36	14	11552	3326	9513	0
36	16	13069	3801	11006	0
36	18	14584	4276	12500	0
36	20	16097	4752	13997	0
36	22	17608	5227	15495	0
36	24	19118	5702	16994	0
36	26	21891	6269	19626	0
36	28	23492	6751	21219	0
36	30	25093	7233	22811	0
36	32	26693	7715	24405	0

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Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
38	10	8977	2508	6906	0
38	12	10588	3009	8471	0
38	14	12194	3511	10042	0
38	16	13795	4012	11617	0
38	18	15394	4514	13195	0
38	20	16991	5016	14775	0
38	22	18586	5517	16356	0
38	24	20180	6019	17938	0
38	26	23107	6617	20716	0
38	28	24797	7126	22397	0
38	30	26487	7635	24079	0
38	32	28176	8144	25761	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
40	10	9450	2640	7269	0
40	12	11146	3168	8917	0
40	14	12836	3696	10570	0
40	16	14521	4224	12228	0
40	18	16204	4752	13889	0
40	20	17885	5279	15552	0
40	22	19564	5807	17217	0
40	24	21243	6335	18882	0
40	26	24323	6965	21807	0
40	28	26102	7501	23576	0
40	30	27881	8037	25346	0
40	32	29659	8573	27116	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
42	10	9922	2772	7632	0
42	12	11703	3326	9362	0
42	14	13477	3880	11099	0
42	16	15247	4435	12840	0
42	18	17014	4989	14584	0
42	20	18779	5543	16330	0
42	22	20543	6098	18077	0
42	24	22305	6652	19826	0
42	26	25539	7313	22897	0
42	28	27407	7876	24755	0
42	30	29275	8439	26613	0
42	32	31142	9001	28472	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
44	10	10395	2904	7996	0
44	12	12260	3484	9808	0
44	14	14119	4065	11628	0
44	16	15973	4646	13451	0
44	18	17825	5227	15278	0
44	20	19674	5807	17107	0
44	22	21521	6388	18938	0
44	24	23367	6969	20770	0
44	26	26755	7662	23987	0
44	28	28712	8251	25934	0
44	30	30669	8840	27881	0
44	32	32625	9430	29828	0

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Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
46	10	10867	3036	8359	0
46	12	12818	3643	10254	0
46	14	14761	4250	12156	0
46	16	16700	4857	14063	0
46	18	18635	5464	15973	0
46	20	20568	6071	17885	0
46	22	22499	6679	19799	0
46	24	24429	7286	21715	0
46	26	27971	8010	25078	0
46	28	30017	8626	27113	0
46	30	32063	9242	29148	0
46	32	34107	9858	31184	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
48	10	11340	3168	8723	0
48	12	13375	3801	10700	0
48	14	15403	4435	12685	0
48	16	17426	5068	14674	0
48	18	19445	5702	16667	0
48	20	21462	6335	18663	0
48	22	23477	6969	20660	0
48	24	25491	7602	22659	0
48	26	29188	8358	26168	0
48	28	31323	9001	28291	0
48	30	33457	9644	30415	0
48	32	35590	10287	32540	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
50	10	11812	3300	9086	0
50	12	13932	3960	11146	0
50	14	16045	4620	13213	0
50	16	18152	5279	15286	0
50	18	20255	5939	17362	0
50	20	22356	6599	19440	0
50	22	24455	7259	21521	0
50	24	26553	7919	23603	0
50	26	30404	8706	27259	0
50	28	32628	9376	29470	0
50	30	34851	10046	31683	0
50	32	37073	10716	33896	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
52	10	12285	3432	9450	0
52	12	14489	4118	11592	0
52	14	16686	4804	13742	0
52	16	18878	5491	15897	0
52	18	21065	6177	18056	0
52	20	23251	6863	20218	0
52	22	25434	7550	22382	0
52	24	27615	8236	24547	0
52	26	31620	9055	28349	0
52	28	33933	9751	30649	0
52	30	36245	10448	32950	0
52	32	38556	11144	35251	0

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Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
54	10	12757	3564	9813	0
54	12	15047	4276	12037	0
54	14	17328	4989	14270	0
54	16	19604	5702	16508	0
54	18	21876	6415	18751	0
54	20	24145	7127	20996	0
54	22	26412	7840	23242	0
54	24	28677	8553	25491	0
54	26	32836	9403	29439	0
54	28	35238	10126	31828	0
54	30	37639	10850	34217	0
54	32	40039	11573	36607	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
56	10	13230	3696	10177	0
56	12	15604	4435	12483	0
56	14	17970	5174	14799	0
56	16	20330	5913	17120	0
56	18	22686	6652	19445	0
56	20	25039	7391	21773	0
56	22	27390	8130	24103	0
56	24	29740	8870	26435	0
56	26	34052	9751	30530	0
56	28	36543	10501	33007	0
56	30	39033	11251	35484	0
56	32	41522	12002	37963	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
58	10	13702	3828	10540	0
58	12	16161	4593	12929	0
58	14	18612	5359	15327	0
58	16	21056	6124	17731	0
58	18	23496	6890	20140	0
58	20	25933	7655	22551	0
58	22	28368	8421	24964	0
58	24	30802	9186	27379	0
58	26	35268	10099	31620	0
58	28	37848	10876	34185	0
58	30	40427	11653	36752	0
58	32	43005	12430	39319	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
60	10	14175	3960	10903	0
60	12	16719	4752	13375	0
60	14	19253	5543	15856	0
60	16	21782	6335	18343	0
60	18	24306	7127	20834	0
60	20	26828	7919	23328	0
60	22	29347	8711	25825	0
60	24	31864	9503	28323	0
60	26	36484	10448	32710	0
60	28	39153	11251	35364	0
60	30	41821	12055	38019	0
60	32	44488	12859	40675	0

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Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
62	10	14647	4092	11267	0
62	12	17276	4910	13821	0
62	14	19895	5728	16384	0
62	16	22508	6547	18954	0
62	18	25117	7365	21528	0
62	20	27722	8183	24106	0
62	22	30325	9002	26686	0
62	24	32926	9820	29267	0
62	26	37701	10796	33801	0
62	28	40458	11626	36543	0
62	30	43215	12457	39286	0
62	32	45971	13287	42031	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
64	10	15119	4224	11630	0
64	12	17833	5068	14267	0
64	14	20537	5913	16913	0
64	16	23234	6758	19566	0
64	18	25927	7602	22223	0
64	20	28616	8447	24884	0
64	22	31303	9292	27547	0
64	24	33988	10137	30212	0
64	26	38917	11144	34891	0
64	28	41763	12002	37722	0
64	30	44609	12859	40554	0
64	32	47454	13716	43386	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
66	10	15592	4356	11994	0
66	12	18391	5227	14712	0
66	14	21179	6098	17441	0
66	16	23960	6969	20177	0
66	18	26737	7840	22917	0
66	20	29510	8711	25661	0
66	22	32281	9582	28407	0
66	24	35050	10453	31156	0
66	26	40133	11493	35981	0
66	28	43069	12377	38901	0
66	30	46003	13261	41821	0
66	32	48937	14145	44742	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
68	10	16064	4488	12357	0
68	12	18948	5385	15158	0
68	14	21821	6283	17970	0
68	16	24686	7180	20788	0
68	18	27547	8078	23612	0
68	20	30405	8975	26439	0
68	22	33259	9873	29268	0
68	24	36112	10770	32100	0
68	26	41349	11841	37072	0
68	28	44374	12752	40079	0
68	30	47397	13662	43088	0
68	32	50420	14573	46098	0

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Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
70	10	16537	4620	12721	0
70	12	19505	5543	15604	0
70	14	22462	6467	18498	0
70	16	25412	7391	21400	0
70	18	28357	8315	24306	0
70	20	31299	9239	27216	0
70	22	34238	10163	30129	0
70	24	37174	11087	33044	0
70	26	42565	12189	38162	0
70	28	45679	13127	41258	0
70	30	48791	14064	44356	0
70	32	51903	15002	47454	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
72	10	17009	4752	13084	0
72	12	20062	5702	16050	0
72	14	23104	6652	19027	0
72	16	26138	7602	22011	0
72	18	29168	8553	25001	0
72	20	32193	9503	27994	0
72	22	35216	10453	30990	0
72	24	38237	11404	33988	0
72	26	43781	12537	39252	0
72	28	46984	13502	42437	0
72	30	50185	14466	45623	0
72	32	53386	15431	48810	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
74	10	17482	4884	13448	0
74	12	20620	5860	16496	0
74	14	23746	6837	19555	0
74	16	26864	7814	22623	0
74	18	29978	8790	25695	0
74	20	33087	9767	28772	0
74	22	36194	10744	31851	0
74	24	39299	11720	34932	0
74	26	42565	12886	40343	0
74	28	45679	13877	43616	0
74	30	48791	14868	46890	0
74	32	51903	15859	50166	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
76	10	17954	5016	13811	0
76	12	21177	6019	16942	0
76	14	24388	7022	20084	0
76	16	27591	8025	23234	0
76	18	30788	9028	26390	0
76	20	33982	10031	29549	0
76	22	37172	11034	32712	0
76	24	40361	12037	35876	0
76	26	46214	13234	41433	0
76	28	49594	14252	44795	0
76	30	52973	15270	48157	0
76	32	56351	16288	51521	0

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Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
78	10	18427	5148	14175	0
78	12	21734	6177	17387	0
78	14	25029	7207	20612	0
78	16	28317	8236	23846	0
78	18	31598	9266	27084	0
78	20	34876	10295	30327	0
78	22	38151	11325	33572	0
78	24	41423	12354	36820	0
78	26	47430	13582	42523	0
78	28	50899	14627	45973	0
78	30	54367	15672	49425	0
78	32	57834	16716	52877	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
80	10	18899	5279	14538	0
80	12	22292	6335	17833	0
80	14	25671	7391	21141	0
80	16	29043	8447	24457	0
80	18	32408	9503	27779	0
80	20	35770	10559	31104	0
80	22	39129	11615	34433	0
80	24	42485	12671	37764	0
80	26	48646	13930	43614	0
80	28	52204	15002	47152	0
80	30	55761	16073	50692	0
80	32	59317	17145	54233	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
82	10	19372	5411	14901	0
82	12	22849	6494	18279	0
82	14	26313	7576	21670	0
82	16	29769	8658	25068	0
82	18	33219	9741	28473	0
82	20	36664	10823	31882	0
82	22	40107	11905	35294	0
82	24	43547	12988	38709	0
82	26	49862	14279	44704	0
82	28	53509	15377	48331	0
82	30	57155	16475	51959	0
82	32	60800	17574	55589	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
84	10	19844	5543	15265	0
84	12	23406	6652	18725	0
84	14	26955	7761	22198	0
84	16	30495	8870	25680	0
84	18	34029	9978	29168	0
84	20	37559	11087	32660	0
84	22	41085	12196	36155	0
84	24	44609	13304	39653	0
84	26	51078	14627	45794	0
84	28	54814	15752	49510	0
84	30	58549	16877	53227	0
84	32	62283	18002	56945	0

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Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
86	10	20317	5675	15628	0
86	12	23963	6811	19171	0
86	14	27597	7946	22727	0
86	16	31221	9081	26291	0
86	18	34839	10216	29862	0
86	20	38453	11351	33437	0
86	22	42063	12486	37016	0
86	24	45671	13621	40597	0
86	26	52294	14975	46885	0
86	28	56120	16127	50689	0
86	30	59943	17279	54494	0
86	32	63766	18431	58300	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
88	10	20789	5807	15992	0
88	12	24521	6969	19617	0
88	14	28238	8130	23255	0
88	16	31947	9292	26903	0
88	18	35649	10453	30557	0
88	20	39347	11615	34215	0
88	22	43042	12776	37877	0
88	24	46734	13938	41541	0
88	26	53511	15323	47975	0
88	28	57425	16502	51867	0
88	30	61337	17681	55761	0
88	32	65249	18860	59656	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
90	10	21262	5939	16355	0
90	12	25078	7127	20062	0
90	14	28880	8315	23784	0
90	16	32673	9503	27514	0
90	18	36460	10691	31251	0
90	20	40241	11879	34993	0
90	22	44020	13067	38737	0
90	24	47796	14255	42485	0
90	26	54727	15672	49065	0
90	28	58730	16877	53046	0
90	30	62731	18083	57029	0
90	32	66732	19288	61012	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
92	10	21734	6071	16719	0
92	12	25635	7286	20508	0
92	14	29522	8500	24312	0
92	16	33399	9714	28126	0
92	18	37270	10929	31945	0
92	20	41136	12143	35770	0
92	22	44998	13357	39598	0
92	24	48858	14571	43429	0
92	26	55943	16020	50156	0
92	28	60035	17252	54225	0
92	30	64126	18484	58296	0
92	32	68215	19717	62368	0

HIGHER POWER HYDRAULIC DOORS
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Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
94	10	22207	6203	17082	0
94	12	26193	7444	20954	0
94	14	30164	8685	24841	0
94	16	34125	9925	28737	0
94	18	38080	11166	32640	0
94	20	42030	12407	36548	0
94	22	45976	13647	40459	0
94	24	49920	14888	44373	0
94	26	57159	16368	51246	0
94	28	61340	17627	55404	0
94	30	65520	18886	59563	0
94	32	69698	20145	63724	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
96	10	22679	6335	17446	0
96	12	26750	7602	21400	0
96	14	30805	8870	25369	0
96	16	34851	10137	29348	0
96	18	38890	11404	33334	0
96	20	42924	12671	37325	0
96	22	46954	13938	41320	0
96	24	50982	15205	45317	0
96	26	58375	16716	52336	0
96	28	62645	18002	56583	0
96	30	66914	19288	60831	0
96	32	71181	20574	65080	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
98	10	23152	6467	17809	0
98	12	27307	7761	21846	0
98	14	31447	9054	25898	0
98	16	35577	10348	29960	0
98	18	39700	11641	34029	0
98	20	43818	12935	38103	0
98	22	47933	14228	42181	0
98	24	52044	15522	46261	0
98	26	59591	17065	53427	0
98	28	63950	18377	57761	0
98	30	68308	19690	62098	0
98	32	72664	21003	66435	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
100	10	23624	6599	18172	0
100	12	27864	7919	22292	0
100	14	32089	9239	26426	0
100	16	36303	10559	30571	0
100	18	40511	11879	34723	0
100	20	44713	13199	38881	0
100	22	48911	14519	43042	0
100	24	53106	15838	47206	0
100	26	60807	17413	54517	0
100	28	65255	18752	58940	0
100	30	69702	20092	63365	0
100	32	74147	21431	67791	0

HIGHER POWER HYDRAULIC DOORS
UNFACTORED DOOR JAMB REACTIONS - 200 mph - ASCE 7-16

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
105	10	24805	6929	19081	0
105	12	29258	8315	23406	0
105	14	33693	9701	27748	0
105	16	38119	11087	32100	0
105	18	42536	12473	36460	0
105	20	46948	13859	40825	0
105	22	51356	15245	45194	0
105	24	55762	16630	49566	0
105	26	63848	18284	57243	0
105	28	68518	19690	61887	0
105	30	73187	21096	66533	0
105	32	77854	22503	71181	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
110	10	25987	7259	19990	0
110	12	30651	8711	24521	0
110	14	35298	10163	29069	0
110	16	39934	11615	33628	0
110	18	44562	13067	38196	0
110	20	49184	14519	42769	0
110	22	53802	15970	47346	0
110	24	58417	17422	51926	0
110	26	66888	19154	59969	0
110	28	71781	20628	64834	0
110	30	76672	22101	69702	0
110	32	81561	23574	74570	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
115	10	27168	7589	20898	0
115	12	32044	9107	25635	0
115	14	36902	10625	30390	0
115	16	41749	12143	35157	0
115	18	46587	13661	39932	0
115	20	51420	15179	44713	0
115	22	56248	16696	49498	0
115	24	61072	18214	54286	0
115	26	69929	20025	62695	0
115	28	75044	21565	67781	0
115	30	80157	23106	72870	0
115	32	85269	24646	77960	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
120	10	28349	7919	21807	0
120	12	33437	9503	26750	0
120	14	38507	11087	31711	0
120	16	43564	12671	36685	0
120	18	48613	14255	41668	0
120	20	53655	15838	46657	0
120	22	58693	17422	51650	0
120	24	63728	19006	56647	0
120	26	72969	20896	65420	0
120	28	78306	22503	70728	0
120	30	83642	24110	76038	0
120	32	88976	25718	81349	0

HIGHER POWER HYDRAULIC DOORS
UNFACTORED DOOR JAMB REACTIONS - 200 mph - ASCE 7-16

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
125	10	29530	8249	22716	0
125	12	34831	9899	27864	0
125	14	40111	11549	33033	0
125	16	45379	13199	38214	0
125	18	50638	14849	43404	0
125	20	55891	16498	48601	0
125	22	61139	18148	53802	0
125	24	66383	19798	59007	0
125	26	76009	21766	68146	0
125	28	81569	23440	73675	0
125	30	87127	25115	79206	0
125	32	92683	26789	84739	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
130	10	30711	8579	23624	0
130	12	36224	10295	28979	0
130	14	41716	12011	34354	0
130	16	47194	13727	39743	0
130	18	52664	15443	45140	0
130	20	58126	17158	50545	0
130	22	63584	18874	55954	0
130	24	69038	20590	61367	0
130	26	79050	22637	70872	0
130	28	84832	24378	76622	0
130	30	90612	26119	82375	0
130	32	96391	27861	88129	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
135	10	31893	8909	24533	0
135	12	37617	10691	30094	0
135	14	43320	12473	35675	0
135	16	49010	14255	41271	0
135	18	54689	16036	46877	0
135	20	60362	17818	52489	0
135	22	66030	19600	58106	0
135	24	71693	21382	63728	0
135	26	82090	23507	73598	0
135	28	88095	25316	79569	0
135	30	94097	27124	85543	0
135	32	100098	28932	91518	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
140	10	33074	9239	25441	0
140	12	39010	11087	31208	0
140	14	44925	12935	36997	0
140	16	50825	14783	42800	0
140	18	56715	16630	48613	0
140	20	62598	18478	54433	0
140	22	68475	20326	60258	0
140	24	74349	22174	66088	0
140	26	85130	24378	76324	0
140	28	91357	26253	82516	0
140	30	97582	28129	88711	0
140	32	103805	30004	94908	0

HIGHER POWER HYDRAULIC DOORS
UNFACTORED DOOR JAMB REACTIONS - 200 mph - ASCE 7-16

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
145	10	34255	9569	26350	0
145	12	40403	11483	32323	0
145	14	46529	13397	38318	0
145	16	52640	15311	44328	0
145	18	58740	17224	50349	0
145	20	64833	19138	56377	0
145	22	70921	21052	62410	0
145	24	77004	22966	68448	0
145	26	88171	25249	79050	0
145	28	94620	27191	85463	0
145	30	101067	29133	91879	0
145	32	107513	31075	98297	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
150	10	35436	9899	27259	0
150	12	41797	11879	33437	0
150	14	48134	13859	39639	0
150	16	54455	15838	45857	0
150	18	60766	17818	52085	0
150	20	67069	19798	58321	0
150	22	73366	21778	64562	0
150	24	79659	23758	70808	0
150	26	91211	26119	81776	0
150	28	97883	28129	88410	0
150	30	104552	30138	95048	0
150	32	111220	32147	101687	0