

HIGHER POWER HYDRAULIC DOORS  
UNFACTORED DOOR JAMB REACTIONS - 190 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
17.5	$h \leq 24$ ft	190	75.4	50	7.2	50	3.2	-5.9
	$24$ ft $< h \leq 32$ ft		80.1		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	6396	3105	4920	0
30	12	7544	3726	6035	0
30	14	8688	4347	7155	0
30	16	9829	4968	8277	0
30	18	10968	5589	9401	0
30	20	12106	6210	10527	0
30	22	13243	6831	11654	0
30	24	14379	7452	12781	0
30	26	16464	8149	14760	0
30	28	17668	8776	15958	0
30	30	18872	9403	17156	0
30	32	20075	10029	18354	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
32	10	6823	3312	5248	0
32	12	8047	3974	6438	0
32	14	9267	4637	7632	0
32	16	10484	5299	8829	0
32	18	11699	5961	10028	0
32	20	12913	6624	11229	0
32	22	14125	7286	12430	0
32	24	15337	7948	13633	0
32	26	17561	8692	15745	0
32	28	18846	9361	17022	0
32	30	20130	10029	18300	0
32	32	21414	10698	19578	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
34	10	7249	3519	5576	0
34	12	8550	4223	6840	0
34	14	9847	4926	8109	0
34	16	11140	5630	9381	0
34	18	12431	6334	10655	0
34	20	13720	7038	11931	0
34	22	15008	7741	13207	0
34	24	16296	8445	14485	0
34	26	18659	9235	16729	0
34	28	20024	9946	18086	0
34	30	21388	10656	19444	0
34	32	22752	11367	20802	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
36	10	7675	3726	5904	0
36	12	9053	4471	7243	0
36	14	10426	5216	8586	0
36	16	11795	5961	9933	0
36	18	13162	6706	11282	0
36	20	14527	7452	12632	0
36	22	15891	8197	13984	0
36	24	17254	8942	15337	0
36	26	19756	9779	17713	0
36	28	21201	10531	19150	0
36	30	22646	11283	20587	0
36	32	24090	12035	22025	0

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Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
38	10	8102	3933	6232	0
38	12	9556	4719	7645	0
38	14	11005	5506	9063	0
38	16	12450	6292	10484	0
38	18	13893	7079	11908	0
38	20	15334	7866	13334	0
38	22	16774	8652	14761	0
38	24	18213	9439	16189	0
38	26	20854	10322	18697	0
38	28	22379	11116	20214	0
38	30	23904	11910	21731	0
38	32	25429	12704	23249	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
40	10	8528	4140	6560	0
40	12	10059	4968	8047	0
40	14	11584	5796	9540	0
40	16	13106	6624	11036	0
40	18	14624	7452	12535	0
40	20	16141	8279	14036	0
40	22	17657	9107	15538	0
40	24	19171	9935	17041	0
40	26	21951	10865	19681	0
40	28	23557	11701	21277	0
40	30	25162	12537	22875	0
40	32	26767	13373	24473	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
42	10	8955	4347	6888	0
42	12	10562	5216	8450	0
42	14	12163	6085	10017	0
42	16	13761	6955	11588	0
42	18	15356	7824	13162	0
42	20	16948	8693	14738	0
42	22	18540	9563	16315	0
42	24	20130	10432	17893	0
42	26	23049	11408	20665	0
42	28	24735	12286	22341	0
42	30	26420	13164	24019	0
42	32	28105	14041	25696	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
44	10	9381	4554	7216	0
44	12	11065	5464	8852	0
44	14	12743	6375	10494	0
44	16	14416	7286	12140	0
44	18	16087	8197	13789	0
44	20	17755	9107	15439	0
44	22	19423	10018	17092	0
44	24	21089	10929	18745	0
44	26	24147	11952	21649	0
44	28	25913	12871	23405	0
44	30	27679	13790	25162	0
44	32	29444	14710	26920	0

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Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
46	10	9808	4761	7544	0
46	12	11568	5713	9254	0
46	14	13322	6665	10971	0
46	16	15071	7617	12692	0
46	18	16818	8569	14415	0
46	20	18562	9521	16141	0
46	22	20305	10474	17869	0
46	24	22047	11426	19597	0
46	26	25244	12495	22633	0
46	28	27091	13456	24469	0
46	30	28937	14417	26306	0
46	32	30782	15378	28144	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
48	10	10234	4968	7872	0
48	12	12071	5961	9657	0
48	14	13901	6955	11448	0
48	16	15727	7948	13243	0
48	18	17549	8942	15042	0
48	20	19370	9935	16843	0
48	22	21188	10929	18646	0
48	24	23006	11922	20449	0
48	26	26342	13038	23617	0
48	28	28269	14041	25533	0
48	30	30195	15044	27450	0
48	32	32120	16047	29367	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
50	10	10660	5175	8200	0
50	12	12574	6210	10059	0
50	14	14480	7245	11925	0
50	16	16382	8279	13795	0
50	18	18280	9314	15669	0
50	20	20177	10349	17545	0
50	22	22071	11384	19423	0
50	24	23964	12419	21302	0
50	26	27439	13581	24601	0
50	28	29446	14626	26597	0
50	30	31453	15671	28594	0
50	32	33459	16716	30591	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
52	10	11087	5382	8528	0
52	12	13077	6458	10461	0
52	14	15059	7534	12402	0
52	16	17037	8611	14347	0
52	18	19012	9687	16296	0
52	20	20984	10763	18247	0
52	22	22954	11840	20199	0
52	24	24923	12916	22154	0
52	26	28537	14125	25585	0
52	28	30624	15211	27661	0
52	30	32711	16298	29737	0
52	32	34797	17384	31814	0

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Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
54	10	11513	5589	8856	0
54	12	13580	6706	10864	0
54	14	15639	7824	12879	0
54	16	17692	8942	14899	0
54	18	19743	10060	16922	0
54	20	21791	11177	18948	0
54	22	23837	12295	20976	0
54	24	25881	13413	23006	0
54	26	29635	14668	26569	0
54	28	31802	15796	28725	0
54	30	33969	16925	30881	0
54	32	36135	18053	33038	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
56	10	11940	5796	9184	0
56	12	14083	6955	11266	0
56	14	16218	8114	13356	0
56	16	18348	9273	15451	0
56	18	20474	10432	17549	0
56	20	22598	11591	19650	0
56	22	24720	12750	21753	0
56	24	26840	13910	23858	0
56	26	30732	15211	27553	0
56	28	32980	16381	29788	0
56	30	35227	17551	32025	0
56	32	37474	18722	34262	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
58	10	12366	6003	9512	0
58	12	14586	7203	11668	0
58	14	16797	8404	13833	0
58	16	19003	9604	16003	0
58	18	21205	10805	18176	0
58	20	23405	12005	20352	0
58	22	25602	13206	22530	0
58	24	27798	14406	24710	0
58	26	31830	15754	28537	0
58	28	34158	16966	30852	0
58	30	36485	18178	33168	0
58	32	38812	19390	35485	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
60	10	12792	6210	9840	0
60	12	15089	7452	12071	0
60	14	17376	8693	14310	0
60	16	19658	9935	16554	0
60	18	21936	11177	18803	0
60	20	24212	12419	21054	0
60	22	26485	13661	23307	0
60	24	28757	14903	25562	0
60	26	32927	16298	29521	0
60	28	35336	17551	31916	0
60	30	37743	18805	34312	0
60	32	40150	20059	36709	0

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Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
62	10	13219	6417	10168	0
62	12	15592	7700	12473	0
62	14	17955	8983	14787	0
62	16	20314	10267	17106	0
62	18	22668	11550	19429	0
62	20	25019	12833	21756	0
62	22	27368	14117	24084	0
62	24	29716	15400	26414	0
62	26	34025	16841	30505	0
62	28	36514	18136	32980	0
62	30	39002	19432	35456	0
62	32	41489	20727	37933	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
64	10	13645	6624	10496	0
64	12	16094	7948	12876	0
64	14	18535	9273	15264	0
64	16	20969	10598	17658	0
64	18	23399	11922	20056	0
64	20	25826	13247	22457	0
64	22	28251	14572	24861	0
64	24	30674	15897	27266	0
64	26	35122	17384	31489	0
64	28	37691	18722	34044	0
64	30	40260	20059	36600	0
64	32	42827	23444	39156	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
66	10	14072	6831	10824	0
66	12	16597	8197	13278	0
66	14	19114	9563	15741	0
66	16	21624	10929	18210	0
66	18	24130	12295	20683	0
66	20	26633	13661	23159	0
66	22	29134	15027	25638	0
66	24	31633	16393	28118	0
66	26	36220	17928	32473	0
66	28	38869	19307	35108	0
66	30	41518	20686	37743	0
66	32	44165	24177	40380	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
68	10	14498	7038	11152	0
68	12	17100	8445	13680	0
68	14	19693	9853	16218	0
68	16	22279	11260	18762	0
68	18	24861	12668	21310	0
68	20	27440	14075	23861	0
68	22	30017	15483	26415	0
68	24	32591	16890	28970	0
68	26	37318	18471	33457	0
68	28	40047	19892	36172	0
68	30	42776	23352	38887	0
68	32	45504	24909	41603	0

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Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
70	10	14925	7245	11480	0
70	12	17603	8693	14083	0
70	14	20272	10142	16695	0
70	16	22935	11591	19313	0
70	18	25593	13040	21936	0
70	20	28247	14489	24563	0
70	22	30899	15938	27192	0
70	24	33550	17387	29822	0
70	26	38415	19014	34441	0
70	28	41225	20477	37236	0
70	30	44034	24039	40031	0
70	32	46842	25642	42827	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
72	10	15351	7452	11808	0
72	12	18106	8942	14485	0
72	14	20851	10432	17172	0
72	16	23590	11922	19865	0
72	18	26324	13413	22563	0
72	20	29054	14903	25265	0
72	22	31782	16393	27968	0
72	24	34508	17884	30674	0
72	26	39513	19557	35425	0
72	28	42403	23078	38299	0
72	30	45292	24726	41175	0
72	32	48180	26375	44051	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
74	10	15777	7659	12136	0
74	12	18609	9190	14887	0
74	14	21431	10722	17649	0
74	16	24245	12254	20417	0
74	18	27055	13785	23190	0
74	20	29861	15317	25966	0
74	22	32665	16849	28745	0
74	24	35467	18380	31526	0
74	26	38415	20101	36409	0
74	28	41225	23719	39363	0
74	30	44034	25413	42318	0
74	32	46842	27107	45274	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
76	10	16204	7866	12464	0
76	12	19112	9439	15290	0
76	14	22010	11012	18126	0
76	16	24900	12585	20969	0
76	18	27786	14158	23817	0
76	20	30668	15731	26668	0
76	22	33548	17304	29522	0
76	24	36426	18877	32378	0
76	26	41708	20644	37393	0
76	28	44759	24360	40427	0
76	30	47808	26100	43462	0
76	32	50857	27840	46498	0

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Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
78	10	16630	8073	12792	0
78	12	19615	9687	15692	0
78	14	22589	11302	18603	0
78	16	25556	12916	21521	0
78	18	28517	14531	24443	0
78	20	31475	16145	27370	0
78	22	34431	17760	30299	0
78	24	37384	19374	33230	0
78	26	42805	23215	38377	0
78	28	45936	25001	41491	0
78	30	49066	26787	44606	0
78	32	52196	28572	47722	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
80	10	17057	8279	13121	0
80	12	20118	9935	16094	0
80	14	23168	11591	19080	0
80	16	26211	13247	22072	0
80	18	29249	14903	25070	0
80	20	32283	16559	28072	0
80	22	35314	18215	31076	0
80	24	38343	19871	34082	0
80	26	43903	23810	39361	0
80	28	47114	25642	42555	0
80	30	50325	27473	45750	0
80	32	53534	31865	48945	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
82	10	17483	8486	13449	0
82	12	20621	10184	16497	0
82	14	23747	11881	19557	0
82	16	26866	13578	22624	0
82	18	29980	15276	25697	0
82	20	33090	16973	28774	0
82	22	36197	18670	31853	0
82	24	39301	20368	34934	0
82	26	45001	24406	40345	0
82	28	48292	26283	43619	0
82	30	51583	28160	46893	0
82	32	54872	32662	50169	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
84	10	17909	8693	13777	0
84	12	21124	10432	16899	0
84	14	24327	12171	20034	0
84	16	27522	13910	23176	0
84	18	30711	15648	26324	0
84	20	33897	17387	29475	0
84	22	37079	19126	32630	0
84	24	40260	22880	35787	0
84	26	46098	25001	41329	0
84	28	49470	26924	44683	0
84	30	52841	31367	48037	0
84	32	56211	33458	51393	0



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Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
86	10	18336	8900	14105	0
86	12	21627	10681	17302	0
86	14	24906	12461	20511	0
86	16	28177	14241	23728	0
86	18	31442	16021	26951	0
86	20	34704	17801	30177	0
86	22	37962	19581	33407	0
86	24	41218	23425	36639	0
86	26	47196	25596	42313	0
86	28	50648	27565	45747	0
86	30	54099	32114	49181	0
86	32	57549	34255	52616	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
88	10	18762	9107	14433	0
88	12	22130	10929	17704	0
88	14	25485	12750	20988	0
88	16	28832	14572	24280	0
88	18	32173	16393	27577	0
88	20	35511	18215	30879	0
88	22	38845	20036	34184	0
88	24	42177	23970	37491	0
88	26	48293	26191	43297	0
88	28	51826	28206	46810	0
88	30	55357	32861	50325	0
88	32	58887	35052	53840	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
90	10	19189	9314	14761	0
90	12	22633	11177	18106	0
90	14	26064	13040	21465	0
90	16	29487	14903	24831	0
90	18	32905	16766	28204	0
90	20	36318	18629	31581	0
90	22	39728	20492	34961	0
90	24	43136	24515	38343	0
90	26	49391	26787	44281	0
90	28	53004	31367	47874	0
90	30	56615	33608	51468	0
90	32	60226	35848	55063	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
92	10	19615	9521	15089	0
92	12	23136	11426	18509	0
92	14	26644	13330	21942	0
92	16	30143	15234	25383	0
92	18	33636	17139	28831	0
92	20	37125	19043	32283	0
92	22	40611	22971	35737	0
92	24	44094	25059	39195	0
92	26	50488	27382	45266	0
92	28	54182	32064	48938	0
92	30	57873	34354	52612	0
92	32	61564	36645	56287	0

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Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
94	10	20042	9728	15417	0
94	12	23639	11674	18911	0
94	14	27223	13620	22419	0
94	16	30798	15565	25935	0
94	18	34367	17511	29458	0
94	20	37932	19457	32984	0
94	22	41494	23470	36514	0
94	24	45053	25604	40047	0
94	26	51586	27977	46250	0
94	28	55359	32761	50002	0
94	30	59131	35101	53756	0
94	32	62902	40449	57511	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
96	10	20468	9935	15745	0
96	12	24142	11922	19313	0
96	14	27802	13910	22896	0
96	16	31453	15897	26487	0
96	18	35098	17884	30084	0
96	20	38739	19871	33686	0
96	22	42376	23970	37291	0
96	24	46011	26149	40899	0
96	26	52684	28572	47234	0
96	28	56537	33458	51066	0
96	30	60389	35848	54900	0
96	32	64241	41310	58734	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
98	10	20894	10142	16073	0
98	12	24645	12171	19716	0
98	14	28381	14199	23373	0
98	16	32108	16228	27039	0
98	18	35830	18256	30711	0
98	20	39546	20285	34388	0
98	22	43259	24469	38068	0
98	24	46970	26694	41751	0
98	26	53781	31716	48218	0
98	28	57715	34155	52130	0
98	30	61648	36595	56043	0
98	32	65579	42171	59958	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
100	10	21321	10349	16401	0
100	12	25148	12419	20118	0
100	14	28960	14489	23850	0
100	16	32764	16559	27591	0
100	18	36561	18629	31338	0
100	20	40353	20699	35090	0
100	22	44142	24969	38845	0
100	24	47928	27238	42603	0
100	26	54879	32363	49202	0
100	28	58893	34852	53194	0
100	30	62906	40342	57187	0
100	32	66917	43031	61182	0

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Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
105	10	22387	10867	17221	0
105	12	26405	13040	21124	0
105	14	30408	15214	25042	0
105	16	34402	17387	28970	0
105	18	38389	19560	32905	0
105	20	42371	23834	36844	0
105	22	46349	26217	40787	0
105	24	50325	31120	44733	0
105	26	57623	33981	51662	0
105	28	61838	36595	55853	0
105	30	66051	42359	60046	0
105	32	70263	45183	64241	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
110	10	23453	11384	18041	0
110	12	27662	13661	22130	0
110	14	31856	15938	26235	0
110	16	36040	18215	30350	0
110	18	40217	20492	34472	0
110	20	44388	24969	38599	0
110	22	48556	27465	42730	0
110	24	52721	32602	46863	0
110	26	60367	35599	54122	0
110	28	64782	41418	58513	0
110	30	69196	44376	62906	0
110	32	73609	50854	67300	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
115	10	24519	11902	18861	0
115	12	28920	14282	23136	0
115	14	33304	16662	27427	0
115	16	37678	19043	31729	0
115	18	42045	23493	36038	0
115	20	46406	26104	40353	0
115	22	50763	31244	44672	0
115	24	55118	34084	48993	0
115	26	63111	37217	56582	0
115	28	67727	43300	61173	0
115	30	72342	46393	65765	0
115	32	76955	53166	70359	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
120	10	25585	12419	19681	0
120	12	30177	14903	24142	0
120	14	34752	17387	28620	0
120	16	39317	19871	33109	0
120	18	43873	24515	37605	0
120	20	48424	27238	42108	0
120	22	52971	32602	46614	0
120	24	57514	35566	51124	0
120	26	65854	41956	59042	0
120	28	70672	45183	63832	0
120	30	75487	52010	68624	0
120	32	80301	55478	73418	0

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Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
125	10	26651	12937	20501	0
125	12	31435	15524	25148	0
125	14	36200	18111	29812	0
125	16	40955	20699	34488	0
125	18	45701	25536	39172	0
125	20	50441	30873	43862	0
125	22	55178	33961	48556	0
125	24	59911	40048	53254	0
125	26	68598	43704	61502	0
125	28	73616	50565	66492	0
125	30	78632	54177	71484	0
125	32	83647	61789	76477	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
130	10	27717	13454	21321	0
130	12	32692	16145	26154	0
130	14	37648	18836	31005	0
130	16	42593	23607	35868	0
130	18	47529	26558	40739	0
130	20	52459	32108	45617	0
130	22	57385	35319	50499	0
130	24	62307	41650	55384	0
130	26	71342	45452	63962	0
130	28	76561	52588	69152	0
130	30	81777	56344	74343	0
130	32	86993	64261	79536	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
135	10	28783	13972	22141	0
135	12	33949	16766	27159	0
135	14	39096	19560	32197	0
135	16	44231	24515	37247	0
135	18	49357	27579	42306	0
135	20	54477	33343	47371	0
135	22	59592	36678	52441	0
135	24	64703	43252	57514	0
135	26	74086	50710	66422	0
135	28	79505	54611	71811	0
135	30	84923	62561	77202	0
135	32	90338	66732	82595	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
140	10	29849	14489	22961	0
140	12	35207	17387	28165	0
140	14	40544	20285	33390	0
140	16	45869	25423	38627	0
140	18	51185	31120	43873	0
140	20	56494	34578	49126	0
140	22	61799	41116	54383	0
140	24	67100	44854	59644	0
140	26	76830	52588	68882	0
140	28	82450	56633	74471	0
140	30	88068	64879	80062	0
140	32	93684	69204	85654	0

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Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
145	10	30915	15007	23781	0
145	12	36464	18008	29171	0
145	14	41992	23039	34582	0
145	16	47507	26331	40006	0
145	18	53013	32232	45440	0
145	20	58512	35813	50880	0
145	22	64006	42584	56325	0
145	24	69496	46456	61774	0
145	26	79574	54466	71342	0
145	28	85395	62716	77131	0
145	30	91213	67196	82921	0
145	32	97030	76315	88713	0

Door Size		Base Reaction (#)		Top Reaction (#)	
Width (ft)	Height (ft)	Horiz. (#) *	Vert. (#)	Horiz. (#) *	Vert. (#)
150	10	31981	15524	24601	0
150	12	37721	18629	30177	0
150	14	43440	23834	35775	0
150	16	49146	27238	41386	0
150	18	54841	33343	47007	0
150	20	60530	40048	52635	0
150	22	66213	44053	58268	0
150	24	71893	51658	63905	0
150	26	82318	56344	73802	0
150	28	88339	64879	79790	0
150	30	94359	74013	85781	0
150	32	100376	78947	91772	0