

EXTERIOR FOUNDATION TABLE FRAME WALL

Load Bearing Value of Soil (psf)		2000									
Footing Width (in)			16	20	24	28	32	36	40	44	48
Wall Supporting	Footing Thickness (in)	Wall PLF to Footing	Maximum Column Load (lbs)	Maximum Column Load (lbs)	Maximum Column Load (lbs)	Maximum Column Load (lbs)	Maximum Column Load (lbs)	Maximum Column Load (lbs)	Maximum Column Load (lbs)	Maximum Column Load (lbs)	Maximum Column Load (lbs)
Roof and Ceiling	8	980	9417	13139	16862	20584	24306	28028	31751	35473	39195
	10	980	9979	13924	17868	21813	25757	29702	33646	37591	41535
	12	980	10542	14708	18875	23042	27208	31375	35542	39708	43875
	14	980	11104	15493	19882	24271	28659	33048	37437	41826	46215
	16	980	11666	16277	20888	25499	30111	34722	39333	43944	48555
	18	980	12228	17062	21895	26728	31562	36395	41228	46062	50895
	20	980	12791	17846	22902	27957	33013	38068	43124	48179	53235
Roof, Ceiling and One Center Bearing Floor	8	1430	6905	10627	14349	18071	21794	25516	29238	32960	36683
	10	1430	7317	11261	15206	19150	23095	27039	30984	34928	38873
	12	1430	7729	11896	16063	20229	24396	28563	32729	36896	41063
	14	1430	8141	12530	16919	21308	25697	30086	34475	38864	43253
	16	1430	8554	13165	17776	22387	26998	31609	36220	40831	45443
	18	1430	8966	13799	18633	23466	28299	33133	37966	42799	47633
	20	1430	9378	14434	19489	24545	29600	34656	39711	44767	49823
Roof, Ceiling and One Floor Clear Span	8	1880	4392	8114	11837	15559	19281	23003	26726	30448	34170
	10	1880	4654	8599	12543	16488	20432	24377	28321	32266	36210
	12	1880	4917	9083	13250	17417	21583	25750	29917	34083	38250
	14	1880	5179	9568	13957	18346	22734	27123	31512	35901	40290
	16	1880	5441	10052	14663	19274	23886	28497	33108	37719	42330
	18	1880	5703	10537	15370	20203	25037	29870	34703	39537	44370
	20	1880	5966	11021	16077	21132	26188	31243	36299	41354	46410
Roof, Ceiling, and Two Center Bearing Floor	8	1890	4336	8059	11781	15503	19225	22948	26670	30392	34114
	10	1890	4595	8540	12484	16429	20373	24318	28262	32206	36151
	12	1890	4854	9021	13188	17354	21521	25688	29854	34021	38188
	14	1890	5113	9502	13891	18280	22669	27058	31446	35835	40224
	16	1890	5372	9983	14594	19205	23816	28428	33039	37650	42261
	18	1890	5631	10464	15298	20131	24964	29798	34631	39464	44298
	20	1890	5890	10945	16001	21056	26112	31168	36223	41279	46334
Roof, Ceiling, and Two Clear Span Floor	8	2700	-186	3536	7258	10981	14703	18425	22147	25869	29592
	10	2700	-197	3747	7692	11636	15581	19525	23469	27414	31358
	12	2700	-208	3958	8125	12292	16458	20625	24792	28958	33125
	14	2700	-219	4169	8558	12947	17336	21725	26114	30503	34892
	16	2700	-231	4381	8992	13603	18214	22825	27436	32047	36658
	18	2700	-242	4592	9425	14258	19092	23925	28758	33592	38425
	20	2700	-253	4803	9858	14914	19969	25025	30081	35136	40192
Roof, Ceiling, and Three Center Bearing Floor	8	2350	1768	5490	9213	12935	16657	20379	24101	27824	31546
	10	2350	1874	5818	9763	13707	17651	21596	25540	29485	33429
	12	2350	1979	6146	10313	14479	18646	22813	26979	31146	35313
	14	2350	2085	6474	10863	15251	19640	24029	28418	32807	37196
	16	2350	2190	6801	11413	16024	20635	25246	29857	34468	39079
	18	2350	2296	7129	11963	16796	21629	26463	31296	36129	40963
	20	2350	2401	7457	12513	17568	22624	27679	32735	37790	42846
Roof, Ceiling, and Three Clear Span Floor	8	3520	-4764	-1042	2680	6402	10124	13847	17569	21291	25013
	10	3520	-5049	-1104	2840	6784	10729	14673	18618	22562	26507
	12	3520	-5333	-1167	3000	7167	11333	15500	19667	23833	28000
	14	3520	-5618	-1229	3160	7549	11938	16327	20716	25104	29493
	16	3520	-5902	-1291	3320	7931	12542	17153	21764	26376	30987
	18	3520	-6187	-1353	3480	8313	13147	17980	22813	27647	32480
	20	3520	-6471	-1416	3640	8696	13751	18807	23862	28918	33973

"= Over stressed

"= Footing : width / depth ratio too large

NOTES:

1. Foundation sizes are based on hollow CMU 24" tall capped with 4" of solid masonry for 1 (one) story and 8" of solid masonry for 2 (two) and 2-1/2 story houses. Mortar shall be Type S.
2. Footing sizes are based on attached psf allowable soil bearing.
3. Centers of foundation wall shall bear in the middle 1/3 of the footings.
4. Pier sizes given are minimum for height/thickness.
5. Green and Red shaded areas not applicable.

ASSUMPTIONS:

1. FIRST FLOOR 50# PSF (40 PSF LIVE, 10 PSF DEAD)
2. SECOND FLOOR 40# PSF (30 PSF LIVE, 10 PSF DEAD)
3. Third Floor \ ATTIC FLOOR 40 PSF (30PSF LIVE, 10 PSF DEAD)
4. ROOF 40 PSF (20 PSF LIVE, 20 PSF DEAD)
5. Wall weight based on 10' height @ 10psf
6. Foundation based on 24" height 8" CMU @ 80 psf
7. Brick load based on 40 psf

EXTERIOR FOUNDATION TABLE FRAME WALL

Load Bearing Value of Soil (psf)		3000									
Footing Width (in)			16	20	24	28	32	36	40	44	48
Wall Supporting	Footing Thickness (in)	Wall PLF to Footing	Maximum Column Load (lbs)	Maximum Column Load (lbs)	Maximum Column Load (lbs)	Maximum Column Load (lbs)	Maximum Column Load (lbs)	Maximum Column Load (lbs)	Maximum Column Load (lbs)	Maximum Column Load (lbs)	Maximum Column Load (lbs)
Roof and Ceiling	8	980	16862	22445	28028	33612	39195	44778	50362	55945	61528
	10	980	17868	23785	29702	35618	41535	47452	53368	59285	65202
	12	980	18875	25125	31375	37625	43875	50125	56375	62625	68875
	14	980	19882	26465	33048	39632	46215	52798	59382	65965	72548
	16	980	20888	27805	34722	41638	48555	55472	62388	69305	76222
	18	980	21895	29145	36395	43645	50895	58145	65395	72645	79895
	20	980	22902	30485	38068	45652	53235	60818	68402	75985	83568
Roof, Ceiling and One Center Bearing Floor	8	1430	14349	19933	25516	31099	36683	42266	47849	53433	59016
	10	1430	15206	21123	27039	32956	38873	44789	50706	56623	62539
	12	1430	16063	22313	28563	34813	41063	47313	53563	59813	66063
	14	1430	16919	23503	30086	36669	43253	49836	56419	63003	69586
	16	1430	17776	24693	31609	38526	45443	52359	59276	66193	73109
	18	1430	18633	25883	33133	40383	47633	54883	62133	69383	76633
	20	1430	19489	27073	34656	42239	49823	57406	64989	72573	80156
Roof, Ceiling and One Floor Clear Span	8	1880	11837	17420	23003	28587	34170	39753	45337	50920	56503
	10	1880	12543	18460	24377	30293	36210	42127	48043	53960	59877
	12	1880	13250	19500	25750	32000	38250	44500	50750	57000	63250
	14	1880	13957	20540	27123	33707	40290	46873	53457	60040	66623
	16	1880	14663	21580	28497	35413	42330	49247	56163	63080	69997
	18	1880	15370	22620	29870	37120	44370	51620	58870	66120	73370
	20	1880	16077	23660	31243	38827	46410	53993	61577	69160	76743
Roof, Ceiling, and Two Center Bearing Floor	8	1890	11781	17364	22948	28531	34114	39698	45281	50864	56448
	10	1890	12484	18401	24318	30234	36151	42068	47984	53901	59818
	12	1890	13188	19438	25688	31938	38188	44438	50688	56938	63188
	14	1890	13891	20474	27058	33641	40224	46808	53391	59974	66558
	16	1890	14594	21511	28428	35344	42261	49178	56094	63011	69928
	18	1890	15298	22548	29798	37048	44298	51548	58798	66048	73298
	20	1890	16001	23584	31168	38751	46334	53918	61501	69084	76668
Roof, Ceiling, and Two Clear Span Floor	8	2700	7258	12842	18425	24008	29592	35175	40758	46342	51925
	10	2700	7692	13608	19525	25442	31358	37275	43192	49108	55025
	12	2700	8125	14375	20625	26875	33125	39375	45625	51875	58125
	14	2700	8558	15142	21725	28308	34892	41475	48058	54642	61225
	16	2700	8992	15908	22825	29742	36658	43575	50492	57408	64325
	18	2700	9425	16675	23925	31175	38425	45675	52925	60175	67425
	20	2700	9858	17442	25025	32608	40192	47775	55358	62942	70525
Roof, Ceiling, and Three Center Bearing Floor	8	2350	9213	14796	20379	25963	31546	37129	42713	48296	53879
	10	2350	9763	15679	21596	27513	33429	39346	45263	51179	57096
	12	2350	10313	16563	22813	29063	35313	41563	47813	54063	60313
	14	2350	10863	17446	24029	30613	37196	43779	50363	56946	63529
	16	2350	11413	18329	25246	32163	39079	45996	52913	59829	66746
	18	2350	11963	19213	26463	33713	40963	48213	55463	62713	69633
	20	2350	12513	20096	27679	35263	42846	50429	58013	65596	73179
Roof, Ceiling, and Three Clear Span Floor	8	3520	2680	8263	13847	19430	25013	30597	36180	41763	47347
	10	3520	2840	8757	14673	20590	26507	32423	38340	44257	50173
	12	3520	3000	9250	15500	21750	28000	34250	40500	46750	53000
	14	3520	3160	9743	16327	22910	29493	36077	42660	49243	55827
	16	3520	3320	10237	17153	24070	30987	37903	44820	51737	58653
	18	3520	3480	10730	17980	25230	32480	39730	46980	54230	61480
	20	3520	3640	11223	18807	26390	33973	41557	49140	56723	64307

"= Over stressed

"= Footing : width / depth ratio too large

NOTES:

1. Foundation sizes are based on hollow CMU 24" tall capped with 4" of solid masonry for 1 (one) story and 8" of solid masonry for 2 (two) and 2-1/2 story houses. Mortar shall be Type S.
2. Footing sizes are based on attached psf allowable soil bearing.
3. Centers of foundation wall shall bear in the middle 1/3 of the footings.
4. Pier sizes given are minimum for height/thickness.
5. Green and Red shaded areas not applicable.

ASSUMPTIONS:

1. FIRST FLOOR 50# PSF (40 PSF LIVE, 10 PSF DEAD)
2. SECOND FLOOR 40# PSF (30 PSF LIVE, 10 PSF DEAD)
3. Third Floor \ ATTIC FLOOR 40 PSF (30PSF LIVE, 10 PSF DEAD)
4. ROOF 40 PSF (20 PSF LIVE, 20 PSF DEAD)
5. Wall weight based on 10' height @ 10psf
6. Foundation based on 24" height 8" CMU @ 80 psf
7. Brick load based on 40 psf

EXTERIOR FOUNDATION TABLE FRAME WALL

Load Bearing Value of Soil (psf)		4000									
Footing Width (in)			16	20	24	28	32	36	40	44	48
Wall Supporting	Footing Thickness (in)	Wall PLF to Footing	Maximum Column Load (lbs)	Maximum Column Load (lbs)	Maximum Column Load (lbs)	Maximum Column Load (lbs)	Maximum Column Load (lbs)	Maximum Column Load (lbs)	Maximum Column Load (lbs)	Maximum Column Load (lbs)	Maximum Column Load (lbs)
Roof and Ceiling	8	980	24306	31751	39195	46639	54084	61528	68973	76417	83862
	10	980	25757	33646	41535	49424	57313	65202	73091	80979	88868
	12	980	27208	35542	43875	52208	60542	68875	77208	85542	93875
	14	980	28659	37437	46215	54993	63771	72548	81326	90104	98882
	16	980	30111	39333	48555	57777	66999	76222	85444	94666	103888
	18	980	31562	41228	50895	60562	70228	79895	89562	99228	108895
Roof, Ceiling and One Center Bearing Floor	8	1430	21794	29238	36683	44127	51571	59016	66460	73905	81349
	10	1430	23095	30984	38873	46761	54650	62539	70428	78317	86206
	12	1430	24396	32729	41063	49396	57729	66063	74396	82729	91063
	14	1430	25697	34475	43253	52030	60808	69586	78364	87141	95919
	16	1430	26998	36220	45443	54665	63887	73109	82331	91554	100776
	18	1430	28299	37966	47633	57299	66966	76633	86299	95966	105633
Roof, Ceiling and One Floor Clear Span	8	1880	19281	26726	34170	41614	49059	56503	63948	71392	78837
	10	1880	20432	28321	36210	44099	51988	59877	67766	75654	83543
	12	1880	21583	29917	38250	46583	54917	63250	71583	79917	88250
	14	1880	22734	31512	40290	49068	57846	66623	75401	84179	92957
	16	1880	23886	33108	42330	51552	60774	69997	79219	88441	97663
	18	1880	25037	34703	44370	54037	63703	73370	83037	92703	102370
Roof, Ceiling, and Two Center Bearing Floor	8	1890	19225	26670	34114	41559	49003	56448	63892	71336	78781
	10	1890	20373	28262	36151	44040	51929	59818	67706	75595	83484
	12	1890	21521	29854	38188	46521	54854	63188	71521	79854	88188
	14	1890	22669	31446	40224	49002	57780	66558	75335	84113	92891
	16	1890	23816	33039	42261	51483	60705	69928	79150	88372	97594
	18	1890	24964	34631	44298	53964	63631	73298	82964	92631	102298
Roof, Ceiling, and Two Clear Span Floor	8	2700	14703	22147	29592	37036	44481	51925	59369	66814	74258
	10	2700	15581	23469	31358	39247	47136	55025	62914	70803	78692
	12	2700	16458	24792	33125	41458	49792	58125	66458	74792	83125
	14	2700	17336	26114	34892	43669	52447	61225	70003	78781	87558
	16	2700	18214	27436	36658	45881	55103	64325	73547	82769	91992
	18	2700	19092	28758	38425	48092	57758	67425	77092	86758	96425
Roof, Ceiling, and Three Center Bearing Floor	8	2350	16657	24101	31546	38990	46435	53879	61324	68768	76213
	10	2350	17651	25540	33429	41318	49207	57096	64985	72874	80763
	12	2350	18646	26979	35313	43646	51979	60313	68646	76979	85313
	14	2350	19640	28418	37196	45974	54751	63529	72307	81085	89863
	16	2350	20635	29857	39079	48301	57524	66746	75968	85190	94413
	18	2350	21629	31296	40963	50629	60296	69963	79629	89296	98963
Roof, Ceiling, and Three Clear Span Floor	8	3520	10124	17569	25013	32458	39902	47347	54791	62236	69680
	10	3520	10729	18618	26507	34396	42284	50173	58062	65951	73840
	12	3520	11333	19667	28000	36333	44667	53000	61333	69667	78000
	14	3520	11938	20716	29493	38271	47049	55827	64604	73382	82160
	16	3520	12542	21764	30987	40209	49431	58653	67876	77098	86320
	18	3520	13147	22813	32480	42147	51813	61480	71147	80813	90480
	20	3520	13751	23862	33973	44084	54196	64307	74418	84529	94640

"= Over stressed

"= Footing : width / depth ratio too large

NOTES:

1. Foundation sizes are based on hollow CMU 24" tall capped with 4" of solid masonry for 1 (one) story and 8" of solid masonry for 2 (two) and 2-1/2 story houses. Mortar shall be Type S.
2. Footing sizes are based on attached psf allowable soil bearing.
3. Centers of foundation wall shall bear in the middle 1/3 of the footings.
4. Pier sizes given are minimum for height/thickness.
5. Green and Red shaded areas not applicable.

ASSUMPTIONS:

1. FIRST FLOOR 50# PSF (40 PSF LIVE, 10 PSF DEAD)
2. SECOND FLOOR 40# PSF (30 PSF LIVE, 10 PSF DEAD)
3. Third Floor \ ATTIC FLOOR 40 PSF (30PSF LIVE, 10 PSF DEAD)
4. ROOF 40 PSF (20 PSF LIVE, 20 PSF DEAD)
5. Wall weight based on 10' height @ 10psf
6. Foundation based on 24" height 8" CMU @ 80 psf
7. Brick load based on 40 psf

EXTERIOR FOUNDATION TABLE FRAME WALL

Load Bearing Value of Soil (psf)		5000									
Footing Width (in)			16	20	24	28	32	36	40	44	48
Wall Supporting	Footing Thickness (in)	Wall PLF to Footing	Maximum Column Load (lbs)	Maximum Column Load (lbs)	Maximum Column Load (lbs)	Maximum Column Load (lbs)	Maximum Column Load (lbs)	Maximum Column Load (lbs)	Maximum Column Load (lbs)	Maximum Column Load (lbs)	Maximum Column Load (lbs)
Roof and Ceiling	8	980	31751	41056	50362	59667	68973	78278	87584	96889	106195
	10	980	33646	43507	53368	63229	73091	82952	92813	102674	112535
	12	980	35542	45958	56375	66792	77208	87625	98042	108458	118875
	14	980	37437	48409	59382	70354	81326	92298	103271	114243	125215
	16	980	39333	50861	62388	73916	85444	96972	108499	120027	131555
	18	980	41228	53312	65395	77478	89562	101645	113728	125812	137895
Roof, Ceiling and One Center Bearing Floor	8	1430	29238	38544	47849	57155	66460	75766	85071	94377	103683
	10	1430	30984	40845	50706	60567	70428	80289	90150	100011	109873
	12	1430	32729	43146	53563	63979	74396	84813	95229	105646	116063
	14	1430	34475	45447	56419	67391	78364	89336	100308	111280	122253
	16	1430	36220	47748	59276	70804	82331	93859	105387	116915	128443
	18	1430	37966	50049	62133	74216	86299	98383	110466	122549	134633
Roof, Ceiling and One Floor Clear Span	8	1880	26726	36031	45337	54642	63948	73253	82559	91864	101170
	10	1880	28321	38182	48043	57904	67766	77627	87488	97349	107210
	12	1880	29917	40333	50750	61167	71583	82000	92417	102833	113250
	14	1880	31512	42484	53457	64429	75401	86373	97346	108318	119290
	16	1880	33108	44636	56163	67691	79219	90747	102274	113802	125330
	18	1880	34703	46787	58870	70953	83037	95120	107203	119287	131370
Roof, Ceiling, and Two Center Bearing Floor	8	1890	26670	35975	45281	54586	63892	73198	82503	91809	101114
	10	1890	28262	38123	47984	57845	67706	77568	87429	97290	107151
	12	1890	29854	40271	50688	61104	71521	81938	92354	102771	113188
	14	1890	31446	42419	53391	64363	75335	86308	97280	108252	119224
	16	1890	33039	44566	56094	67622	79150	90678	102205	113733	125261
	18	1890	34631	46714	58798	70881	82964	95048	107131	119214	131298
Roof, Ceiling, and Two Clear Span Floor	8	2700	22147	31453	40758	50064	59369	68675	77981	87286	96592
	10	2700	23469	33331	43192	53053	62914	72775	82636	92497	102358
	12	2700	24792	35208	45625	56042	66458	76875	87292	97708	108125
	14	2700	26114	37086	48058	59031	70003	80975	91947	102919	113892
	16	2700	27436	38964	50492	62019	73547	85075	96603	108131	119658
	18	2700	28758	40842	52925	65008	77092	89175	101258	113342	125425
Roof, Ceiling, and Three Center Bearing Floor	8	2350	24101	33407	42713	52018	61324	70629	79935	89240	98546
	10	2350	25540	35401	45263	55124	64985	74846	84707	94568	104429
	12	2350	26979	37396	47813	58229	68646	79063	89479	99896	110313
	14	2350	28418	39390	50363	61335	72307	83279	94251	105224	116196
	16	2350	29857	41385	52913	64440	75968	87496	99024	110551	122079
	18	2350	31296	43379	55463	67546	79629	91713	103796	115879	127963
Roof, Ceiling, and Three Clear Span Floor	8	3520	17569	26874	36180	45486	54791	64097	73402	82708	92013
	10	3520	18618	28479	38340	48201	58062	67923	77784	87646	97507
	12	3520	19667	30083	40500	50917	61333	71750	82167	92583	103000
	14	3520	20716	31688	42660	53632	64604	75577	86549	97521	108493
	16	3520	21764	33292	44820	56348	67876	79403	90931	102459	113987
	18	3520	22813	34897	46980	59063	71147	83230	95313	107397	119480
			23862	36501	49140	61779	74418	87057	99696	112334	124973

"= Over stressed

"= Footing : width / depth ratio too large

NOTES:

1. Foundation sizes are based on hollow CMU 24" tall capped with 4" of solid masonry for 1 (one) story and 8" of solid masonry for 2 (two) and 2-1/2 story houses. Mortar shall be Type S.
2. Footing sizes are based on attached psf allowable soil bearing.
3. Centers of foundation wall shall bear in the middle 1/3 of the footings.
4. Pier sizes given are minimum for height/thickness.
5. Green and Red shaded areas not applicable.

ASSUMPTIONS:

1. FIRST FLOOR 50# PSF (40 PSF LIVE, 10 PSF DEAD)
2. SECOND FLOOR 40# PSF (30 PSF LIVE, 10 PSF DEAD)
3. Third Floor \ ATTIC FLOOR 40 PSF (30PSF LIVE, 10 PSF DEAD)
4. ROOF 40 PSF (20 PSF LIVE, 20 PSF DEAD)
5. Wall weight based on 10' height @ 10psf
6. Foundation based on 24" height 8" CMU @ 80 psf
7. Brick load based on 40 psf