

HIGHER POWER HYDRAULIC DOORS
UNFACTORED DOOR JAMB REACTIONS - 170 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
15.5	$h \leq 24$ ft	170	60.4	50	7.2	50	3.2	-5.9
	24 ft < $h \leq 32$ ft		64.1		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	5121	2805	3939	0
30	12	6040	3366	4832	0
30	14	6955	3927	5728	0
30	16	7869	4488	6626	0
30	18	8781	5049	7526	0
30	20	9691	5610	8427	0
30	22	10601	6171	9329	0
30	24	11511	6732	10232	0
30	26	13180	7369	11817	0
30	28	14144	7936	12775	0
30	30	15108	8503	13734	0
30	32	16071	9069	14694	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
32	10	5462	2992	4201	0
32	12	6442	3590	5154	0
32	14	7419	4189	6110	0
32	16	8393	4787	7068	0
32	18	9366	5385	8028	0
32	20	10338	5984	8989	0
32	22	11308	6582	9951	0
32	24	12278	7180	10914	0
32	26	14059	7860	12604	0
32	28	15087	8465	13627	0
32	30	16115	9069	14650	0
32	32	17143	9674	15673	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
34	10	5803	3179	4464	0
34	12	6845	3815	5476	0
34	14	7883	4450	6492	0
34	16	8918	5086	7510	0
34	18	9951	5722	8530	0
34	20	10984	6358	9551	0
34	22	12015	6993	10573	0
34	24	13046	7629	11596	0
34	26	14937	8351	13392	0
34	28	16030	8994	14479	0
34	30	17122	9636	15566	0
34	32	18214	10279	16653	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
36	10	6145	3366	4727	0
36	12	7248	4039	5798	0
36	14	8346	4712	6873	0
36	16	9442	5385	7952	0
36	18	10537	6058	9032	0
36	20	11630	6732	10113	0
36	22	12722	7405	11195	0
36	24	13813	8078	12278	0
36	26	15816	8843	14180	0
36	28	16973	9523	15330	0
36	30	18129	10203	16481	0
36	32	19286	10883	17632	0

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Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
38	10	6486	3553	4989	0
38	12	7650	4263	6120	0
38	14	8810	4974	7255	0
38	16	9967	5684	8393	0
38	18	11122	6395	9533	0
38	20	12276	7106	10675	0
38	22	13428	7816	11817	0
38	24	14580	8527	12960	0
38	26	16695	9334	14968	0
38	28	17916	10052	16182	0
38	30	19137	10770	17397	0
38	32	20357	11488	18612	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
40	10	6827	3740	5252	0
40	12	8053	4488	6442	0
40	14	9274	5236	7637	0
40	16	10492	5984	8835	0
40	18	11708	6732	10035	0
40	20	12922	7479	11236	0
40	22	14135	8227	12439	0
40	24	15348	8975	13642	0
40	26	17573	9825	15755	0
40	28	18859	10581	17034	0
40	30	20144	11337	18313	0
40	32	21428	12093	19592	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
42	10	7169	3927	5514	0
42	12	8455	4712	6764	0
42	14	9737	5497	8019	0
42	16	11016	6283	9277	0
42	18	12293	7068	10537	0
42	20	13568	7853	11798	0
42	22	14842	8639	13061	0
42	24	16115	9424	14325	0
42	26	18452	10316	16543	0
42	28	19802	11110	17885	0
42	30	21151	11904	19228	0
42	32	22500	12697	20571	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
44	10	7510	4114	5777	0
44	12	8858	4936	7086	0
44	14	10201	5759	8401	0
44	16	11541	6582	9719	0
44	18	12878	7405	11039	0
44	20	14214	8227	12360	0
44	22	15549	9050	13683	0
44	24	16882	9873	15007	0
44	26	19331	10808	17331	0
44	28	20745	11639	18737	0
44	30	22158	12470	20144	0
44	32	23571	13302	21551	0

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Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
46	10	7851	4301	6040	0
46	12	9261	5161	7409	0
46	14	10665	6021	8783	0
46	16	12065	6881	10160	0
46	18	13464	7741	11540	0
46	20	14860	8601	12922	0
46	22	16256	9462	14305	0
46	24	17650	10322	15689	0
46	26	20209	11299	18119	0
46	28	21688	12168	19589	0
46	30	23165	13037	21059	0
46	32	24643	13906	22530	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
48	10	8193	4488	6302	0
48	12	9663	5385	7731	0
48	14	11128	6283	9165	0
48	16	12590	7180	10602	0
48	18	14049	8078	12042	0
48	20	15506	8975	13484	0
48	22	16962	9873	14927	0
48	24	18417	10770	16371	0
48	26	21088	11790	18907	0
48	28	22631	12697	20440	0
48	30	24173	13604	21975	0
48	32	25714	14511	23510	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
50	10	8534	4675	6565	0
50	12	10066	5610	8053	0
50	14	11592	6545	9546	0
50	16	13115	7479	11044	0
50	18	14634	8414	12544	0
50	20	16152	9349	14046	0
50	22	17669	10284	15549	0
50	24	19185	11219	17053	0
50	26	21967	12281	19694	0
50	28	23573	13226	21292	0
50	30	25180	14171	22891	0
50	32	26785	15116	24490	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
52	10	8876	4862	6827	0
52	12	10469	5834	8375	0
52	14	12056	6806	9928	0
52	16	13639	7779	11486	0
52	18	15220	8751	13046	0
52	20	16799	9723	14607	0
52	22	18376	10696	16171	0
52	24	19952	11668	17735	0
52	26	22845	12773	20482	0
52	28	24516	13755	22144	0
52	30	26187	14738	23806	0
52	32	27857	15720	25469	0

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Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
54	10	9217	5049	7090	0
54	12	10871	6058	8697	0
54	14	12520	7068	10310	0
54	16	14164	8078	11927	0
54	18	15805	9088	13547	0
54	20	17445	10097	15169	0
54	22	19083	11107	16793	0
54	24	20719	12117	18417	0
54	26	23724	13264	21270	0
54	28	25459	14284	22996	0
54	30	27194	15305	24722	0
54	32	28928	16325	26449	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
56	10	9558	5236	7353	0
56	12	11274	6283	9019	0
56	14	12983	7330	10692	0
56	16	14688	8377	12369	0
56	18	16391	9424	14049	0
56	20	18091	10471	15731	0
56	22	19789	11518	17415	0
56	24	21487	12566	19099	0
56	26	24603	13755	22058	0
56	28	26402	14813	23847	0
56	30	28201	15871	25638	0
56	32	30000	16930	27428	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
58	10	9900	5423	7615	0
58	12	11677	6507	9341	0
58	14	13447	7592	11074	0
58	16	15213	8676	12811	0
58	18	16976	9761	14551	0
58	20	18737	10845	16293	0
58	22	20496	11930	18037	0
58	24	22254	13014	19781	0
58	26	25481	14246	22845	0
58	28	27345	15342	24699	0
58	30	29208	16438	26553	0
58	32	31071	17534	28408	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
60	10	10241	5610	7878	0
60	12	12079	6732	9663	0
60	14	13911	7853	11456	0
60	16	15737	8975	13253	0
60	18	17561	10097	15053	0
60	20	19383	11219	16855	0
60	22	21203	12341	18659	0
60	24	23022	13463	20464	0
60	26	26360	14738	23633	0
60	28	28288	15871	25551	0
60	30	30216	17005	27469	0
60	32	32143	18139	29387	0

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Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
62	10	10582	5797	8140	0
62	12	12482	6956	9985	0
62	14	14374	8115	11838	0
62	16	16262	9275	13694	0
62	18	18147	10434	15554	0
62	20	20029	11593	17417	0
62	22	21910	12753	19280	0
62	24	23789	13912	21146	0
62	26	27239	15229	24421	0
62	28	29231	16400	26402	0
62	30	31223	17572	28384	0
62	32	33214	18743	30367	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
64	10	10924	5984	8403	0
64	12	12885	7180	10308	0
64	14	14838	8377	12219	0
64	16	16787	9574	14136	0
64	18	18732	10770	16056	0
64	20	20675	11967	17978	0
64	22	22616	13164	19902	0
64	24	24556	14361	21828	0
64	26	28117	15720	25209	0
64	28	30174	16930	27254	0
64	30	32230	18139	29300	0
64	32	34285	21396	31347	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
66	10	11265	6171	8666	0
66	12	13287	7405	10630	0
66	14	15302	8639	12601	0
66	16	17311	9873	14578	0
66	18	19317	11107	16558	0
66	20	21321	12341	18540	0
66	22	23323	13575	20524	0
66	24	25324	14809	22510	0
66	26	28996	16212	25996	0
66	28	31117	17459	28106	0
66	30	33237	18706	30216	0
66	32	35357	22065	32326	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
68	10	11607	6358	8928	0
68	12	13690	7629	10952	0
68	14	15765	8901	12983	0
68	16	17836	10172	15020	0
68	18	19903	11444	17060	0
68	20	21967	12715	19102	0
68	22	24030	13987	21146	0
68	24	26091	15258	23192	0
68	26	29875	16703	26784	0
68	28	32060	17988	28957	0
68	30	34244	21312	31131	0
68	32	36428	22733	33306	0

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Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
70	10	11948	6545	9191	0
70	12	14092	7853	11274	0
70	14	16229	9162	13365	0
70	16	18360	10471	15461	0
70	18	20488	11780	17561	0
70	20	22613	13089	19664	0
70	22	24737	14398	21768	0
70	24	26859	15707	23874	0
70	26	30753	17194	27572	0
70	28	33003	18517	29809	0
70	30	35252	21939	32047	0
70	32	37500	23402	34285	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
72	10	12289	6732	9453	0
72	12	14495	8078	11596	0
72	14	16693	9424	13747	0
72	16	18885	10770	15903	0
72	18	21074	12117	18063	0
72	20	23260	13463	20226	0
72	22	25443	14809	22390	0
72	24	27626	16156	24556	0
72	26	31632	17685	28360	0
72	28	33946	21062	30661	0
72	30	36259	22566	32963	0
72	32	38571	24071	35265	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
74	10	12631	6919	9716	0
74	12	14898	8302	11918	0
74	14	17156	9686	14129	0
74	16	19410	11070	16345	0
74	18	21659	12453	18565	0
74	20	23906	13837	20787	0
74	22	26150	15221	23012	0
74	24	28393	16604	25238	0
74	26	30753	18177	29148	0
74	28	33003	21647	31512	0
74	30	35252	23193	33878	0
74	32	37500	24739	36245	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
76	10	12972	7106	9978	0
76	12	15300	8527	12240	0
76	14	17620	9948	14511	0
76	16	19934	11369	16787	0
76	18	22244	12790	19067	0
76	20	24552	14211	21349	0
76	22	26857	15632	23634	0
76	24	29161	17053	25921	0
76	26	33389	18668	29935	0
76	28	35832	22232	32364	0
76	30	38273	23820	34794	0
76	32	40714	25408	37224	0

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Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
78	10	13313	7293	10241	0
78	12	15703	8751	12562	0
78	14	18084	10210	14893	0
78	16	20459	11668	17228	0
78	18	22830	13127	19568	0
78	20	25198	14585	21911	0
78	22	27564	16044	24256	0
78	24	29928	17502	26603	0
78	26	34268	21187	30723	0
78	28	36775	22817	33216	0
78	30	39280	24447	35709	0
78	32	41785	26076	38204	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
80	10	13655	7479	10504	0
80	12	16106	8975	12885	0
80	14	18547	10471	15274	0
80	16	20983	11967	17670	0
80	18	23415	13463	20070	0
80	20	25844	14959	22473	0
80	22	28271	16455	24878	0
80	24	30695	17951	27285	0
80	26	35147	21730	31511	0
80	28	37718	23402	34067	0
80	30	40288	25073	36625	0
80	32	42857	29305	39183	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
82	10	13996	7666	10766	0
82	12	16508	9200	13207	0
82	14	19011	10733	15656	0
82	16	21508	12266	18112	0
82	18	24000	13800	20572	0
82	20	26490	15333	23035	0
82	22	28977	16866	25500	0
82	24	31463	18400	27967	0
82	26	36025	22274	32299	0
82	28	38661	23987	34919	0
82	30	41295	25700	37541	0
82	32	43928	30038	40163	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
84	10	14338	7853	11029	0
84	12	16911	9424	13529	0
84	14	19475	10995	16038	0
84	16	22032	12566	18554	0
84	18	24586	14136	21074	0
84	20	27136	15707	23597	0
84	22	29684	17278	26122	0
84	24	32230	20864	28649	0
84	26	36904	22817	33086	0
84	28	39603	24572	35771	0
84	30	42302	28847	38456	0
84	32	45000	30770	41142	0

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Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
86	10	14679	8040	11291	0
86	12	17314	9649	13851	0
86	14	19939	11257	16420	0
86	16	22557	12865	18995	0
86	18	25171	14473	21575	0
86	20	27782	16081	24158	0
86	22	30391	17689	26744	0
86	24	32998	21361	29331	0
86	26	37783	23360	33874	0
86	28	40546	25157	36623	0
86	30	43309	29534	39372	0
86	32	46071	31503	42122	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
88	10	15020	8227	11554	0
88	12	17716	9873	14173	0
88	14	20402	11518	16802	0
88	16	23082	13164	19437	0
88	18	25757	14809	22077	0
88	20	28428	16455	24720	0
88	22	31098	18100	27366	0
88	24	33765	21858	30013	0
88	26	38661	23903	34662	0
88	28	41489	25742	37474	0
88	30	44316	30221	40288	0
88	32	47142	32236	43102	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
90	10	15362	8414	11817	0
90	12	18119	10097	14495	0
90	14	20866	11780	17184	0
90	16	23606	13463	19879	0
90	18	26342	15146	22579	0
90	20	29074	16829	25282	0
90	22	31804	18512	27988	0
90	24	34532	22355	30695	0
90	26	39540	24447	35450	0
90	28	42432	28847	38326	0
90	30	45323	30908	41203	0
90	32	48214	32968	44081	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
92	10	15703	8601	12079	0
92	12	18521	10322	14817	0
92	14	21330	12042	17566	0
92	16	24131	13762	20321	0
92	18	26927	15483	23081	0
92	20	29720	17203	25844	0
92	22	32511	20947	28610	0
92	24	35300	22851	31378	0
92	26	40419	24990	36237	0
92	28	43375	29488	39178	0
92	30	46331	31594	42119	0
92	32	49285	33701	45061	0

HIGHER POWER HYDRAULIC DOORS
UNFACTORED DOOR JAMB REACTIONS - 170 mph - ASCE 7-22 / IBC-24

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
94	10	16044	8788	12342	0
94	12	18924	10546	15139	0
94	14	21793	12304	17947	0
94	16	24655	14061	20762	0
94	18	27513	15819	23582	0
94	20	30367	17577	26406	0
94	22	33218	21402	29232	0
94	24	36067	23348	32060	0
94	26	41297	25533	37025	0
94	28	44318	30129	40029	0
94	30	47338	32281	43034	0
94	32	50357	37441	46040	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
96	10	16386	8975	12604	0
96	12	19327	10770	15461	0
96	14	22257	12566	18329	0
96	16	25180	14361	21204	0
96	18	28098	16156	24084	0
96	20	31013	17951	26968	0
96	22	33925	21858	29854	0
96	24	36835	23845	32742	0
96	26	42176	26076	37813	0
96	28	45261	30770	40881	0
96	30	48345	32968	43950	0
96	32	51428	38238	47020	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
98	10	16727	9162	12867	0
98	12	19729	10995	15784	0
98	14	22721	12827	18711	0
98	16	25705	14660	21646	0
98	18	28684	16492	24586	0
98	20	31659	18325	27529	0
98	22	34631	22313	30476	0
98	24	37602	24342	33424	0
98	26	43055	29168	38601	0
98	28	46204	31411	41733	0
98	30	49352	33655	44866	0
98	32	52500	39035	48000	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
100	10	17068	9349	13130	0
100	12	20132	11219	16106	0
100	14	23184	13089	19093	0
100	16	26229	14959	22088	0
100	18	29269	16829	25088	0
100	20	32305	18699	28091	0
100	22	35338	22769	31098	0
100	24	38369	24838	34106	0
100	26	43933	29763	39389	0
100	28	47147	32052	42584	0
100	30	50359	37342	45781	0
100	32	53571	39831	48979	0

HIGHER POWER HYDRAULIC DOORS
UNFACTORED DOOR JAMB REACTIONS - 170 mph - ASCE 7-22 / IBC-24

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
105	10	17922	9817	13786	0
105	12	21139	11780	16911	0
105	14	24344	13744	20048	0
105	16	27541	15707	23192	0
105	18	30732	17670	26342	0
105	20	33920	21734	29496	0
105	22	37105	23907	32652	0
105	24	40288	28600	35811	0
105	26	46130	31251	41358	0
105	28	49504	33655	44714	0
105	30	52877	39209	48070	0
105	32	56250	41823	51428	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
110	10	18775	10284	14443	0
110	12	22145	12341	17716	0
110	14	25503	14398	21002	0
110	16	28852	16455	24296	0
110	18	32196	18512	27596	0
110	20	35535	22769	30900	0
110	22	38872	25045	34207	0
110	24	42206	29962	37517	0
110	26	48327	32739	43327	0
110	28	51862	38338	46843	0
110	30	55395	41076	50359	0
110	32	58928	47334	53877	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
115	10	19629	10752	15099	0
115	12	23152	12902	18521	0
115	14	26662	15052	21957	0
115	16	30164	17203	25401	0
115	18	33659	21423	28851	0
115	20	37151	23804	32305	0
115	22	40639	28714	35762	0
115	24	44125	31324	39222	0
115	26	50523	34227	45297	0
115	28	54219	40080	48972	0
115	30	57913	42943	52648	0
115	32	61607	49486	56326	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
120	10	20482	11219	15756	0
120	12	24158	13463	19327	0
120	14	27821	15707	22912	0
120	16	31475	17951	26505	0
120	18	35123	22355	30105	0
120	20	38766	24838	33709	0
120	22	42406	29962	37317	0
120	24	46043	32686	40927	0
120	26	52720	38836	47266	0
120	28	56576	41823	51101	0
120	30	60431	48410	54938	0
120	32	64285	51638	58775	0

HIGHER POWER HYDRAULIC DOORS
UNFACTORED DOOR JAMB REACTIONS - 170 mph - ASCE 7-22 / IBC-24

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
125	10	21336	11687	16412	0
125	12	25165	14024	20132	0
125	14	28980	16361	23866	0
125	16	32786	18699	27610	0
125	18	36586	23286	31360	0
125	20	40381	28373	35114	0
125	22	44173	31211	38872	0
125	24	47962	37048	42633	0
125	26	54917	40454	49236	0
125	28	58934	47065	53230	0
125	30	62949	50427	57227	0
125	32	66964	57789	61224	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
130	10	22189	12154	17068	0
130	12	26172	14585	20937	0
130	14	30140	17016	24821	0
130	16	34098	21527	28714	0
130	18	38050	24218	32614	0
130	20	41996	29508	36519	0
130	22	45940	32459	40427	0
130	24	49880	38530	44338	0
130	26	57113	42072	51205	0
130	28	61291	48948	55360	0
130	30	65467	52444	59516	0
130	32	69642	60101	63673	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
135	10	23042	12622	17725	0
135	12	27178	15146	21743	0
135	14	31299	17670	25775	0
135	16	35409	22355	29818	0
135	18	39513	25149	33868	0
135	20	43612	30643	37923	0
135	22	47706	33708	41982	0
135	24	51799	40012	46043	0
135	26	59310	47200	53175	0
135	28	63648	50831	57489	0
135	30	67985	58511	61805	0
135	32	72321	62412	66122	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
140	10	23896	13089	18381	0
140	12	28185	15707	22548	0
140	14	32458	18325	26730	0
140	16	36721	23183	30923	0
140	18	40976	28600	35123	0
140	20	45227	31778	39328	0
140	22	49473	38036	43537	0
140	24	53717	41494	47748	0
140	26	61507	48948	55144	0
140	28	66006	52713	59618	0
140	30	70503	60679	64094	0
140	32	74999	64724	68571	0

HIGHER POWER HYDRAULIC DOORS
UNFACTORED DOOR JAMB REACTIONS - 170 mph - ASCE 7-22 / IBC-24

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
145	10	24749	13557	19038	0
145	12	29191	16268	23353	0
145	14	33617	21009	27685	0
145	16	38032	24011	32027	0
145	18	42440	29622	36377	0
145	20	46842	32913	40732	0
145	22	51240	39394	45091	0
145	24	55635	42976	49454	0
145	26	63703	50696	57113	0
145	28	68363	58656	61747	0
145	30	73021	62846	66383	0
145	32	77678	71675	71020	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
150	10	25603	14024	19694	0
150	12	30198	16829	24158	0
150	14	34776	21734	28639	0
150	16	39344	24838	33132	0
150	18	43903	30643	37631	0
150	20	48457	37048	42137	0
150	22	53007	40753	46646	0
150	24	57554	48058	51159	0
150	26	65900	52444	59083	0
150	28	70720	60679	63877	0
150	30	75539	69513	68672	0
150	32	80356	74147	73469	0