$5.00

SSMA℠

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STEEL STUD MANUFACTURERS ASSOCIATION

ICBO ER-4943P

PRODUCT TECHNICAL INFORMATION

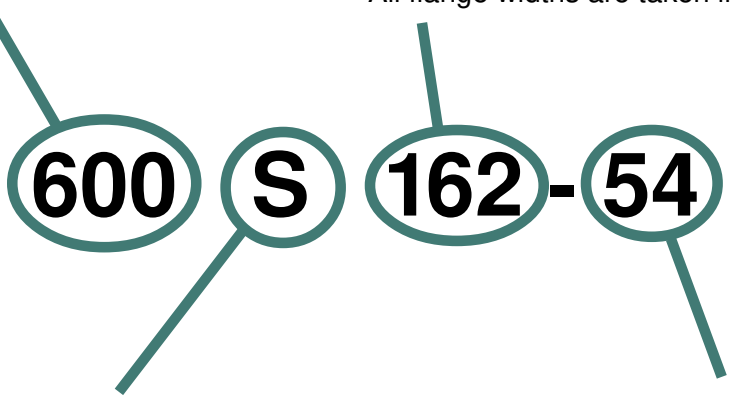
Product Identification

All SSMA products have a four part identification code which identifies the size (both depth and flange width), style, and material thickness of each member.

Example:

Member Depth:
*(Example: 6" = **600** × 1⁄100 inches)*
All member depths are taken in 1⁄100 inches. For all "T" sections member depth is the inside to inside dimension.

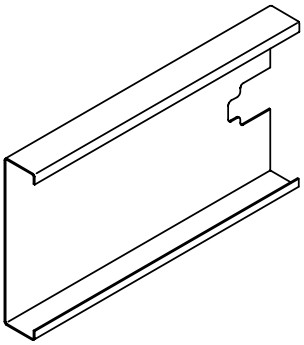
Flange Width:
*(Example: 1 5⁄8" = 1.625" ≈ **162** × 1⁄100 inches)*
All flange widths are taken in 1⁄100 inches.



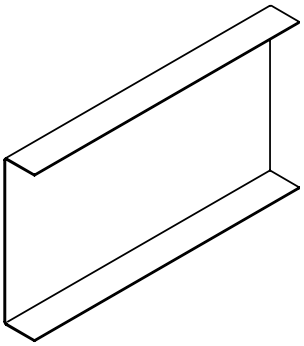
Style:
*(Example: Stud or Joist section = **S**)*
The four alpha characters utilized by the designator system are:
S = Stud or Joist Sections
T = Track Sections
U = Channel Sections
F = Furring Channel Sections

Material Thickness:
*(Example: 0.054 in. = **54** mils; 1 mil = 1⁄1000 in.)*
Material thickness is the minimum base metal thickness in mils. Minimum base metal thickness represents 95% of the design thickness.

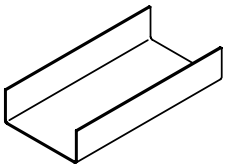
Note: For those sections where two different yield strengths (33 ksi and 50 ksi) are shown, the yield strength used in the design, if greater than 33 ksi, needs to be identified on the design and ordering of steel. (i.e., 600S162-54 (50 ksi))



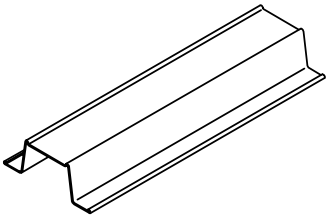
C-STUD / JOIST
S-SECTIONS



TRACK
T-SECTIONS



CHANNEL
U-SECTIONS



FURRING CHANNEL
F-SECTIONS

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SSMA

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General Product Information

Introduction

The increasing environmental concerns in the world today have caused us all to examine the way we live. These issues have affected every aspect of our lives, including the materials we use in construction.

The use of cold-formed steel members as a building alternative is an intelligent choice with benefits to, not only the environment, but also to the contractor, designer and developer.

Steel is not only a recyclable product, but also a stronger product allowing for longer clear-spans in the design process. Cold-formed steel is lighter providing ease of handling. It is a straighter product giving a “true” wall with which to work. It doesn’t suffer fluctuation in price, making it easier to bid a project. Quality control is stressed in all phases of the manufacturing process so the highest possible quality is delivered to the job site.

The structural shapes manufactured are easily used for non-structural and structural assemblies, floor and ceiling joist assemblies, and panelized systems. They can be used as the main structural support system or as a supplement to heavy structural steel or concrete construction.

Manufacturers have been producing cold-formed steel framing members for many years, with each manufacturer having its own nomenclature and design values. A steel member with identical properties would be identified by different names based on which manufacturer produced it. This created some confusion at all levels of the construction process.

The SSMA's mission is to proactively represent member firms engaged in the manufacture, marketing and sale of cold-formed steel framing members, as a unified voice to the residential and light commercial construction industry serviced by its products, which includes contractors, distributors, design professionals, code officials and standards organizations. To this end, SSMA will endeavor to supply products which meet or exceed standards established by national, state and local code bodies and by recognized industry associations. SSMA resolves to continually initiate and adopt the development of new technology and applications for its members' products with the common goal of growing new market opportunities.

Code Approval

Products manufactured by the members recognized by ICBO Evaluation Service of the Steel Stud Manufacturers Association, SSMA, comply with the Uniform Building Code and International Building Code. See ICBO ES Evaluation Report No. 4943-P.

Material Specifications

Products manufactured by SSMA members are formed from steel with a minimum yield stress of 33 ksi or 50 ksi. All products covered in this catalog are engineered to meet the 1996 Edition of the American Iron and Steel Institute, AISI, “Specification for the Design of Cold-Formed Steel Structural Members.” The structural properties included in this brochure have been computed based on allowable stress design to conform with the same AISI document.

Technical Assistance

Professional technical assistance is available through any SSMA member to its customers. Using software developed specifically for the SSMA, a manufacturer’s technical representative can analyze load conditions, deflection criteria and lateral bracing conditions not presented in this brochure. Computerized design can assist a SSMA customer with the most economical product selection for the specific application. Contact the SSMA manufacturer for this assistance.

Disclaimer

All data, specifications and details contained in this publication are intended as a general guide for using SSMA members products. These products should not be used in design or construction without an independent evaluation by a qualified engineer or architect to verify the suitability of a particular product for use in a specific application. The SSMA and its members assume no liability for failure resulting from the use or misapplication of computations, detail drawings and specifications contained herein. This publication contains the latest information available at the time of printing. The SSMA and its members reserve the right to make modifications and/or change materials of any of their products without prior notice or obligation. For the latest information regarding a particular manufacturer’s products contact that manufacturer. All SSMA manufacturers may not produce all of the products contained in this catalog. Please contact manufacturer to verify product availability.

General Product Information

Thickness — Steel Components

Minimum Thickness[1] (mils)	Design Thickness (in)	Inside Corner Radii (in)	Reference Only Gauge No.
18	0.0188	0.0843	25
27	0.0283	0.0796	22
30	0.0312	0.0781	20 - Drywall
33	0.0346	0.0764	20 - Structural
43	0.0451	0.0712	18
54	0.0566	0.0849	16
68	0.0713	0.1069	14
97	0.1017	0.1525	12

Design Stiffening Lip Length

Section	Flange Width	Design Stiffening Lip Length (in)
S125	1 1/4"	0.188
S137	1 3/8"	0.375
S162	1 5/8"	0.500
S200	2"	0.625
S250	2 1/2"	0.625

[1] Minimum Thickness represents 95% of the design thickness and is the minimum acceptable thickness delivered to the job site based on Section A3.4 of the 1996 AISI Specification.

General Notes for all tables

1. The strength increase due to cold work of forming was incorporated for flexural strength as applicable per AISI A7.2.
2. The moment of inertia for deflection is calculated at a stress which results in an effective section modulus such that the stress times that section modulus is equal to the allowable moment. This follows Procedure 1 of the AISI Specification.
3. The yield stress (33 ksi or 50 ksi) used to calculate the tabulated values are indicated in the tables.
4. When provided, factory punch-outs will be located along the centerline of the webs of the members and will have a minimum center-to-center spacing of 24". Punch-outs will have a maximum width = half the member depth (d/2) or 2 1/2", whichever is less, and a maximum length = 4 1/2". The minimum distance between the end of the member and the near edge of the web punch-out =10".
5. For those steels that have both 33 and 50 ksi listings, if the design is based upon 50 ksi, the 50 ksi steel needs to be specified by the contractor/purchasers. (i.e., 362S137-54 (50 ksi))

Definitions of Structural Property Symbols

Gross Properties

Ixx: Moment of inertia of the gross section about the X-X axis (strong axis).

Rx: Radius of gyration of the gross section about the X-X axis.

Iyy: Moment of inertia of the gross section about the Y-Y axis (weak axis).

Ry: Radius of gyration of the gross section about the Y-Y axis.

Effective Properties

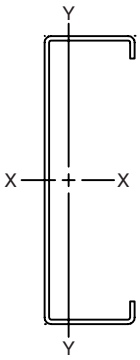
Ixx: Moment of inertia for deflection calculations based on “Procedure 1 for Deflection Determination” of the 1996 AISI Specification.

Sxx: Effective section modulus about the X-X axis (strong axis) Stress = F_y.

Ma: Allowable Bending Moment – Based on the effective section modulus and the allowable stress including the strength increase from cold-work of forming (AISI 7.2) where applicable.

Va: Allowable Shear Load.

Ycg: Maximum distance from the outside of the compression flange to the center of gravity of the effective section.



Torsional Properties

J: St. Venant Torsional Constant.

Cw: Torsional warping constant.

Xo: Distance from the shear center to the centroid along the principal X-axis.

Ro: Polar radius of gyration about the centroidal principal axis.

β: $1- (Xo/Ro)^2$

Section Properties

Section Properties Table Notes

1. The centerline bend radius is the greater of 2 times the design thickness or 3/32".
2. Web depth for track sections is equal to the nominal height plus 2 times the design thickness plus the bend radius.
3. Hems on non-structural track sections are ignored.
4. Effective properties incorporate the strength increase from the cold work of forming as applicable per AISI A7.2.
5. Tabulated gross properties are based on the full-unreduced cross section of the studs, away from punchouts.
6. For deflection calculations, use the effective moment of inertia.
7. For those steels that have both 33 and 50 ksi listings, if the design is based upon 50 ksi, the 50 ksi steel needs to be specified. (i.e., 362S137-54 (50 ksi))

Non-Structural (S) Stud Section Properties

		Gross							Effective 33ksi					Effective 50ksi					Torsional				
Section	Design Thickness (in)	Area (in^2)	Weight (lb/ft)	Ixx (in^4)	Sxx (in^3)	Rx (in)	Iyy (in^4)	Ry (in)	Ixx (in^4)	Sxx (in^3)	Ma (in-k)	Va (lb)	Ycg (in)	Ixx (in^4)	Sxx (in^3)	Ma (in-k)	Va (lb)	Ycg (in)	J^{x1000} (in^4)	Cw (in^6)	Xo (in)	Ro (in)	β
162S125-18	0.0188	0.080	0.27	0.038	0.046	0.686	0.016	0.447	0.034	0.033	0.66	309	0.924						0.009	0.009	-1.061	1.340	0.373
162S125-27	0.0283	0.120	0.41	0.056	0.068	0.682	0.023	0.443	0.055	0.051	1.01	526	0.909						0.032	0.013	-1.049	1.327	0.375
162S125-30	0.0312	0.131	0.45	0.061	0.075	0.681	0.026	0.441	0.060	0.059	1.16	579	0.894						0.043	0.014	-1.046	1.323	0.376
162S125-33	0.0346	0.145	0.49	0.067	0.083	0.679	0.028	0.440	0.066	0.068	1.35	641	0.877						0.058	0.015	-1.042	1.319	0.376
250S125-18	0.0188	0.097	0.33	0.099	0.079	1.014	0.019	0.439	0.089	0.059	1.17	247	1.391						0.011	0.023	-0.930	1.444	0.585
250S125-27	0.0283	0.144	0.49	0.147	0.118	1.009	0.027	0.434	0.144	0.092	1.81	700	1.372						0.039	0.033	-0.919	1.432	0.589
250S125-30	0.0312	0.159	0.54	0.161	0.129	1.008	0.030	0.433	0.159	0.104	2.06	851	1.354						0.052	0.036	-0.915	1.429	0.590
250S125-33	0.0346	0.176	0.60	0.178	0.142	1.006	0.033	0.431	0.175	0.120	2.38	1040	1.333						0.070	0.039	-0.911	1.425	0.591
250S125-43	0.0451	0.227	0.77	0.228	0.182	1.001	0.041	0.426	0.226	0.173	3.43	1350	1.275						0.154	0.049	-0.899	1.412	0.594
250S125-54	0.0566	0.280	0.95	0.277	0.222	0.994	0.049	0.419	0.277	0.218	4.98	1656	1.260	0.275	0.205	6.14	2510	1.289	0.299	0.059	-0.890	1.398	0.595
250S125-68	0.0713	0.345	1.18	0.334	0.267	0.984	0.057	0.408	0.334	0.266	6.30	2017	1.252	0.334	0.261	7.81	3057	1.262	0.585	0.069	-0.880	1.381	0.594
350S125-18	0.0188	0.115	0.39	0.215	0.123	1.366	0.021	0.423	0.197	0.087	1.72	172	1.992						0.014	0.049	-0.819	1.648	0.753
350S125-27	0.0283	0.173	0.59	0.320	0.183	1.361	0.030	0.418	0.312	0.147	2.90	589	1.892						0.046	0.071	-0.809	1.637	0.756
350S125-30	0.0312	0.190	0.65	0.351	0.201	1.359	0.033	0.417	0.346	0.167	3.29	790	1.871						0.062	0.077	-0.805	1.634	0.757
350S125-33	0.0346	0.210	0.72	0.387	0.221	1.358	0.036	0.415	0.382	0.191	3.77	1046	1.847						0.084	0.085	-0.802	1.630	0.758
350S125-43	0.0451	0.272	0.93	0.498	0.284	1.352	0.046	0.410	0.493	0.272	5.37	1777	1.780						0.184	0.106	-0.790	1.619	0.762
350S125-54	0.0566	0.337	1.15	0.608	0.348	1.344	0.055	0.402	0.608	0.342	7.82	2403	1.762	0.603	0.324	9.71	3446	1.796	0.360	0.127	-0.781	1.605	0.763
350S125-68	0.0713	0.417	1.42	0.739	0.422	1.332	0.064	0.391	0.737	0.421	9.95	2959	1.752	0.737	0.413	12.36	4483	1.765	0.706	0.151	-0.770	1.587	0.765
362S125-18	0.0188	0.118	0.40	0.234	0.129	1.409	0.021	0.421	0.215	0.090	1.78	166	2.075						0.014	0.053	-0.807	1.677	0.768
362S125-27	0.0283	0.176	0.60	0.347	0.192	1.404	0.031	0.416	0.338	0.154	3.05	568	1.957						0.047	0.077	-0.797	1.667	0.771
362S125-30	0.0312	0.194	0.66	0.381	0.210	1.402	0.033	0.415	0.375	0.175	3.46	761	1.935						0.063	0.084	-0.794	1.664	0.772
362S125-33	0.0346	0.215	0.73	0.421	0.232	1.400	0.037	0.413	0.415	0.201	3.96	1039	1.911						0.086	0.092	-0.790	1.660	0.774
362S125-43	0.0451	0.278	0.95	0.540	0.298	1.395	0.046	0.408	0.536	0.285	5.64	1777	1.843						0.188	0.115	-0.779	1.649	0.777
362S125-54	0.0566	0.344	1.17	0.661	0.365	1.386	0.055	0.400	0.661	0.358	8.21	2497	1.825	0.655	0.341	10.20	3446	1.859	0.367	0.138	-0.769	1.635	0.779
362S125-68	0.0713	0.426	1.45	0.803	0.443	1.374	0.065	0.389	0.802	0.442	10.44	3076	1.815	0.802	0.434	12.98	4661	1.827	0.721	0.164	-0.758	1.617	0.780
400S125-18[1]	0.0188	0.125	0.42	0.294	0.147	1.536	0.021	0.414	0.265	0.099	1.96	150	2.325						0.015	0.066	-0.774	1.769	0.809
400S125-27	0.0283	0.187	0.64	0.438	0.219	1.531	0.031	0.410	0.426	0.178	3.52	511	2.150						0.050	0.096	-0.764	1.759	0.811
400S125-30	0.0312	0.206	0.70	0.481	0.240	1.529	0.034	0.408	0.473	0.202	3.99	686	2.127						0.067	0.105	-0.761	1.756	0.812
400S125-33	0.0346	0.228	0.77	0.531	0.265	1.527	0.038	0.407	0.523	0.231	4.56	936	2.102						0.091	0.115	-0.757	1.752	0.813
400S125-43	0.0451	0.295	1.00	0.682	0.341	1.521	0.048	0.402	0.676	0.327	6.46	1777	2.032						0.200	0.145	-0.746	1.742	0.816
400S125-54	0.0566	0.365	1.24	0.835	0.418	1.512	0.057	0.394	0.835	0.411	9.40	2777	2.013	0.828	0.391	11.71	3446	2.048	0.390	0.174	-0.737	1.728	0.818
400S125-68	0.0713	0.452	1.54	1.017	0.509	1.499	0.066	0.383	1.015	0.507	11.98	3429	2.003	1.015	0.498	14.91	5196	2.015	0.767	0.206	-0.725	1.709	0.820
550S125-18[1]	0.0188	0.153	0.52	0.630	0.229	2.029	0.023	0.390											0.018	0.138	-0.666	2.171	0.906
550S125-27	0.0283	0.229	0.78	0.938	0.341	2.023	0.034	0.385	0.925	0.253	5.00	366	3.072						0.061	0.202	-0.657	2.162	0.908
550S125-30	0.0312	0.252	0.86	1.031	0.375	2.021	0.037	0.384	1.017	0.307	6.06	491	2.956						0.082	0.220	-0.654	2.159	0.908
550S125-33	0.0346	0.279	0.95	1.139	0.414	2.019	0.041	0.382	1.124	0.368	7.26	670	2.864						0.112	0.242	-0.651	2.156	0.909
550S125-43	0.0451	0.362	1.23	1.468	0.534	2.013	0.052	0.377	1.456	0.514	10.16	1487	2.786						0.246	0.304	-0.641	2.146	0.911
550S125-54	0.0566	0.450	1.53	1.805	0.656	2.002	0.061	0.369	1.805	0.647	14.80	2799	2.765	1.790	0.620	18.57	2967	2.804	0.481	0.366	-0.631	2.132	0.912
550S125-68	0.0713	0.559	1.90	2.209	0.803	1.987	0.072	0.358	2.205	0.801	18.94	4442	2.753	2.205	0.789	23.62	5468	2.767	0.948	0.437	-0.620	2.112	0.914
600S125-18[1]	0.0188	0.162	0.55	0.778	0.259	2.189	0.024	0.382											0.019	0.169	-0.637	2.312	0.924
600S125-27[1]	0.0283	0.243	0.83	1.160	0.387	2.183	0.035	0.377	1.145	0.274	5.42	335	3.413						0.065	0.247	-0.628	2.303	0.926
600S125-30	0.0312	0.268	0.91	1.275	0.425	2.181	0.038	0.376	1.259	0.331	6.54	448	3.292						0.087	0.270	-0.625	2.300	0.926
600S125-33	0.0346	0.297	1.01	1.409	0.470	2.179	0.042	0.374	1.391	0.408	8.06	612	3.154						0.118	0.296	-0.622	2.297	0.927
600S125-43	0.0451	0.385	1.31	1.817	0.606	2.173	0.053	0.369	1.802	0.584	11.55	1358	3.037						0.261	0.373	-0.612	2.287	0.928
600S125-54	0.0566	0.479	1.63	2.236	0.745	2.161	0.063	0.362	2.236	0.735	16.82	2708	3.015	2.218	0.706	21.14	2708	3.056	0.511	0.449	-0.603	2.273	0.930
600S125-68	0.0713	0.595	2.02	2.740	0.913	2.146	0.073	0.351	2.735	0.911	21.53	4442	3.003	2.735	0.898	26.88	5468	3.018	1.008	0.536	-0.592	2.253	0.931
800S125-33[1]	0.0346	0.366	1.25	2.881	0.720	2.806	0.044	0.347	2.855	0.525	10.37	455	4.521						0.146	0.576	-0.530	2.877	0.966
800S125-43	0.0451	0.475	1.62	3.721	0.930	2.799	0.056	0.342	3.696	0.894	17.67	1008	4.056						0.322	0.727	-0.521	2.867	0.967
800S125-54	0.0566	0.592	2.01	4.593	1.148	2.786	0.066	0.335	4.593	1.134	25.96	2006	4.016	4.560	1.097	32.84	2006	4.060	0.632	0.877	-0.512	2.852	0.968
800S125-68	0.0713	0.738	2.51	5.653	1.413	2.768	0.078	0.324	5.644	1.410	33.33	4048	4.003	5.644	1.393	41.69	4048	4.019	1.250	1.050	-0.501	2.832	0.969

[1] Web-height to thickness ratio exceeds 200. Web stiffeners are required at all support points and concentrated loads

SSMA

Structural (S) Stud Section Properties

Section	Design Thickness (in)	Gross							Effective 33ksi					Effective 50ksi					Torsional				
		Area (in^2)	Weight (lb/ft)	Ixx (in^4)	Sxx (in^3)	Rx (in)	Iyy (in^4)	Ry (in)	Ixx (in^4)	Sxx (in^3)	Ma (in-k)	Va (lb)	Ycg (in)	Ixx (in^4)	Sxx (in^3)	Ma (in-k)	Va (lb)	Ycg (in)	J^{x1000} (in^4)	Cw (in^6)	Xo (in)	Ro (in)	β
250S137-33	0.0346	0.197	0.67	0.203	0.163	1.015	0.052	0.515	0.203	0.156	3.09	1040	1.272						0.079	0.075	-1.170	1.633	0.486
250S137-43	0.0451	0.255	0.87	0.261	0.208	1.010	0.067	0.511	0.261	0.205	4.53	1350	1.260						0.173	0.094	-1.158	1.620	0.489
250S137-54	0.0566	0.316	1.07	0.318	0.255	1.004	0.080	0.504	0.318	0.255	5.76	1656	1.250	0.318	0.244	8.22	2510	1.274	0.337	0.113	-1.150	1.608	0.488
250S137-68	0.0713	0.390	1.33	0.386	0.309	0.994	0.095	0.495	0.386	0.309	7.19	2017	1.250	0.386	0.308	10.65	3057	1.251	0.661	0.134	-1.142	1.593	0.486
250S162-33	0.0346	0.223	0.76	0.235	0.188	1.027	0.087	0.624	0.235	0.180	3.55	1040	1.274						0.089	0.144	-1.501	1.923	0.390
250S162-43	0.0451	0.289	0.98	0.302	0.242	1.022	0.111	0.620	0.302	0.240	5.22	1350	1.253						0.196	0.182	-1.489	1.909	0.392
250S162-54	0.0566	0.358	1.22	0.370	0.296	1.016	0.135	0.613	0.370	0.296	6.57	1656	1.250	0.370	0.288	8.62	2510	1.267	0.383	0.219	-1.482	1.898	0.391
250S162-68	0.0713	0.443	1.51	0.450	0.360	1.007	0.162	0.605	0.450	0.360	8.21	2017	1.250	0.450	0.357	12.10	3057	1.255	0.752	0.262	-1.474	1.885	0.389
350S162-33	0.0346	0.258	0.88	0.508	0.290	1.404	0.098	0.617	0.508	0.279	5.50	1046	1.779						0.103	0.273	-1.351	2.044	0.563
350S162-43	0.0451	0.334	1.14	0.654	0.374	1.400	0.125	0.612	0.654	0.372	8.08	1777	1.755						0.227	0.345	-1.339	2.031	0.565
350S162-54	0.0566	0.415	1.41	0.804	0.460	1.392	0.152	0.606	0.804	0.460	10.20	2403	1.750	0.804	0.447	13.37	3446	1.773	0.443	0.418	-1.331	2.019	0.566
350S162-68	0.0713	0.515	1.75	0.985	0.563	1.383	0.184	0.597	0.985	0.563	12.83	2959	1.750	0.985	0.557	18.89	4483	1.758	0.872	0.503	-1.321	2.004	0.565
362S137-33	0.0346	0.236	0.80	0.479	0.264	1.424	0.059	0.501	0.479	0.254	5.02	1039	1.842						0.094	0.162	-1.026	1.826	0.684
362S137-43	0.0451	0.306	1.04	0.616	0.340	1.419	0.075	0.497	0.616	0.334	7.38	1777	1.826						0.207	0.204	-1.015	1.814	0.687
362S137-54	0.0566	0.379	1.29	0.756	0.417	1.411	0.091	0.490	0.756	0.417	9.43	2497	1.812	0.756	0.400	13.47	3446	1.844	0.405	0.246	-1.006	1.801	0.688
362S137-68	0.0713	0.470	1.60	0.922	0.509	1.401	0.109	0.480	0.922	0.509	11.87	3076	1.812	0.922	0.508	17.56	4661	1.814	0.797	0.294	-0.996	1.784	0.689
362S162-33	0.0346	0.262	0.89	0.551	0.304	1.450	0.099	0.616	0.551	0.292	5.77	1039	1.843						0.105	0.293	-1.335	2.065	0.582
362S162-43	0.0451	0.340	1.16	0.710	0.392	1.445	0.127	0.611	0.710	0.389	8.46	1777	1.818						0.230	0.371	-1.323	2.052	0.585
362S162-54	0.0566	0.422	1.44	0.873	0.481	1.438	0.154	0.604	0.873	0.481	10.69	2497	1.812	0.873	0.468	14.00	3446	1.836	0.451	0.449	-1.314	2.040	0.585
362S162-68	0.0713	0.524	1.78	1.069	0.590	1.429	0.186	0.596	1.069	0.590	13.44	3076	1.812	1.069	0.584	19.80	4661	1.820	0.887	0.540	-1.305	2.024	0.585
362S200-33	0.0346	0.297	1.01	0.648	0.358	1.478	0.177	0.772	0.643	0.318	6.29	1039	1.898						0.118	0.571	-1.770	2.432	0.470
362S200-43	0.0451	0.385	1.31	0.836	0.461	1.474	0.227	0.767	0.836	0.448	8.85	1777	1.834						0.261	0.726	-1.758	2.419	0.472
362S200-54	0.0566	0.479	1.63	1.030	0.568	1.467	0.277	0.761	1.030	0.568	12.36	2497	1.812	1.030	0.509	15.25	3446	1.898	0.511	0.884	-1.750	2.407	0.471
362S200-68	0.0713	0.595	2.02	1.265	0.698	1.458	0.337	0.753	1.265	0.698	15.54	3076	1.812	1.265	0.673	22.34	4661	1.844	1.008	1.070	-1.741	2.393	0.470
400S137-33	0.0346	0.249	0.85	0.603	0.301	1.556	0.061	0.496	0.603	0.290	5.74	936	2.031						0.099	0.200	-0.987	1.908	0.732
400S137-43	0.0451	0.323	1.10	0.776	0.388	1.551	0.078	0.491	0.776	0.382	8.43	1777	2.014						0.219	0.253	-0.976	1.897	0.735
400S137-54	0.0566	0.401	1.36	0.953	0.477	1.542	0.094	0.484	0.953	0.477	10.78	2777	2.000	0.953	0.457	15.40	3446	2.034	0.428	0.305	-0.967	1.884	0.737
400S137-68	0.0713	0.497	1.69	1.165	0.582	1.531	0.112	0.475	1.165	0.582	13.58	3429	2.000	1.165	0.581	20.10	5196	2.002	0.842	0.365	-0.956	1.866	0.738
400S162-33	0.0346	0.275	0.94	0.692	0.346	1.586	0.103	0.611	0.692	0.332	6.57	936	2.032						0.110	0.358	-1.288	2.133	0.635
400S162-43	0.0451	0.357	1.21	0.892	0.446	1.581	0.131	0.606	0.892	0.443	9.63	1777	2.006						0.242	0.453	-1.276	2.121	0.638
400S162-54	0.0566	0.443	1.51	1.098	0.549	1.574	0.159	0.600	1.098	0.549	12.18	2777	2.000	1.098	0.533	15.96	3446	2.026	0.473	0.550	-1.268	2.108	0.638
400S162-68	0.0713	0.550	1.87	1.346	0.673	1.564	0.192	0.591	1.346	0.673	15.34	3429	2.000	1.346	0.666	22.60	5196	2.009	0.933	0.663	-1.258	2.092	0.639
400S200-33	0.0346	0.310	1.05	0.812	0.406	1.619	0.183	0.769	0.805	0.362	7.16	936	2.091						0.124	0.689	-1.715	2.481	0.522
400S200-43	0.0451	0.402	1.37	1.047	0.524	1.615	0.235	0.764	1.047	0.509	10.06	1777	2.023						0.272	0.876	-1.703	2.468	0.524
400S200-54	0.0566	0.500	1.70	1.292	0.646	1.608	0.287	0.758	1.292	0.646	14.06	2777	2.000	1.292	0.580	17.36	3446	2.091	0.534	1.068	-1.695	2.456	0.524
400S200-68	0.0713	0.622	2.12	1.589	0.795	1.599	0.349	0.750	1.589	0.795	17.68	3429	2.000	1.589	0.766	25.41	5196	2.035	1.054	1.295	-1.686	2.441	0.523
550S162-33	0.0346	0.327	1.11	1.458	0.530	2.112	0.113	0.589	1.458	0.512	10.11	670	2.787						0.130	0.704	-1.134	2.468	0.789
550S162-43	0.0451	0.424	1.44	1.883	0.685	2.107	0.145	0.584	1.883	0.681	14.79	1487	2.757						0.288	0.894	-1.123	2.458	0.791
550S162-54	0.0566	0.528	1.80	2.324	0.845	2.098	0.176	0.577	2.324	0.845	18.76	2799	2.750	2.324	0.821	24.59	2967	2.782	0.564	1.088	-1.114	2.445	0.792
550S162-68	0.0713	0.657	2.24	2.861	1.040	2.086	0.212	0.568	2.861	1.040	23.72	4442	2.750	2.861	1.031	34.94	5468	2.761	1.114	1.316	-1.103	2.427	0.793
600S137-33	0.0346	0.318	1.08	1.582	0.527	2.229	0.069	0.464	1.582	0.510	10.07	612	3.039						0.127	0.493	-0.823	2.421	0.884
600S137-43	0.0451	0.413	1.41	2.042	0.681	2.223	0.087	0.459	2.042	0.670	14.80	1358	3.018						0.280	0.625	-0.813	2.411	0.886
600S137-54	0.0566	0.514	1.75	2.518	0.839	2.213	0.105	0.452	2.518	0.839	18.98	2708	3.000	2.518	0.809	27.23	2708	3.042	0.549	0.757	-0.804	2.398	0.888
600S137-68	0.0713	0.640	2.18	3.094	1.031	2.200	0.125	0.443	3.094	1.031	24.05	4442	3.000	3.094	1.029	35.60	5468	3.002	1.084	0.911	-0.793	2.380	0.889
600S137-97	0.1017	0.889	3.03	4.188	1.396	2.170	0.159	0.422	4.188	1.396	34.48	7372	3.000	4.188	1.396	50.80	11124	3.000	3.066	1.179	-0.770	2.341	0.892
600S162-33	0.0346	0.344	1.17	1.793	0.598	2.282	0.116	0.581	1.793	0.577	11.41	612	3.039						0.137	0.851	-1.091	2.595	0.823
600S162-43	0.0451	0.447	1.52	2.316	0.772	2.276	0.148	0.576	2.316	0.767	16.68	1358	3.007						0.303	1.082	-1.081	2.585	0.825
600S162-54	0.0566	0.556	1.89	2.860	0.953	2.267	0.180	0.570	2.860	0.953	21.17	2708	3.000	2.860	0.927	27.76	2708	3.034	0.594	1.318	-1.072	2.572	0.826
600S162-68	0.0713	0.693	2.36	3.525	1.175	2.255	0.218	0.560	3.525	1.175	26.79	4442	3.000	3.525	1.164	39.46	5468	3.011	1.174	1.596	-1.061	2.554	0.828
600S162-97	0.1017	0.966	3.29	4.797	1.599	2.229	0.283	0.541	4.797	1.599	38.37	7372	3.000	4.797	1.599	56.73	11124	3.000	3.329	2.093	-1.039	2.518	0.830
600S200-33	0.0346	0.379	1.29	2.075	0.692	2.340	0.209	0.743	2.059	0.617	12.20	612	3.135						0.151	1.577	-1.479	2.866	0.734
600S200-43	0.0451	0.492	1.67	2.683	0.894	2.335	0.268	0.739	2.683	0.873	17.24	1358	3.028						0.334	2.012	-1.468	2.855	0.736
600S200-54	0.0566	0.613	2.09	3.319	1.106	2.327	0.328	0.732	3.319	1.106	24.07	2708	3.000	3.319	1.002	30.01	2708	3.117	0.655	2.461	-1.459	2.842	0.737
600S200-68	0.0713	0.764	2.60	4.101	1.367	2.316	0.400	0.723	4.101	1.367	30.42	4442	3.000	4.101	1.317	43.71	5468	3.047	1.295	2.997	-1.448	2.826	0.737
600S200-97	0.1017	1.067	3.63	5.612	1.871	2.293	0.530	0.705	5.612	1.871	43.49	7372	3.000	5.612	1.871	64.53	11124	3.000	3.679	3.981	-1.427	2.791	0.739
600S250-43	0.0451	0.537	1.83	3.082	1.027	2.396	0.458	0.923	3.082	0.918	18.14	1358	3.134						0.364	3.379	-1.898	3.193	0.647
600S250-54	0.0566	0.670	2.28	3.819	1.273	2.388	0.562	0.917	3.819	1.159	22.90	2708	3.115	3.760	1.069	32.00	2708	3.207	0.715	4.146	-1.889	3.180	0.647
600S250-68	0.0713	0.836	2.84	4.727	1.576	2.378	0.688	0.908	4.727	1.522	30.08	4442	3.045	4.727	1.342	40.19	5468	3.191	1.416	5.071	-1.878	3.164	0.647
600S250-97	0.1017	1.169	3.98	6.496	2.165	2.357	0.923	0.889	6.496	2.160	48.80	7372	3.003	6.496	2.063	69.38	11124	3.062	4.030	6.798	-1.857	3.130	0.648

[1] Web-height to thickness ratio exceeds 200. Web stiffeners are required at all support points and concentrated loads

See Section Properties Table Notes on page 6.

Section Properties

Structural (S) Stud Section Properties

Section	Design Thickness (in)	Gross							Effective 33ksi					Effective 50ksi					Torsional				
		Area (in^2)	Weight (lb/ft)	Ixx (in^4)	Sxx (in^3)	Rx (in)	Iyy (in^4)	Ry (in)	Ixx (in^4)	Sxx (in^3)	Ma (in-k)	Va (lb)	Ycg (in)	Ixx (in^4)	Sxx (in^3)	Ma (in-k)	Va (lb)	Ycg (in)	J^{x1000} (in^4)	Cw (in^6)	Xo (in)	Ro (in)	β
800S137-33[1]	0.0346	0.388	1.32	3.198	0.799	2.873	0.073	0.435	3.198	0.663	13.10	455	4.335						0.155	0.948	-0.709	2.991	0.944
800S137-43	0.0451	0.503	1.71	4.134	1.033	2.866	0.093	0.430	4.134	1.033	20.42	1008	4.000						0.341	1.202	-0.700	2.981	0.945
800S137-54	0.0566	0.627	2.13	5.110	1.277	2.855	0.112	0.423	5.110	1.277	28.89	2006	4.000	5.110	1.249	37.38	2006	4.032	0.670	1.460	-0.691	2.967	0.946
800S137-68	0.0713	0.782	2.66	6.303	1.576	2.839	0.134	0.414	6.303	1.576	36.74	4048	4.000	6.303	1.573	54.40	4048	4.003	1.325	1.762	-0.680	2.948	0.947
800S137-97	0.1017	1.093	3.72	8.597	2.149	2.805	0.169	0.394	8.597	2.149	53.09	9037	4.000	8.597	2.149	78.22	11124	4.000	3.767	2.295	-0.658	2.908	0.949
800S162-33[1]	0.0346	0.413	1.41	3.582	0.896	2.943	0.125	0.550	3.582	0.757	14.96	455	4.306						0.165	1.615	-0.951	3.142	0.908
800S162-43	0.0451	0.537	1.83	4.633	1.158	2.937	0.160	0.546	4.633	1.158	22.89	1008	4.000						0.364	2.056	-0.941	3.132	0.910
800S162-54	0.0566	0.670	2.28	5.736	1.434	2.927	0.194	0.539	5.736	1.434	31.83	2006	4.000	5.736	1.397	41.84	2006	4.039	0.715	2.509	-0.932	3.119	0.911
800S162-68	0.0713	0.836	2.84	7.089	1.772	2.913	0.235	0.530	7.089	1.772	40.41	4048	4.000	7.089	1.757	59.57	4048	4.013	1.416	3.047	-0.921	3.101	0.912
800S162-97	0.1017	1.169	3.98	9.713	2.428	2.883	0.305	0.510	9.713	2.428	58.27	9037	4.000	9.713	2.428	86.14	11124	4.000	4.030	4.023	-0.899	3.062	0.914
800S200-33[1]	0.0346	0.448	1.52	4.096	1.024	3.023	0.227	0.712	4.096	0.812	16.04	455	4.410						0.179	2.945	-1.306	3.369	0.850
800S200-43	0.0451	0.582	1.98	5.302	1.325	3.018	0.292	0.708	5.302	1.293	25.54	1008	4.038						0.395	3.763	-1.295	3.359	0.851
800S200-54	0.0566	0.726	2.47	6.573	1.643	3.009	0.357	0.701	6.573	1.643	35.75	2006	4.000	6.573	1.475	44.15	2006	4.168	0.775	4.612	-1.286	3.346	0.852
800S200-68	0.0713	0.907	3.09	8.140	2.035	2.996	0.435	0.692	8.140	2.035	45.29	4048	4.000	8.140	1.964	65.21	4048	4.055	1.537	5.631	-1.275	3.329	0.853
800S200-97	0.1017	1.271	4.32	11.203	2.801	2.969	0.576	0.673	11.203	2.801	65.12	9037	4.000	11.203	2.801	96.63	11124	4.000	4.381	7.524	-1.253	3.292	0.855
800S250-43	0.0451	0.627	2.13	6.015	1.504	3.097	0.500	0.893	6.015	1.313	25.95	1008	4.219						0.425	6.320	-1.695	3.641	0.783
800S250-54	0.0566	0.783	2.66	7.465	1.866	3.088	0.614	0.886	7.465	1.712	33.82	2006	4.134	7.378	1.525	45.66	2006	4.323	0.836	7.769	-1.686	3.628	0.784
800S250-68	0.0713	0.978	3.33	9.261	2.315	3.077	0.752	0.877	9.261	2.240	44.26	4048	4.053	9.261	2.003	59.96	4048	4.219	1.658	9.526	-1.674	3.611	0.785
800S250-97	0.1017	1.372	4.67	12.789	3.197	3.053	1.009	0.857	12.789	3.190	72.06	9037	4.004	12.789	3.053	102.70	11124	4.073	4.731	12.838	-1.652	3.575	0.787
1000S162-43[1]	0.0451	0.627	2.13	8.025	1.605	3.577	0.168	0.518	8.025	1.414	27.94	802	5.292						0.425	3.404	-0.836	3.709	0.949
1000S162-54	0.0566	0.783	2.66	9.950	1.990	3.565	0.204	0.511	9.950	1.990	39.32	1593	5.000	9.950	1.712	51.26	1593	5.332	0.836	4.160	-0.827	3.696	0.950
1000S162-68	0.0713	0.978	3.33	12.325	2.465	3.550	0.246	0.502	12.325	2.465	56.20	3209	5.000	12.325	2.465	73.80	3209	5.000	1.658	5.060	-0.817	3.677	0.951
1000S162-97	0.1017	1.372	4.67	16.967	3.393	3.516	0.320	0.483	16.967	3.393	81.43	9037	5.000	16.967	3.393	120.37	9461	5.000	4.731	6.708	-0.795	3.637	0.952
1000S200-43[1]	0.0451	0.672	2.29	9.085	1.817	3.676	0.309	0.677	9.085	1.580	31.23	802	5.319						0.456	6.189	-1.162	3.914	0.912
1000S200-54	0.0566	0.839	2.86	11.278	2.256	3.666	0.378	0.671	11.278	2.256	44.57	1593	5.000	11.278	1.805	54.04	1593	5.478	0.896	7.595	-1.153	3.901	0.913
1000S200-68	0.0713	1.050	3.57	13.994	2.799	3.652	0.460	0.662	13.994	2.799	62.28	3209	5.000	13.994	2.744	82.15	3209	5.037	1.779	9.291	-1.142	3.883	0.913
1000S200-97	0.1017	1.474	5.02	19.336	3.867	3.622	0.609	0.643	19.336	3.867	89.92	9037	5.000	19.336	3.867	133.42	9461	5.000	5.082	12.460	-1.120	3.845	0.915
1000S250-43[1]	0.0451	0.717	2.44	10.203	2.041	3.771	0.531	0.860	10.203	1.617	31.95	802	5.508						0.486	10.404	-1.535	4.161	0.864
1000S250-54	0.0566	0.896	3.05	12.677	2.535	3.762	0.653	0.854	12.677	2.277	44.99	1593	5.213	12.660	1.879	56.26	1593	5.635	0.957	12.805	-1.525	4.148	0.865
1000S250-68	0.0713	1.121	3.81	15.751	3.150	3.749	0.799	0.844	15.751	3.054	60.34	3209	5.060	15.751	2.670	79.94	3209	5.317	1.899	15.726	-1.514	4.130	0.866
1000S250-97	0.1017	1.576	5.36	21.827	4.365	3.722	1.072	0.825	21.827	4.356	98.40	9037	5.004	21.827	4.181	140.63	9461	5.082	5.433	21.268	-1.491	4.093	0.867
1200S162-54[1]	0.0566	0.896	3.05	15.730	2.622	4.190	0.212	0.486	15.730	2.334	46.11	1321	6.311	15.730	2.024	60.60	1321	6.695	0.957	6.293	-0.744	4.283	0.970
1200S162-68	0.0713	1.121	3.81	19.518	3.253	4.173	0.255	0.477	19.518	3.253	64.28	2658	6.000	19.518	2.953	88.41	2658	6.257	1.899	7.666	-0.734	4.264	0.970
1200S162-97	0.1017	1.576	5.36	26.966	4.494	4.137	0.331	0.459	26.966	4.494	107.85	7814	6.000	26.966	4.494	159.42	7814	6.000	5.433	10.187	-0.713	4.223	0.971
1200S200-54[1]	0.0566	0.953	3.24	17.662	2.944	4.306	0.393	0.643	17.662	2.658	52.52	1321	6.281	17.662	2.143	64.17	1321	6.836	1.017	11.462	-1.047	4.478	0.945
1200S200-68	0.0713	1.192	4.06	21.947	3.658	4.291	0.479	0.634	21.947	3.658	81.40	2658	6.000	21.947	3.265	97.75	2658	6.300	2.020	14.038	-1.036	4.459	0.946
1200S200-97	0.1017	1.677	5.71	30.417	5.069	4.258	0.635	0.615	30.417	5.069	117.87	7814	6.000	30.417	5.069	174.89	7814	6.000	5.783	18.876	-1.014	4.420	0.947
1200S250-54[1]	0.0566	1.009	3.43	19.681	3.280	4.416	0.683	0.823	19.681	2.679	52.94	1321	6.521	19.681	2.238	67.01	1321	6.995	1.078	19.354	-1.395	4.704	0.912
1200S250-68	0.0713	1.263	4.30	24.484	4.081	4.402	0.836	0.813	24.484	3.963	78.31	2658	6.065	24.484	3.147	94.22	2658	6.643	2.141	23.796	-1.384	4.686	0.913
1200S250-97	0.1017	1.779	6.05	34.016	5.669	4.373	1.121	0.794	34.016	5.658	127.80	7814	6.004	34.016	5.446	183.15	7814	6.088	6.134	32.260	-1.361	4.648	0.914

[1] Web-height to thickness ratio exceeds 200. Web stiffeners are required at all support points and concentrated loads

See Section Properties Table Notes on page 6.

SSMA

Structural (T) Track Section Properties

Section	Design Thickness (in)	Gross							Effective 33ksi					Effective 50ksi					Torsional				
		Area (in^2)	Weight (lb/ft)	Ixx (in^4)	Sxx (in^3)	Rx (in)	Iyy (in^4)	Ry (in)	Ixx (in^4)	Sxx (in^3)	Ma (in-k)	Va (lb)	Ycg (in)	Ixx (in^4)	Sxx (in^3)	Ma (in-k)	Va (lb)	Ycg (in)	J^{x1000} (in^4)	Cw (in^6)	Xo (in)	Ro (in)	β
162T125-18	0.0188	0.078	0.26	0.042	0.048	0.740	0.013	0.411	0.031	0.026	0.51	309	1.093						0.009	0.007	-0.893	1.230	0.473
162T125-27	0.0283	0.117	0.40	0.063	0.072	0.735	0.020	0.410	0.050	0.044	0.87	577	1.048						0.031	0.010	-0.886	1.221	0.474
162T125-30	0.0312	0.129	0.44	0.070	0.079	0.735	0.022	0.409	0.057	0.050	1.00	637	1.038						0.042	0.012	-0.884	1.220	0.475
162T125-33	0.0346	0.143	0.49	0.077	0.087	0.736	0.024	0.408	0.066	0.058	1.15	707	1.026						0.057	0.013	-0.882	1.219	0.476
250T125-18	0.0188	0.094	0.32	0.105	0.080	1.057	0.015	0.399	0.079	0.046	0.90	237	1.593						0.011	0.018	-0.781	1.373	0.677
250T125-27	0.0283	0.141	0.48	0.157	0.119	1.053	0.022	0.398	0.129	0.079	1.56	700	1.519						0.038	0.027	-0.774	1.366	0.679
250T125-30	0.0312	0.156	0.53	0.173	0.131	1.053	0.025	0.397	0.145	0.090	1.77	851	1.507						0.051	0.030	-0.773	1.365	0.679
250T125-33	0.0346	0.173	0.59	0.192	0.145	1.054	0.027	0.397	0.166	0.103	2.03	1046	1.492						0.069	0.033	-0.771	1.365	0.680
250T125-43	0.0451	0.225	0.77	0.250	0.188	1.055	0.035	0.395	0.231	0.147	2.91	1446	1.454						0.153	0.042	-0.766	1.362	0.683
250T125-54	0.0566	0.282	0.96	0.318	0.236	1.062	0.043	0.392	0.310	0.203	4.01	1804	1.426	0.297	0.188	5.64	2734	1.463	0.301	0.054	-0.763	1.365	0.688
250T125-68	0.0713	0.355	1.21	0.408	0.297	1.072	0.054	0.389	0.408	0.281	5.56	2252	1.404	0.402	0.262	7.85	3412	1.440	0.602	0.068	-0.758	1.369	0.694
250T150-27	0.0283	0.156	0.53	0.181	0.137	1.078	0.037	0.486	0.139	0.082	1.61	700	1.576						0.042	0.044	-0.989	1.542	0.588
250T150-30	0.0312	0.172	0.58	0.199	0.151	1.078	0.040	0.486	0.157	0.093	1.83	851	1.563						0.056	0.048	-0.988	1.541	0.589
250T150-33	0.0346	0.190	0.65	0.221	0.167	1.079	0.045	0.485	0.179	0.107	2.11	1046	1.548						0.076	0.054	-0.986	1.540	0.590
250T150-43	0.0451	0.248	0.84	0.289	0.217	1.080	0.058	0.483	0.252	0.154	3.03	1446	1.508						0.168	0.070	-0.981	1.537	0.593
250T150-54	0.0566	0.311	1.06	0.368	0.273	1.088	0.072	0.481	0.342	0.213	4.22	1804	1.477	0.325	0.197	5.89	2734	1.517	0.332	0.088	-0.977	1.539	0.597
250T150-68	0.0713	0.391	1.33	0.472	0.344	1.099	0.089	0.478	0.465	0.299	5.92	2252	1.449	0.445	0.276	8.27	3412	1.490	0.663	0.113	-0.972	1.543	0.603
250T200-33	0.0346	0.225	0.76	0.280	0.212	1.117	0.097	0.658	0.203	0.112	2.22	1046	1.647						0.090	0.118	-1.432	1.932	0.450
250T200-43	0.0451	0.293	1.00	0.366	0.275	1.118	0.126	0.657	0.288	0.163	3.21	1446	1.605						0.198	0.153	-1.427	1.928	0.452
250T200-54	0.0566	0.367	1.25	0.466	0.346	1.127	0.157	0.654	0.396	0.228	4.51	1804	1.572	0.371	0.209	6.25	2734	1.615	0.392	0.195	-1.422	1.929	0.456
250T200-68	0.0713	0.462	1.57	0.600	0.437	1.139	0.196	0.652	0.548	0.324	6.41	2252	1.538	0.517	0.296	8.86	3412	1.586	0.783	0.251	-1.417	1.932	0.462
350T125-18	0.0188	0.113	0.38	0.221	0.122	1.400	0.016	0.382	0.176	0.063	1.25	167	2.278						0.013	0.039	-0.685	1.605	0.818
350T125-27	0.0283	0.170	0.58	0.331	0.182	1.396	0.025	0.381	0.277	0.128	2.53	566	2.044						0.045	0.057	-0.680	1.599	0.819
350T125-30	0.0312	0.187	0.64	0.365	0.200	1.396	0.027	0.380	0.312	0.145	2.86	758	2.030						0.061	0.063	-0.679	1.598	0.820
350T125-33	0.0346	0.207	0.71	0.405	0.222	1.397	0.030	0.379	0.354	0.165	3.27	1033	2.014						0.083	0.070	-0.677	1.598	0.820
350T125-43	0.0451	0.270	0.92	0.528	0.288	1.397	0.038	0.377	0.490	0.233	4.61	1777	1.971						0.183	0.090	-0.673	1.596	0.822
350T125-54	0.0566	0.339	1.15	0.668	0.361	1.404	0.048	0.375	0.651	0.317	6.26	2551	1.937	0.626	0.297	8.89	3446	1.978	0.362	0.113	-0.669	1.599	0.825
350T125-68	0.0713	0.427	1.45	0.851	0.454	1.412	0.059	0.372	0.851	0.433	8.55	3193	1.908	0.839	0.407	12.18	4838	1.949	0.723	0.143	-0.665	1.605	0.828
350T150-27	0.0283	0.184	0.63	0.377	0.207	1.431	0.041	0.470	0.298	0.132	2.62	566	2.111						0.049	0.093	-0.879	1.745	0.746
350T150-30	0.0312	0.203	0.69	0.416	0.228	1.432	0.045	0.469	0.336	0.150	2.96	758	2.097						0.066	0.103	-0.878	1.744	0.747
350T150-33	0.0346	0.225	0.76	0.461	0.253	1.432	0.049	0.469	0.382	0.171	3.39	1033	2.080						0.090	0.114	-0.876	1.743	0.747
350T150-43	0.0451	0.293	1.00	0.601	0.328	1.433	0.064	0.467	0.531	0.243	4.80	1777	2.034						0.198	0.148	-0.872	1.741	0.749
350T150-54	0.0566	0.367	1.25	0.761	0.412	1.440	0.079	0.465	0.712	0.332	6.57	2551	1.996	0.679	0.310	9.28	3446	2.042	0.392	0.186	-0.868	1.744	0.752
350T150-68	0.0713	0.462	1.57	0.972	0.518	1.450	0.099	0.462	0.957	0.459	9.07	3193	1.960	0.919	0.428	12.81	4838	2.007	0.783	0.236	-0.863	1.749	0.756
350T200-33	0.0346	0.259	0.88	0.574	0.315	1.487	0.108	0.647	0.428	0.181	3.57	1033	2.199						0.103	0.248	-1.297	2.077	0.610
350T200-43	0.0451	0.338	1.15	0.749	0.409	1.489	0.140	0.645	0.600	0.257	5.09	1777	2.150						0.229	0.322	-1.292	2.074	0.612
350T200-54	0.0566	0.424	1.44	0.949	0.513	1.496	0.175	0.642	0.814	0.355	7.01	2551	2.109	0.770	0.329	9.85	3446	2.159	0.453	0.408	-1.288	2.076	0.615
350T200-68	0.0713	0.534	1.82	1.213	0.647	1.508	0.218	0.639	1.112	0.496	9.80	3193	2.066	1.054	0.458	13.71	4838	2.121	0.904	0.520	-1.283	2.080	0.620
362T125-18	0.0188	0.115	0.39	0.240	0.127	1.442	0.017	0.380	0.192	0.066	1.30	161	2.366						0.014	0.042	-0.675	1.637	0.830
362T125-27	0.0283	0.173	0.59	0.358	0.191	1.438	0.025	0.378	0.301	0.135	2.66	546	2.109						0.046	0.062	-0.670	1.631	0.831
362T125-30	0.0312	0.191	0.65	0.395	0.210	1.438	0.027	0.378	0.339	0.152	3.01	731	2.095						0.062	0.068	-0.669	1.630	0.832
362T125-33	0.0346	0.212	0.72	0.438	0.232	1.438	0.030	0.377	0.384	0.174	3.44	996	2.079						0.085	0.075	-0.667	1.630	0.832
362T125-43	0.0451	0.276	0.94	0.571	0.302	1.439	0.039	0.375	0.531	0.245	4.84	1777	2.035						0.187	0.097	-0.663	1.628	0.834
362T125-54	0.0566	0.346	1.18	0.723	0.378	1.445	0.048	0.373	0.705	0.332	6.57	2645	2.000	0.678	0.312	9.34	3446	2.042	0.369	0.122	-0.659	1.632	0.837
362T125-68	0.0713	0.436	1.48	0.921	0.475	1.454	0.060	0.370	0.921	0.453	8.95	3311	1.971	0.907	0.427	12.78	5017	2.012	0.738	0.155	-0.655	1.637	0.840
362T150-27	0.0283	0.187	0.64	0.408	0.217	1.475	0.041	0.468	0.323	0.140	2.76	546	2.177						0.050	0.101	-0.868	1.774	0.761
362T150-30	0.0312	0.207	0.70	0.449	0.239	1.475	0.045	0.467	0.364	0.158	3.12	731	2.162						0.067	0.111	-0.866	1.773	0.761
362T150-33	0.0346	0.229	0.78	0.499	0.264	1.475	0.050	0.467	0.414	0.180	3.56	996	2.146						0.091	0.123	-0.865	1.772	0.762
362T150-43	0.0451	0.298	1.02	0.650	0.343	1.476	0.064	0.465	0.574	0.255	5.04	1777	2.099						0.202	0.160	-0.860	1.771	0.764
362T150-54	0.0566	0.374	1.27	0.823	0.431	1.483	0.080	0.462	0.769	0.349	6.89	2645	2.060	0.735	0.325	9.74	3446	2.107	0.400	0.201	-0.856	1.774	0.767
362T150-68	0.0713	0.471	1.60	1.050	0.542	1.492	0.099	0.459	1.034	0.480	9.49	3311	2.024	0.993	0.449	13.43	5017	2.072	0.799	0.256	-0.852	1.779	0.771
362T200-33	0.0346	0.264	0.90	0.619	0.328	1.532	0.110	0.645	0.464	0.190	3.76	996	2.267						0.105	0.269	-1.282	2.100	0.627
362T200-43	0.0451	0.343	1.17	0.808	0.427	1.534	0.142	0.643	0.649	0.270	5.34	1777	2.218						0.233	0.349	-1.277	2.097	0.629
362T200-54	0.0566	0.431	1.47	1.024	0.536	1.541	0.177	0.640	0.879	0.372	7.35	2645	2.175	0.832	0.345	10.34	3446	2.226	0.460	0.441	-1.273	2.099	0.632
362T200-68	0.0713	0.543	1.85	1.307	0.675	1.552	0.221	0.638	1.199	0.519	10.26	3311	2.132	1.138	0.480	14.37	5017	2.187	0.919	0.562	-1.268	2.104	0.636

[1] Web-height to thickness ratio exceeds 200. Web stiffeners are required at all support points and concentrated loads

See Section Properties Table Notes on page 6.

Section Properties

Structural (T) Track Section Properties

Section	Design Thickness (in)	Gross							Effective 33ksi					Effective 50ksi					Torsional				
		Area (in^2)	Weight (lb/ft)	Ixx (in^4)	Sxx (in^3)	Rx (in)	Iyy (in^4)	Ry (in)	Ixx (in^4)	Sxx (in^3)	Ma (in-k)	Va (lb)	Ycg (in)	Ixx (in^4)	Sxx (in^3)	Ma (in-k)	Va (lb)	Ycg (in)	J^{x1000} (in^4)	Cw (in^6)	Xo (in)	Ro (in)	β
400T125-18[1]	0.0188	0.122	0.42	0.300	0.145	1.566	0.017	0.373	0.243	0.072	1.43	146	2.634						0.014	0.052	-0.647	1.735	0.861
400T125-27	0.0283	0.184	0.63	0.449	0.217	1.562	0.025	0.372	0.380	0.156	3.08	494	2.306						0.049	0.077	-0.641	1.729	0.862
400T125-30	0.0312	0.203	0.69	0.495	0.239	1.562	0.028	0.371	0.427	0.176	3.49	661	2.289						0.066	0.085	-0.640	1.729	0.863
400T125-33	0.0346	0.225	0.76	0.549	0.265	1.563	0.031	0.371	0.484	0.201	3.97	901	2.272						0.090	0.094	-0.639	1.728	0.863
400T125-43	0.0451	0.293	1.00	0.716	0.344	1.563	0.040	0.369	0.666	0.282	5.57	1777	2.227						0.198	0.122	-0.635	1.727	0.865
400T125-54	0.0566	0.367	1.25	0.904	0.431	1.569	0.049	0.366	0.882	0.381	7.53	2799	2.191	0.849	0.359	10.74	3446	2.234	0.392	0.153	-0.631	1.730	0.867
400T125-68	0.0713	0.462	1.57	1.150	0.541	1.577	0.061	0.363	1.150	0.517	10.22	3664	2.159	1.134	0.488	14.62	5468	2.202	0.783	0.193	-0.627	1.736	0.870
400T150-27	0.0283	0.198	0.67	0.509	0.246	1.602	0.042	0.461	0.409	0.154	3.04	494	2.420						0.053	0.127	-0.834	1.864	0.800
400T150-30	0.0312	0.218	0.74	0.561	0.271	1.603	0.046	0.461	0.458	0.183	3.61	661	2.359						0.071	0.139	-0.833	1.864	0.800
400T150-33	0.0346	0.242	0.82	0.622	0.300	1.603	0.051	0.460	0.519	0.208	4.12	901	2.342						0.097	0.154	-0.831	1.863	0.801
400T150-43	0.0451	0.315	1.07	0.811	0.390	1.604	0.066	0.458	0.719	0.293	5.80	1777	2.294						0.214	0.200	-0.827	1.862	0.803
400T150-54	0.0566	0.396	1.35	1.025	0.489	1.610	0.082	0.456	0.960	0.399	7.89	2799	2.253	0.918	0.374	11.19	3446	2.301	0.422	0.251	-0.823	1.865	0.805
400T150-68	0.0713	0.498	1.69	1.306	0.615	1.619	0.102	0.453	1.286	0.548	10.82	3664	2.214	1.237	0.513	15.35	5468	2.264	0.844	0.318	-0.818	1.870	0.808
400T200-33	0.0346	0.277	0.94	0.768	0.371	1.666	0.113	0.639	0.581	0.220	4.34	901	2.469						0.110	0.335	-1.240	2.173	0.674
400T200-43	0.0451	0.360	1.23	1.002	0.482	1.668	0.146	0.637	0.811	0.311	6.14	1777	2.418						0.244	0.435	-1.235	2.171	0.676
400T200-54	0.0566	0.452	1.54	1.268	0.604	1.675	0.182	0.635	1.093	0.426	8.42	2799	2.374	1.037	0.397	11.88	3446	2.426	0.483	0.549	-1.231	2.173	0.679
400T200-68	0.0713	0.569	1.94	1.617	0.761	1.685	0.227	0.632	1.485	0.591	11.68	3664	2.327	1.412	0.549	16.42	5468	2.385	0.965	0.699	-1.226	2.178	0.683
550T125-27	0.0283	0.226	0.77	0.948	0.336	2.046	0.027	0.348	0.836	0.207	4.09	357	3.337						0.060	0.160	-0.550	2.15	0.935
550T125-30	0.0312	0.250	0.85	1.045	0.370	2.046	0.030	0.347	0.931	0.252	4.97	478	3.223						0.081	0.176	-0.549	2.147	0.935
550T125-33	0.0346	0.277	0.94	1.159	0.410	2.046	0.033	0.346	1.042	0.312	6.16	652	3.094						0.110	0.194	-0.547	2.146	0.935
550T125-43	0.0451	0.360	1.23	1.510	0.533	2.047	0.043	0.344	1.417	0.451	8.91	1443	2.991						0.244	0.251	-0.544	2.146	0.936
550T125-54	0.0566	0.452	1.54	1.903	0.668	2.052	0.053	0.342	1.861	0.602	11.89	2799	2.949	1.800	0.572	17.13	2859	2.997	0.483	0.314	-0.540	2.149	0.937
550T125-68	0.0713	0.569	1.94	2.412	0.839	2.058	0.066	0.339	2.412	0.807	15.95	4442	2.913	2.379	0.769	23.02	5468	2.960	0.965	0.395	-0.536	2.154	0.938
550T150-27	0.0283	0.241	0.82	1.059	0.376	2.098	0.046	0.436	0.893	0.207	4.10	357	3.460						0.064	0.262	-0.724	2.262	0.898
550T150-30	0.0312	0.265	0.90	1.168	0.414	2.098	0.050	0.435	0.995	0.251	4.96	478	3.349						0.086	0.288	-0.723	2.262	0.898
550T150-33	0.0346	0.294	1.00	1.295	0.459	2.099	0.055	0.434	1.115	0.310	6.12	652	3.224						0.117	0.319	-0.721	2.261	0.898
550T150-43	0.0451	0.383	1.30	1.688	0.596	2.099	0.072	0.432	1.516	0.468	9.25	1443	3.066						0.260	0.412	-0.717	2.260	0.899
550T150-54	0.0566	0.480	1.63	2.128	0.747	2.105	0.089	0.430	2.005	0.628	12.41	2799	3.020	1.928	0.595	17.81	2859	3.072	0.513	0.517	-0.714	2.264	0.901
550T150-68	0.0713	0.605	2.06	2.699	0.939	2.112	0.110	0.427	2.660	0.850	16.80	4442	2.974	2.569	0.804	24.07	5468	3.029	1.025	0.652	-0.710	2.269	0.902
550T200-33	0.0346	0.329	1.12	1.567	0.555	2.184	0.123	0.613	1.246	0.307	6.06	652	3.453						0.131	0.692	-1.097	2.52	0.810
550T200-43	0.0451	0.428	1.46	2.043	0.722	2.185	0.160	0.611	1.690	0.495	9.79	1443	3.209						0.290	0.898	-1.093	2.52	0.812
550T200-54	0.0566	0.537	1.83	2.578	0.905	2.191	0.199	0.609	2.253	0.669	13.21	2799	3.158	2.153	0.63	18.86	2859	3.215	0.573	1.129	-1.089	2.52	0.814
550T200-68	0.0713	0.676	2.30	3.274	1.139	2.200	0.248	0.606	3.027	0.914	18.06	4442	3.103	2.894	0.857	25.67	5468	3.166	1.146	1.428	-1.084	2.53	0.816
600T125-27[1]	0.0283	0.241	0.82	1.168	0.381	2.204	0.028	0.340	1.041	0.225	4.44	327	3.693						0.064	0.195	-0.525	2.291	0.948
600T125-30	0.0312	0.265	0.90	1.288	0.419	2.204	0.031	0.340	1.159	0.272	5.37	438	3.573						0.086	0.214	-0.524	2.291	0.948
600T125-33	0.0346	0.294	1.00	1.428	0.465	2.204	0.034	0.339	1.297	0.335	6.62	597	3.438						0.117	0.237	-0.523	2.291	0.948
600T125-43	0.0451	0.383	1.30	1.861	0.604	2.205	0.044	0.337	1.750	0.515	10.17	1321	3.244						0.260	0.306	-0.519	2.290	0.949
600T125-54	0.0566	0.480	1.63	2.344	0.756	2.209	0.054	0.335	2.294	0.685	13.53	2617	3.202	2.221	0.653	19.55	2617	3.250	0.513	0.383	-0.516	2.293	0.949
600T125-68	0.0713	0.605	2.06	2.969	0.950	2.215	0.067	0.332	2.969	0.916	18.09	4442	3.164	2.930	0.874	26.17	5251	3.211	1.025	0.481	-0.512	2.298	0.950
600T125-97	0.1017	0.862	2.93	4.281	1.347	2.228	0.092	0.326	4.281	1.347	30.43	7850	3.178	4.281	1.347	40.33	11124	3.178	2.973	0.681	-0.504	2.308	0.952
600T150-27[1]	0.0283	0.255	0.87	1.300	0.424	2.260	0.047	0.427	1.109	0.225	4.46	327	3.819						0.068	0.319	-0.694	2.402	0.917
600T150-30	0.0312	0.281	0.96	1.433	0.467	2.260	0.051	0.427	1.235	0.272	5.38	438	3.701						0.091	0.351	-0.693	2.402	0.917
600T150-33	0.0346	0.311	1.06	1.590	0.517	2.260	0.057	0.426	1.385	0.335	6.61	597	3.569						0.124	0.389	-0.691	2.401	0.917
600T150-43	0.0451	0.405	1.38	2.072	0.673	2.261	0.073	0.424	1.868	0.534	10.55	1321	3.321						0.275	0.503	-0.687	2.400	0.918
600T150-54	0.0566	0.509	1.73	2.611	0.843	2.266	0.091	0.422	2.464	0.714	14.11	2617	3.274	2.374	0.678	20.30	2617	3.327	0.543	0.630	-0.684	2.404	0.919
600T150-68	0.0713	0.641	2.18	3.309	1.059	2.273	0.113	0.419	3.262	0.963	19.03	4442	3.227	3.154	0.913	27.34	5251	3.282	1.086	0.794	-0.680	2.409	0.920
600T150-97	0.1017	0.913	3.11	4.778	1.504	2.288	0.156	0.413	4.778	1.504	29.71	7850	3.178	4.778	1.444	43.23	11124	3.222	3.148	1.131	-0.672	2.420	0.923
600T200-33	0.0346	0.346	1.18	1.913	0.622	2.352	0.126	0.604	1.542	0.333	6.59	597	3.803						0.138	0.845	-1.057	2.648	0.841
600T200-43	0.0451	0.451	1.53	2.494	0.809	2.353	0.163	0.602	2.076	0.565	11.16	1321	3.469						0.305	1.095	-1.053	2.647	0.842
600T200-54	0.0566	0.565	1.92	3.145	1.015	2.359	0.203	0.600	2.759	0.759	15.00	2617	3.416	2.641	0.717	21.48	2617	3.475	0.604	1.376	-1.049	2.650	0.843
600T200-68	0.0713	0.712	2.42	3.990	1.277	2.367	0.254	0.597	3.696	1.034	20.42	4442	3.360	3.540	0.973	29.12	5251	3.424	1.206	1.739	-1.045	2.656	0.845
600T200-97	0.1017	1.015	3.45	5.773	1.816	2.385	0.354	0.591	5.773	1.667	32.95	7850	3.276	5.558	1.568	46.94	11124	3.345	3.499	2.496	-1.036	2.667	0.849

[1] Web-height to thickness ratio exceeds 200. Web stiffeners are required at all support points and concentrated loads

See Section Properties Table Notes on page 6.

SSMA

Structural (T) Track Section Properties

Section	Design Thickness (in)	Gross							Effective 33ksi					Effective 50ksi					Torsional				
		Area (in^2)	Weight (lb/ft)	Ixx (in^4)	Sxx (in^3)	Rx (in)	Iyy (in^4)	Ry (in)	Ixx (in^4)	Sxx (in^3)	Ma (in-k)	Va (lb)	Ycg (in)	Ixx (in^4)	Sxx (in^3)	Ma (in-k)	Va (lb)	Ycg (in)	J^{x1000} (in^4)	Cw (in^6)	Xo (in)	Ro (in)	β
800T125-33[1]	0.0346	0.363	1.24	2.895	0.711	2.824	0.036	0.313	2.706	0.433	8.56	446	4.860						0.145	0.456	-0.444	2.875	0.976
800T125-43	0.0451	0.473	1.61	3.773	0.924	2.824	0.046	0.311	3.600	0.739	14.61	988	4.408						0.321	0.588	-0.440	2.875	0.977
800T125-54	0.0566	0.594	2.02	4.745	1.158	2.827	0.057	0.309	4.653	1.065	21.04	1956	4.208	4.548	0.961	28.78	1956	4.367	0.634	0.734	-0.438	2.878	0.977
800T125-68	0.0713	0.748	2.54	5.998	1.454	2.833	0.070	0.306	5.998	1.409	27.85	3920	4.166	5.925	1.355	40.58	3920	4.217	1.267	0.919	-0.434	2.882	0.977
800T125-97	0.1017	1.066	3.63	8.613	2.062	2.843	0.096	0.301	8.613	2.062	46.57	9037	4.178	8.613	2.062	61.72	11124	4.178	3.674	1.293	-0.427	2.891	0.978
800T150-33[1]	0.0346	0.380	1.29	3.180	0.781	2.891	0.060	0.397	2.866	0.437	8.63	446	4.995						0.152	0.750	-0.593	2.978	0.960
800T150-43	0.0451	0.496	1.69	4.144	1.015	2.891	0.077	0.395	3.825	0.741	14.64	988	4.550						0.336	0.970	-0.590	2.977	0.961
800T150-54	0.0566	0.622	2.12	5.214	1.272	2.896	0.096	0.393	4.952	1.106	21.85	1956	4.287	4.835	0.963	28.83	1956	4.509	0.664	1.213	-0.587	2.980	0.961
800T150-68	0.0713	0.783	2.67	6.594	1.599	2.902	0.119	0.390	6.506	1.474	29.13	3920	4.234	6.317	1.410	42.20	3920	4.294	1.327	1.522	-0.583	2.985	0.962
800T150-97	0.1017	1.116	3.80	9.479	2.269	2.914	0.165	0.384	9.479	2.269	44.83	9037	4.178	9.479	2.192	65.62	11124	4.225	3.849	2.155	-0.576	2.995	0.963
800T200-33[1]	0.0346	0.415	1.41	3.749	0.921	3.005	0.135	0.571	3.155	0.440	8.70	446	5.245						0.166	1.635	-0.925	3.196	0.916
800T200-43	0.0451	0.541	1.84	4.887	1.197	3.006	0.175	0.569	4.230	0.741	14.63	988	4.814						0.367	2.119	-0.921	3.195	0.917
800T200-54	0.0566	0.679	2.31	6.152	1.501	3.011	0.218	0.567	5.475	1.170	23.13	1956	4.444	5.353	0.962	28.79	1956	4.776	0.725	2.657	-0.917	3.198	0.918
800T200-68	0.0713	0.854	2.91	7.786	1.888	3.019	0.272	0.564	7.265	1.573	31.09	3920	4.381	6.997	1.494	44.74	3920	4.450	1.448	3.346	-0.913	3.204	0.919
800T200-97	0.1017	1.218	4.15	11.212	2.683	3.034	0.379	0.558	11.176	2.491	49.22	9037	4.285	10.827	2.362	70.73	11124	4.360	4.200	4.770	-0.905	3.215	0.921
1000T125-43[1]	0.0451	0.563	1.92	6.630	1.305	3.431	0.047	0.290	6.433	0.891	17.62	789	5.833						0.382	0.973	-0.383	3.464	0.988
1000T125-54	0.0566	0.707	2.41	8.333	1.634	3.434	0.059	0.288	8.213	1.443	28.51	1561	5.322	8.116	1.155	34.58	1561	5.785	0.755	1.212	-0.380	3.467	0.988
1000T125-68	0.0713	0.890	3.03	10.522	2.053	3.438	0.073	0.286	10.522	1.998	39.48	3128	5.168	10.416	1.897	56.80	3128	5.259	1.508	1.514	-0.377	3.470	0.988
1000T125-97	0.1017	1.269	4.32	15.077	2.912	3.447	0.100	0.280	15.077	2.912	65.77	9037	5.178	15.077	2.912	87.18	9119	5.178	4.375	2.121	-0.371	3.478	0.989
1000T150-43[1]	0.0451	0.586	1.99	7.207	1.419	3.507	0.080	0.370	6.793	0.901	17.80	789	5.974						0.397	1.610	-0.518	3.565	0.979
1000T150-54	0.0566	0.735	2.50	9.061	1.777	3.511	0.100	0.368	8.703	1.451	28.68	1561	5.467	8.575	1.168	34.96	1561	5.926	0.785	2.011	-0.515	3.567	0.979
1000T150-68	0.0713	0.926	3.15	11.445	2.233	3.516	0.124	0.366	11.303	2.081	41.12	3128	5.240	11.048	1.908	57.13	3128	5.404	1.569	2.519	-0.511	3.572	0.980
1000T150-97	0.1017	1.320	4.49	16.413	3.170	3.526	0.171	0.360	16.413	3.170	62.64	9037	5.178	16.413	3.075	92.08	9119	5.228	4.550	3.551	-0.504	3.580	0.980
1000T200-43[1]	0.0451	0.631	2.15	8.361	1.646	3.640	0.183	0.539	7.442	0.911	18.01	789	6.244						0.428	3.535	-0.819	3.770	0.953
1000T200-54	0.0566	0.792	2.69	10.516	2.062	3.645	0.228	0.537	9.579	1.456	28.77	1561	5.749	9.402	1.181	35.36	1561	6.197	0.845	4.426	-0.816	3.773	0.953
1000T200-68	0.0713	0.997	3.39	13.292	2.594	3.651	0.284	0.534	12.477	2.209	43.65	3128	5.395	12.176	1.912	57.26	3128	5.688	1.690	5.564	-0.812	3.778	0.954
1000T200-97	0.1017	1.422	4.84	19.087	3.686	3.664	0.397	0.528	19.021	3.450	68.18	9037	5.292	18.480	3.294	98.61	9119	5.370	4.901	7.899	-0.804	3.788	0.955
1200T125-54[1]	0.0566	0.820	2.79	13.335	2.186	4.033	0.060	0.271	13.267	1.662	32.85	1299	6.748	13.117	1.362	40.79	1299	7.246	0.876	1.820	-0.337	4.056	0.993
1200T125-68	0.0713	1.033	3.51	16.826	2.747	4.036	0.074	0.268	16.826	2.682	52.99	2602	6.169	16.801	2.176	65.15	2602	6.678	1.750	2.271	-0.334	4.059	0.993
1200T125-97	0.1017	1.472	5.01	24.078	3.897	4.044	0.102	0.263	24.078	3.897	88.03	7579	6.178	24.078	3.897	116.69	7579	6.178	5.076	3.173	-0.328	4.066	0.994
1200T150-54[1]	0.0566	0.848	2.89	14.378	2.357	4.117	0.103	0.348	13.993	1.685	33.30	1299	6.888	13.796	1.382	41.37	1299	7.386	0.906	3.032	-0.459	4.157	0.988
1200T150-68	0.0713	1.068	3.64	18.148	2.963	4.121	0.127	0.345	17.939	2.783	54.99	2602	6.244	17.740	2.207	66.09	2602	6.816	1.810	3.793	-0.456	4.161	0.988
1200T150-97	0.1017	1.523	5.18	25.987	4.206	4.130	0.176	0.340	25.987	4.206	83.12	7579	6.178	25.987	4.095	122.59	7579	6.229	5.252	5.332	-0.449	4.169	0.988
1200T200-54[1]	0.0566	0.905	3.08	16.464	2.699	4.265	0.236	0.510	15.279	1.710	33.79	1299	7.169	15.011	1.406	42.08	1299	7.662	0.966	6.706	-0.736	4.358	0.971
1200T200-68	0.0713	1.140	3.88	20.791	3.395	4.271	0.294	0.508	19.699	2.797	55.27	2602	6.535	19.395	2.240	67.06	2602	7.098	1.931	8.419	-0.732	4.363	0.972
1200T200-97	0.1017	1.625	5.53	29.805	4.824	4.283	0.410	0.502	29.700	4.546	89.84	7579	6.296	28.926	4.361	130.58	7579	6.378	5.602	11.921	-0.725	4.373	0.973

[1] Web-height to thickness ratio exceeds 200. Web stiffeners are required at all support points and concentrated loads

See Section Properties Table Notes on page 6.

Limiting Wall Height Tables — Composite

Interior Non-Structural Composite Table Notes

1 Composite wall sheathed both sides full height with ½" gypsum wallboard for 18 and 33 mil.

2 Composite wall sheathed both sides full height with ⅝" gypsum wallboard for 43, 54 and 68 mil.

3 Sheathing attached with #6 screws min. at 12" o.c. max.

4 362S125 member is based on 350S125 test data. For both 362S125 and 350S125 members use values listed for 362S125.

Interior Non-Structural Composite

(S) Stud Member	Spacing (in) o.c.	5 psf			7.5 psf			10 psf		
		L/120	L/240	L/360	L/120	L/240	L/360	L/120	L/240	L/360
162S125-18	12	11' 2"	8' 10"		9' 9"			8' 10"		
162S125-18	16	10' 7"	8' 4"		8' 10" f			8' 4"		
162S125-18	24	9' 9" f	7' 11"		8' 0" f					
162S125-33	12	13' 0"	10' 4"	9' 0"	11' 4"	9' 0"		10' 4"		
162S125-33	16	12' 1"	9' 8"	8' 5"	10' 7"	8' 5"		9' 8"		
162S125-33	24	11' 0"	8' 9"	7' 8"	9' 7"	7' 8"		8' 9"		
250S125-18	12	15' 1"	11' 11"	10' 5"	12' 4" f	10' 5"	9' 1"	10' 9" f	9' 6"	
250S125-18	16	13' 3" f	11' 3"	9' 10"	10' 10" f	9' 10"	8' 7"	9' 5" f	8' 11"	
250S125-18	24	11' 10" f	10' 7"	9' 3"	9' 8" f	9' 3"	8' 1"	8' 5" f	8' 5"	
250S125-33	12	17' 9"	13' 11"	12' 1"	15' 6"	12' 1"	10' 6"	13' 11"	10' 11"	9' 5"
250S125-33	16	16' 5"	12' 10"	11' 2"	14' 4"	11' 2"	9' 8"	12' 10"	10' 0"	8' 8"
250S125-33	24	14' 10"	11' 7"	10' 0"	13' 0"	10' 0"	8' 7"	11' 7"	8' 11"	7' 8"
250S125-43	12	20' 0"	15' 9"	13' 9"	17' 1"	13' 3"	11' 5"	15' 3"	11' 9"	10' 1"
250S125-43	16	18' 8"	14' 9"	12' 10"	15' 11"	12' 3"	10' 7"	14' 2"	10' 10"	9' 3"
250S125-43	24	17' 2"	13' 6"	11' 9"	14' 2" f	11' 1"	9' 6"	12' 4" f	9' 7"	8' 2"
362S125-18	12	17' 8" f	15' 4"	13' 3"	14' 3" f	13' 3"	11' 7"	12' 5" f	12' 0"	10' 5"
362S125-18	16	15' 4" f	14' 4"	12' 4"	12' 5" f	12' 5"	10' 10"	10' 9" f	10' 9" f	9' 9"
362S125-18	24	13' 9" f	13' 5"	11' 7"	11' 0" f	11' 0" f	10' 1"	9' 5" f	9' 5" f	9' 1"
362S125-33	12	22' 6"	17' 10"	15' 6"	19' 8"	15' 6"	13' 7"	17' 10"	14' 1"	12' 4"
362S125-33	16	20' 8"	16' 5"	14' 3"	18' 1"	14' 3"	12' 6"	16' 5"	12' 11"	11' 4"
362S125-33	24	18' 6"	14' 9"	12' 9"	16' 2"	12' 9"	11' 2"	14' 9"	11' 7"	10' 1"
362S125-43	12	25' 3"	19' 7"	16' 10"	21' 8"	16' 10"	14' 6"	19' 5"	15' 2"	13' 1"
362S125-43	16	23' 5"	18' 0"	15' 6"	20' 0"	15' 5"	13' 3"	17' 11"	13' 10"	11' 11"
362S125-43	24	21' 3"	16' 3"	13' 10"	17' 10" f	13' 9"	11' 8"	15' 5" f	12' 3"	10' 6"
362S125-54 (50 ksi)	12	26' 9"	21' 2"	18' 6"	23' 4"	17' 9"	15' 3"	21' 1"	15' 10"	13' 10"
362S125-54 (50 ksi)	16	24' 9"	19' 7"	17' 1"	21' 7"	16' 3"	13' 10"	19' 6"	14' 5"	12' 7"
362S125-54 (50 ksi)	24	22' 4"	17' 8"	15' 5"	19' 6"	14' 4"	12' 1"	17' 7"	12' 7"	11' 0"
362S125-68 (50 ksi)	12	27' 6"	21' 10"	19' 1"	24' 0"	19' 0"	16' 7"	21' 10"	17' 3"	15' 0"
362S125-68 (50 ksi)	16	25' 2"	20' 0"	17' 5"	22' 0"	17' 4"	15' 1"	19' 11"	15' 9"	13' 9"
362S125-68 (50 ksi)	24	22' 4"	17' 8"	15' 6"	19' 6"	15' 4"	13' 4"	17' 8"	13' 11"	12' 1"
400S125-18	12	19' 6" f	16' 5"	14' 4"	15' 9" f	14' 4"	12' 6"	13' 8" f	13' 0"	11' 4"
400S125-18	16	17' 2" f	15' 4"	13' 4"	13' 10" f	13' 4"	11' 8"	11' 11" f	11' 11" f	10' 6"
400S125-18	24	15' 1" f	14' 2"	12' 4"	12' 1" f	12' 1" f	10' 9"	10' 5" f	10' 5" f	9' 9"
400S125-33	12	25' 1"	19' 11"	17' 4"	21' 11"	17' 4"	15' 0"	19' 11"	15' 8"	13' 7"
400S125-33	16	23' 1"	18' 4"	15' 11"	20' 2"	15' 11"	13' 9"	18' 4"	14' 5"	12' 6"
400S125-33	24	20' 9"	16' 5"	14' 3"	18' 1"	14' 3"	12' 4"	16' 5"	12' 10"	11' 2"
400S125-43	12	27' 4"	21' 2"	18' 3"	23' 6"	18' 4"	15' 11"	21' 2"	16' 8"	14' 5"
400S125-43	16	25' 2"	19' 5"	16' 8"	21' 7"	16' 9"	14' 6"	19' 4"	15' 2"	13' 2"
400S125-43	24	22' 7"	17' 2"	14' 8"	19' 3"	14' 10"	12' 8"	16' 11" f	13' 4"	11' 6"
400S125-54 (50 ksi)	12	29' 1"	22' 11"	20' 0"	25' 3"	19' 10"	17' 3"	22' 9"	17' 11"	15' 7"
400S125-54 (50 ksi)	16	26' 9"	21' 1"	18' 4"	23' 2"	18' 2"	15' 9"	20' 11"	16' 4"	14' 2"
400S125-54 (50 ksi)	24	23' 11"	18' 10"	16' 4"	20' 8"	16' 1"	13' 11"	18' 4"	14' 6"	12' 6"
400S125-68 (50 ksi)	12	31' 6"	25' 0"	21' 10"	27' 5"	21' 8"	18' 10"	24' 10"	19' 6"	16' 11"
400S125-68 (50 ksi)	16	29' 1"	23' 1"	20' 2"	25' 3"	19' 11"	17' 4"	22' 10"	17' 11"	15' 6"
400S125-68 (50 ksi)	24	26' 2"	20' 9"	18' 2"	22' 9"	17' 10"	15' 6"	20' 6"	15' 11"	13' 9"

s: Shear/web crippling controls allowable wall height
f: Flexural stress controls allowable wall height

SSMA

Limiting Wall Height Tables — Composite

Interior Non-Structural Composite

(S) Stud Member	Spacing (in) o.c.	5 psf			7.5 psf			10 psf		
		L/120	L/240	L/360	L/120	L/240	L/360	L/120	L/240	L/360
600S125-18	12	22' 10"	22' 1"	19' 4"	18' 7" f	18' 7" f	16' 9"	16' 2" f	16' 2" f	15' 0"
600S125-18	16	19' 9" f	19' 9" f	17' 11"	16' 2" f	16' 2" f	15' 7"	14' 0" f	14' 0" f	13' 10"
600S125-18	24	16' 9" f	16' 9" f	16' 9" f	13' 5" f	13' 5" f	13' 5" f	11' 5" f	11' 5" f	11' 5" f
600S125-33	12	33' 9"	26' 9"	23' 5"	29' 6"	23' 5"	20' 6"	26' 9"	21' 3"	18' 7"
600S125-33	16	30' 10"	24' 6"	21' 4"	27' 0"	21' 4"	18' 9"	24' 6"	19' 5"	17' 0"
600S125-33	24	27' 2"	21' 7"	18' 10"	23' 10"	18' 10"	16' 7"	19' 1" s	17' 2"	15' 0"
600S125-43	12	38' 7"	30' 7"	26' 8"	33' 9"	26' 6"	23' 0"	30' 7"	23' 11"	20' 9"
600S125-43	16	35' 8"	28' 3"	24' 8"	31' 3"	24' 6"	21' 3"	27' 8" f	22' 1"	19' 1"
600S125-43	24	32' 0" f	25' 7"	22' 4"	26' 1" f	22' 1"	19' 1"	22' 7" f	19' 10"	17' 1"
600S125-54 (50 ksi)	12	40' 11"	32' 6"	28' 4"	35' 1"	28' 3"	24' 7"	32' 6"	25' 6"	22' 2"
600S125-54 (50 ksi)	16	37' 10"	30' 0"	26' 2"	33' 1"	26' 1"	22' 8"	30' 0"	23' 6"	20' 5"
600S125-54 (50 ksi)	24	34' 1"	27' 0"	23' 7"	29' 10"	23' 5"	20' 5"	27' 0"	21' 1"	18' 3"
600S125-68 (50 ksi)	12	43' 9"	34' 8"	30' 4"	38' 3"	30' 4"	26' 6"	34' 8"	27' 5"	23' 11"
600S125-68 (50 ksi)	16	40' 4"	32' 0"	28' 0"	35' 3"	28' 0"	24' 5"	32' 0"	25' 3"	22' 0"
600S125-68 (50 ksi)	24	36' 3"	28' 9"	25' 2"	31' 9"	25' 2"	22' 0"	28' 9"	22' 8"	19' 8"
800S125-43	12	47' 3"	37' 6"	32' 9"	41' 3"	32' 9"	28' 8"	37' 6"	29' 8"	25' 11"
800S125-43	16	43' 3"	34' 4"	30' 0"	37' 10"	30' 1"	26' 3"	34' 3" f	27' 2"	23' 9"
800S125-43	24	38' 5"	30' 6"	26' 8"	32' 4" f	26' 9"	23' 5"	28' 0" f	24' 2"	21' 0"
800S125-54 (50 ksi)	12	50' 6"	40' 0"	35' 0"	44' 1"	35' 0"	30' 7"	40' 1"	31' 9"	27' 9"
800S125-54 (50 ksi)	16	46' 2"	36' 8"	32' 0"	40' 4"	32' 1"	28' 0"	36' 8"	29' 1"	25' 5"
800S125-54 (50 ksi)	24	41' 0"	32' 6"	28' 5"	35' 10"	28' 6"	24' 10"	32' 6"	25' 9"	22' 6"
800S125-68 (50 ksi)	12	54' 7"	43' 4"	37' 10"	47' 8"	37' 11"	33' 1"	43' 4"	34' 5"	30' 0"
800S125-68 (50 ksi)	16	50' 1"	39' 9"	34' 9"	43' 9"	34' 9"	30' 5"	39' 9"	31' 7"	27' 7"
800S125-68 (50 ksi)	24	44' 7"	35' 5"	30' 11"	39' 0"	31' 0"	27' 1"	35' 5"	28' 1"	24' 6"

See Interior Non-Structural Composite Table Notes on page 12

s: Shear/web crippling controls allowable wall height

f: Flexural stress controls allowable wall height

Limiting Wall Height Tables — Non-Composite

Interior Non-Structural Non-Composite Table Notes

1. Lateral loads multiplied by 0.75 for strength determination per AISI A5.1.3.
2. Check end reactions for web crippling.
3. Limiting heights based on continuous support of each flange over the full length of the stud.
4. Heights based on steel properties only.
5. For 350S125 members use values listed for 362S125.
6. Calculations for 362S125 are based on 350S125 properties.

Interior Non-Structural Non-Composite

(S) Stud Member	Spacing (in) o.c.	5 psf			7.5 psf			10 psf		
		L/120	L/240	L/360	L/120	L/240	L/360	L/120	L/240	L/360
162S125-18	12	9' 7"	7' 7"	6' 7"	8' 4"	6' 7"	5' 9"	7' 7"	6' 0"	5' 3"
162S125-18	16	8' 8"	6' 11"	6' 0"	7' 7"	6' 0"	5' 3"	6' 7" f	5' 5"	4' 9"
162S125-18	24	7' 7"	6' 0"	5' 3"	6' 2" f	5' 3"	4' 7"	5' 4" f	4' 9"	4' 2"
162S125-27	12	11' 3"	8' 11"	7' 9"	9' 10"	7' 9"	6' 10"	8' 11"	7' 1"	6' 2"
162S125-27	16	10' 3"	8' 1"	7' 1"	8' 11"	7' 1"	6' 2"	8' 1"	6' 5"	5' 7"
162S125-27	24	8' 11"	7' 1"	6' 2"	7' 9" f	6' 2"	5' 5"	6' 8" f	5' 7"	4' 11"
162S125-30	12	11' 7"	9' 2"	8' 0"	10' 1"	8' 0"	7' 0"	9' 2"	7' 3"	6' 4"
162S125-30	16	10' 6"	8' 4"	7' 3"	9' 2"	7' 3"	6' 4"	8' 4"	6' 7"	5' 9"
162S125-30	24	9' 2"	7' 3"	6' 4"	8' 0"	6' 4"	5' 7"	7' 2" f	5' 9"	5' 0"
162S125-33	12	12' 0"	9' 6"	8' 3"	10' 5"	8' 3"	7' 3"	9' 6"	7' 6"	6' 7"
162S125-33	16	10' 10"	8' 7"	7' 6"	9' 6"	7' 6"	6' 7"	8' 7"	6' 10"	6' 0"
162S125-33	24	9' 6"	7' 6"	6' 7"	8' 3"	6' 7"	5' 9"	7' 6"	6' 0"	5' 2"
250S125-18	12	13' 3"	10' 6"	9' 2"	11' 7"	9' 2"	8' 0"	10' 2" f	8' 4"	7' 3"
250S125-18	16	12' 0"	9' 6"	8' 4"	10' 2" f	8' 4"	7' 3"	8' 10" f	7' 7"	6' 7"
250S125-18	24	10' 2" f	8' 4"	7' 3"	8' 4" f	7' 3"	6' 4"	7' 2" f	6' 7"	5' 9"
250S125-27	12	15' 6"	12' 4"	10' 9"	13' 7"	10' 9"	9' 5"	12' 4"	9' 9"	8' 6"
250S125-27	16	14' 1"	11' 2"	9' 9"	12' 4"	9' 9"	8' 6"	10' 11" f	8' 10"	7' 9"
250S125-27	24	12' 4"	9' 9"	8' 6"	10' 4" f	8' 6"	7' 5"	8' 11" f	7' 9"	6' 9"
250S125-30	12	16' 1"	12' 9"	11' 1"	14' 0"	11' 1"	9' 8"	12' 9"	10' 1"	8' 10"
250S125-30	16	14' 7"	11' 7"	10' 1"	12' 9"	10' 1"	8' 10"	11' 7"	9' 2"	8' 0"
250S125-30	24	12' 9"	10' 1"	8' 10"	11' 0" f	8' 10"	7' 8"	9' 6" f	8' 0"	7' 0"
250S125-33	12	16' 7"	13' 2"	11' 6"	14' 6"	11' 6"	10' 0"	13' 2"	10' 5"	9' 1"
250S125-33	16	15' 1"	11' 11"	10' 5"	13' 2"	10' 5"	9' 1"	11' 11"	9' 6"	8' 3"
250S125-33	24	13' 2"	10' 5"	9' 1"	11' 6"	9' 1"	7' 11"	10' 3" f	8' 3"	7' 3"
250S125-43	12	18' 1"	14' 4"	12' 6"	15' 9"	12' 6"	10' 11"	14' 4"	11' 4"	9' 11"
250S125-43	16	16' 5"	13' 0"	11' 4"	14' 4"	11' 4"	9' 11"	13' 0"	10' 4"	9' 0"
250S125-43	24	14' 4"	11' 4"	9' 11"	12' 6"	9' 11"	8' 8"	11' 4"	9' 0"	7' 10"
362S125-18	12	17' 3"	13' 8"	11' 11"	14' 3" f	11' 11"	10' 5"	12' 4" f	10' 10"	9' 6"
362S125-18	16	15' 1" f	12' 5"	10' 10"	12' 4" f	10' 10"	9' 6"	10' 8" f	9' 10"	8' 7"
362S125-18	24	12' 4" f	10' 10"	9' 6"	10' 1" f	9' 6"	8' 3"	8' 9" f	8' 7"	7' 6"
362S125-27	12	20' 1"	15' 11"	13' 11"	17' 7"	13' 11"	12' 2"	15' 11"	12' 8"	11' 0"
362S125-27	16	18' 3"	14' 6"	12' 8"	15' 11"	12' 8"	11' 0"	13' 10" f	11' 6"	10' 0"
362S125-27	24	15' 11"	12' 8"	11' 0"	13' 1" f	11' 0"	9' 8"	11' 4" f	10' 0"	8' 9"
362S125-30	12	20' 10"	16' 6"	14' 5"	18' 2"	14' 5"	12' 7"	16' 6"	13' 1"	11' 5"
362S125-30	16	18' 11"	15' 0"	13' 1"	16' 6"	13' 1"	11' 5"	14' 9" f	11' 11"	10' 5"
362S125-30	24	16' 6"	13' 1"	11' 5"	13' 11" f	11' 5"	10' 0"	12' 1" f	10' 5"	9' 1"
362S125-33	12	21' 6"	17' 1"	14' 11"	18' 9"	14' 11"	13' 0"	17' 1"	13' 6"	11' 10"
362S125-33	16	19' 6"	15' 6"	13' 6"	17' 1"	13' 6"	11' 10"	15' 6"	12' 4"	10' 9"
362S125-33	24	17' 1"	13' 6"	11' 10"	14' 11"	11' 10"	10' 4"	12' 11" f	10' 9"	9' 4"
362S125-43	12	23' 5"	18' 7"	16' 3"	20' 6"	16' 3"	14' 2"	18' 7"	14' 9"	12' 11"
362S125-43	16	21' 3"	16' 11"	14' 9"	18' 7"	14' 9"	12' 11"	16' 11"	13' 5"	11' 8"
362S125-43	24	18' 7"	14' 9"	12' 11"	16' 3"	12' 11"	11' 3"	14' 9"	11' 8"	10' 3"
362S125-54 (50 ksi)	12	25' 1"	19' 11"	17' 4"	21' 11"	17' 4"	15' 2"	19' 11"	15' 9"	13' 9"
362S125-54 (50 ksi)	16	22' 9"	18' 1"	15' 9"	19' 11"	15' 9"	13' 9"	18' 1"	14' 4"	12' 6"
362S125-54 (50 ksi)	24	19' 11"	15' 9"	13' 9"	17' 4"	13' 9"	12' 0"	15' 9"	12' 6"	10' 11"
362S125-68 (50 ksi)	12	26' 10"	21' 3"	18' 7"	23' 5"	18' 7"	16' 3"	21' 3"	16' 10"	14' 9"
362S125-68 (50 ksi)	16	24' 4"	19' 4"	16' 10"	21' 3"	16' 10"	14' 9"	19' 4"	15' 4"	13' 5"
362S125-68 (50 ksi)	24	21' 3"	16' 10"	14' 9"	18' 7"	14' 9"	12' 10"	16' 10"	13' 5"	11' 8"

f: Flexural stress controls allowable wall height

SSMA

Limiting Wall Height Tables — Non-Composite

Interior Non-Structural Non-Composite

(S) Stud Member	Spacing (in) o.c.	5 psf L/120	5 psf L/240	5 psf L/360	7.5 psf L/120	7.5 psf L/240	7.5 psf L/360	10 psf L/120	10 psf L/240	10 psf L/360
400S125-18	12	18' 8" f	15' 1"	13' 2"	15' 2" f	13' 2"	11' 6"	13' 2" f	12' 0"	10' 6"
400S125-18	16	16' 2" f	13' 9"	12' 0"	13' 2" f	12' 0"	10' 6"	11' 5" f	10' 11"	9' 6"
400S125-18	24	13' 2" f	12' 0"	10' 6"	10' 9" f	10' 6"	9' 2"	9' 4" f	9' 4" f	8' 4"
400S125-27	12	22' 4"	17' 8"	15' 5"	19' 6"	15' 5"	13' 6"	17' 8" f	14' 0"	12' 3"
400S125-27	16	20' 3"	16' 1"	14' 0"	17' 8" f	14' 0"	12' 3"	15' 3" f	12' 9"	11' 2"
400S125-27	24	17' 8" f	14' 0"	12' 3"	14' 5" f	12' 3"	10' 8"	12' 6" f	11' 2"	9' 9"
400S125-30	12	23' 1"	18' 4"	16' 0"	20' 2"	16' 0"	14' 0"	18' 4"	14' 7"	12' 8"
400S125-30	16	21' 0"	16' 8"	14' 7"	18' 4"	14' 7"	12' 8"	16' 3" f	13' 3"	11' 6"
400S125-30	24	18' 4"	14' 7"	12' 8"	15' 4" f	12' 8"	11' 1"	13' 3" f	11' 6"	10' 1"
400S125-33	12	23' 11"	18' 11"	16' 7"	20' 10"	16' 7"	14' 5"	18' 11"	15' 0"	13' 2"
400S125-33	16	21' 8"	17' 3"	15' 0"	18' 11"	15' 0"	13' 2"	17' 3"	13' 8"	11' 11"
400S125-33	24	18' 11"	15' 0"	13' 2"	16' 5" f	13' 2"	11' 6"	14' 2" f	11' 11"	10' 5"
400S125-43	12	26' 0"	20' 8"	18' 0"	22' 9"	18' 0"	15' 9"	20' 8"	16' 5"	14' 4"
400S125-43	16	23' 8"	18' 9"	16' 5"	20' 8"	16' 5"	14' 4"	18' 9"	14' 11"	13' 0"
400S125-43	24	20' 8"	16' 5"	14' 4"	18' 0"	14' 4"	12' 6"	16' 5"	13' 0"	11' 4"
400S125-54 (50 ksi)	12	27' 10"	22' 1"	19' 4"	24' 4"	19' 4"	16' 10"	22' 1"	17' 6"	15' 4"
400S125-54 (50 ksi)	16	25' 4"	20' 1"	17' 6"	22' 1"	17' 6"	15' 4"	20' 1"	15' 11"	13' 11"
400S125-54 (50 ksi)	24	22' 1"	17' 6"	15' 4"	19' 4"	15' 4"	13' 4"	17' 6"	13' 11"	12' 2"
400S125-68 (50 ksi)	12	29' 10"	23' 8"	20' 8"	26' 0"	20' 8"	18' 1"	23' 8"	18' 9"	16' 5"
400S125-68 (50 ksi)	16	27' 1"	21' 6"	18' 9"	23' 8"	18' 9"	16' 5"	21' 6"	17' 1"	14' 11"
400S125-68 (50 ksi)	24	23' 8"	18' 9"	16' 5"	20' 8"	16' 5"	14' 4"	18' 9"	14' 11"	13' 0"
600S125-27	12	31' 0" f	24' 8"	21' 6"	25' 4" f	21' 6"	18' 9"	21' 11" f	19' 6"	17' 1"
600S125-27	16	26' 10" f	22' 4"	19' 6"	21' 11" f	19' 6"	17' 1"	19' 0" f	17' 9"	15' 6"
600S125-27	24	21' 11" f	19' 6"	17' 1"	17' 11" f	17' 1"	14' 11"	15' 6" f	15' 6" f	13' 6"
600S125-30	12	32' 0"	25' 5"	22' 2"	27' 10" f	22' 2"	19' 5"	24' 1" f	20' 2"	17' 7"
600S125-30	16	29' 1"	23' 1"	20' 2"	24' 1" f	20' 2"	17' 7"	20' 10" f	18' 4"	16' 0"
600S125-30	24	24' 1" f	20' 2"	17' 7"	19' 8" f	17' 7"	15' 5"	17' 0" f	16' 0"	14' 0"
600S125-33	12	33' 1"	26' 3"	22' 11"	28' 11"	22' 11"	20' 1"	26' 3"	20' 10"	18' 3"
600S125-33	16	30' 1"	23' 11"	20' 10"	26' 3"	20' 10"	18' 3"	23' 2" f	18' 11"	16' 6"
600S125-33	24	26' 3"	20' 10"	18' 3"	21' 10" f	18' 3"	15' 11"	18' 11" f	16' 6"	14' 5"
600S125-43	12	36' 1"	28' 8"	25' 0"	31' 7"	25' 0"	21' 10"	28' 8"	22' 9"	19' 10"
600S125-43	16	32' 10"	26' 0"	22' 9"	28' 8"	22' 9"	19' 10"	26' 0"	20' 8"	18' 0"
600S125-43	24	28' 8"	22' 9"	19' 10"	25' 0"	19' 10"	17' 4"	22-7" f	18' 0"	15' 9"
600S125-54 (50 ksi)	12	38' 8"	30' 9"	26' 10"	33' 10"	26' 10"	23' 5"	30' 9"	24' 4"	21' 3"
600S125-54 (50 ksi)	16	35' 2"	27' 11"	24' 4"	30' 9"	24' 4"	21' 3"	27' 11"	22' 2"	19' 4"
600S125-54 (50 ksi)	24	30' 9"	24' 4"	21' 3"	26' 10"	21' 3"	18' 7"	24' 4"	19' 4"	16' 11"
600S125-68 (50 ksi)	12	41' 6"	32' 11"	28' 9"	36' 3"	28' 9"	25' 1"	32' 11"	26' 2"	22' 10"
600S125-68 (50 ksi)	16	37' 8"	29' 11"	26' 2"	32' 11"	26' 2"	22' 10"	29' 11"	23' 9"	20' 9"
600S125-68 (50 ksi)	24	32' 11"	26' 2"	22' 10"	28' 9"	22' 10"	19' 11"	26' 2"	20' 9"	18' 1"
800S125-43	12	45' 11"	36' 5"	31' 10"	40' 1"	31' 10"	27' 9"	36' 5"	28' 11"	25' 3"
800S125-43	16	41' 8"	33' 1"	28' 11"	36' 5"	28' 11"	25' 3"	33' 1"	26' 3"	22' 11"
800S125-43	24	36' 5"	28' 11"	25' 3"	31' 10"	25' 3"	22' 0"	28' 0" f	22' 11"	20' 0"
800S125-54 (50 ksi)	12	49' 3"	39' 1"	34' 1"	43' 0"	34' 1"	29' 10"	39' 1"	31' 0"	27' 1"
800S125-54 (50 ksi)	16	44' 9"	35' 6"	31' 0"	39' 1"	31' 0"	27' 1"	35' 6"	28' 2"	24' 7"
800S125-54 (50 ksi)	24	39' 1"	31' 0"	27' 1"	34' 1"	27' 1"	23' 8"	31' 0"	24' 7"	21' 6"
800S125-68 (50 ksi)	12	52' 10"	41' 11"	36' 8"	46' 2"	36' 8"	32' 0"	41' 11"	33' 3"	29' 1"
800S125-68 (50 ksi)	16	48' 0"	38' 1"	33' 3"	41' 11"	33' 3"	29' 1"	38' 1"	30' 3"	26' 5"
800S125-68 (50 ksi)	24	41' 11"	33' 3"	29' 1"	36' 8"	29' 1"	25' 5"	33' 3"	26' 5"	23' 1"

f: Flexural stress controls allowable wall height

See Interior Non-Structural Non-Composite Table Notes on page 14

Limiting Wall Heights — Curtain Wall

Wall Height Table Notes

1. Lateral loads multiplied by 0.75 for strength determination per AISI A5.1.3.
2. Check end reactions for web crippling.
3. Limiting heights based on continuous support of each flange over the full length of the stud.
4. Heights based on steel properties only.
5. Values based on F_y = 33 ksi.

(S) Stud Member	Spacing (in) o.c.	5 psf			15 psf			20 psf			25 psf			30 psf			35 psf			40 psf			50 psf		
		L/120	L/240	L/360	L/240	L/360	L/600	L/240	L/360	L/600	L/240	L/360	L/600	L/240	L/360	L/600	L/240	L/360	L/600	L/240	L/360	L/600	L/240	L/360	L/600
350S162-33	12	23' 8"	18' 9"	16' 5"	13' 0"	11' 4"	9' 7"	11' 10"	10' 4"	8' 8"	11' 0"	9' 7"	8' 1"	10' 4"	9' 0"	7' 7"	9' 10"	8' 7"	7' 2"	9' 4"	8' 2"	6' 11"	8' 8"	7' 7"	6' 5"
350S162-33	16	21' 6"	17' 1"	14' 11"	11' 10"	10' 4"	8' 8"	10' 9"	9' 4"	7' 11"	9' 11"	8' 8"	7' 4"	9' 4"	8' 2"	6' 11"	8' 11"	7' 9"	6' 7"	8' 6"	7' 5"	6' 3"	7' 11"	6' 11"	5' 10"
350S162-33	24	18' 9"	14' 11"	13' 0"	10' 4"	9' 0"	7' 7"	9' 4"	8' 2"	6' 11"	8' 8"	7' 7"	6' 5"	8' 2"	7' 2"	6' 0"	7' 9"	6' 9"	5' 9"	7' 5"	6' 6"	5' 6"	6' 11"	6' 0"	5' 1"
350S162-43	12	25' 9"	20' 5"	17' 10"	14' 2"	12' 4"	10' 5"	12' 10"	11' 3"	9' 6"	11' 11"	10' 5"	8' 9"	11' 3"	9' 10"	8' 3"	10' 8"	9' 4"	7' 10"	10' 2"	8' 11"	7' 6"	9' 6"	8' 3"	7' 0"
350S162-43	16	23' 5"	18' 7"	16' 2"	12' 10"	11' 3"	9' 6"	11' 8"	10' 2"	8' 7"	10' 10"	9' 6"	8' 0"	10' 2"	8' 11"	7' 6"	9' 8"	8' 5"	7' 1"	9' 3"	8' 1"	6' 10"	8' 7"	7' 6"	6' 4"
350S162-43	24	20' 5"	16' 2"	14' 2"	11' 3"	9' 10"	8' 3"	10' 2"	8' 11"	7' 6"	9' 6"	8' 3"	7' 0"	8' 11"	7' 9"	6' 7"	8' 5"	7' 5"	6' 3"	8' 1"	7' 1"	5' 11"	7' 6"	6' 7"	5' 6"
350S162-54	12	27' 7"	21' 11"	19' 1"	15' 2"	13' 3"	11' 2"	13' 9"	12' 0"	10' 2"	12' 9"	11' 2"	9' 5"	12' 0"	10' 6"	8' 10"	11' 5"	10' 0"	8' 5"	10' 11"	9' 6"	8' 0"	10' 2"	8' 10"	7' 5"
350S162-54	16	25' 1"	19' 11"	17' 4"	13' 9"	12' 0"	10' 2"	12' 6"	10' 11"	9' 2"	11' 7"	10' 2"	8' 7"	10' 11"	9' 6"	8' 0"	10' 4"	9' 1"	7' 8"	9' 11"	8' 8"	7' 4"	9' 2"	8' 0"	6' 9"
350S162-54	24	21' 11"	17' 4"	15' 2"	12' 0"	10' 6"	8' 10"	10' 11"	9' 6"	8' 0"	10' 2"	8' 10"	7' 5"	9' 6"	8' 4"	7' 0"	9' 1"	7' 11"	6' 8"	8' 8"	7' 7"	6' 4"	8' 0"	7' 0"	5' 11"
350S162-68	12	29' 6"	23' 5"	20' 5"	16' 3"	14' 2"	11' 11"	14' 9"	12' 10"	10' 10"	13' 8"	11' 11"	10' 1"	12' 10"	11' 3"	9' 6"	12' 3"	10' 8"	9' 0"	11' 8"	10' 2"	8' 7"	10' 10"	9' 6"	8' 0"
350S162-68	16	26' 10"	21' 3"	18' 7"	14' 9"	12' 10"	10' 10"	13' 5"	11' 8"	9' 10"	12' 5"	10' 10"	9' 2"	11' 8"	10' 2"	8' 7"	11' 1"	9' 8"	8' 2"	10' 7"	9' 3"	7' 10"	9' 10"	8' 7"	7' 3"
350S162-68	24	23' 5"	18' 7"	16' 3"	12' 10"	11' 3"	9' 6"	11' 8"	10' 2"	8' 7"	10' 10"	9' 6"	8' 0"	10' 2"	8' 11"	7' 6"	9' 8"	8' 6"	7' 2"	9' 3"	8' 1"	6' 10"	8' 7"	7' 6"	6' 4"
362S137-33	12	23' 2"	18' 5"	16' 1"	12' 9"	11' 2"	9' 5"	11' 7"	10' 1"	8' 6"	10' 9"	9' 5"	7' 11"	10' 1"	8' 10"	7' 5"	9' 7"	8' 5"	7' 1"	9' 2"	8' 0"	6' 9"	8' 6"	7' 5"	6' 3"
362S137-33	16	21' 1"	16' 9"	14' 7"	11' 7"	10' 1"	8' 6"	10' 6"	9' 2"	7' 9"	9' 9"	8' 6"	7' 2"	9' 2"	8' 0"	6' 9"	8' 9"	7' 7"	6' 5"	8' 4"	7' 3"	6' 2"	7' 9"	6' 9"	5' 8"
362S137-33	24	18' 5"	14' 7"	12' 9"	10' 1"	8' 10"	7' 5"	9' 2"	8' 0"	6' 9"	8' 6"	7' 5"	6' 3"	8' 0"	7' 0"	5' 11"	7' 7"	6' 8"	5' 7"	7' 3"	6' 4"	5' 4"	6' 8"f	5' 11"	5' 0"
362S162-33	12	24' 4"	19' 3"	16' 10"	13' 4"	11' 8"	9' 10"	12' 2"	10' 7"	8' 11"	11' 3"	9' 10"	8' 3"	10' 7"	9' 3"	7' 10"	10' 1"	8' 9"	7' 5"	9' 7"	8' 5"	7' 1"	8' 11"	7' 10"	6' 7"
362S162-33	16	22' 1"	17' 6"	15' 4"	12' 2"	10' 7"	8' 11"	11' 0"	9' 7"	8' 1"	10' 3"	8' 11"	7' 6"	9' 7"	8' 5"	7' 1"	9' 2"	8' 0"	6' 9"	8' 9"	7' 8"	6' 5"	8' 1"	7' 1"	6' 0"
362S162-33	24	19' 3"	15' 4"	13' 4"	10' 7"	9' 3"	7' 10"	9' 7"	8' 5"	7' 1"	8' 11"	7' 10"	6' 7"	8' 5"	7' 4"	6' 2"	8' 0"	7' 0"	5' 10"	7' 8"	6' 8"	5' 7"	7' 1"	6' 2"	5' 2"
362S200-33	12	25' 7"	20' 4"	17' 9"	14' 1"	12' 3"	10' 4"	12' 9"	11' 2"	9' 5"	11' 10"	10' 4"	8' 9"	11' 2"	9' 9"	8' 3"	10' 7"	9' 3"	7' 10"	10' 2"	8' 10"	7' 5"	9' 5"	8' 3"	6' 11"
362S200-33	16	23' 3"	18' 5"	16' 1"	12' 9"	11' 2"	9' 5"	11' 7"	10' 2"	8' 6"	10' 9"	9' 5"	7' 11"	10' 2"	8' 10"	7' 5"	9' 7"	8' 5"	7' 1"	9' 2"	8' 0"	6' 9"	8' 6"	7' 5"	6' 3"
362S200-33	24	20' 4"	16' 1"	14' 1"	11' 2"	9' 9"	8' 3"	10' 2"	8' 10"	7' 5"	9' 5"	8' 3"	6' 11"	8' 10"	7' 9"	6' 6"	8' 5"	7' 4"	6' 2"	8' 0"	7' 0"	5' 11"	7' 5"f	6' 6"	5' 6"
362S137-43	12	25' 3"	20' 0"	17' 6"	13' 10"	12' 1"	10' 3"	12' 7"	11' 0"	9' 3"	11' 8"	10' 3"	8' 7"	11' 0"	9' 7"	8' 1"	10' 5"	9' 1"	7' 8"	10' 0"	8' 9"	7' 4"	9' 3"	8' 1"	6' 10"
362S137-43	16	22' 11"	18' 2"	15' 11"	12' 7"	11' 0"	9' 3"	11' 5"	10' 0"	8' 5"	10' 7"	9' 3"	7' 10"	10' 0"	8' 9"	7' 4"	9' 6"	8' 3"	7' 0"	9' 1"	7' 11"	6' 8"	8' 5"	7' 4"	6' 2"
362S137-43	24	20' 0"	15' 11"	13' 10"	11' 0"	9' 7"	8' 1"	10' 0"	8' 9"	7' 4"	9' 3"	8' 1"	6' 10"	8' 9"	7' 7"	6' 5"	8' 3"	7' 3"	6' 1"	7' 11"	6' 11"	5' 10"	7' 4"	6' 5"	5' 5"
362S162-43	12	26' 6"	21' 0"	18' 4"	14' 7"	12' 8"	10' 8"	13' 3"	11' 6"	9' 9"	12' 3"	10' 8"	9' 0"	11' 6"	10' 1"	8' 6"	10' 11"	9' 7"	8' 1"	10' 6"	9' 2"	7' 8"	9' 9"	8' 6"	7' 2"
362S162-43	16	24' 0"	19' 1"	16' 8"	13' 3"	11' 6"	9' 9"	12' 0"	10' 6"	8' 10"	11' 2"	9' 9"	8' 2"	10' 6"	9' 2"	7' 8"	9' 11"	8' 8"	7' 4"	9' 6"	8' 4"	7' 0"	8' 10"	7' 8"	6' 6"
362S162-43	24	21' 0"	16' 8"	14' 7"	11' 6"	10' 1"	8' 6"	10' 6"	9' 2"	7' 8"	9' 9"	8' 6"	7' 2"	9' 2"	8' 0"	6' 9"	8' 8"	7' 7"	6' 5"	8' 4"	7' 3"	6' 1"	7' 8"	6' 9"	5' 8"
362S200-43	12	27' 11"	22' 2"	19' 4"	15' 4"	13' 5"	11' 4"	13' 11"	12' 2"	10' 3"	12' 11"	11' 4"	9' 6"	12' 2"	10' 8"	9' 0"	11' 7"	10' 1"	8' 6"	11' 1"	9' 8"	8' 2"	10' 3"	9' 0"	7' 7"
362S200-43	16	25' 5"	20' 2"	17' 7"	13' 11"	12' 2"	10' 3"	12' 8"	11' 1"	9' 4"	11' 9"	10' 3"	8' 8"	11' 1"	9' 8"	8' 2"	10' 6"	9' 2"	7' 9"	10' 1"	8' 9"	7' 5"	9' 4"	8' 2"	6' 10"
362S200-43	24	22' 2"	17' 7"	15' 4"	12' 2"	10' 8"	9' 0"	11' 1"	9' 8"	8' 2"	10' 3"	9' 0"	7' 7"	9' 8"	8' 5"	7' 1"	9' 2"	8' 0"	6' 9"	8' 9"	7' 8"	6' 5"	8' 2"	7' 1"	6' 0"
362S137-54	12	27' 0"	21' 5"	18' 9"	14' 10"	13' 0"	10' 11"	13' 6"	11' 9"	9' 11"	12' 6"	10' 11"	9' 3"	11' 9"	10' 3"	8' 8"	11' 2"	9' 9"	8' 3"	10' 8"	9' 4"	7' 10"	9' 11"	8' 8"	7' 4"
362S137-54	16	24' 7"	19' 6"	17' 0"	13' 6"	11' 9"	9' 11"	12' 3"	10' 8"	9' 0"	11' 4"	9' 11"	8' 4"	10' 8"	9' 4"	7' 10"	10' 2"	8' 10"	7' 6"	9' 9"	8' 6"	7' 2"	9' 0"	7' 10"	6' 8"
362S137-54	24	21' 5"	17' 0"	14' 10"	11' 9"	10' 3"	8' 8"	10' 8"	9' 4"	7' 10"	9' 11"	8' 8"	7' 4"	9' 4"	8' 2"	6' 10"	8' 10"	7' 9"	6' 6"	8' 6"	7' 5"	6' 3"	7' 10"	6' 10"	5' 9"
362S162-54	12	28' 4"	22' 6"	19' 8"	15' 7"	13' 7"	11' 6"	14' 2"	12' 4"	10' 5"	13' 2"	11' 6"	9' 8"	12' 4"	10' 9"	9' 1"	11' 9"	10' 3"	8' 8"	11' 3"	9' 10"	8' 3"	10' 5"	9' 1"	7' 8"
362S162-54	16	25' 9"	20' 5"	17' 10"	14' 2"	12' 4"	10' 5"	12' 10"	11' 3"	9' 6"	11' 11"	10' 5"	8' 9"	11' 3"	9' 10"	8' 3"	10' 8"	9' 4"	7' 10"	10' 2"	8' 11"	7' 6"	9' 6"	8' 3"	7' 0"
362S162-54	24	22' 6"	17' 10"	15' 7"	12' 4"	10' 9"	9' 1"	11' 3"	9' 10"	8' 3"	10' 5"	9' 1"	7' 8"	9' 10"	8' 7"	7' 3"	9' 4"	8' 2"	6' 10"	8' 11"	7' 9"	6' 7"	8' 3"	7' 3"	6' 1"
362S200-54	12	30' 0"	23' 9"	20' 9"	16' 6"	14' 5"	12' 1"	15' 0"	13' 1"	11' 0"	13' 11"	12' 1"	10' 3"	13' 1"	11' 5"	9' 7"	12' 5"	10' 10"	9' 2"	11' 10"	10' 4"	8' 9"	11' 0"	9' 7"	8' 1"
362S200-54	16	27' 3"	21' 7"	18' 10"	15' 0"	13' 1"	11' 0"	13' 7"	11' 10"	10' 0"	12' 7"	11' 0"	9' 3"	11' 10"	10' 4"	8' 9"	11' 3"	9' 10"	8' 4"	10' 9"	9' 5"	7' 11"	10' 0"	8' 9"	7' 4"
362S200-54	24	23' 9"	18' 10"	16' 6"	13' 1"	11' 5"	9' 7"	11' 10"	10' 4"	8' 9"	11' 0"	9' 7"	8' 1"	10' 4"	9' 1"	7' 7"	9' 10"	8' 7"	7' 3"	9' 5"	8' 3"	6' 11"	8' 9"	7' 7"	6' 5"
362S137-68	12	28' 11"	22' 11"	20' 0"	15' 10"	13' 10"	11' 8"	14' 5"	12' 7"	10' 7"	13' 5"	11' 8"	9' 10"	12' 7"	11' 0"	9' 3"	11' 11"	10' 5"	8' 10"	11' 5"	10' 0"	8' 5"	10' 7"	9' 3"	7' 10"
362S137-68	16	26' 3"	20' 10"	18' 2"	14' 5"	12' 7"	10' 7"	13' 1"	11' 5"	9' 8"	12' 2"	10' 7"	8' 11"	11' 5"	10' 0"	8' 5"	10' 10"	9' 6"	8' 0"	10' 5"	9' 1"	7' 8"	9' 8"	8' 5"	7' 1"
362S137-68	24	22' 11"	18' 2"	15' 10"	12' 7"	11' 0"	9' 3"	11' 5"	10' 0"	8' 5"	10' 7"	9' 3"	7' 10"	10' 0"	8' 9"	7' 4"	9' 6"	8' 3"	7' 0"	9' 1"	7' 11"	6' 8"	8' 5"	7' 4"	6' 2"
362S162-68	12	30' 4"	24' 1"	21' 0"	16' 8"	14' 7"	12' 3"	15' 2"	13' 3"	11' 2"	14' 1"	12' 3"	10' 4"	13' 3"	11' 7"	9' 9"	12' 7"	11' 0"	9' 3"	12' 0"	10' 6"	8' 10"	11' 2"	9' 9"	8' 2"
362S162-68	16	27' 7"	21' 10"	19' 1"	15' 2"	13' 3"	11' 2"	13' 9"	12' 0"	10' 2"	12' 9"	11' 2"	9' 5"	12' 0"	10' 6"	8' 10"	11' 5"	10' 0"	8' 5"	10' 11"	9' 6"	8' 0"	10' 2"	8' 10"	7' 5"
362S162-68	24	24' 1"	19' 1"	16' 8"	13' 3"	11' 7"	9' 9"	12' 0"	10' 6"	8' 10"	11' 2"	9' 9"	8' 2"	10' 6"	9' 2"	7' 9"	10' 0"	8' 8"	7' 4"	9' 6"	8' 4"	7' 0"	8' 10"	7' 9"	6' 6"
362S200-68	12	32' 1"	25' 6"	22' 3"	17' 8"	15' 5"	13' 0"	16' 0"	14' 0"	11' 10"	14' 10"	13' 0"	10' 11"	14' 0"	12' 3"	10' 4"	13' 3"	11' 7"	9' 9"	12' 9"	11' 1"	9' 4"	11' 10"	10' 4"	8' 8"
362S200-68	16	29' 2"	23' 2"	20' 2"	16' 0"	14' 0"	11' 10"	14' 7"	12' 9"	10' 9"	13' 6"	11' 10"	9' 11"	12' 9"	11' 1"	9' 4"	12' 1"	10' 6"	8' 11"	11' 7"	10' 1"	8' 6"	10' 9"	9' 4"	7' 11"
362S200-68	24	25' 6"	20' 2"	17' 8"	14' 0"	12' 3"	10' 4"	12' 9"	11' 1"	9' 4"	11' 10"	10' 4"	8' 8"	11' 1"	9' 8"	8' 2"	10' 6"	9' 2"	7' 9"	10' 1"	8' 10"	7' 5"	9' 4"	8' 2"	6' 11"

" f " denotes stress controlled section, all other sections are deflection controlled

SSMA

Limiting Wall Heights — Curtain Wall

(S) Stud Member	Spacing (in) o.c.	5 psf			15 psf			20 psf			25 psf			30 psf			35 psf			40 psf			50 psf		
		L/120	L/240	L/360	L/240	L/360	L/600	L/240	L/360	L/600	L/240	L/360	L/600	L/240	L/360	L/600	L/240	L/360	L/600	L/240	L/360	L/600	L/240	L/360	L/600
400S137-33	12	25' 1"	19' 11"	17' 4"	13' 9"	12' 0"	10' 2"	12' 6"	10' 11"	9' 2"	11' 7"	10' 2"	8' 7"	10' 11"	9' 6"	8' 0"	10' 4"	9' 1"	7' 8"	9' 11"	8' 8"	7' 4"	9' 2"	8' 0"	6' 9"
400S137-33	16	22' 9"	18' 1"	15' 9"	12' 6"	10' 11"	9' 2"	11' 4"	9' 11"	8' 4"	10' 7"	9' 2"	7' 9"	9' 11"	8' 8"	7' 4"	9' 5"	8' 3"	6' 11"	9' 0"	7' 10"	6' 8"	8' 4"	7' 4"	6' 2"
400S137-33	24	19' 11"	15' 9"	13' 9"	10' 11"	9' 6"	8' 0"	9' 11"	8' 8"	7' 4"	9' 2"	8' 0"	6' 9"	8' 8"	7' 7"	6' 4"	8' 3"	7' 2"	6' 1"	7' 10"	6' 10"	5' 9"	7' 1"f	6' 4"	5' 4"
400S162-33	12	26' 3"	20' 10"	18' 2"	14' 5"	12' 7"	10' 7"	13' 1"	11' 5"	9' 8"	12' 2"	10' 7"	8' 11"	11' 5"	10' 0"	8' 5"	10' 10"	9' 6"	8' 0"	10' 5"	9' 1"	7' 8"	9' 8"	8' 5"	7' 1"
400S162-33	16	23' 10"	18' 11"	16' 6"	13' 1"	11' 5"	9' 8"	11' 11"	10' 5"	8' 9"	11' 0"	9' 8"	8' 1"	10' 5"	9' 1"	7' 8"	9' 10"	8' 7"	7' 3"	9' 5"	8' 3"	6' 11"	8' 9"	7' 8"	6' 5"
400S162-33	24	20' 10"	16' 6"	14' 5"	11' 5"	10' 0"	8' 5"	10' 5"	9' 1"	7' 8"	9' 8"	8' 5"	7' 1"	9' 1"	7' 11"	6' 8"	8' 7"	7' 6"	6' 4"	8' 3"	7' 2"	6' 1"	7' 7"f	6' 8"	5' 7"
400S200-33	12	27' 7"	21' 11"	19' 1"	15' 2"	13' 3"	11' 2"	13' 9"	12' 0"	10' 2"	12' 9"	11' 2"	9' 5"	12' 0"	10' 6"	8' 10"	11' 5"	10' 0"	8' 5"	10' 11"	9' 6"	8' 0"	10' 2"	8' 10"	7' 6"
400S200-33	16	25' 1"	19' 11"	17' 4"	13' 9"	12' 0"	10' 2"	12' 6"	10' 11"	9' 2"	11' 7"	10' 2"	8' 7"	10' 11"	9' 6"	8' 0"	10' 5"	9' 1"	7' 8"	9' 11"	8' 8"	7' 4"	9' 2"	8' 0"	6' 9"
400S200-33	24	21' 11"	17' 4"	15' 2"	12' 0"	10' 6"	8' 10"	10' 11"	9' 6"	8' 0"	10' 2"	8' 10"	7' 6"	9' 6"	8' 4"	7' 0"	9' 1"	7' 11"	6' 8"	8' 8"	7' 7"	6' 4"	7' 11"f	7' 0"	5' 11"
400S137-43	12	27' 3"	21' 8"	18' 11"	15' 0"	13' 1"	11' 0"	13' 7"	11' 11"	10' 0"	12' 8"	11' 0"	9' 4"	11' 11"	10' 5"	8' 9"	11' 3"	9' 10"	8' 4"	10' 10"	9' 5"	7' 11"	10' 0"	8' 9"	7' 4"
400S137-43	16	24' 9"	19' 8"	17' 2"	13' 7"	11' 11"	10' 0"	12' 4"	10' 10"	9' 1"	11' 6"	10' 0"	8' 5"	10' 10"	9' 5"	7' 11"	10' 3"	8' 11"	7' 7"	9' 10"	8' 7"	7' 3"	9' 1"	7' 11"	6' 8"
400S137-43	24	21' 8"	17' 2"	15' 0"	11' 11"	10' 5"	8' 9"	10' 10"	9' 5"	7' 11"	10' 0"	8' 9"	7' 4"	9' 5"	8' 3"	6' 11"	8' 11"	7' 10"	6' 7"	8' 7"	7' 6"	6' 4"	7' 11"	6' 11"	5' 10"
400S162-43	12	28' 7"	22' 8"	19' 9"	15' 8"	13' 8"	11' 7"	14' 3"	12' 5"	10' 6"	13' 3"	11' 7"	9' 9"	12' 5"	10' 10"	9' 2"	11' 10"	10' 4"	8' 8"	11' 4"	9' 10"	8' 4"	10' 6"	9' 2"	7' 9"
400S162-43	16	25' 11"	20' 7"	18' 0"	14' 3"	12' 5"	10' 6"	12' 11"	11' 4"	9' 6"	12' 0"	10' 6"	8' 10"	11' 4"	9' 10"	8' 4"	10' 9"	9' 5"	7' 11"	10' 3"	9' 0"	7' 7"	9' 6"	8' 4"	7' 0"
400S162-43	24	22' 8"	18' 0"	15' 8"	12' 5"	10' 10"	9' 2"	11' 4"	9' 10"	8' 4"	10' 6"	9' 2"	7' 9"	9' 10"	8' 7"	7' 3"	9' 5"	8' 2"	6' 11"	9' 0"	7' 10"	6' 7"	8' 4"	7' 3"	6' 1"
400S200-43	12	30' 2"	23' 11"	20' 11"	16' 7"	14' 6"	12' 2"	15' 1"	13' 2"	11' 1"	14' 0"	12' 2"	10' 3"	13' 2"	11' 6"	9' 8"	12' 6"	10' 11"	9' 2"	11' 11"	10' 5"	8' 9"	11' 1"	9' 8"	8' 2"
400S200-43	16	27' 4"	21' 9"	19' 0"	15' 1"	13' 2"	11' 1"	13' 8"	11' 11"	10' 1"	12' 8"	11' 1"	9' 4"	11' 11"	10' 5"	8' 9"	11' 4"	9' 11"	8' 4"	10' 10"	9' 6"	8' 0"	10' 1"	8' 9"	7' 5"
400S200-43	24	23' 11"	19' 0"	16' 7"	13' 2"	11' 6"	9' 8"	11' 11"	10' 5"	8' 9"	11' 1"	9' 8"	8' 2"	10' 5"	9' 1"	7' 8"	9' 11"	8' 8"	7' 3"	9' 6"	8' 3"	7' 0"	8' 9"	7' 8"	6' 6"
400S137-54	12	29' 2"	23' 2"	20' 3"	16' 1"	14' 0"	11' 10"	14' 7"	12' 9"	10' 9"	13' 6"	11' 10"	9' 11"	12' 9"	11' 1"	9' 4"	12' 1"	10' 7"	8' 11"	11' 7"	10' 1"	8' 6"	10' 9"	9' 4"	7' 11"
400S137-54	16	26' 6"	21' 1"	18' 5"	14' 7"	12' 9"	10' 9"	13' 3"	11' 7"	9' 9"	12' 3"	10' 9"	9' 1"	11' 7"	10' 1"	8' 6"	11' 0"	9' 7"	8' 1"	10' 6"	9' 2"	7' 9"	9' 9"	8' 6"	7' 2"
400S137-54	24	23' 2"	18' 5"	16' 1"	12' 9"	11' 1"	9' 4"	11' 7"	10' 1"	8' 6"	10' 9"	9' 4"	7' 11"	10' 1"	8' 10"	7' 5"	9' 7"	8' 4"	7' 1"	9' 2"	8' 0"	6' 9"	8' 6"	7' 5"	6' 3"
400S162-54	12	30' 7"	24' 3"	21' 2"	16' 10"	14' 8"	12' 5"	15' 3"	13' 4"	11' 3"	14' 2"	12' 5"	10' 5"	13' 4"	11' 8"	9' 10"	12' 8"	11' 1"	9' 4"	12' 1"	10' 7"	8' 11"	11' 3"	9' 10"	8' 3"
400S162-54	16	27' 10"	22' 1"	19' 3"	15' 3"	13' 4"	11' 3"	13' 11"	12' 1"	10' 3"	12' 11"	11' 3"	9' 6"	12' 1"	10' 7"	8' 11"	11' 6"	10' 1"	8' 6"	11' 0"	9' 7"	8' 1"	10' 3"	8' 11"	7' 6"
400S162-54	24	24' 3"	19' 3"	16' 10"	13' 4"	11' 8"	9' 10"	12' 1"	10' 7"	8' 11"	11' 3"	9' 10"	8' 3"	10' 7"	9' 3"	7' 9"	10' 1"	8' 9"	7' 5"	9' 7"	8' 5"	7' 1"	8' 11"	7' 9"	6' 7"
400S200-54	12	32' 4"	25' 8"	22' 5"	17' 9"	15' 6"	13' 1"	16' 2"	14' 1"	11' 11"	15' 0"	13' 1"	11' 0"	14' 1"	12' 4"	10' 4"	13' 5"	11' 8"	9' 10"	12' 10"	11' 2"	9' 5"	11' 11"	10' 4"	8' 9"
400S200-54	16	29' 4"	23' 4"	20' 4"	16' 2"	14' 1"	11' 11"	14' 8"	12' 10"	10' 9"	13' 7"	11' 11"	10' 0"	12' 10"	11' 2"	9' 5"	12' 2"	10' 7"	8' 11"	11' 8"	10' 2"	8' 7"	10' 9"	9' 5"	7' 11"
400S200-54	24	25' 8"	20' 4"	17' 9"	14' 1"	12' 4"	10' 4"	12' 10"	11' 2"	9' 5"	11' 11"	10' 4"	8' 9"	11' 2"	9' 9"	8' 3"	10' 7"	9' 3"	7' 10"	10' 2"	8' 10"	7' 6"	9' 5"	8' 3"	6' 11"
400S137-68	12	31' 3"	24' 9"	21' 8"	17' 2"	15' 0"	12' 8"	15' 7"	13' 7"	11' 6"	14' 6"	12' 8"	10' 8"	13' 7"	11' 11"	10' 0"	12' 11"	11' 3"	9' 6"	12' 4"	10' 10"	9' 1"	11' 6"	10' 0"	8' 5"
400S137-68	16	28' 4"	22' 6"	19' 8"	15' 7"	13' 7"	11' 6"	14' 2"	12' 4"	10' 5"	13' 2"	11' 6"	9' 8"	12' 4"	10' 10"	9' 1"	11' 9"	10' 3"	8' 8"	11' 3"	9' 10"	8' 3"	10' 5"	9' 1"	7' 8"
400S137-68	24	24' 9"	19' 8"	17' 2"	13' 7"	11' 11"	10' 0"	12' 4"	10' 10"	9' 1"	11' 6"	10' 0"	8' 5"	10' 10"	9' 5"	7' 11"	10' 3"	8' 11"	7' 7"	9' 10"	8' 7"	7' 3"	9' 1"	7' 11"	6' 8"
400S162-68	12	32' 9"	26' 0"	22' 8"	18' 0"	15' 9"	13' 3"	16' 4"	14' 3"	12' 1"	15' 2"	13' 3"	11' 2"	14' 3"	12' 6"	10' 6"	13' 7"	11' 10"	10' 0"	13' 0"	11' 4"	9' 7"	12' 1"	10' 6"	8' 10"
400S162-68	16	29' 9"	23' 7"	20' 7"	16' 4"	14' 3"	12' 1"	14' 10"	13' 0"	10' 11"	13' 10"	12' 1"	10' 2"	13' 0"	11' 4"	9' 7"	12' 4"	10' 9"	9' 1"	11' 9"	10' 3"	8' 8"	10' 11"	9' 7"	8' 1"
400S162-68	24	26' 0"	20' 7"	18' 0"	14' 3"	12' 6"	10' 6"	13' 0"	11' 4"	9' 7"	12' 1"	10' 6"	8' 10"	11' 4"	9' 11"	8' 4"	10' 9"	9' 5"	7' 11"	10' 3"	9' 0"	7' 7"	9' 7"	8' 4"	7' 0"
400S200-68	12	34' 8"	27' 6"	24' 0"	19' 0"	16' 8"	14' 0"	17' 4"	15' 1"	12' 9"	16' 1"	14' 0"	11' 10"	15' 1"	13' 2"	11' 1"	14' 4"	12' 6"	10' 7"	13' 9"	12' 0"	10' 1"	12' 9"	11' 1"	9' 4"
400S200-68	16	31' 5"	25' 0"	21' 10"	17' 4"	15' 1"	12' 9"	15' 8"	13' 9"	11' 7"	14' 7"	12' 9"	10' 9"	13' 9"	12' 0"	10' 1"	13' 0"	11' 5"	9' 7"	12' 6"	10' 11"	9' 2"	11' 7"	10' 1"	8' 6"
400S200-68	24	27' 6"	21' 10"	19' 0"	15' 1"	13' 2"	11' 1"	13' 9"	12' 0"	10' 1"	12' 9"	11' 1"	9' 4"	12' 0"	10' 5"	8' 10"	11' 5"	9' 11"	8' 4"	10' 11"	9' 6"	8' 0"	10' 1"	8' 10"	7' 5"
550S162-33	12	33' 8"	26' 8"	23' 4"	18' 6"	16' 2"	13' 7"	16' 10"	14' 8"	12' 4"	15' 7"	13' 7"	11' 6"	14' 8"	12' 10"	10' 10"	13' 11"	12' 2"	10' 3"	13' 4"	11' 8"	9' 10"	12' 4"	10' 10"	9' 1"
550S162-33	16	30' 7"	24' 3"	21' 2"	16' 10"	14' 8"	12' 4"	15' 3"	13' 4"	11' 3"	14' 2"	12' 4"	10' 5"	13' 4"	11' 8"	9' 10"	12' 8"	11' 1"	9' 4"	12' 1"	10' 7"	8' 11"	11' 3"	9' 10"	8' 3"
550S162-33	24	26' 8"	21' 2"	18' 6"	14' 8"	12' 10"	10' 10"	13' 4"	11' 8"	9' 10"	12' 4"	10' 10"	9' 1"	11' 8"	10' 2"	8' 7"	11' 1"	9' 8"	8' 2"	10' 7"f	9' 3"	7' 9"	9' 5"f	8' 7"	7' 3"
550S162-43	12	36' 8"	29' 1"	25' 5"	20' 2"	17' 7"	14' 10"	18' 4"	16' 0"	13' 6"	17' 0"	14' 10"	12' 6"	16' 0"	13' 11"	11' 9"	15' 2"	13' 3"	11' 2"	14' 6"	12' 8"	10' 8"	13' 6"	11' 9"	9' 11"
550S162-43	16	33' 3"	26' 5"	23' 1"	18' 4"	16' 0"	13' 6"	16' 7"	14' 6"	12' 3"	15' 5"	13' 6"	11' 4"	14' 6"	12' 8"	10' 8"	13' 9"	12' 0"	10' 2"	13' 2"	11' 6"	9' 8"	12' 3"	10' 8"	9' 0"
550S162-43	24	29' 1"	23' 1"	20' 2"	16' 0"	13' 11"	11' 9"	14' 6"	12' 8"	10' 8"	13' 6"	11' 9"	9' 11"	12' 8"	11' 1"	9' 4"	12' 0"	10' 6"	8' 10"	11' 6"	10' 1"	8' 6"	10' 8"	9' 4"	7' 10"
550S162-54	12	39' 4"	31' 2"	27' 3"	21' 7"	18' 11"	15' 11"	19' 8"	17' 2"	14' 5"	18' 3"	15' 11"	13' 5"	17' 2"	15' 0"	12' 7"	16' 3"	14' 3"	12' 0"	15' 7"	13' 7"	11' 6"	14' 5"	12' 7"	10' 8"
550S162-54	16	35' 9"	28' 4"	24' 9"	19' 8"	17' 2"	14' 5"	17' 10"	15' 7"	13' 2"	16' 7"	14' 5"	12' 2"	15' 7"	13' 7"	11' 6"	14' 10"	12' 11"	10' 11"	14' 2"	12' 4"	10' 5"	13' 2"	11' 6"	9' 8"
550S162-54	24	31' 2"	24' 9"	21' 7"	17' 2"	15' 0"	12' 7"	15' 7"	13' 7"	11' 6"	14' 5"	12' 7"	10' 8"	13' 7"	11' 11"	10' 0"	12' 11"	11' 3"	9' 6"	12' 4"	10' 9"	9' 1"	11' 6"	10' 0"	8' 5"
550S162-68	12	42' 2"	33' 5"	29' 2"	23' 2"	20' 3"	17' 1"	21' 1"	18' 5"	15' 6"	19' 6"	17' 1"	14' 5"	18' 5"	16' 1"	13' 6"	17' 5"	15' 3"	12' 10"	16' 8"	14' 7"	12' 3"	15' 6"	13' 6"	11' 5"
550S162-68	16	38' 3"	30' 4"	26' 6"	21' 1"	18' 5"	15' 6"	19' 1"	16' 8"	14' 1"	17' 9"	15' 6"	13' 1"	16' 8"	14' 7"	12' 3"	15' 10"	13' 10"	11' 8"	15' 2"	13' 3"	11' 2"	14' 1"	12' 3"	10' 4"
550S162-68	24	33' 5"	26' 6"	23' 2"	18' 5"	16' 1"	13' 6"	16' 8"	14' 7"	12' 3"	15' 6"	13' 6"	11' 5"	14' 7"	12' 9"	10' 9"	13' 10"	12' 1"	10' 2"	13' 3"	11' 7"	9' 9"	12' 3"	10' 9"	9' 1"

" f " denotes stress controlled section, all other sections are deflection controlled

See page 16 for Wall Height Table Notes

SSMA

Limiting Wall Heights — Curtain Wall

(S) Stud Member	Spacing (in) o.c.	5 psf			15 psf			20 psf			25 psf			30 psf			35 psf			40 psf			50 psf		
		L/120	L/240	L/360	L/240	L/360	L/600	L/240	L/360	L/600	L/240	L/360	L/600	L/240	L/360	L/600	L/240	L/360	L/600	L/240	L/360	L/600	L/240	L/360	L/600
600S137-33	12	34' 7"	27' 5"	24' 0"	19' 0"	16' 7"	14' 0"	17' 3"	15' 1"	12' 9"	16' 0"	14' 0"	11' 10"	15' 1"	13' 2"	11' 1"	14' 4"	12' 6"	10' 6"	13' 8"	12' 0"	10' 1"	12' 9"	11' 1"	9' 4"
600S137-33	16	31' 5"	24' 11"	21' 9"	17' 3"	15' 1"	12' 9"	15' 8"	13' 8"	11' 7"	14' 7"	12' 9"	10' 9"	13' 8"	12' 0"	10' 1"	13' 0"	11' 4"	9' 7"	12' 5"	10' 10"	9' 2"	11' 7"	10' 1"	8' 6"
600S137-33	24	27' 5"	21' 9"	19' 0"	15' 1"	13' 2"	11' 1"	13' 8"	12' 0"	10' 1"	12' 9"	11' 1"	9' 4"	12' 0"	10' 5"	8' 10"	11' 3"f	9' 11"	8' 4"	10' 6"f	9' 6"	8' 0"	9' 5"f	8' 10"	7' 5"
600S162-33	12	36' 1"	28' 7"	25' 0"	19' 10"	17' 4"	14' 7"	18' 0"	15' 9"	13' 3"	16' 9"	14' 7"	12' 4"	15' 9"	13' 9"	11' 7"	14' 11"	13' 0"	11' 0"	14' 3"	12' 6"	10' 6"	13' 3"	11' 7"	9' 9"
600S162-33	16	32' 9"	26' 0"	22' 8"	18' 0"	15' 9"	13' 3"	16' 4"	14' 3"	12' 0"	15' 2"	13' 3"	11' 2"	14' 3"	12' 6"	10' 6"	13' 7"	11' 10"	10' 0"	13' 0"	11' 4"	9' 7"	12' 0"	10' 6"	8' 10"
600S162-33	24	28' 7"	22' 8"	19' 10"	15' 9"	13' 9"	11' 7"	14' 3"	12' 6"	10' 6"	13' 3"	11' 7"	9' 9"	12' 6"	10' 11"	9' 2"	11' 10"	10' 4"	8' 9"	11' 3"f	9' 11"	8' 4"	10' 0"f	9' 2"	7' 9"
600S200-33	12	37' 9"	29' 11"	26' 2"	20' 9"	18' 2"	15' 3"	18' 10"	16' 6"	13' 11"	17' 6"	15' 3"	12' 11"	16' 6"	14' 5"	12' 1"	15' 8"	13' 8"	11' 6"	14' 11"	13' 1"	11' 0"	13' 11"	12' 1"	10' 3"
600S200-33	16	34' 4"	27' 3"	23' 9"	18' 10"	16' 6"	13' 11"	17' 2"	14' 11"	12' 7"	15' 11"	13' 11"	11' 8"	14' 11"	13' 1"	11' 0"	14' 2"	12' 5"	10' 5"	13' 7"	11' 10"	10' 0"	12' 7"	11' 0"	9' 3"
600S200-33	24	29' 11"	23' 9"	20' 9"	16' 6"	14' 5"	12' 1"	14' 11"	13' 1"	11' 0"	13' 11"	12' 1"	10' 3"	13' 1"	11' 5"	9' 7"	12' 5"f	10' 10"	9' 2"	11' 7"f	10' 4"	8' 9"	10' 4"f	9' 7"	8' 1"
600S137-43	12	37' 8"	29' 10"	26' 1"	20' 8"	18' 1"	15' 3"	18' 10"	16' 5"	13' 10"	17' 5"	15' 3"	12' 10"	16' 5"	14' 4"	12' 1"	15' 7"	13' 7"	11' 6"	14' 11"	13' 0"	11' 0"	13' 10"	12' 1"	10' 2"
600S137-43	16	34' 2"	27' 2"	23' 8"	18' 10"	16' 5"	13' 10"	17' 1"	14' 11"	12' 7"	15' 10"	13' 10"	11' 8"	14' 11"	13' 0"	11' 0"	14' 2"	12' 4"	10' 5"	13' 7"	11' 10"	10' 0"	12' 7"	11' 0"	9' 3"
600S137-43	24	29' 10"	23' 8"	20' 8"	16' 5"	14' 4"	12' 1"	14' 11"	13' 0"	11' 0"	13' 10"	12' 1"	10' 2"	13' 0"	11' 4"	9' 7"	12' 4"	10' 10"	9' 1"	11' 10"	10' 4"	8' 8"	11' 0"	9' 7"	8' 1"
600S162-43	12	39' 3"	31' 2"	27' 3"	21' 7"	18' 10"	15' 11"	19' 7"	17' 2"	14' 5"	18' 2"	15' 11"	13' 5"	17' 2"	14' 11"	12' 7"	16' 3"	14' 2"	12' 0"	15' 7"	13' 7"	11' 5"	14' 5"	12' 7"	10' 8"
600S162-43	16	35' 8"	28' 4"	24' 9"	19' 7"	17' 2"	14' 5"	17' 10"	15' 7"	13' 1"	16' 6"	14' 5"	12' 2"	15' 7"	13' 7"	11' 5"	14' 9"	12' 11"	10' 11"	14' 2"	12' 4"	10' 5"	13' 1"	11' 5"	9' 8"
600S162-43	24	31' 2"	24' 9"	21' 7"	17' 2"	14' 11"	12' 7"	15' 7"	13' 7"	11' 5"	14' 5"	12' 7"	10' 8"	13' 7"	11' 10"	10' 0"	12' 11"	11' 3"	9' 6"	12' 4"	10' 9"	9' 1"	11' 5"	10' 0"	8' 5"
600S200-43	12	41' 3"	32' 9"	28' 7"	22' 8"	19' 10"	16' 8"	20' 7"	18' 0"	15' 2"	19' 1"	16' 8"	14' 1"	18' 0"	15' 9"	13' 3"	17' 1"	14' 11"	12' 7"	16' 4"	14' 3"	12' 0"	15' 2"	13' 3"	11' 2"
600S200-43	16	37' 6"	29' 9"	26' 0"	20' 7"	18' 0"	15' 2"	18' 9"	16' 4"	13' 9"	17' 4"	15' 2"	12' 9"	16' 4"	14' 3"	12' 0"	15' 6"	13' 7"	11' 5"	14' 10"	13' 0"	10' 11"	13' 9"	12' 0"	10' 2"
600S200-43	24	32' 9"	26' 0"	22' 8"	18' 0"	15' 9"	13' 3"	16' 4"	14' 3"	12' 0"	15' 2"	13' 3"	11' 2"	14' 3"	12' 6"	10' 6"	13' 7"	11' 10"	10' 0"	13' 0"	11' 4"	9' 6"	12' 0"	10' 6"	8' 10"
600S137-54	12	40' 4"	32' 0"	28' 0"	22' 2"	19' 5"	16' 4"	20' 2"	17' 7"	14' 10"	18' 9"	16' 4"	13' 9"	17' 7"	15' 5"	13' 0"	16' 9"	14' 7"	12' 4"	16' 0"	14' 0"	11' 9"	14' 10"	13' 0"	10' 11"
600S137-54	16	36' 8"	29' 1"	25' 5"	20' 2"	17' 7"	14' 10"	18' 4"	16' 0"	13' 6"	17' 0"	14' 10"	12' 6"	16' 0"	14' 0"	11' 9"	15' 2"	13' 3"	11' 2"	14' 6"	12' 8"	10' 8"	13' 6"	11' 9"	9' 11"
600S137-54	24	32' 0"	25' 5"	22' 2"	17' 7"	15' 5"	13' 0"	16' 0"	14' 0"	11' 9"	14' 10"	13' 0"	10' 11"	14' 0"	12' 2"	10' 3"	13' 3"	11' 7"	9' 9"	12' 8"	11' 1"	9' 4"	11' 9"	10' 3"	8' 8"
600S162-54	12	42' 2"	33' 5"	29' 2"	23' 2"	20' 3"	17' 1"	21' 1"	18' 5"	15' 6"	19' 6"	17' 1"	14' 5"	18' 5"	16' 1"	13' 6"	17' 5"	15' 3"	12' 10"	16' 8"	14' 7"	12' 3"	15' 6"	13' 6"	11' 5"
600S162-54	16	38' 3"	30' 4"	26' 6"	21' 1"	18' 5"	15' 6"	19' 1"	16' 8"	14' 1"	17' 9"	15' 6"	13' 1"	16' 8"	14' 7"	12' 3"	15' 10"	13' 10"	11' 8"	15' 2"	13' 3"	11' 2"	14' 1"	12' 3"	10' 4"
600S162-54	24	33' 5"	26' 6"	23' 2"	18' 5"	16' 1"	13' 6"	16' 8"	14' 7"	12' 3"	15' 6"	13' 6"	11' 5"	14' 7"	12' 9"	10' 9"	13' 10"	12' 1"	10' 2"	13' 3"	11' 7"	9' 9"	12' 3"	10' 9"	9' 1"
600S200-54	12	44' 3"	35' 2"	30' 8"	24' 4"	21' 3"	17' 11"	22' 1"	19' 4"	16' 3"	20' 6"	17' 11"	15' 1"	19' 4"	16' 10"	14' 3"	18' 4"	16' 0"	13' 6"	17' 7"	15' 4"	12' 11"	16' 3"	14' 3"	12' 0"
600S200-54	16	40' 3"	31' 11"	27' 11"	22' 1"	19' 4"	16' 3"	20' 1"	17' 7"	14' 10"	18' 8"	16' 3"	13' 9"	17' 7"	15' 4"	12' 11"	16' 8"	14' 7"	12' 3"	15' 11"	13' 11"	11' 9"	14' 10"	12' 11"	10' 11"
600S200-54	24	35' 2"	27' 11"	24' 4"	19' 4"	16' 10"	14' 3"	17' 7"	15' 4"	12' 11"	16' 3"	14' 3"	12' 0"	15' 4"	13' 5"	11' 3"	14' 7"	12' 8"	10' 9"	13' 11"	12' 2"	10' 3"	12' 11"	11' 3"	9' 6"
600S137-68	12	43' 3"	34' 4"	30' 0"	23' 9"	20' 9"	17' 6"	21' 7"	18' 10"	15' 11"	20' 1"	17' 6"	14' 9"	18' 10"	16' 6"	13' 11"	17' 11"	15' 8"	13' 2"	17' 2"	15' 0"	12' 7"	15' 11"	13' 11"	11' 9"
600S137-68	16	39' 4"	31' 2"	27' 3"	21' 7"	18' 10"	15' 11"	19' 8"	17' 2"	14' 5"	18' 3"	15' 11"	13' 5"	17' 2"	15' 0"	12' 7"	16' 3"	14' 3"	12' 0"	15' 7"	13' 7"	11' 6"	14' 5"	12' 7"	10' 8"
600S137-68	24	34' 4"	27' 3"	23' 9"	18' 10"	16' 6"	13' 11"	17' 2"	15' 0"	12' 7"	15' 11"	13' 11"	11' 9"	15' 0"	13' 1"	11' 0"	14' 3"	12' 5"	10' 6"	13' 7"	11' 10"	10' 0"	12' 7"	11' 0"	9' 3"
600S162-68	12	45' 2"	35' 10"	31' 4"	24' 10"	21' 8"	18' 3"	22' 7"	19' 8"	16' 7"	20' 11"	18' 3"	15' 5"	19' 8"	17' 3"	14' 6"	18' 9"	16' 4"	13' 9"	17' 11"	15' 8"	13' 2"	16' 7"	14' 6"	12' 3"
600S162-68	16	41' 0"	32' 7"	28' 5"	22' 7"	19' 8"	16' 7"	20' 6"	17' 11"	15' 1"	19' 0"	16' 7"	14' 0"	17' 11"	15' 8"	13' 2"	17' 0"	14' 10"	12' 6"	16' 3"	14' 2"	12' 0"	15' 1"	13' 2"	11' 1"
600S162-68	24	35' 10"	28' 5"	24' 10"	19' 8"	17' 3"	14' 6"	17' 11"	15' 8"	13' 2"	16' 7"	14' 6"	12' 3"	15' 8"	13' 8"	11' 6"	14' 10"	13' 0"	10' 11"	14' 2"	12' 5"	10' 5"	13' 2"	11' 6"	9' 8"
600S200-68	12	47' 6"	37' 8"	32' 11"	26' 2"	22' 10"	19' 3"	23' 9"	20' 9"	17' 6"	22' 0"	19' 3"	16' 3"	20' 9"	18' 1"	15' 3"	19' 8"	17' 2"	14' 6"	18' 10"	16' 5"	13' 10"	17' 6"	15' 3"	12' 10"
600S200-68	16	43' 2"	34' 3"	29' 11"	23' 9"	20' 9"	17' 6"	21' 7"	18' 10"	15' 10"	20' 0"	17' 6"	14' 9"	18' 10"	16' 5"	13' 10"	17' 11"	15' 7"	13' 2"	17' 1"	14' 11"	12' 7"	15' 10"	13' 10"	11' 8"
600S200-68	24	37' 8"	29' 11"	26' 2"	20' 9"	18' 1"	15' 3"	18' 10"	16' 5"	13' 10"	17' 6"	15' 3"	12' 10"	16' 5"	14' 4"	12' 1"	15' 7"	13' 8"	11' 6"	14' 11"	13' 1"	11' 0"	13' 10"	12' 1"	10' 2"
600S137-97	12	47' 10"	38' 0"	33' 2"	26' 4"	23' 0"	19' 5"	23' 11"	20' 11"	17' 7"	22' 2"	19' 5"	16' 4"	20' 11"	18' 3"	15' 4"	19' 10"	17' 4"	14' 7"	19' 0"	16' 7"	14' 0"	17' 7"	15' 4"	12' 11"
600S137-97	16	43' 6"	34' 6"	30' 2"	23' 11"	20' 11"	17' 7"	21' 9"	19' 0"	16' 0"	20' 2"	17' 7"	14' 10"	19' 0"	16' 7"	14' 0"	18' 0"	15' 9"	13' 3"	17' 3"	15' 1"	12' 8"	16' 0"	14' 0"	11' 9"
600S137-97	24	38' 0"	30' 2"	26' 4"	20' 11"	18' 3"	15' 4"	19' 0"	16' 7"	14' 0"	17' 7"	15' 4"	12' 11"	16' 7"	14' 6"	12' 2"	15' 9"	13' 9"	11' 7"	15' 1"	13' 2"	11' 1"	14' 0"	12' 2"	10' 3"
600S162-97	12	50' 1"	39' 9"	34' 8"	27' 6"	24' 1"	20' 3"	25' 0"	21' 10"	18' 5"	23' 3"	20' 3"	17' 1"	21' 10"	19' 1"	16' 1"	20' 9"	18' 1"	15' 3"	19' 10"	17' 4"	14' 7"	18' 5"	16' 1"	13' 7"
600S162-97	16	45' 6"	36' 1"	31' 6"	25' 0"	21' 10"	18' 5"	22' 9"	19' 10"	16' 9"	21' 1"	18' 5"	15' 6"	19' 10"	17' 4"	14' 7"	18' 10"	16' 6"	13' 11"	18' 0"	15' 9"	13' 3"	16' 9"	14' 7"	12' 4"
600S162-97	24	39' 9"	31' 6"	27' 6"	21' 10"	19' 1"	16' 1"	19' 10"	17' 4"	14' 7"	18' 5"	16' 1"	13' 7"	17' 4"	15' 2"	12' 9"	16' 6"	14' 4"	12' 1"	15' 9"	13' 9"	11' 7"	14' 7"	12' 9"	10' 9"
600S200-97	12	52' 9"	41' 10"	36' 7"	29' 0"	25' 4"	21' 4"	26' 4"	23' 0"	19' 5"	24' 6"	21' 4"	18' 0"	23' 0"	20' 1"	16' 11"	21' 10"	19' 1"	16' 1"	20' 11"	18' 3"	15' 5"	19' 5"	16' 11"	14' 3"
600S200-97	16	47' 11"	38' 0"	33' 3"	26' 4"	23' 0"	19' 5"	23' 11"	20' 11"	17' 8"	22' 3"	19' 5"	16' 4"	20' 11"	18' 3"	15' 5"	19' 10"	17' 4"	14' 7"	19' 0"	16' 7"	14' 0"	17' 8"	15' 5"	13' 0"
600S200-97	24	41' 10"	33' 3"	29' 0"	23' 0"	20' 1"	16' 11"	20' 11"	18' 3"	15' 5"	19' 5"	16' 11"	14' 3"	18' 3"	15' 11"	13' 5"	17' 4"	15' 2"	12' 9"	16' 7"	14' 6"	12' 3"	15' 5"	13' 5"	11' 4"

" f " denotes stress controlled section, all other sections are deflection controlled

See page 16 for Wall Height Table Notes

SSMA

Limiting Wall Heights — Curtain Wall

(S) Stud Member	Spacing (in) o.c.	5 psf			15 psf			20 psf			25 psf			30 psf			35 psf			40 psf			50 psf		
		L/120	L/240	L/360	L/240	L/360	L/600	L/240	L/360	L/600	L/240	L/360	L/600	L/240	L/360	L/600	L/240	L/360	L/600	L/240	L/360	L/600	L/240	L/360	L/600
800S137-33	12	43' 9"	34' 8"	30' 4"	24' 1"	21' 0"	17' 8"	21' 10"	19' 1"	16' 1"	20' 3"	17' 8"	14' 11"	19' 1"	16' 8"	14' 1"	18' 1"	15' 10"	13' 4"	17' 0"f	15' 2"	12' 9"	15' 3"f	14' 1"	11' 10"
800S137-33	16	39' 9"	31' 6"	27' 6"	21' 10"	19' 1"	16' 1"	19' 10"	17' 4"	14' 7"	18' 5"	16' 1"	13' 7"	17' 0"f	15' 2"	12' 9"	15' 9"f	14' 4"	12' 1"	14' 9"f	13' 9"	11' 7"	13' 2"f	12' 9"	10' 9"
800S137-33	24	34' 1"f	27' 6"	24' 1"	19' 1"	16' 8"	14' 1"	17' 0"f	15' 2"	12' 9"	15' 3"f	14' 1"	11' 10"	13' 11"f	13' 3"	11' 2"	12' 10"f	12' 7"	10' 7"	12' 0"f	12' 0"	10' 1"	10' 9"f	10' 9"f	9' 5"
800S162-33	12	45' 5"	36' 0"	31' 6"	25' 0"	21' 10"	18' 5"	22' 8"	19' 10"	16' 8"	21' 1"	18' 5"	15' 6"	19' 10"	17' 4"	14' 7"	18' 10"	16' 5"	13' 10"	18' 0"	15' 9"	13' 3"	16' 3"f	14' 7"	12' 4"
800S162-33	16	41' 3"	32' 9"	28' 7"	22' 8"	19' 10"	16' 8"	20' 7"	18' 0"	15' 2"	19' 2"	16' 8"	14' 1"	18' 0"	15' 9"	13' 3"	16' 10"f	14' 11"	12' 7"	15' 9"f	14' 3"	12' 0"	14' 1"f	13' 3"	11' 2"
800S162-33	24	36' 0"	28' 7"	25' 0"	19' 10"	17' 4"	14' 7"	18' 0"	15' 9"	13' 3"	16' 3"f	14' 7"	12' 4"	14' 10"f	13' 9"	11' 7"	13' 9"f	13' 0"	11' 0"	12' 10"f	12' 6"	10' 6"	11' 6"f	11' 6"f	9' 9"
800S200-33	12	47' 6"	37' 8"	32' 11"	26' 1"	22' 10"	19' 3"	23' 9"	20' 9"	17' 6"	22' 0"	19' 3"	16' 3"	20' 9"	18' 1"	15' 3"	19' 8"	17' 2"	14' 6"	18' 10"	16' 5"	13' 10"	16' 10"f	15' 3"	12' 10"
800S200-33	16	43' 2"	34' 3"	29' 11"	23' 9"	20' 9"	17' 6"	21' 7"	18' 10"	15' 10"	20' 0"	17' 6"	14' 9"	18' 10"	16' 5"	13' 10"	17' 5"f	15' 7"	13' 2"	16' 4"f	14' 11"	12' 7"	14' 7"f	13' 10"	11' 8"
800S200-33	24	37' 8"	29' 11"	26' 1"	20' 9"	18' 1"	15' 3"	18' 10"	16' 5"	13' 10"	16' 10"f	15' 3"	12' 10"	15' 5"f	14' 4"	12' 1"	14' 3"f	13' 8"	11' 6"	13' 4"f	13' 0"	11' 0"	11' 11"f	11' 11"f	10' 2"
800S137-43	12	47' 8"	37' 10"	33' 0"	26' 2"	22' 11"	19' 3"	23' 10"	20' 9"	17' 6"	22' 1"	19' 3"	16' 3"	20' 9"	18' 2"	15' 4"	19' 9"	17' 3"	14' 6"	18' 11"	16' 6"	13' 11"	17' 6"	15' 4"	12' 11"
800S137-43	16	43' 3"	34' 4"	30' 0"	23' 10"	20' 9"	17' 6"	21' 7"	18' 11"	15' 11"	20' 1"	17' 6"	14' 9"	18' 11"	16' 6"	13' 11"	17' 11"	15' 8"	13' 2"	17' 2"	15' 0"	12' 8"	15' 11"	13' 11"	11' 9"
800S137-43	24	37' 10"	30' 0"	26' 2"	20' 9"	18' 2"	15' 4"	18' 11"	16' 6"	13' 11"	17' 6"	15' 4"	12' 11"	16' 6"	14' 5"	12' 2"	15' 8"	13' 8"	11' 6"	15' 0"	13' 1"	11' 0"	13' 5"f	12' 2"	10' 3"
800S162-43	12	49' 6"	39' 3"	34' 4"	27' 3"	23' 9"	20' 0"	24' 9"	21' 7"	18' 2"	22' 11"	20' 0"	16' 11"	21' 7"	18' 10"	15' 11"	20' 6"	17' 11"	15' 1"	19' 7"	17' 2"	14' 5"	18' 2"	15' 11"	13' 5"
800S162-43	16	44' 11"	35' 8"	31' 2"	24' 9"	21' 7"	18' 2"	22' 5"	19' 7"	16' 6"	20' 10"	18' 2"	15' 4"	19' 7"	17' 2"	14' 5"	18' 8"	16' 3"	13' 9"	17' 10"	15' 7"	13' 1"	16' 6"	14' 5"	12' 2"
800S162-43	24	39' 3"	31' 2"	27' 3"	21' 7"	18' 10"	15' 11"	19' 7"	17' 2"	14' 5"	18' 2"	15' 11"	13' 5"	17' 2"	14' 11"	12' 7"	16' 3"	14' 2"	12' 0"	15' 7"	13' 7"	11' 5"	14' 3"f	12' 7"	10' 8"
800S200-43	12	51' 9"	41' 1"	35' 11"	28' 6"	24' 10"	21' 0"	25' 10"	22' 7"	19' 1"	24' 0"	21' 0"	17' 8"	22' 7"	19' 9"	16' 8"	21' 5"	18' 9"	15' 10"	20' 6"	17' 11"	15' 1"	19' 1"	16' 8"	14' 0"
800S200-43	16	47' 0"	37' 4"	32' 7"	25' 10"	22' 7"	19' 1"	23' 6"	20' 6"	17' 4"	21' 10"	19' 1"	16' 1"	20' 6"	17' 11"	15' 1"	19' 6"	17' 0"	14' 4"	18' 8"	16' 3"	13' 9"	17' 4"	15' 1"	12' 9"
800S200-43	24	41' 1"	32' 7"	28' 6"	22' 7"	19' 9"	16' 8"	20' 6"	17' 11"	15' 1"	19' 1"	16' 8"	14' 0"	17' 11"	15' 8"	13' 2"	17' 0"	14' 10"	12' 6"	16' 3"	14' 3"	12' 0"	15' 0"f	13' 2"	11' 1"
800S137-54	12	51' 2"	40' 7"	35' 5"	28' 1"	24' 7"	20' 8"	25' 7"	22' 4"	18' 10"	23' 9"	20' 8"	17' 6"	22' 4"	19' 6"	16' 5"	21' 2"	18' 6"	15' 7"	20' 3"	17' 8"	14' 11"	18' 10"	16' 5"	13' 10"
800S137-54	16	46' 5"	36' 10"	32' 2"	25' 7"	22' 4"	18' 10"	23' 2"	20' 3"	17' 1"	21' 6"	18' 10"	15' 10"	20' 3"	17' 8"	14' 11"	19' 3"	16' 10"	14' 2"	18' 5"	16' 1"	13' 7"	17' 1"	14' 11"	12' 7"
800S137-54	24	40' 7"	32' 2"	28' 1"	22' 4"	19' 6"	16' 5"	20' 3"	17' 8"	14' 11"	18' 10"	16' 5"	13' 10"	17' 8"	15' 5"	13' 0"	16' 10"	14' 8"	12' 4"	16' 1"	14' 0"	11' 10"	14' 11"	13' 0"	11' 0"
800S162-54	12	53' 2"	42' 2"	36' 10"	29' 3"	25' 6"	21' 6"	26' 7"	23' 2"	19' 7"	24' 8"	21' 6"	18' 2"	23' 2"	20' 3"	17' 1"	22' 0"	19' 3"	16' 3"	21' 1"	18' 5"	15' 6"	19' 7"	17' 1"	14' 5"
800S162-54	16	48' 3"	38' 4"	33' 6"	26' 7"	23' 2"	19' 7"	24' 1"	21' 1"	17' 9"	22' 5"	19' 7"	16' 6"	21' 1"	18' 5"	15' 6"	20' 0"	17' 6"	14' 9"	19' 2"	16' 9"	14' 1"	17' 9"	15' 6"	13' 1"
800S162-54	24	42' 2"	33' 6"	29' 3"	23' 2"	20' 3"	17' 1"	21' 1"	18' 5"	15' 6"	19' 7"	17' 1"	14' 5"	18' 5"	16' 1"	13' 7"	17' 6"	15' 3"	12' 10"	16' 9"	14' 7"	12' 4"	15' 6"	13' 7"	11' 5"
800S200-54	12	55' 7"	44' 2"	38' 7"	30' 7"	26' 9"	22' 6"	27' 9"	24' 3"	20' 6"	25' 9"	22' 6"	19' 0"	24' 3"	21' 2"	17' 10"	23' 1"	20' 2"	17' 0"	22' 1"	19' 3"	16' 3"	20' 6"	17' 10"	15' 1"
800S200-54	16	50' 6"	40' 1"	35' 0"	27' 9"	24' 3"	20' 6"	25' 3"	22' 1"	18' 7"	23' 5"	20' 6"	17' 3"	22' 1"	19' 3"	16' 3"	20' 11"	18' 3"	15' 5"	20' 0"	17' 6"	14' 9"	18' 7"	16' 3"	13' 8"
800S200-54	24	44' 2"	35' 0"	30' 7"	24' 3"	21' 2"	17' 10"	22' 1"	19' 3"	16' 3"	20' 6"	17' 10"	15' 1"	19' 3"	16' 10"	14' 2"	18' 3"	16' 0"	13' 6"	17' 6"	15' 3"	12' 10"	16' 3"	14' 2"	11' 11"
800S137-68	12	54' 10"	43' 6"	38' 0"	30' 2"	26' 4"	22' 3"	27' 5"	23' 11"	20' 2"	25' 5"	22' 3"	18' 9"	23' 11"	20' 11"	17' 7"	22' 9"	19' 10"	16' 9"	21' 9"	19' 0"	16' 0"	20' 2"	17' 7"	14' 10"
800S137-68	16	49' 10"	39' 6"	34' 6"	27' 5"	23' 11"	20' 2"	24' 11"	21' 9"	18' 4"	23' 1"	20' 2"	17' 0"	21' 9"	19' 0"	16' 0"	20' 8"	18' 0"	15' 2"	19' 9"	17' 3"	14' 6"	18' 4"	16' 0"	13' 6"
800S137-68	24	43' 6"	34' 6"	30' 2"	23' 11"	20' 11"	17' 7"	21' 9"	19' 0"	16' 0"	20' 2"	17' 7"	14' 10"	19' 0"	16' 7"	14' 0"	18' 0"	15' 9"	13' 3"	17' 3"	15' 1"	12' 8"	16' 0"	14' 0"	11' 9"
800S162-68	12	57' 0"	45' 3"	39' 6"	31' 4"	27' 5"	23' 1"	28' 6"	24' 11"	21' 0"	26' 5"	23' 1"	19' 6"	24' 11"	21' 9"	18' 4"	23' 8"	20' 8"	17' 5"	22' 7"	19' 9"	16' 8"	21' 0"	18' 4"	15' 5"
800S162-68	16	51' 10"	41' 1"	35' 11"	28' 6"	24' 11"	21' 0"	25' 11"	22' 7"	19' 1"	24' 0"	21' 0"	17' 8"	22' 7"	19' 9"	16' 8"	21' 6"	18' 9"	15' 10"	20' 6"	17' 11"	15' 1"	19' 1"	16' 8"	14' 0"
800S162-68	24	45' 3"	35' 11"	31' 4"	24' 11"	21' 9"	18' 4"	22' 7"	19' 9"	16' 8"	21' 0"	18' 4"	15' 5"	19' 9"	17' 3"	14' 6"	18' 9"	16' 5"	13' 10"	17' 11"	15' 8"	13' 2"	16' 8"	14' 6"	12' 3"
800S200-68	12	59' 9"	47' 5"	41' 5"	32' 10"	28' 8"	24' 2"	29' 10"	26' 1"	22' 0"	27' 8"	24' 2"	20' 5"	26' 1"	22' 9"	19' 2"	24' 9"	21' 7"	18' 3"	23' 8"	20' 8"	17' 5"	22' 0"	19' 2"	16' 2"
800S200-68	16	54' 3"	43' 1"	37' 7"	29' 10"	26' 1"	22' 0"	27' 1"	23' 8"	20' 0"	25' 2"	22' 0"	18' 6"	23' 8"	20' 8"	17' 5"	22' 6"	19' 8"	16' 7"	21' 6"	18' 9"	15' 10"	20' 0"	17' 5"	14' 8"
800S200-68	24	47' 5"	37' 7"	32' 10"	26' 1"	22' 9"	19' 2"	23' 8"	20' 8"	17' 5"	22' 0"	19' 2"	16' 2"	20' 8"	18' 1"	15' 3"	19' 8"	17' 2"	14' 6"	18' 9"	16' 5"	13' 10"	17' 5"	15' 3"	12' 10"
800S137-97	12	60' 10"	48' 3"	42' 2"	33' 5"	29' 3"	24' 8"	30' 5"	26' 7"	22' 5"	28' 2"	24' 8"	20' 9"	26' 7"	23' 2"	19' 7"	25' 3"	22' 0"	18' 7"	24' 1"	21' 1"	17' 9"	22' 5"	19' 7"	16' 6"
800S137-97	16	55' 3"	43' 10"	38' 4"	30' 5"	26' 7"	22' 5"	27' 7"	24' 1"	20' 4"	25' 7"	22' 5"	18' 10"	24' 1"	21' 1"	17' 9"	22' 11"	20' 0"	16' 10"	21' 11"	19' 2"	16' 2"	20' 4"	17' 9"	15' 0"
800S137-97	24	48' 3"	38' 4"	33' 5"	26' 7"	23' 2"	19' 7"	24' 1"	21' 1"	17' 9"	22' 5"	19' 7"	16' 6"	21' 1"	18' 5"	15' 6"	20' 0"	17' 6"	14' 9"	19' 2"	16' 8"	14' 1"	17' 9"	15' 6"	13' 1"
800S162-97	12	63' 4"	50' 3"	43' 11"	34' 10"	30' 5"	25' 8"	31' 8"	27' 8"	23' 4"	29' 5"	25' 8"	21' 8"	27' 8"	24' 2"	20' 4"	26' 3"	22' 11"	19' 4"	25' 1"	21' 11"	18' 6"	23' 4"	20' 4"	17' 2"
800S162-97	16	57' 7"	45' 8"	39' 11"	31' 8"	27' 8"	23' 4"	28' 9"	25' 1"	21' 2"	26' 8"	23' 4"	19' 8"	25' 1"	21' 11"	18' 6"	23' 10"	20' 10"	17' 7"	22' 10"	19' 11"	16' 10"	21' 2"	18' 6"	15' 7"
800S162-97	24	50' 3"	39' 11"	34' 10"	27' 8"	24' 2"	20' 4"	25' 1"	21' 11"	18' 6"	23' 4"	20' 4"	17' 2"	21' 11"	19' 2"	16' 2"	20' 10"	18' 2"	15' 4"	19' 11"	17' 5"	14' 8"	18' 6"	16' 2"	13' 7"
800S200-97	12	66' 5"	52' 9"	46' 1"	36' 7"	31' 11"	26' 11"	33' 2"	29' 0"	24' 5"	30' 10"	26' 11"	22' 8"	29' 0"	25' 4"	21' 4"	27' 6"	24' 1"	20' 3"	26' 4"	23' 0"	19' 5"	24' 5"	21' 4"	18' 0"
800S200-97	16	60' 4"	47' 11"	41' 10"	33' 2"	29' 0"	24' 5"	30' 2"	26' 4"	22' 3"	28' 0"	24' 5"	20' 7"	26' 4"	23' 0"	19' 5"	25' 0"	21' 10"	18' 5"	23' 11"	20' 11"	17' 7"	22' 3"	19' 5"	16' 4"
800S200-97	24	52' 9"	41' 10"	36' 7"	29' 0"	25' 4"	21' 4"	26' 4"	23' 0"	19' 5"	24' 5"	21' 4"	18' 0"	23' 0"	20' 1"	16' 11"	21' 10"	19' 1"	16' 1"	20' 11"	18' 3"	15' 5"	19' 5"	16' 11"	14' 3"

" f " denotes stress controlled section, all other sections are deflection controlled

See page 16 for Wall Height Table Notes

SSMA

Combined Axial and Lateral Load Tables

Combined Loading Allowable Axial Load Table Notes

1. Allowable loads based on weak axis and torsional bracing at 48" o.c. maximum for axial load calculation and continuous support of each flange for flexural calculation.
2. Lateral and axial load multiplied by 0.75 for strength determination per AISI A5.1.3.
3. Check lateral end reactions for web crippling.
4. Allowable axial load in kips/stud (1 kip = 1000 lbs).

5 psf Lateral Load

Wall Height (ft)	Spacing (in.) o.c.	350S162-(mils) 33 ksi 33	350S162-(mils) 33 ksi 43	350S162-(mils) 50 ksi 54	350S162-(mils) 50 ksi 68	362S137-(mils) 33 ksi 33	362S137-(mils) 33 ksi 43	362S137-(mils) 50 ksi 54	362S137-(mils) 50 ksi 68	362S162-(mils) 33 ksi 33	362S162-(mils) 33 ksi 43	362S162-(mils) 50 ksi 54	362S162-(mils) 50 ksi 68	362S200-(mils) 33 ksi 33	362S200-(mils) 33 ksi 43	362S200-(mils) 50 ksi 54	362S200-(mils) 50 ksi 68
8	12	2.03	2.76	4.09	5.14	1.68	2.32	3.42	4.42	2.08	2.85	4.27	5.44	2.49	3.50	5.34	6.76
	16	2.03	2.76	4.09	5.14	1.68	2.32	3.42	4.42	2.08	2.85	4.27	5.44	2.49	3.50	5.34	6.76
	24	2.03	2.76	4.09	5.14	1.68	2.32	3.42	4.42	2.08	2.85	4.27	5.44	2.49	3.50	5.34	6.76
9	12	1.95	2.66	3.83	4.80	1.63	2.26	3.27	4.19	2.01	2.75	4.04	5.12	2.41	3.37	5.02	6.32
	16	1.95	2.66	3.83	4.80	1.63	2.26	3.27	4.19	2.01	2.75	4.04	5.12	2.41	3.37	5.02	6.32
	24	1.95	2.66	3.83	4.80	1.63	2.26	3.27	4.19	2.01	2.75	4.04	5.12	2.41	3.37	5.02	6.32
10	12	1.86	2.54	3.53	4.43	1.57	2.18	3.07	3.91	1.93	2.63	3.78	4.75	2.32	3.22	4.68	5.85
	16	1.86	2.54	3.53	4.43	1.57	2.18	3.07	3.91	1.93	2.63	3.78	4.75	2.32	3.22	4.68	5.85
	24	1.82	2.54	3.53	4.43	1.50	2.18	3.07	3.91	1.92	2.63	3.78	4.75	2.32	3.22	4.68	5.85
12	12	1.66	2.26	2.92	3.64	1.43	1.98	2.62	3.30	1.73	2.37	3.17	3.94	2.11	2.87	3.89	4.82
	16	1.59 [7]	2.26	2.92	3.64	1.35 [7]	1.98	2.62	3.30	1.70	2.37	3.17	3.94	2.11	2.87	3.89	4.82
	24	1.34 [6]	2.13 [6]	2.92	3.64	1.11 [6]	1.82 [6]	2.62 [7]	3.30	1.44 [6]	2.28 [7]	3.17	3.94	1.82 [6]	2.80	3.89	4.82
14	12	1.33 [6]	1.94	2.40	2.97	1.14 [6]	1.73 [7]	2.19	2.73	1.43 [7]	2.06	2.61	3.23	1.79	2.50	3.17	3.92
	16	1.18 [6]	1.84 [6]	2.40 [7]	2.97	1.00 [6]	1.61 [6]	2.19 [7]	2.73	1.28 [6]	1.99 [7]	2.61	3.23	1.61 [6]	2.43 [7]	3.17	3.92
	24	0.91 [3]	1.56 [6]	2.35 [6]	2.97 [6]	0.75 [3]	1.34 [3]	2.15 [6]	2.73 [6]	1.00 [3]	1.70 [6]	2.58 [6]	3.23 [7]	1.29 [6]	2.09 [6]	3.17 [6]	3.92
16	12	0.98 [6]	1.50 [6]	1.97 [7]	2.44	0.84 [6]	1.34 [6]	1.81 [6]	2.25 [7]	1.07 [6]	1.66 [6]	2.15 [7]	2.65	1.34 [6]	2.03 [7]	2.60	3.21
	16	0.83 [3]	1.35 [6]	1.97 [6]	2.44 [6]	0.70 [3]	1.19 [3]	1.81 [6]	2.25 [6]	0.91 [3]	1.49 [6]	2.15 [6]	2.65 [7]	1.16 [6]	1.83 [6]	2.60 [6]	3.21
	24	0.56 [2]	1.07 [3]	1.73 [3]	2.40 [6]	0.45 [2]	0.92 [2]	1.60 [3]	2.17 [3]	0.64 [2]	1.20 [3]	1.92 [3]	2.64 [6]	0.85 [3]	1.49 [3]	2.38 [6]	3.21 [6]

5 psf Lateral Load

Wall Height (ft)	Spacing (in.) o.c.	400S137-(mils) 33 ksi 33	400S137-(mils) 33 ksi 43	400S137-(mils) 50 ksi 54	400S137-(mils) 50 ksi 68	400S162-(mils) 33 ksi 33	400S162-(mils) 33 ksi 43	400S162-(mils) 50 ksi 54	400S162-(mils) 50 ksi 68	400S200-(mils) 33 ksi 33	400S200-(mils) 33 ksi 43	400S200-(mils) 50 ksi 54	400S200-(mils) 50 ksi 68	550S162-(mils) 33 ksi 33	550S162-(mils) 33 ksi 43	550S162-(mils) 50 ksi 54	550S162-(mils) 50 ksi 68
8	12	1.79	2.49	3.77	5.08	2.22	3.05	4.73	6.25	2.63	3.76	5.92	7.72	2.53	3.49	5.74	7.58
	16	1.79	2.49	3.77	5.08	2.22	3.05	4.73	6.25	2.63	3.76	5.92	7.72	2.53	3.49	5.74	7.58
	24	1.79	2.49	3.77	5.08	2.22	3.05	4.73	6.25	2.63	3.76	5.92	7.72	2.53	3.49	5.74	7.58
9	12	1.75	2.43	3.65	4.90	2.17	2.97	4.54	6.00	2.57	3.65	5.65	7.36	2.51	3.47	5.67	7.58
	16	1.75	2.43	3.65	4.90	2.17	2.97	4.54	6.00	2.57	3.65	5.65	7.36	2.51	3.47	5.67	7.58
	24	1.75	2.43	3.65	4.90	2.17	2.97	4.54	6.00	2.57	3.65	5.65	7.36	2.51	3.47	5.67	7.58
10	12	1.71	2.37	3.50	4.67	2.10	2.88	4.32	5.69	2.49	3.52	5.34	6.95	2.48	3.43	5.58	7.47
	16	1.71	2.37	3.50	4.67	2.10	2.88	4.32	5.69	2.49	3.52	5.34	6.95	2.48	3.43	5.58	7.47
	24	1.71	2.37	3.50	4.67	2.10	2.88	4.32	5.69	2.49	3.52	5.34	6.95	2.48	3.43	5.58	7.47
12	12	1.59	2.21	3.13	4.08	1.93	2.65	3.80	4.92	2.31	3.21	4.66	5.99	2.40	3.32	5.32	7.13
	16	1.59	2.21	3.13	4.08	1.93	2.65	3.80	4.92	2.31	3.21	4.66	5.99	2.40	3.32	5.32	7.13
	24	1.35 [6]	2.17 [7]	3.13	4.08	1.74 [7]	2.65	3.80	4.92	2.15	3.21	4.66	5.99	2.40	3.32	5.32	7.13
14	12	1.39 [7]	2.00	2.70	3.43	1.73	2.38	3.22	4.07	2.10	2.87	3.91	4.93	2.29	3.18	4.96	6.64
	16	1.24 [6]	1.97 [7]	2.70	3.43	1.57 [6]	2.38	3.22	4.07	1.96 [7]	2.87	3.91	4.93	2.29	3.18	4.96	6.64
	24	0.98 [3]	1.69 [6]	2.70 [6]	3.43 [7]	1.28 [6]	2.12 [6]	3.22 [7]	4.07	1.63 [6]	2.59 [7]	3.91	4.93	2.22	3.18	4.96	6.64
16	12	1.08 [6]	1.70 [6]	2.30	2.85	1.35 [6]	2.08 [7]	2.72	3.36	1.69 [7]	2.51	3.27	4.05	2.15	2.98	4.51	6.02
	16	0.92 [3]	1.54 [6]	2.30 [6]	2.85 [7]	1.19 [6]	1.90 [6]	2.72 [7]	3.36	1.50 [6]	2.32 [7]	3.27	4.05	2.14	2.98	4.51	6.02
	24	0.65 [2]	1.24 [3]	2.14 [6]	2.85 [6]	0.89 [3]	1.58 [3]	2.54 [6]	3.36 [6]	1.15 [3]	1.94 [6]	3.13 [6]	4.05 [7]	1.83 [6]	2.92	4.51	6.02

1 Deflection exceeds L/120
2 Deflection exceeds L/240
3 Deflection exceeds L/360
6 Deflection exceeds L/600
7 Deflection exceeds L/720
– If not noted, deflection is less than L/720

SSMA

Combined Axial and Lateral Load Tables

5 psf Lateral Load

Wall Height (ft)	Spacing (in.) o.c.	600S137-(mils) 33 ksi 33	43	50 ksi 54	68	97	600S162-(mils) 33 ksi 33	43	50 ksi 54	68	97	600S200-(mils) 33 ksi 33	43	50 ksi 54	68	97
8	12	1.88	2.62	3.90	5.14	7.62	2.55	3.52	5.72	7.56	11.50	2.99	4.44	7.56	10.02	15.60
	16	1.88	2.62	3.90	5.14	7.62	2.55	3.52	5.72	7.56	11.50	2.99	4.44	7.56	10.02	15.60
	24	1.88	2.62	3.90	5.14	7.62	2.55	3.52	5.72	7.56	11.50	2.99	4.44	7.56	10.02	15.60
9	12	1.88	2.62	3.90	5.14	7.62	2.55	3.52	5.72	7.56	11.50	2.97	4.40	7.46	9.89	15.38
	16	1.88	2.62	3.90	5.14	7.62	2.55	3.52	5.72	7.56	11.50	2.97	4.40	7.46	9.89	15.38
	24	1.88	2.62	3.90	5.14	7.62	2.55	3.52	5.72	7.56	11.50	2.97	4.40	7.46	9.89	15.38
10	12	1.88	2.62	3.90	5.14	7.62	2.54	3.52	5.72	7.56	11.50	2.95	4.35	7.33	9.72	15.11
	16	1.88	2.62	3.90	5.14	7.62	2.54	3.52	5.72	7.56	11.50	2.95	4.35	7.33	9.72	15.11
	24	1.88	2.62	3.90	5.14	7.62	2.54	3.52	5.72	7.56	11.50	2.95	4.35	7.33	9.72	15.11
12	12	1.88	2.62	3.90	5.14	7.62	2.49	3.44	5.60	7.52	11.50	2.88	4.22	6.99	9.27	14.40
	16	1.88	2.62	3.90	5.14	7.62	2.49	3.44	5.60	7.52	11.50	2.88	4.22	6.99	9.27	14.40
	24	1.88	2.62	3.90	5.14	7.62	2.49	3.44	5.60	7.52	11.50	2.88	4.22	6.99	9.27	14.40
14	12	1.88	2.62	3.90	5.14	7.62	2.40	3.33	5.32	7.13	11.28	2.78	4.04	6.55	8.68	13.45
	16	1.88	2.62	3.90	5.14	7.62	2.40	3.33	5.32	7.13	11.28	2.78	4.04	6.55	8.68	13.45
	24	1.86	2.62	3.90	5.14	7.62	2.40	3.33	5.32	7.13	11.28	2.78	4.04	6.55	8.68	13.45
16	12	1.88	2.62	3.90	5.14	7.62	2.29	3.17	4.94	6.62	10.42	2.65	3.82	6.01	7.97	12.32
	16	1.88	2.62	3.90	5.14	7.62	2.29	3.17	4.94	6.62	10.42	2.65	3.82	6.01	7.97	12.32
	24	1.64 [7]	2.62	3.90	5.14	7.62	2.09 [7]	3.17	4.94	6.62	10.42	2.49	3.82	6.01	7.97	12.32

5 psf Lateral Load

Wall Height (ft)	Spacing (in.) o.c.	800S137-(mils) 33 ksi 33	43	50 ksi 54	68	97	800S162-(mils) 33 ksi 33	43	50 ksi 54	68	97	800S200-(mils) 33 ksi 33	43	50 ksi 54	68	97
8	12	1.79	2.50	3.62	4.80	7.27	2.49	3.44	5.51	7.32	11.33	3.07	4.58	7.85	10.38	16.07
	16	1.79	2.50	3.62	4.80	7.27	2.49	3.44	5.51	7.32	11.33	3.07	4.58	7.85	10.38	16.07
	24	1.79	2.50	3.62	4.80	7.27	2.49	3.44	5.51	7.32	11.33	3.07	4.58	7.85	10.38	16.07
9	12	1.79	2.50	3.62	4.80	7.27	2.49	3.44	5.51	7.32	11.33	3.07	4.58	7.85	10.38	16.07
	16	1.79	2.50	3.62	4.80	7.27	2.49	3.44	5.51	7.32	11.33	3.07	4.58	7.85	10.38	16.07
	24	1.79	2.50	3.62	4.80	7.27	2.49	3.44	5.51	7.32	11.33	3.07	4.58	7.85	10.38	16.07
10	12	1.79	2.50	3.62	4.80	7.27	2.49	3.44	5.51	7.32	11.33	3.07	4.58	7.85	10.38	16.07
	16	1.79	2.50	3.62	4.80	7.27	2.49	3.44	5.51	7.32	11.33	3.07	4.58	7.85	10.38	16.07
	24	1.79	2.50	3.62	4.80	7.27	2.49	3.44	5.51	7.32	11.33	3.07	4.58	7.85	10.38	16.07
12	12	1.79	2.50	3.62	4.80	7.27	2.49	3.44	5.51	7.32	11.33	3.07	4.58	7.85	10.38	16.07
	16	1.79	2.50	3.62	4.80	7.27	2.49	3.44	5.51	7.32	11.33	3.07	4.58	7.85	10.38	16.07
	24	1.79	2.50	3.62	4.80	7.27	2.49	3.44	5.51	7.32	11.33	3.07	4.58	7.85	10.38	16.07
14	12	1.79	2.50	3.62	4.80	7.27	2.49	3.44	5.51	7.32	11.33	3.03	4.51	7.70	10.25	16.07
	16	1.79	2.50	3.62	4.80	7.27	2.49	3.44	5.51	7.32	11.33	3.03	4.51	7.70	10.25	16.07
	24	1.79	2.50	3.62	4.80	7.27	2.49	3.44	5.51	7.32	11.33	3.03	4.51	7.70	10.25	16.07
16	12	1.79	2.50	3.62	4.80	7.27	2.49	3.44	5.51	7.32	11.33	2.97	4.40	7.41	9.87	15.52
	16	1.79	2.50	3.62	4.80	7.27	2.49	3.44	5.51	7.32	11.33	2.97	4.40	7.41	9.87	15.52
	24	1.79	2.50	3.62	4.80	7.27	2.49	3.44	5.51	7.32	11.33	2.97	4.40	7.41	9.87	15.52

15 psf Lateral Load

Wall Height (ft)	Spacing (in.) o.c.	350S162-(mils) 33 ksi 33	43	50 ksi 54	68	362S137-(mils) 33 ksi 33	43	50 ksi 54	68	362S162-(mils) 33 ksi 33	43	50 ksi 54	68	362S200-(mils) 33 ksi 33	43	50 ksi 54	68
8	12	2.03	2.76	4.09	5.14	1.67	2.32	3.42	4.42	2.08	2.85	4.27	5.44	2.49	3.50	5.34	6.76
	16	1.86	2.76	4.09	5.14	1.50	2.32	3.42	4.42	1.96	2.85	4.27	5.44	2.41	3.50	5.34	6.76
	24	1.49 [6]	2.51 [7]	4.09	5.14	1.16 [6]	2.04 [7]	3.42	4.42	1.59 [6]	2.64	4.27	5.44	2.00 [7]	3.30	5.34	6.76
9	12	1.80	2.66	3.83	4.80	1.46 [7]	2.26	3.27	4.19	1.90	2.75	4.04	5.12	2.34	3.37	5.02	6.32
	16	1.57 [6]	2.53 [7]	3.83	4.80	1.25 [6]	2.10 [7]	3.27	4.19	1.67 [6]	2.67	4.04	5.12	2.08 [7]	3.31	5.02	6.32
	24	1.13 [6]	2.09 [6]	3.71 [6]	4.80 [7]	0.86 [3]	1.70 [6]	3.21 [6]	4.19 [7]	1.23 [6]	2.24 [6]	3.99 [7]	5.12	1.60 [6]	2.80 [7]	5.02	6.32
10	12	1.53 [6]	2.44 [7]	3.53	4.43	1.24 [6]	2.05 [7]	3.07	3.91	1.63 [6]	2.59	3.78	4.75	2.04 [7]	3.19	4.68	5.85
	16	1.26 [6]	2.17 [6]	3.53 [7]	4.43	1.00 [6]	1.80 [6]	3.07 [6]	3.91	1.37 [6]	2.32 [6]	3.78 [7]	4.75	1.74 [6]	2.87 [7]	4.68	5.85
	24	0.78 [3]	1.68 [3]	3.11 [6]	4.40 [6]	0.56 [3]	1.35 [3]	2.74 [6]	3.83 [6]	0.88 [3]	1.82 [6]	3.40 [6]	4.75 [6]	1.20 [3]	2.29 [6]	4.32 [6]	5.85 [7]
12	12	1.00 [3]	1.78 [6]	2.83 [6]	3.64 [6]	0.80 [3]	1.50 [6]	2.56 [6]	3.30 [6]	1.10 [3]	1.93 [6]	3.11 [6]	3.94 [7]	1.43 [6]	2.38 [6]	3.89 [7]	4.82
	16	0.71 [2]	1.47 [3]	2.54 [6]	3.57 [6]	0.53 [2]	1.21 [3]	2.30 [3]	3.18 [6]	0.80 [3]	1.61 [3]	2.81 [6]	3.93 [6]	1.08 [3]	2.01 [6]	3.54 [6]	4.82 [6]
	24	0.18 [2]	0.91 [2]	2.03 [3]	3.07 [3]		0.69 [2]	1.84 [2]	2.70 [3]	0.26 [2]	1.04 [2]	2.27 [3]	3.40 [3]	0.47 [2]	1.34 [3]	2.92 [3]	4.34 [6]
14	12	0.56 [2]	1.19 [3]	2.02 [3]	2.85 [6]	0.42 [2]	0.99 [2]	1.86 [3]	2.56 [3]	0.65 [2]	1.32 [3]	2.24 [3]	3.14 [6]	0.88 [3]	1.65 [3]	2.80 [6]	3.92 [6]
	16	0.26 [2]	0.87 [2]	1.73 [2]	2.56 [3]	0.14 [2]	0.69 [2]	1.59 [2]	2.28 [3]	0.34 [2]	0.99 [2]	1.93 [3]	2.83 [3]	0.53 [2]	1.26 [3]	2.45 [3]	3.58 [6]
	24		0.32 [2]	1.22 [2]	2.05 [2]		0.16 [1]	1.13 [2]	1.79 [2]		0.42 [2]	1.40 [2]	2.30 [2]		0.58 [2]	1.84 [2]	2.98 [3]
16	12	0.23 [2]	0.72 [2]	1.41 [2]	2.08 [3]	0.13 [2]	0.58 [2]	1.31 [2]	1.87 [2]	0.29 [2]	0.83 [2]	1.58 [2]	2.31 [3]	0.45 [2]	1.06 [2]	2.00 [3]	2.91 [3]
	16		0.42 [2]	1.13 [2]	1.80 [2]		0.29 [1]	1.06 [2]	1.60 [2]		0.51 [2]	1.29 [2]	2.01 [2]	0.11 [2]	0.68 [2]	1.66 [2]	2.58 [3]
	24			0.65 [1]	1.32 [2]			0.61 [1]	1.13 [1]			0.77 [1]	1.50 [2]			1.07 [2]	2.01 [2]

1 Deflection exceeds L/120
2 Deflection exceeds L/240
3 Deflection exceeds L/360
6 Deflection exceeds L/600
7 Deflection exceeds L/720
– If not noted, deflection is less than L/720

See Combined Axial and Lateral Load Table Notes on page 20.

Combined Axial and Lateral Load Tables

15 psf Lateral Load

Wall Height (ft)	Spacing (in.) o.c.	400S137-(mils) 33 ksi 33	400S137-(mils) 33 ksi 43	400S137-(mils) 50 ksi 54	400S137-(mils) 50 ksi 68	400S162-(mils) 33 ksi 33	400S162-(mils) 33 ksi 43	400S162-(mils) 50 ksi 54	400S162-(mils) 50 ksi 68	400S200-(mils) 33 ksi 33	400S200-(mils) 33 ksi 43	400S200-(mils) 50 ksi 54	400S200-(mils) 50 ksi 68	550S162-(mils) 33 ksi 33	550S162-(mils) 33 ksi 43	550S162-(mils) 50 ksi 54	550S162-(mils) 50 ksi 68
8	12	1.79	2.49	3.77	5.08	2.22	3.05	4.73	6.25	2.63	3.76	5.92	7.72	2.53	3.49	5.74	7.58
	16	1.70	2.49	3.77	5.08	2.21	3.05	4.73	6.25	2.63	3.76	5.92	7.72	2.53	3.49	5.74	7.58
	24	1.39 [7]	2.34	3.77	5.08	1.86 [7]	3.00	4.73	6.25	2.30	3.74	5.92	7.72	2.53	3.49	5.74	7.58
9	12	1.68	2.43	3.65	4.90	2.16	2.97	4.54	6.00	2.57	3.65	5.65	7.36	2.51	3.47	5.67	7.58
	16	1.48 [7]	2.40	3.65	4.90	1.94	2.97	4.54	6.00	2.38	3.65	5.65	7.36	2.51	3.47	5.67	7.58
	24	1.10 [6]	2.02 [6]	3.65 [7]	4.90	1.52 [6]	2.63 [7]	4.54	6.00	1.92 [6]	3.27	5.65	7.36	2.35	3.47	5.67	7.58
10	12	1.47 [7]	2.37	3.50	4.67	1.91	2.88	4.32	5.69	2.35	3.52	5.34	6.95	2.48	3.43	5.58	7.47
	16	1.24 [6]	2.13 [7]	3.50	4.67	1.66 [6]	2.71 [7]	4.32	5.69	2.06 [7]	3.35	5.34	6.95	2.48	3.43	5.58	7.47
	24	0.80 [3]	1.68 [6]	3.34 [6]	4.67 [7]	1.17 [6]	2.22 [6]	4.14 [6]	5.69 [7]	1.53 [6]	2.78 [6]	5.23 [7]	6.95	2.08	3.39	5.58	7.47
12	12	1.04 [6]	1.84 [6]	3.13 [6]	4.08 [7]	1.39 [6]	2.34 [6]	3.80 [7]	4.92	1.76 [6]	2.88 [7]	4.66	5.99	2.30	3.32	5.32	7.13
	16	0.75 [3]	1.54 [3]	2.92 [6]	4.08 [6]	1.08 [3]	2.01 [6]	3.57 [6]	4.92 [7]	1.41 [6]	2.49 [6]	4.47 [6]	5.99	2.02 [7]	3.27	5.32	7.13
	24	0.25 [2]	1.00 [2]	2.43 [3]	3.57 [3]	0.52 [2]	1.42 [3]	2.98 [3]	4.48 [6]	0.77 [3]	1.80 [3]	3.79 [6]	5.66 [6]	1.49 [6]	2.74 [6]	5.30 [7]	7.13
14	12	0.63 [2]	1.32 [3]	2.44 [6]	3.36 [6]	0.90 [3]	1.71 [3]	2.93 [6]	4.07 [6]	1.20 [3]	2.12 [6]	3.64 [6]	4.93 [7]	1.86 [6]	3.03	4.96	6.64
	16	0.33 [2]	0.99 [2]	2.14 [3]	3.05 [3]	0.57 [2]	1.36 [3]	2.58 [3]	3.76 [6]	0.81 [2]	1.69 [3]	3.24 [6]	4.71 [6]	1.51 [6]	2.68 [6]	4.96 [7]	6.64
	24		0.41 [2]	1.61 [2]	2.48 [2]		0.73 [2]	1.97 [2]	3.14 [3]	0.15 [2]	0.96 [2]	2.54 [3]	4.02 [3]	0.88 [3]	2.03 [6]	4.27 [6]	6.47 [6]
16	12	0.30 [2]	0.86 [2]	1.80 [3]	2.51 [3]	0.50 [2]	1.17 [2]	2.15 [3]	3.08 [3]	0.71 [2]	1.46 [3]	2.68 [3]	3.84 [6]	1.40 [6]	2.48 [6]	4.44 [6]	6.02
	16		0.53 [2]	1.50 [2]	2.19 [2]	0.17 [2]	0.81 [2]	1.80 [2]	2.73 [3]	0.33 [2]	1.04 [2]	2.28 [3]	3.45 [3]	1.01 [3]	2.07 [6]	4.01 [6]	5.97 [6]
	24			0.98 [2]	1.64 [2]		0.19 [1]	1.21 [2]	2.13 [2]		0.31 [2]	1.60 [2]	2.78 [2]	0.32 [2]	1.33 [3]	3.24 [3]	5.16 [6]

15 psf Lateral Load

Wall Height (ft)	Spacing (in.) o.c.	600S137-(mils) 33 ksi 33	600S137-(mils) 33 ksi 43	600S137-(mils) 50 ksi 54	600S137-(mils) 50 ksi 68	600S137-(mils) 50 ksi 97	600S162-(mils) 33 ksi 33	600S162-(mils) 33 ksi 43	600S162-(mils) 50 ksi 54	600S162-(mils) 50 ksi 68	600S162-(mils) 50 ksi 97	600S200-(mils) 33 ksi 33	600S200-(mils) 33 ksi 43	600S200-(mils) 50 ksi 54	600S200-(mils) 50 ksi 68	600S200-(mils) 50 ksi 97
8	12	1.88	2.62	3.90	5.14	7.62	2.55	3.52	5.72	7.56	11.50	2.99	4.44	7.56	10.02	15.60
	16	1.88	2.62	3.90	5.14	7.62	2.55	3.52	5.72	7.56	11.50	2.99	4.44	7.56	10.02	15.60
	24	1.88	2.62	3.90	5.14	7.62	2.55	3.52	5.72	7.56	11.50	2.99	4.44	7.56	10.02	15.60
9	12	1.88	2.62	3.90	5.14	7.62	2.55	3.52	5.72	7.56	11.50	2.97	4.40	7.46	9.89	15.38
	16	1.88	2.62	3.90	5.14	7.62	2.55	3.52	5.72	7.56	11.50	2.97	4.40	7.46	9.89	15.38
	24	1.78	2.62	3.90	5.14	7.62	2.52	3.52	5.72	7.56	11.50	2.97	4.40	7.46	9.89	15.38
10	12	1.88	2.62	3.90	5.14	7.62	2.54	3.52	5.72	7.56	11.50	2.95	4.35	7.33	9.72	15.11
	16	1.88	2.62	3.90	5.14	7.62	2.54	3.52	5.72	7.56	11.50	2.95	4.35	7.33	9.72	15.11
	24	1.61	2.62	3.90	5.14	7.62	2.29	3.52	5.72	7.56	11.50	2.74	4.35	7.33	9.72	15.11
12	12	1.83	2.62	3.90	5.14	7.62	2.49	3.44	5.60	7.52	11.50	2.88	4.22	6.99	9.27	14.40
	16	1.61	2.62	3.90	5.14	7.62	2.24	3.44	5.60	7.52	11.50	2.67	4.22	6.99	9.27	14.40
	24	1.20 [6]	2.21 [7]	3.90	5.14	7.62	1.75 [6]	3.06 [7]	5.60	7.52	11.50	2.14 [7]	3.79	6.99	9.27	14.40
14	12	1.56 [7]	2.56	3.90	5.14	7.62	2.10 [7]	3.33	5.32	7.13	11.28	2.51	4.04	6.55	8.68	13.45
	16	1.28 [6]	2.27 [6]	3.90	5.14	7.62	1.78 [6]	3.02 [7]	5.32	7.13	11.28	2.15 [6]	3.70	6.55	8.68	13.45
	24	0.75 [3]	1.73 [6]	3.64 [6]	5.14 [6]	7.62	1.17 [3]	2.40 [6]	4.91 [6]	7.13 [7]	11.28	1.49 [6]	2.97 [6]	6.18 [7]	8.68	13.45
16	12	1.26 [6]	2.24 [6]	3.90 [7]	5.14	7.62	1.67 [6]	2.84 [6]	4.94	6.62	10.42	2.03 [6]	3.46 [7]	6.01	7.97	12.32
	16	0.91 [3]	1.88 [6]	3.73 [6]	5.14 [6]	7.62	1.29 [3]	2.44 [6]	4.69 [6]	6.62 [7]	10.42	1.61 [6]	2.99 [6]	5.82 [7]	7.97	12.32
	24	0.28 [2]	1.22 [3]	3.11 [3]	4.62 [6]	7.62 [6]	0.60 [2]	1.72 [3]	3.91 [6]	6.08 [6]	10.42 [7]	0.84 [3]	2.14 [3]	4.92 [6]	7.56 [6]	12.32 [7]

15 psf Lateral Load

Wall Height (ft)	Spacing (in.) o.c.	800S137-(mils) 33 ksi 33	800S137-(mils) 33 ksi 43	800S137-(mils) 50 ksi 54	800S137-(mils) 50 ksi 68	800S137-(mils) 50 ksi 97	800S162-(mils) 33 ksi 33	800S162-(mils) 33 ksi 43	800S162-(mils) 50 ksi 54	800S162-(mils) 50 ksi 68	800S162-(mils) 50 ksi 97	800S200-(mils) 33 ksi 33	800S200-(mils) 33 ksi 43	800S200-(mils) 50 ksi 54	800S200-(mils) 50 ksi 68	800S200-(mils) 50 ksi 97
8	12	1.79	2.50	3.62	4.80	7.27	2.49	3.44	5.51	7.32	11.33	3.07	4.58	7.85	10.38	16.07
	16	1.79	2.50	3.62	4.80	7.27	2.49	3.44	5.51	7.32	11.33	3.07	4.58	7.85	10.38	16.07
	24	1.79	2.50	3.62	4.80	7.27	2.49	3.44	5.51	7.32	11.33	3.07	4.58	7.85	10.38	16.07
9	12	1.79	2.50	3.62	4.80	7.27	2.49	3.44	5.51	7.32	11.33	3.07	4.58	7.85	10.38	16.07
	16	1.79	2.50	3.62	4.80	7.27	2.49	3.44	5.51	7.32	11.33	3.07	4.58	7.85	10.38	16.07
	24	1.79	2.50	3.62	4.80	7.27	2.49	3.44	5.51	7.32	11.33	3.07	4.58	7.85	10.38	16.07
10	12	1.79	2.50	3.62	4.80	7.27	2.49	3.44	5.51	7.32	11.33	3.07	4.58	7.85	10.38	16.07
	16	1.79	2.50	3.62	4.80	7.27	2.49	3.44	5.51	7.32	11.33	3.07	4.58	7.85	10.38	16.07
	24	1.75	2.50	3.62	4.80	7.27	2.49	3.44	5.51	7.32	11.33	3.07	4.58	7.85	10.38	16.07
12	12	1.79	2.50	3.62	4.80	7.27	2.49	3.44	5.51	7.32	11.33	3.07	4.58	7.85	10.38	16.07
	16	1.76	2.50	3.62	4.80	7.27	2.49	3.44	5.51	7.32	11.33	3.07	4.58	7.85	10.38	16.07
	24	1.46	2.49	3.62	4.80	7.27	2.17	3.44	5.51	7.32	11.33	2.76	4.58	7.85	10.38	16.07
14	12	1.74	2.50	3.62	4.80	7.27	2.49	3.44	5.51	7.32	11.33	3.03	4.51	7.70	10.25	16.07
	16	1.53	2.50	3.62	4.80	7.27	2.25	3.44	5.51	7.32	11.33	2.82	4.51	7.70	10.25	16.07
	24	1.12 [7]	2.17	3.62	4.80	7.27	1.75 [7]	3.13	5.51	7.32	11.33	2.24	4.27	7.70	10.25	16.07
16	12	1.53	2.50	3.62	4.80	7.27	2.24	3.44	5.51	7.32	11.33	2.75	4.40	7.41	9.87	15.52
	16	1.26 [7]	2.29	3.62	4.80	7.27	1.91 [7]	3.28	5.51	7.32	11.33	2.38	4.33	7.41	9.87	15.52
	24	0.74 [6]	1.81 [6]	3.56 [7]	4.80	7.27	1.27 [6]	2.67 [6]	5.51	7.32	11.33	1.66 [6]	3.62 [7]	7.41	9.87	15.52

1 Deflection exceeds L/120
2 Deflection exceeds L/240
3 Deflection exceeds L/360
6 Deflection exceeds L/600
7 Deflection exceeds L/720
– If not noted, deflection is less than L/720

See Combined Axial and Lateral Load Table Notes on page 20.

SSMA

Combined Axial and Lateral Load Tables

20 psf Lateral Load

Wall Height (ft)	Spacing (in.) o.c.	350S162-(mils) 33 ksi 33	43	50 ksi 54	68	362S137-(mils) 33 ksi 33	43	50 ksi 54	68	362S162-(mils) 33 ksi 33	43	50 ksi 54	68	362S200-(mils) 33 ksi 33	43	50 ksi 54	68
8	12	1.86	2.76	4.09	5.14	1.50	2.32	3.42	4.42	1.96	2.85	4.27	5.44	2.41	3.50	5.34	6.76
	16	1.61 [6]	2.63	4.09	5.14	1.27 [6]	2.15 [7]	3.42	4.42	1.71 [7]	2.76	4.27	5.44	2.14	3.44	5.34	6.76
	24	1.14 [6]	2.15 [6]	3.96 [7]	5.14	0.85 [6]	1.72 [6]	3.36 [6]	4.42 [7]	1.24 [6]	2.30 [6]	4.22 [7]	5.44	1.61 [6]	2.89 [7]	5.34	6.76
9	12	1.57 [6]	2.53 [7]	3.83	4.80	1.25 [6]	2.10 [7]	3.27	4.19	1.67 [6]	2.67	4.04	5.12	2.08 [7]	3.31	5.02	6.32
	16	1.27 [6]	2.24 [6]	3.83 [7]	4.80	0.99 [6]	1.83 [6]	3.27 [7]	4.19	1.37 [6]	2.38 [6]	4.04 [7]	5.12	1.76 [6]	2.96 [7]	5.02	6.32
	24	0.73 [3]	1.68 [3]	3.31 [6]	4.73 [6]	0.50 [3]	1.32 [3]	2.87 [6]	4.06 [6]	0.83 [3]	1.83 [6]	3.59 [6]	5.12 [6]	1.15 [3]	2.31 [6]	4.59 [6]	6.32 [7]
10	12	1.26 [6]	2.17 [6]	3.53 [7]	4.43	1.00 [6]	1.80 [6]	3.07 [6]	3.91	1.37 [6]	2.32 [6]	3.78 [7]	4.75	1.74 [6]	2.87 [7]	4.68	5.85
	16	0.94 [3]	1.84 [6]	3.26 [6]	4.43 [6]	0.71 [3]	1.49 [6]	2.87 [6]	3.91 [6]	1.04 [3]	1.98 [6]	3.56 [6]	4.75 [7]	1.37 [6]	2.47 [6]	4.50 [7]	5.85
	24	0.35 [2]	1.23 [3]	2.67 [3]	3.98 [6]	0.17 [2]	0.93 [3]	2.36 [3]	3.44 [6]	0.44 [2]	1.37 [3]	2.95 [3]	4.36 [6]	0.70 [3]	1.75 [3]	3.79 [6]	5.57 [6]
12	12	0.71 [2]	1.47 [3]	2.54 [6]	3.57 [6]	0.53 [2]	1.21 [3]	2.30 [3]	3.18 [6]	0.80 [3]	1.61 [3]	2.81 [6]	3.93 [6]	1.08 [3]	2.01 [6]	3.54 [6]	4.82 [6]
	16	0.35 [2]	1.09 [2]	2.19 [3]	3.23 [3]	0.19 [2]	0.85 [2]	1.99 [3]	2.85 [3]	0.43 [2]	1.22 [3]	2.44 [3]	3.57 [6]	0.66 [2]	1.55 [3]	3.12 [3]	4.53 [6]
	24		0.43 [2]	1.57 [2]	2.61 [2]		0.23 [2]	1.43 [2]	2.27 [2]		0.54 [2]	1.79 [2]	2.92 [3]		0.75 [2]	2.36 [2]	3.80 [3]
14	12	0.26 [2]	0.87 [2]	1.73 [2]	2.56 [3]	0.14 [2]	0.69 [2]	1.59 [2]	2.28 [3]	0.34 [2]	0.99 [2]	1.93 [3]	2.83 [3]	0.53 [2]	1.26 [3]	2.45 [3]	3.58 [6]
	16		0.49 [2]	1.38 [2]	2.21 [2]		0.33 [2]	1.28 [2]	1.95 [2]		0.60 [2]	1.57 [2]	2.47 [2]		0.80 [2]	2.03 [2]	3.18 [3]
	24			0.78 [1]	1.61 [2]			0.73 [1]	1.37 [2]			0.93 [2]	1.83 [2]			1.30 [2]	2.46 [2]
16	12		0.42 [2]	1.13 [2]	1.80 [2]		0.29 [1]	1.06 [2]	1.60 [2]		0.51 [2]	1.29 [2]	2.01 [2]	0.11 [2]	0.68 [2]	1.66 [2]	2.58 [3]
	16			0.80 [1]	1.47 [2]			0.75 [1]	1.28 [2]		0.14 [1]	0.94 [2]	1.66 [2]		0.24 [2]	1.26 [2]	2.19 [2]
	24			0.24 [1]	0.90 [1]			0.23 [1]	0.72 [1]			0.34 [1]	1.06 [1]			0.57 [1]	1.51 [2]

20 psf Lateral Load

Wall Height (ft)	Spacing (in.) o.c.	400S137-(mils) 33 ksi 33	43	50 ksi 54	68	400S162-(mils) 33 ksi 33	43	50 ksi 54	68	400S200-(mils) 33 ksi 33	43	50 ksi 54	68	550S162-(mils) 33 ksi 33	43	50 ksi 54	68
8	12	1.70	2.49	3.77	5.08	2.21	3.05	4.73	6.25	2.63	3.76	5.92	7.72	2.53	3.49	5.74	7.58
	16	1.49 [7]	2.44	3.77	5.08	1.98	3.05	4.73	6.25	2.43	3.76	5.92	7.72	2.53	3.49	5.74	7.58
	24	1.08 [6]	2.04 [6]	3.77	5.08	1.53 [6]	2.67 [7]	4.73	6.25	1.94 [7]	3.35	5.92	7.72	2.34	3.49	5.74	7.58
9	12	1.48 [7]	2.40	3.65	4.90	1.94	2.97	4.54	6.00	2.38	3.65	5.65	7.36	2.51	3.47	5.67	7.58
	16	1.22 [6]	2.14 [7]	3.65	4.90	1.66 [6]	2.76	4.54	6.00	2.07 [7]	3.43	5.65	7.36	2.46	3.47	5.67	7.58
	24	0.74 [3]	1.66 [6]	3.44 [6]	4.90 [7]	1.13 [6]	2.23 [6]	4.30 [6]	6.00	1.49 [6]	2.80 [6]	5.48 [7]	7.36	2.04	3.36	5.67	7.58
10	12	1.24 [6]	2.13 [7]	3.50	4.67	1.66 [6]	2.71 [7]	4.32	5.69	2.06 [7]	3.35	5.34	6.95	2.48	3.43	5.58	7.47
	16	0.94 [3]	1.83 [6]	3.47 [6]	4.67 [7]	1.33 [6]	2.38 [6]	4.30 [7]	5.69	1.70 [6]	2.96 [7]	5.34	6.95	2.21	3.43	5.58	7.47
	24	0.40 [2]	1.27 [3]	2.95 [6]	4.37 [6]	0.73 [3]	1.77 [3]	3.67 [6]	5.51 [6]	1.04 [3]	2.24 [6]	4.69 [6]	6.95 [7]	1.71 [6]	3.01	5.58	7.47
12	12	0.75 [3]	1.54 [3]	2.92 [6]	4.08 [6]	1.08 [3]	2.01 [6]	3.57 [6]	4.92 [7]	1.41 [6]	2.49 [6]	4.47 [6]	5.99	2.02 [7]	3.27	5.32	7.13
	16	0.41 [2]	1.18 [3]	2.59 [3]	3.75 [6]	0.70 [2]	1.61 [3]	3.17 [6]	4.67 [6]	0.98 [3]	2.02 [3]	4.00 [6]	5.88 [6]	1.66 [6]	2.91 [7]	5.32	7.13
	24		0.52 [2]	1.98 [2]	3.09 [3]		0.90 [2]	2.45 [3]	3.94 [3]	0.21 [2]	1.19 [2]	3.17 [3]	5.05 [6]	1.00 [3]	2.24 [6]	4.76 [6]	7.13 [7]
14	12	0.33 [2]	0.99 [2]	2.14 [3]	3.05 [3]	0.57 [2]	1.36 [3]	2.58 [3]	3.76 [6]	0.81 [2]	1.69 [3]	3.24 [6]	4.71 [6]	1.51 [6]	2.68 [6]	4.96 [7]	6.64
	16		0.59 [2]	1.78 [2]	2.66 [3]	0.17 [2]	0.93 [2]	2.16 [2]	3.34 [3]	0.36 [2]	1.19 [2]	2.76 [3]	4.24 [3]	1.08 [3]	2.24 [6]	4.49 [6]	6.64 [7]
	24			1.15 [2]	1.99 [2]		0.18 [2]	1.43 [2]	2.59 [2]		0.32 [2]	1.92 [2]	3.40 [2]	0.31 [2]	1.43 [3]	3.63 [3]	5.80 [6]
16	12		0.53 [2]	1.50 [2]	2.19 [2]	0.17 [2]	0.81 [2]	1.80 [2]	2.73 [3]	0.33 [2]	1.04 [2]	2.28 [3]	3.45 [3]	1.01 [3]	2.07 [6]	4.01 [6]	5.97 [6]
	16		0.14 [1]	1.14 [2]	1.82 [2]		0.38 [2]	1.39 [2]	2.32 [2]		0.54 [2]	1.82 [2]	2.99 [2]	0.54 [2]	1.57 [3]	3.49 [3]	5.42 [6]
	24			0.53 [1]	1.17 [1]			0.69 [1]	1.61 [2]			1.01 [2]	2.19 [2]		0.67 [2]	2.54 [2]	4.43 [3]

20 psf Lateral Load

Wall Height (ft)	Spacing (in.) o.c.	600S137-(mils) 33 ksi 33	43	50 ksi 54	68	97	600S162-(mils) 33 ksi 33	43	50 ksi 54	68	97	600S200-(mils) 33 ksi 33	43	50 ksi 54	68	97
8	12	1.88	2.62	3.90	5.14	7.62	2.55	3.52	5.72	7.56	11.50	2.99	4.44	7.56	10.02	15.60
	16	1.88	2.62	3.90	5.14	7.62	2.55	3.52	5.72	7.56	11.50	2.99	4.44	7.56	10.02	15.60
	24	1.76	2.62	3.90	5.14	7.62	2.49	3.52	5.72	7.56	11.50	2.99	4.44	7.56	10.02	15.60
9	12	1.88	2.62	3.90	5.14	7.62	2.55	3.52	5.72	7.56	11.50	2.97	4.40	7.46	9.89	15.38
	16	1.86	2.62	3.90	5.14	7.62	2.55	3.52	5.72	7.56	11.50	2.97	4.40	7.46	9.89	15.38
	24	1.55	2.57	3.90	5.14	7.62	2.24	3.52	5.72	7.56	11.50	2.69	4.40	7.46	9.89	15.38
10	12	1.88	2.62	3.90	5.14	7.62	2.54	3.52	5.72	7.56	11.50	2.95	4.35	7.33	9.72	15.11
	16	1.70	2.62	3.90	5.14	7.62	2.41	3.52	5.72	7.56	11.50	2.87	4.35	7.33	9.72	15.11
	24	1.32 [7]	2.34	3.90	5.14	7.62	1.95 [7]	3.29	5.72	7.56	11.50	2.36	4.12	7.33	9.72	15.11
12	12	1.61	2.62	3.90	5.14	7.62	2.24	3.44	5.60	7.52	11.50	2.67	4.22	6.99	9.27	14.40
	16	1.34 [6]	2.34 [7]	3.90	5.14	7.62	1.91 [7]	3.22	5.60	7.52	11.50	2.31 [7]	3.98	6.99	9.27	14.40
	24	0.81 [6]	1.82 [6]	3.76 [6]	5.14 [7]	7.62	1.29 [6]	2.59 [6]	5.34 [7]	7.52	11.50	1.63 [6]	3.23 [7]	6.82	9.27	14.40
14	12	1.28 [6]	2.27 [6]	3.90	5.14	7.62	1.78 [6]	3.02 [7]	5.32	7.13	11.28	2.15 [6]	3.70	6.55	8.68	13.45
	16	0.92 [3]	1.91 [6]	3.80 [6]	5.14 [7]	7.62	1.37 [6]	2.60 [6]	5.13 [7]	7.13	11.28	1.70 [6]	3.21 [6]	6.44 [7]	8.68	13.45
	24	0.26 [2]	1.23 [3]	3.18 [6]	4.73 [6]	7.62 [7]	0.61 [3]	1.82 [3]	4.29 [6]	6.68 [6]	11.28 [7]	0.87 [3]	2.28 [6]	5.46 [6]	8.38 [6]	13.45
16	12	0.91 [3]	1.88 [6]	3.73 [6]	5.14 [6]	7.62	1.29 [3]	2.44 [6]	4.69 [6]	6.62 [7]	10.42	1.61 [6]	2.99 [6]	5.82 [7]	7.97	12.32
	16	0.49 [2]	1.43 [3]	3.31 [6]	4.83 [6]	7.62 [7]	0.82 [3]	1.95 [3]	4.16 [6]	6.34 [6]	10.42 [7]	1.09 [3]	2.41 [6]	5.21 [6]	7.85 [6]	12.32
	24		0.62 [2]	2.54 [3]	4.00 [3]	6.94 [6]		1.06 [2]	3.20 [3]	5.35 [3]	9.60 [6]	0.15 [2]	1.36 [3]	4.11 [3]	6.73 [6]	11.84

1 Deflection exceeds L/120
2 Deflection exceeds L/240
3 Deflection exceeds L/360
6 Deflection exceeds L/600
7 Deflection exceeds L/720
– If not noted, deflection is less than L/720

See Combined Axial and Lateral Load Table Notes on page 20.

Combined Axial and Lateral Load Tables

20 psf Lateral Load

Wall Height (ft)	Spacing (in.) o.c.	800S137-(mils) 33 ksi 33	800S137-(mils) 33 ksi 43	800S137-(mils) 50 ksi 54	800S137-(mils) 50 ksi 68	800S137-(mils) 50 ksi 97	800S162-(mils) 33 ksi 33	800S162-(mils) 33 ksi 43	800S162-(mils) 50 ksi 54	800S162-(mils) 50 ksi 68	800S162-(mils) 50 ksi 97	800S200-(mils) 33 ksi 33	800S200-(mils) 33 ksi 43	800S200-(mils) 50 ksi 54	800S200-(mils) 50 ksi 68	800S200-(mils) 50 ksi 97
8	12	1.79	2.50	3.62	4.80	7.27	2.49	3.44	5.51	7.32	11.33	3.07	4.58	7.85	10.38	16.07
	16	1.79	2.50	3.62	4.80	7.27	2.49	3.44	5.51	7.32	11.33	3.07	4.58	7.85	10.38	16.07
	24	1.79	2.50	3.62	4.80	7.27	2.49	3.44	5.51	7.32	11.33	3.07	4.58	7.85	10.38	16.07
9	12	1.79	2.50	3.62	4.80	7.27	2.49	3.44	5.51	7.32	11.33	3.07	4.58	7.85	10.38	16.07
	16	1.79	2.50	3.62	4.80	7.27	2.49	3.44	5.51	7.32	11.33	3.07	4.58	7.85	10.38	16.07
	24	1.70	2.50	3.62	4.80	7.27	2.48	3.44	5.51	7.32	11.33	3.07	4.58	7.85	10.38	16.07
10	12	1.79	2.50	3.62	4.80	7.27	2.49	3.44	5.51	7.32	11.33	3.07	4.58	7.85	10.38	16.07
	16	1.79	2.50	3.62	4.80	7.27	2.49	3.44	5.51	7.32	11.33	3.07	4.58	7.85	10.38	16.07
	24	1.54	2.50	3.62	4.80	7.27	2.27	3.44	5.51	7.32	11.33	2.88	4.58	7.85	10.38	16.07
12	12	1.76	2.50	3.62	4.80	7.27	2.49	3.44	5.51	7.32	11.33	3.07	4.58	7.85	10.38	16.07
	16	1.56	2.50	3.62	4.80	7.27	2.29	3.44	5.51	7.32	11.33	2.91	4.58	7.85	10.38	16.07
	24	1.16	2.22	3.62	4.80	7.27	1.80	3.20	5.51	7.32	11.33	2.34	4.42	7.85	10.38	16.07
14	12	1.53	2.50	3.62	4.80	7.27	2.25	3.44	5.51	7.32	11.33	2.82	4.51	7.70	10.25	16.07
	16	1.26 [7]	2.30	3.62	4.80	7.27	1.91	3.29	5.51	7.32	11.33	2.43	4.46	7.70	10.25	16.07
	24	0.73 [6]	1.81 [6]	3.58	4.80	7.27	1.26 [6]	2.68 [7]	5.51	7.32	11.33	1.69 [6]	3.72	7.70	10.25	16.07
16	12	1.26 [7]	2.29	3.62	4.80	7.27	1.91 [7]	3.28	5.51	7.32	11.33	2.38	4.33	7.41	9.87	15.52
	16	0.91 [6]	1.97 [6]	3.62	4.80	7.27	1.48 [6]	2.87 [7]	5.51	7.32	11.33	1.90 [6]	3.85	7.41	9.87	15.52
	24	0.25 [3]	1.34 [6]	3.17 [6]	4.80 [7]	7.27	0.67 [3]	2.08 [6]	4.97 [6]	7.32 [7]	11.33	0.99 [6]	2.94 [6]	6.76 [7]	9.87	15.52

25 psf Lateral Load

Wall Height (ft)	Spacing (in.) o.c.	350S162-(mils) 33 ksi 33	350S162-(mils) 33 ksi 43	350S162-(mils) 50 ksi 54	350S162-(mils) 50 ksi 68	362S137-(mils) 33 ksi 33	362S137-(mils) 33 ksi 43	362S137-(mils) 50 ksi 54	362S137-(mils) 50 ksi 68	362S162-(mils) 33 ksi 33	362S162-(mils) 33 ksi 43	362S162-(mils) 50 ksi 54	362S162-(mils) 50 ksi 68	362S200-(mils) 33 ksi 33	362S200-(mils) 33 ksi 43	362S200-(mils) 50 ksi 54	362S200-(mils) 50 ksi 68
8	12	1.67 [7]	2.69	4.09	5.14	1.33 [6]	2.21	3.42	4.42	1.77 [7]	2.82	4.27	5.44	2.20	3.50	5.34	6.76
	16	1.37 [6]	2.39 [7]	4.09	5.14	1.06 [6]	1.93 [6]	3.42 [7]	4.42	1.47 [6]	2.53 [7]	4.27	5.44	1.87 [6]	3.16	5.34	6.76
	24	0.80 [3]	1.82 [6]	3.63 [6]	5.14 [7]	0.55 [3]	1.42 [6]	3.09 [6]	4.37 [6]	0.91 [3]	1.96 [6]	3.89 [6]	5.44 [7]	1.25 [6]	2.49 [6]	5.00 [7]	6.76
9	12	1.34 [6]	2.31 [6]	3.83 [7]	4.80	1.05 [6]	1.89 [6]	3.27 [7]	4.19	1.44 [6]	2.45 [7]	4.04	5.12	1.84 [6]	3.05	5.02	6.32
	16	0.99 [3]	1.95 [6]	3.57 [6]	4.80 [7]	0.74 [3]	1.57 [6]	3.10 [6]	4.19 [6]	1.10 [3]	2.10 [6]	3.85 [6]	5.12 [7]	1.44 [6]	2.63 [6]	4.90 [7]	6.32
	24	0.36 [2]	1.30 [3]	2.93 [3]	4.37 [6]	0.16 [2]	0.97 [3]	2.55 [3]	3.73 [6]	0.46 [2]	1.44 [3]	3.20 [6]	4.75 [6]	0.73 [3]	1.86 [6]	4.14 [6]	6.10 [6]
10	12	1.02 [3]	1.92 [6]	3.34 [6]	4.43 [7]	0.78 [3]	1.57 [6]	2.94 [6]	3.91 [6]	1.12 [3]	2.06 [6]	3.64 [6]	4.75 [7]	1.46 [6]	2.57 [6]	4.60 [7]	5.85
	16	0.63 [3]	1.52 [3]	2.96 [6]	4.26 [6]	0.43 [2]	1.20 [3]	2.61 [3]	3.69 [6]	0.73 [3]	1.66 [3]	3.25 [6]	4.64 [6]	1.03 [3]	2.10 [6]	4.14 [6]	5.85 [6]
	24		0.81 [2]	2.27 [3]	3.58 [3]		0.55 [2]	2.01 [2]	3.07 [3]		0.94 [2]	2.53 [3]	3.94 [3]	0.25 [2]	1.26 [3]	3.31 [3]	5.11 [6]
12	12	0.43 [2]	1.18 [2]	2.27 [3]	3.31 [3]	0.27 [2]	0.94 [2]	2.06 [3]	2.93 [3]	0.52 [2]	1.31 [3]	2.53 [3]	3.65 [6]	0.77 [2]	1.66 [3]	3.22 [6]	4.63 [6]
	16		0.75 [2]	1.87 [2]	2.91 [3]		0.53 [2]	1.70 [2]	2.55 [3]		0.87 [2]	2.10 [2]	3.23 [3]	0.28 [2]	1.14 [2]	2.72 [3]	4.15 [3]
	24			1.15 [2]	2.20 [2]			1.06 [2]	1.87 [2]			1.35 [2]	2.48 [2]		0.23 [2]	1.85 [2]	3.31 [2]
14	12		0.58 [2]	1.46 [2]	2.30 [2]		0.41 [2]	1.35 [2]	2.03 [2]		0.69 [2]	1.65 [2]	2.56 [3]	0.20 [2]	0.91 [2]	2.13 [2]	3.28 [3]
	16		0.15 [1]	1.07 [2]	1.90 [2]			0.99 [2]	1.65 [2]		0.24 [2]	1.23 [2]	2.14 [2]		0.38 [2]	1.65 [2]	2.80 [2]
	24			0.38 [1]	1.21 [1]			0.36 [1]	0.98 [1]			0.51 [1]	1.40 [2]			0.81 [1]	1.98 [2]
16	12		0.15 [1]	0.88 [2]	1.55 [2]			0.82 [1]	1.35 [2]		0.23 [1]	1.02 [2]	1.75 [2]		0.34 [2]	1.35 [2]	2.28 [2]
	16			0.51 [1]	1.17 [1]			0.48 [1]	0.99 [1]			0.62 [1]	1.35 [2]			0.90 [1]	1.83 [2]
	24				0.52 [1]				0.36 [1]				0.66 [1]			0.12 [1]	1.06 [1]

25 psf Lateral Load

Wall Height (ft)	Spacing (in.) o.c.	400S137-(mils) 33 ksi 33	400S137-(mils) 33 ksi 43	400S137-(mils) 50 ksi 54	400S137-(mils) 50 ksi 68	400S162-(mils) 33 ksi 33	400S162-(mils) 33 ksi 43	400S162-(mils) 50 ksi 54	400S162-(mils) 50 ksi 68	400S200-(mils) 33 ksi 33	400S200-(mils) 33 ksi 43	400S200-(mils) 50 ksi 54	400S200-(mils) 50 ksi 68	550S162-(mils) 33 ksi 33	550S162-(mils) 33 ksi 43	550S162-(mils) 50 ksi 54	550S162-(mils) 50 ksi 68
8	12	1.54	2.49	3.77	5.08	2.03	3.05	4.73	6.25	2.49	3.76	5.92	7.72	2.53	3.49	5.74	7.58
	16	1.28 [6]	2.24 [7]	3.77	5.08	1.75 [7]	2.89	4.73	6.25	2.18	3.61	5.92	7.72	2.51	3.49	5.74	7.58
	24	0.79 [6]	1.75 [6]	3.62 [6]	5.08 [7]	1.21 [6]	2.36 [6]	4.58 [7]	6.25	1.58 [6]	2.97 [7]	5.86	7.72	2.09	3.43	5.74	7.58
9	12	1.28 [6]	2.21 [7]	3.65	4.90	1.73 [6]	2.83	4.54	6.00	2.15 [7]	3.52	5.65	7.36	2.51	3.47	5.67	7.58
	16	0.98 [6]	1.90 [6]	3.65 [7]	4.90	1.39 [6]	2.49 [6]	4.54 [7]	6.00	1.77 [6]	3.11 [7]	5.65	7.36	2.25	3.47	5.67	7.58
	24	0.41 [3]	1.31 [3]	3.12 [6]	4.65 [6]	0.76 [3]	1.85 [6]	3.91 [6]	5.88 [6]	1.07 [3]	2.35 [6]	5.03 [6]	7.36 [7]	1.73 [7]	3.06	5.67	7.58
10	12	1.02 [6]	1.90 [6]	3.50 [7]	4.67	1.41 [6]	2.46 [6]	4.32 [7]	5.69	1.79 [6]	3.06 [7]	5.34	6.95	2.28	3.43	5.58	7.47
	16	0.67 [3]	1.54 [6]	3.20 [6]	4.64 [6]	1.02 [3]	2.07 [6]	3.98 [6]	5.69 [7]	1.36 [6]	2.59 [6]	5.04 [7]	6.95	1.96 [7]	3.26	5.58	7.47
	24		0.88 [3]	2.59 [3]	3.97 [6]	0.32 [2]	1.34 [3]	3.23 [3]	5.07 [6]	0.58 [3]	1.74 [3]	4.18 [6]	6.45 [6]	1.34 [6]	2.65 [6]	5.42	7.47
12	12	0.49 [2]	1.26 [3]	2.67 [3]	3.84 [6]	0.79 [3]	1.71 [3]	3.27 [6]	4.77 [6]	1.08 [3]	2.14 [6]	4.12 [6]	5.99 [6]	1.75 [6]	3.00 [7]	5.32	7.13
	16		0.84 [2]	2.27 [3]	3.41 [3]	0.35 [2]	1.24 [3]	2.80 [3]	4.29 [6]	0.58 [2]	1.59 [3]	3.58 [3]	5.45 [6]	1.33 [6]	2.57 [6]	5.12 [7]	7.13
	24			1.56 [2]	2.64 [2]		0.42 [2]	1.96 [2]	3.44 [3]		0.62 [2]	2.61 [2]	4.49 [3]	0.54 [3]	1.76 [3]	4.26 [6]	6.66 [6]
14	12		0.69 [2]	1.87 [2]	2.76 [3]	0.26 [2]	1.03 [2]	2.26 [3]	3.44 [3]	0.47 [2]	1.32 [3]	2.88 [3]	4.35 [6]	1.19 [3]	2.35 [6]	4.61 [6]	6.64 [7]
	16		0.24 [2]	1.45 [2]	2.31 [2]		0.54 [2]	1.78 [2]	2.95 [2]		0.74 [2]	2.32 [2]	3.81 [3]	0.69 [3]	1.82 [3]	4.05 [6]	6.24 [6]
	24			0.73 [1]	1.54 [2]			0.95 [2]	2.10 [2]			1.37 [2]	2.85 [2]		0.87 [2]	3.04 [3]	5.19 [3]
16	12		0.23 [1]	1.23 [2]	1.91 [2]		0.48 [2]	1.49 [2]	2.42 [2]		0.66 [2]	1.93 [2]	3.10 [3]	0.65 [2]	1.69 [3]	3.61 [3]	5.55 [6]
	16			0.82 [1]	1.48 [2]			1.02 [2]	1.95 [2]			1.40 [2]	2.58 [2]	0.11 [2]	1.10 [2]	3.00 [3]	4.91 [3]
	24			0.13 [1]	0.74 [1]			0.23 [1]	1.14 [1]			0.49 [1]	1.67 [2]			1.91 [2]	3.76 [2]

1 Deflection exceeds L/120
2 Deflection exceeds L/240
3 Deflection exceeds L/360
6 Deflection exceeds L/600
7 Deflection exceeds L/720
– If not noted, deflection is less than L/720

See Combined Axial and Lateral Load Table Notes on page 20.

SSMA

Combined Axial and Lateral Load Tables

25 psf Lateral Load

Wall Height (ft)	Spacing (in.) o.c.	600S137-(mils) 33 ksi 33	33 ksi 43	50 ksi 54	50 ksi 68	50 ksi 97	600S162-(mils) 33 ksi 33	33 ksi 43	50 ksi 54	50 ksi 68	50 ksi 97	600S200-(mils) 33 ksi 33	33 ksi 43	50 ksi 54	50 ksi 68	50 ksi 97
8	12	1.88	2.62	3.90	5.14	7.62	2.55	3.52	5.72	7.56	11.50	2.99	4.44	7.56	10.02	15.60
	16	1.88	2.62	3.90	5.14	7.62	2.55	3.52	5.72	7.56	11.50	2.99	4.44	7.56	10.02	15.60
	24	1.57	2.59	3.90	5.14	7.62	2.27	3.52	5.72	7.56	11.50	2.74	4.44	7.56	10.02	15.60
9	12	1.88	2.62	3.90	5.14	7.62	2.55	3.52	5.72	7.56	11.50	2.97	4.40	7.46	9.89	15.38
	16	1.71	2.62	3.90	5.14	7.62	2.42	3.52	5.72	7.56	11.50	2.90	4.40	7.46	9.89	15.38
	24	1.32 [7]	2.34	3.90	5.14	7.62	1.96	3.30	5.72	7.56	11.50	2.38	4.18	7.46	9.89	15.38
10	12	1.75	2.62	3.90	5.14	7.62	2.47	3.52	5.72	7.56	11.50	2.93	4.35	7.33	9.72	15.11
	16	1.51	2.53	3.90	5.14	7.62	2.18	3.52	5.72	7.56	11.50	2.61	4.35	7.33	9.72	15.11
	24	1.04 [6]	2.07 [7]	3.90	5.14	7.62	1.61 [6]	2.96	5.72	7.56	11.50	1.99 [7]	3.72	7.33	9.72	15.11
12	12	1.41 [6]	2.41	3.90	5.14	7.62	2.00 [7]	3.30	5.60	7.52	11.50	2.40	4.08	6.99	9.27	14.40
	16	1.07 [6]	2.08 [6]	3.90 [7]	5.14	7.62	1.60 [6]	2.90 [7]	5.60	7.52	11.50	1.97 [6]	3.60	6.99	9.27	14.40
	24	0.43 [3]	1.44 [6]	3.42 [6]	5.01 [6]	7.62	0.85 [3]	2.14 [6]	4.86 [6]	7.44 [7]	11.50	1.14 [6]	2.70 [6]	6.25 [7]	9.27	14.40
14	12	1.01 [6]	2.00 [6]	3.89 [6]	5.14 [7]	7.62	1.47 [6]	2.71 [6]	5.24 [7]	7.13	11.28	1.81 [6]	3.33 [7]	6.55	8.68	13.45
	16	0.58 [3]	1.56 [3]	3.49 [6]	5.05 [6]	7.62	0.98 [3]	2.20 [6]	4.70 [6]	7.11 [7]	11.28	1.28 [3]	2.73 [6]	5.94 [6]	8.68 [7]	13.45
	24		0.75 [2]	2.74 [3]	4.26 [3]	7.30 [6]		1.27 [3]	3.70 [3]	6.08 [6]	10.88 [6]	0.29 [2]	1.64 [3]	4.78 [6]	7.70 [6]	13.45 [7]
16	12	0.59 [3]	1.54 [3]	3.41 [6]	4.94 [6]	7.62 [7]	0.93 [3]	2.07 [3]	4.29 [6]	6.48 [6]	10.42	1.21 [3]	2.55 [6]	5.36 [6]	7.97 [7]	12.32
	16		1.01 [2]	2.92 [3]	4.41 [3]	7.40 [6]	0.38 [2]	1.49 [3]	3.67 [3]	5.83 [6]	10.20 [6]	0.60 [2]	1.87 [3]	4.64 [6]	7.28 [6]	12.32 [7]
	24			2.01 [2]	3.43 [2]	6.28 [3]		0.45 [2]	2.55 [2]	4.66 [3]	8.76 [6]		0.65 [2]	3.36 [3]	5.97 [3]	10.93 [6]

25 psf Lateral Load

Wall Height (ft)	Spacing (in.) o.c.	800S137-(mils) 33 ksi 33	33 ksi 43	50 ksi 54	50 ksi 68	50 ksi 97	800S162-(mils) 33 ksi 33	33 ksi 43	50 ksi 54	50 ksi 68	50 ksi 97	800S200-(mils) 33 ksi 33	33 ksi 43	50 ksi 54	50 ksi 68	50 ksi 97
8	12	1.79	2.50	3.62	4.80	7.27	2.49	3.44	5.51	7.32	11.33	3.07	4.58	7.85	10.38	16.07
	16	1.79	2.50	3.62	4.80	7.27	2.49	3.44	5.51	7.32	11.33	3.07	4.58	7.85	10.38	16.07
	24	1.71	2.50	3.62	4.80	7.27	2.49	3.44	5.51	7.32	11.33	3.07	4.58	7.85	10.38	16.07
9	12	1.79	2.50	3.62	4.80	7.27	2.49	3.44	5.51	7.32	11.33	3.07	4.58	7.85	10.38	16.07
	16	1.79	2.50	3.62	4.80	7.27	2.49	3.44	5.51	7.32	11.33	3.07	4.58	7.85	10.38	16.07
	24	1.53	2.50	3.62	4.80	7.27	2.27	3.44	5.51	7.32	11.33	2.88	4.58	7.85	10.38	16.07
10	12	1.79	2.50	3.62	4.80	7.27	2.49	3.44	5.51	7.32	11.33	3.07	4.58	7.85	10.38	16.07
	16	1.68	2.50	3.62	4.80	7.27	2.44	3.44	5.51	7.32	11.33	3.07	4.58	7.85	10.38	16.07
	24	1.33	2.38	3.62	4.80	7.27	2.02	3.40	5.51	7.32	11.33	2.59	4.58	7.85	10.38	16.07
12	12	1.61	2.50	3.62	4.80	7.27	2.36	3.44	5.51	7.32	11.33	2.98	4.58	7.85	10.38	16.07
	16	1.36	2.40	3.62	4.80	7.27	2.05	3.42	5.51	7.32	11.33	2.62	4.58	7.85	10.38	16.07
	24	0.87 [6]	1.95	3.62	4.80	7.27	1.45 [7]	2.86	5.51	7.32	11.33	1.92	4.01	7.85	10.38	16.07
14	12	1.32	2.36	3.62	4.80	7.27	2.00	3.37	5.51	7.32	11.33	2.53	4.51	7.70	10.25	16.07
	16	0.99 [6]	2.05 [7]	3.62	4.80	7.27	1.58 [7]	2.98	5.51	7.32	11.33	2.05 [7]	4.09	7.70	10.25	16.07
	24	0.34 [6]	1.45 [6]	3.28 [6]	4.80	7.27	0.79 [6]	2.23 [6]	5.16 [7]	7.32	11.33	1.15 [6]	3.19 [7]	7.27	10.25	16.07
16	12	1.00 [6]	2.05 [7]	3.62	4.80	7.27	1.59 [6]	2.97 [7]	5.51	7.32	11.33	2.02 [7]	3.97	7.41	9.87	15.52
	16	0.58 [6]	1.65 [6]	3.43 [6]	4.80	7.27	1.07 [6]	2.47 [6]	5.34 [7]	7.32	11.33	1.44 [6]	3.39 [7]	7.24	9.87	15.52
	24		0.89 [3]	2.78 [6]	4.47 [6]	7.27 [7]		1.53 [3]	4.43 [6]	6.93 [6]	11.33	0.35 [3]	2.29 [6]	6.06 [6]	9.53 [7]	15.52

30 psf Lateral Load

Wall Height (ft)	Spacing (in.) o.c.	350S162-(mils) 33 ksi 33	33 ksi 43	50 ksi 54	50 ksi 68	362S137-(mils) 33 ksi 33	33 ksi 43	50 ksi 54	50 ksi 68	362S162-(mils) 33 ksi 33	33 ksi 43	50 ksi 54	50 ksi 68	362S200-(mils) 33 ksi 33	33 ksi 43	50 ksi 54	50 ksi 68
8	12	1.49 [6]	2.51 [7]	4.09	5.14	1.16 [6]	2.04 [7]	3.42	4.42	1.59 [6]	2.64	4.27	5.44	2.00 [7]	3.30	5.34	6.76
	16	1.14 [6]	2.15 [6]	3.96 [7]	5.14	0.85 [6]	1.72 [6]	3.36 [6]	4.42 [7]	1.24 [6]	2.30 [6]	4.22 [7]	5.44	1.61 [6]	2.89 [7]	5.34	6.76
	24	0.49 [3]	1.50 [3]	3.31 [6]	4.87 [6]	0.26 [3]	1.13 [3]	2.82 [6]	4.10 [6]	0.59 [3]	1.64 [6]	3.57 [6]	5.25 [6]	0.89 [3]	2.11 [6]	4.62 [6]	6.76 [7]
9	12	1.13 [6]	2.09 [6]	3.71 [6]	4.80 [7]	0.86 [3]	1.70 [6]	3.21 [6]	4.19 [7]	1.23 [6]	2.24 [6]	3.99 [7]	5.12	1.60 [6]	2.80 [7]	5.02	6.32
	16	0.73 [3]	1.68 [3]	3.31 [6]	4.73 [6]	0.50 [3]	1.32 [3]	2.87 [6]	4.06 [6]	0.83 [3]	1.83 [6]	3.59 [6]	5.12 [6]	1.15 [3]	2.31 [6]	4.59 [6]	6.32 [7]
	24		0.94 [2]	2.58 [3]	4.02 [3]		0.64 [2]	2.25 [3]	3.41 [3]	0.11 [2]	1.08 [3]	2.84 [3]	4.40 [6]	0.33 [2]	1.43 [3]	3.71 [6]	5.70 [6]
10	12	0.78 [3]	1.68 [3]	3.11 [6]	4.40 [6]	0.56 [3]	1.35 [3]	2.74 [6]	3.83 [6]	0.88 [3]	1.82 [6]	3.40 [6]	4.75 [6]	1.20 [3]	2.29 [6]	4.32 [6]	5.85 [7]
	16	0.35 [2]	1.23 [3]	2.67 [3]	3.98 [6]	0.17 [2]	0.93 [3]	2.36 [3]	3.44 [6]	0.44 [2]	1.37 [3]	2.95 [3]	4.36 [6]	0.70 [3]	1.75 [3]	3.79 [6]	5.57 [6]
	24		0.42 [2]	1.89 [2]	3.21 [3]		0.19 [2]	1.68 [2]	2.72 [3]		0.55 [2]	2.14 [2]	3.56 [3]		0.79 [2]	2.85 [3]	4.67 [3]
12	12	0.18 [2]	0.91 [2]	2.03 [3]	3.07 [3]		0.69 [2]	1.84 [2]	2.70 [3]	0.26 [2]	1.04 [2]	2.27 [3]	3.40 [3]	0.47 [2]	1.34 [3]	2.92 [3]	4.34 [6]
	16		0.43 [2]	1.57 [2]	2.61 [2]		0.23 [2]	1.43 [2]	2.27 [2]		0.54 [2]	1.79 [2]	2.92 [3]		0.75 [2]	2.36 [2]	3.80 [3]
	24			0.77 [2]	1.82 [2]			0.71 [1]	1.51 [2]			0.94 [2]	2.08 [2]			1.38 [2]	2.85 [2]
14	12		0.32 [2]	1.22 [2]	2.05 [2]		0.16 [1]	1.13 [2]	1.79 [2]		0.42 [2]	1.40 [2]	2.30 [2]		0.58 [2]	1.84 [2]	2.98 [3]
	16			0.78 [1]	1.61 [2]			0.73 [1]	1.37 [2]			0.93 [2]	1.83 [2]			1.30 [2]	2.46 [2]
	24				0.84 [1]				0.62 [1]			0.12 [1]	1.02 [1]			0.37 [1]	1.54 [2]
16	12			0.65 [1]	1.32 [2]			0.61 [1]	1.13 [1]			0.77 [1]	1.50 [2]			1.07 [2]	2.01 [2]
	16			0.24 [1]	0.90 [1]			0.23 [1]	0.72 [1]			0.34 [1]	1.06 [1]			0.57 [1]	1.51 [2]
	24				0.18 [1]								0.29 [1]				0.65 [1]

1 Deflection exceeds L/120
2 Deflection exceeds L/240
3 Deflection exceeds L/360
6 Deflection exceeds L/600
7 Deflection exceeds L/720
– If not noted, deflection is less than L/720

See Combined Axial and Lateral Load Table Notes on page 20.

Combined Axial and Lateral Load Tables

30 psf Lateral Load

Wall Height (ft)	Spacing (in.) o.c.	400S137-(mils) 33 ksi 33	400S137-(mils) 33 ksi 43	400S137-(mils) 50 ksi 54	400S137-(mils) 50 ksi 68	400S162-(mils) 33 ksi 33	400S162-(mils) 33 ksi 43	400S162-(mils) 50 ksi 54	400S162-(mils) 50 ksi 68	400S200-(mils) 33 ksi 33	400S200-(mils) 33 ksi 43	400S200-(mils) 50 ksi 54	400S200-(mils) 50 ksi 68	550S162-(mils) 33 ksi 33	550S162-(mils) 33 ksi 43	550S162-(mils) 50 ksi 54	550S162-(mils) 50 ksi 68
8	12	1.39 [7]	2.34	3.77	5.08	1.86 [7]	3.00	4.73	6.25	2.30	3.74	5.92	7.72	2.53	3.49	5.74	7.58
	16	1.08 [6]	2.04 [6]	3.77	5.08	1.53 [6]	2.67 [7]	4.73	6.25	1.94 [7]	3.35	5.92	7.72	2.34	3.49	5.74	7.58
	24	0.52 [3]	1.46 [6]	3.36 [6]	4.99 [6]	0.90 [3]	2.05 [6]	4.26 [6]	6.25 [7]	1.24 [6]	2.60 [6]	5.49 [7]	7.72	1.85	3.19	5.74	7.58
9	12	1.10 [6]	2.02 [6]	3.65 [7]	4.90	1.52 [6]	2.63 [7]	4.54	6.00	1.92 [6]	3.27	5.65	7.36	2.35	3.47	5.67	7.58
	16	0.74 [3]	1.66 [6]	3.44 [6]	4.90 [7]	1.13 [6]	2.23 [6]	4.30 [6]	6.00	1.49 [6]	2.80 [6]	5.48 [7]	7.36	2.04	3.36	5.67	7.58
	24		0.98 [3]	2.81 [3]	4.31 [6]	0.40 [3]	1.49 [3]	3.54 [6]	5.51 [6]	0.68 [3]	1.93 [6]	4.59 [6]	7.04 [6]	1.43 [6]	2.76 [7]	5.62	7.58
10	12	0.80 [3]	1.68 [6]	3.34 [6]	4.67 [7]	1.17 [6]	2.22 [6]	4.14 [6]	5.69 [7]	1.53 [6]	2.78 [6]	5.23 [7]	6.95	2.08	3.39	5.58	7.47
	16	0.40 [2]	1.27 [3]	2.95 [6]	4.37 [6]	0.73 [3]	1.77 [3]	3.67 [6]	5.51 [6]	1.04 [3]	2.24 [6]	4.69 [6]	6.95 [7]	1.71 [6]	3.01	5.58	7.47
	24		0.51 [2]	2.24 [3]	3.59 [3]		0.94 [2]	2.82 [3]	4.64 [3]	0.15 [2]	1.26 [3]	3.70 [3]	5.98 [6]	0.99 [6]	2.30 [6]	5.05 [7]	7.47
12	12	0.25 [2]	1.00 [2]	2.43 [3]	3.57 [3]	0.52 [2]	1.42 [3]	2.98 [3]	4.48 [6]	0.77 [3]	1.80 [3]	3.79 [6]	5.66 [6]	1.49 [6]	2.74 [6]	5.30 [7]	7.13
	16		0.52 [2]	1.98 [2]	3.09 [3]		0.90 [2]	2.45 [3]	3.94 [3]	0.21 [2]	1.19 [2]	3.17 [3]	5.05 [6]	1.00 [3]	2.24 [6]	4.76 [6]	7.13 [7]
	24			1.18 [2]	2.22 [2]			1.51 [2]	2.97 [2]			2.09 [2]	3.96 [3]		1.31 [3]	3.77 [3]	6.17 [6]
14	12		0.41 [2]	1.61 [2]	2.48 [2]		0.73 [2]	1.97 [2]	3.14 [3]	0.15 [2]	0.96 [2]	2.54 [3]	4.02 [3]	0.88 [3]	2.03 [6]	4.27 [6]	6.47 [6]
	16			1.15 [2]	1.99 [2]		0.18 [2]	1.43 [2]	2.59 [2]		0.32 [2]	1.92 [2]	3.40 [2]	0.31 [2]	1.43 [3]	3.63 [3]	5.80 [6]
	24			0.35 [1]	1.12 [1]			0.50 [1]	1.64 [2]			0.86 [2]	2.33 [2]		0.35 [2]	2.48 [2]	4.60 [3]
16	12			0.98 [2]	1.64 [2]		0.19 [1]	1.21 [2]	2.13 [2]		0.31 [2]	1.60 [2]	2.78 [2]	0.32 [2]	1.33 [3]	3.24 [3]	5.16 [6]
	16			0.53 [1]	1.17 [1]			0.69 [1]	1.61 [2]			1.01 [2]	2.19 [2]		0.67 [2]	2.54 [2]	4.43 [3]
	24				0.35 [1]				0.71 [1]				1.19 [1]			1.33 [2]	3.14 [2]

30 psf Lateral Load

Wall Height (ft)	Spacing (in.) o.c.	600S137-(mils) 33 ksi 33	600S137-(mils) 33 ksi 43	600S137-(mils) 50 ksi 54	600S137-(mils) 50 ksi 68	600S137-(mils) 50 ksi 97	600S162-(mils) 33 ksi 33	600S162-(mils) 33 ksi 43	600S162-(mils) 50 ksi 54	600S162-(mils) 50 ksi 68	600S162-(mils) 50 ksi 97	600S200-(mils) 33 ksi 33	600S200-(mils) 33 ksi 43	600S200-(mils) 50 ksi 54	600S200-(mils) 50 ksi 68	600S200-(mils) 50 ksi 97
8	12	1.88	2.62	3.90	5.14	7.62	2.55	3.52	5.72	7.56	11.50	2.99	4.44	7.56	10.02	15.60
	16	1.76	2.62	3.90	5.14	7.62	2.49	3.52	5.72	7.56	11.50	2.99	4.44	7.56	10.02	15.60
	24	1.39	2.42	3.90	5.14	7.62	2.05	3.39	5.72	7.56	11.50	2.50	4.33	7.56	10.02	15.60
9	12	1.78	2.62	3.90	5.14	7.62	2.52	3.52	5.72	7.56	11.50	2.97	4.40	7.46	9.89	15.38
	16	1.55	2.57	3.90	5.14	7.62	2.24	3.52	5.72	7.56	11.50	2.69	4.40	7.46	9.89	15.38
	24	1.09 [6]	2.12	3.90	5.14	7.62	1.68 [7]	3.03	5.72	7.56	11.50	2.08	3.85	7.46	9.89	15.38
10	12	1.61	2.62	3.90	5.14	7.62	2.29	3.52	5.72	7.56	11.50	2.74	4.35	7.33	9.72	15.11
	16	1.32 [7]	2.34	3.90	5.14	7.62	1.95 [7]	3.29	5.72	7.56	11.50	2.36	4.12	7.33	9.72	15.11
	24	0.77 [6]	1.80 [6]	3.77 [7]	5.14	7.62	1.28 [6]	2.63 [7]	5.50	7.56	11.50	1.63 [6]	3.33 [7]	7.20	9.72	15.11
12	12	1.20 [6]	2.21 [7]	3.90	5.14	7.62	1.75 [6]	3.06 [7]	5.60	7.52	11.50	2.14 [7]	3.79	6.99	9.27	14.40
	16	0.81 [6]	1.82 [6]	3.76 [6]	5.14 [7]	7.62	1.29 [6]	2.59 [6]	5.34 [7]	7.52	11.50	1.63 [6]	3.23 [7]	6.82	9.27	14.40
	24		1.07 [3]	3.10 [6]	4.66 [6]	7.62 [7]	0.42 [3]	1.71 [3]	4.40 [6]	6.97 [6]	11.50	0.68 [3]	2.18 [6]	5.70 [6]	8.89 [7]	14.40
14	12	0.75 [3]	1.73 [6]	3.64 [6]	5.14 [6]	7.62	1.17 [3]	2.40 [6]	4.91 [6]	7.13 [7]	11.28	1.49 [6]	2.97 [6]	6.18 [7]	8.68	13.45
	16	0.26 [2]	1.23 [3]	3.18 [6]	4.73 [6]	7.62 [7]	0.61 [3]	1.82 [3]	4.29 [6]	6.68 [6]	11.28 [7]	0.87 [3]	2.28 [6]	5.46 [6]	8.38 [6]	13.45
	24		0.30 [2]	2.33 [3]	3.81 [3]	6.80 [6]		0.76 [2]	3.14 [3]	5.50 [3]	10.18 [6]		1.03 [3]	4.13 [3]	7.05 [6]	12.71 [6]
16	12	0.28 [2]	1.22 [3]	3.11 [3]	4.62 [6]	7.62 [6]	0.60 [2]	1.72 [3]	3.91 [6]	6.08 [6]	10.42 [7]	0.84 [3]	2.14 [3]	4.92 [6]	7.56 [6]	12.32 [7]
	16		0.62 [2]	2.54 [3]	4.00 [3]	6.94 [6]		1.06 [2]	3.20 [3]	5.35 [3]	9.60 [6]	0.15 [2]	1.36 [3]	4.11 [3]	6.73 [6]	11.84 [6]
	24			1.52 [2]	2.89 [2]	5.66 [3]			1.94 [2]	4.02 [2]	7.98 [3]			2.66 [2]	5.25 [3]	10.08 [3]

30 psf Lateral Load

Wall Height (ft)	Spacing (in.) o.c.	800S137-(mils) 33 ksi 33	800S137-(mils) 33 ksi 43	800S137-(mils) 50 ksi 54	800S137-(mils) 50 ksi 68	800S137-(mils) 50 ksi 97	800S162-(mils) 33 ksi 33	800S162-(mils) 33 ksi 43	800S162-(mils) 50 ksi 54	800S162-(mils) 50 ksi 68	800S162-(mils) 50 ksi 97	800S200-(mils) 33 ksi 33	800S200-(mils) 33 ksi 43	800S200-(mils) 50 ksi 54	800S200-(mils) 50 ksi 68	800S200-(mils) 50 ksi 97
8	12	1.79	2.50	3.62	4.80	7.27	2.49	3.44	5.51	7.32	11.33	3.07	4.58	7.85	10.38	16.07
	16	1.79	2.50	3.62	4.80	7.27	2.49	3.44	5.51	7.32	11.33	3.07	4.58	7.85	10.38	16.07
	24	1.58	2.50	3.62	4.80	7.27	2.33	3.44	5.51	7.32	11.33	2.95	4.58	7.85	10.38	16.07
9	12	1.79	2.50	3.62	4.80	7.27	2.49	3.44	5.51	7.32	11.33	3.07	4.58	7.85	10.38	16.07
	16	1.70	2.50	3.62	4.80	7.27	2.48	3.44	5.51	7.32	11.33	3.07	4.58	7.85	10.38	16.07
	24	1.36	2.41	3.62	4.80	7.27	2.06	3.44	5.51	7.32	11.33	2.64	4.58	7.85	10.38	16.07
10	12	1.75	2.50	3.62	4.80	7.27	2.49	3.44	5.51	7.32	11.33	3.07	4.58	7.85	10.38	16.07
	16	1.54	2.50	3.62	4.80	7.27	2.27	3.44	5.51	7.32	11.33	2.88	4.58	7.85	10.38	16.07
	24	1.12	2.19	3.62	4.80	7.27	1.77	3.17	5.51	7.32	11.33	2.30	4.40	7.85	10.38	16.07
12	12	1.46	2.49	3.62	4.80	7.27	2.17	3.44	5.51	7.32	11.33	2.76	4.58	7.85	10.38	16.07
	16	1.16	2.22	3.62	4.80	7.27	1.80	3.20	5.51	7.32	11.33	2.34	4.42	7.85	10.38	16.07
	24	0.58 [6]	1.68 [7]	3.49	4.80	7.27	1.09 [6]	2.53 [7]	5.47	7.32	11.33	1.52 [7]	3.62	7.85	10.38	16.07
14	12	1.12 [7]	2.17	3.62	4.80	7.27	1.75 [7]	3.13	5.51	7.32	11.33	2.24	4.27	7.70	10.25	16.07
	16	0.73 [6]	1.81 [6]	3.58	4.80	7.27	1.26 [6]	2.68 [7]	5.51	7.32	11.33	1.69 [6]	3.72	7.70	10.25	16.07
	24		1.09 [6]	2.98 [6]	4.67 [7]	7.27	0.34 [3]	1.79 [6]	4.74 [6]	7.26 [7]	11.33	0.63 [6]	2.67 [6]	6.71 [7]	10.25	16.07
16	12	0.74 [6]	1.81 [6]	3.56 [7]	4.80	7.27	1.27 [6]	2.67 [6]	5.51	7.32	11.33	1.66 [6]	3.62 [7]	7.41	9.87	15.52
	16	0.25 [3]	1.34 [6]	3.17 [6]	4.80 [7]	7.27	0.67 [3]	2.08 [6]	4.97 [6]	7.32 [7]	11.33	0.99 [6]	2.94 [6]	6.76 [7]	9.87	15.52
	24		0.45 [3]	2.40 [3]	4.11 [6]	7.19 [6]		0.99 [3]	3.91 [6]	6.41 [6]	11.32 [7]		1.67 [3]	5.38 [6]	8.88 [6]	15.52 [7]

1 Deflection exceeds L/120
2 Deflection exceeds L/240
3 Deflection exceeds L/360
6 Deflection exceeds L/600
7 Deflection exceeds L/720
– If not noted, deflection is less than L/720

See Combined Axial and Lateral Load Table Notes on page 20.

SSMA

Combined Axial and Lateral Load Tables

35 psf Lateral Load

Wall Height (ft)	Spacing (in.) o.c.	350S162-(mils) 33 ksi 33	350S162-(mils) 33 ksi 43	350S162-(mils) 50 ksi 54	350S162-(mils) 50 ksi 68	362S137-(mils) 33 ksi 33	362S137-(mils) 33 ksi 43	362S137-(mils) 50 ksi 54	362S137-(mils) 50 ksi 68	362S162-(mils) 33 ksi 33	362S162-(mils) 33 ksi 43	362S162-(mils) 50 ksi 54	362S162-(mils) 50 ksi 68	362S200-(mils) 33 ksi 33	362S200-(mils) 33 ksi 43	362S200-(mils) 50 ksi 54	362S200-(mils) 50 ksi 68
8	12	1.31 6	2.33 6	4.09 7	5.14	1.00 6	1.88 6	3.42 7	4.42	1.41 6	2.47 7	4.27	5.44	1.81 6	3.09	5.34	6.76
	16	0.91 3	1.93 6	3.74 6	5.14 7	0.65 3	1.52 6	3.18 6	4.42 7	1.02 6	2.07 6	4.00 6	5.44 7	1.37 6	2.62 6	5.12 7	6.76
	24	0.18 2	1.19 3	3.00 3	4.57 6		0.85 3	2.57 3	3.83 6	0.29 3	1.33 3	3.25 6	4.95 6	0.55 3	1.75 6	4.26 6	6.42 6
9	12	0.93 3	1.88 6	3.51 6	4.80 7	0.68 3	1.51 6	3.04 6	4.19 6	1.03 3	2.03 6	3.79 6	5.12 7	1.37 6	2.55 6	4.82 7	6.32
	16	0.48 2	1.43 3	3.06 6	4.49 6	0.27 2	1.09 3	2.66 3	3.84 6	0.58 3	1.57 3	3.33 6	4.88 6	0.87 3	2.01 6	4.28 6	6.24 6
	24		0.60 2	2.23 3	3.69 3		0.33 2	1.96 2	3.10 3		0.73 2	2.49 3	4.05 3		1.02 3	3.31 3	5.31 6
10	12	0.56 2	1.45 3	2.88 6	4.18 6	0.36 2	1.13 3	2.55 3	3.63 6	0.66 3	1.59 3	3.17 6	4.57 6	0.94 3	2.01 6	4.05 6	5.81 6
	16		0.95 2	2.40 3	3.71 3		0.67 2	2.13 3	3.19 3	0.17 2	1.08 2	2.67 3	4.08 6	0.40 2	1.42 3	3.46 3	5.26 6
	24			1.53 2	2.85 2			1.37 2	2.39 2		0.18 2	1.76 2	3.19 3		0.36 2	2.41 2	4.25 3
12	12		0.66 2	1.79 2	2.84 3		0.45 2	1.63 2	2.48 3		0.79 2	2.02 2	3.15 3	0.20 2	1.04 2	2.63 3	4.06 3
	16		0.13 2	1.29 2	2.33 2			1.18 2	2.00 2		0.24 2	1.49 2	2.63 2		0.40 2	2.02 2	3.47 3
	24			0.41 1	1.45 2			0.39 1	1.16 2			0.57 1	1.70 2			0.95 2	2.43 2
14	12			0.99 2	1.82 2			0.92 2	1.57 2		0.16 1	1.15 2	2.06 2		0.29 2	1.56 2	2.71 2
	16			0.51 1	1.33 2			0.48 1	1.10 1			0.64 1	1.54 2			0.97 2	2.13 2
	24				0.49 1				0.30 1				0.65 1				1.13 1
16	12			0.44 1	1.10 1			0.42 1	0.92 1			0.55 1	1.27 1			0.81 1	1.75 2
	16				0.64 1				0.48 1				0.78 1			0.27 1	1.20 1
	24																0.27 1

35 psf Lateral Load

Wall Height (ft)	Spacing (in.) o.c.	400S137-(mils) 33 ksi 33	400S137-(mils) 33 ksi 43	400S137-(mils) 50 ksi 54	400S137-(mils) 50 ksi 68	400S162-(mils) 33 ksi 33	400S162-(mils) 33 ksi 43	400S162-(mils) 50 ksi 54	400S162-(mils) 50 ksi 68	400S200-(mils) 33 ksi 33	400S200-(mils) 33 ksi 43	400S200-(mils) 50 ksi 54	400S200-(mils) 50 ksi 68	550S162-(mils) 33 ksi 33	550S162-(mils) 33 ksi 43	550S162-(mils) 50 ksi 54	550S162-(mils) 50 ksi 68
8	12	1.23 6	2.19 7	3.77	5.08	1.69 7	2.84	4.73	6.25	2.12 7	3.54	5.92	7.72	2.46	3.49	5.74	7.58
	16	0.89 6	1.84 6	3.71 7	5.08	1.31 6	2.46 6	4.68	6.25	1.70 6	3.09 7	5.92	7.72	2.17	3.49	5.74	7.58
	24	0.25 3	1.19 3	3.11 6	4.72 6	0.60 3	1.74 6	3.95 6	6.04 6	0.91 3	2.25 6	5.13 6	7.72 7	1.61 7	2.96	5.74	7.58
9	12	0.92 6	1.84 6	3.60 6	4.90 7	1.32 6	2.43 6	4.50 7	6.00	1.70 6	3.03 7	5.65	7.36	2.19	3.47	5.67	7.58
	16	0.52 3	1.42 3	3.22 6	4.76 6	0.88 3	1.97 6	4.04 6	6.00 7	1.21 6	2.50 6	5.18 6	7.36	1.83 7	3.16	5.67	7.58
	24		0.67 2	2.51 3	3.99 3		1.14 3	3.18 3	5.15 6	0.31 3	1.52 3	4.18 6	6.63 6	1.14 6	2.47 6	5.32 7	7.58
10	12	0.60 3	1.47 3	3.14 6	4.57 6	0.95 3	1.99 6	3.90 6	5.69 7	1.28 6	2.50 6	4.95 6	6.95 7	1.89 7	3.20	5.58	7.47
	16	0.15 2	1.00 3	2.71 3	4.10 6	0.45 2	1.48 3	3.38 6	5.21 6	0.73 3	1.90 3	4.34 6	6.61 6	1.46 6	2.77 7	5.55	7.47
	24		0.16 2	1.91 2	3.23 3		0.56 2	2.43 3	4.24 3		0.81 2	3.24 3	5.53 3	0.65 3	1.95 6	4.68 6	7.26 7
12	12		0.76 2	2.20 3	3.33 3	0.26 2	1.15 2	2.71 3	4.20 3	0.49 2	1.48 3	3.47 3	5.35 6	1.24 6	2.49 6	5.03 7	7.13
	16		0.22 2	1.70 2	2.78 2		0.57 2	2.12 2	3.60 3		0.81 2	2.79 3	4.67 3	0.69 3	1.92 6	4.42 6	6.83 6
	24			0.82 2	1.82 2			1.08 2	2.54 2			1.60 2	3.47 2		0.87 3	3.30 3	5.69 6
14	12		0.15 2	1.38 2	2.23 2		0.45 2	1.69 2	2.86 2		0.63 2	2.22 2	3.70 3	0.59 2	1.72 3	3.94 6	6.13 6
	16			0.87 1	1.68 2			1.10 2	2.26 2			1.55 2	3.03 2		1.05 2	3.23 3	5.39 3
	24				0.74 1				1.22 1			0.39 1	1.86 2			1.95 2	4.05 2
16	12			0.74 1	1.40 2			0.94 2	1.86 2			1.30 2	2.48 2		0.99 2	2.88 3	4.79 3
	16			0.26 1	0.88 1			0.38 1	1.29 1			0.66 1	1.84 2		0.27 2	2.12 2	3.98 2
	24								0.31 1				0.74 1			0.78 2	2.56 2

35 psf Lateral Load

Wall Height (ft)	Spacing (in.) o.c.	600S137-(mils) 33 ksi 33	600S137-(mils) 33 ksi 43	600S137-(mils) 50 ksi 54	600S137-(mils) 50 ksi 68	600S137-(mils) 50 ksi 97	600S162-(mils) 33 ksi 33	600S162-(mils) 33 ksi 43	600S162-(mils) 50 ksi 54	600S162-(mils) 50 ksi 68	600S162-(mils) 50 ksi 97	600S200-(mils) 33 ksi 33	600S200-(mils) 33 ksi 43	600S200-(mils) 50 ksi 54	600S200-(mils) 50 ksi 68	600S200-(mils) 50 ksi 97
8	12	1.85	2.62	3.90	5.14	7.62	2.55	3.52	5.72	7.56	11.50	2.99	4.44	7.56	10.02	15.60
	16	1.63	2.62	3.90	5.14	7.62	2.34	3.52	5.72	7.56	11.50	2.82	4.44	7.56	10.02	15.60
	24	1.21 7	2.24	3.90	5.14	7.62	1.83	3.18	5.72	7.56	11.50	2.26	4.07	7.56	10.02	15.60
9	12	1.67	2.62	3.90	5.14	7.62	2.38	3.52	5.72	7.56	11.50	2.84	4.40	7.46	9.89	15.38
	16	1.40	2.42	3.90	5.14	7.62	2.05	3.39	5.72	7.56	11.50	2.49	4.28	7.46	9.89	15.38
	24	0.87 6	1.90 7	3.88	5.14	7.62	1.41 6	2.77 7	5.67	7.56	11.50	1.79 7	3.53	7.46	9.89	15.38
10	12	1.46 7	2.48	3.90	5.14	7.62	2.12	3.46	5.72	7.56	11.50	2.55	4.32	7.33	9.72	15.11
	16	1.13 6	2.16 7	3.90	5.14	7.62	1.72 7	3.07	5.72	7.56	11.50	2.11 7	3.85	7.33	9.72	15.11
	24	0.50 3	1.53 6	3.54 6	5.14 7	7.62	0.96 6	2.32 6	5.17 7	7.56	11.50	1.28 6	2.94 7	6.80	9.72	15.11
12	12	1.00 6	2.01 6	3.90 7	5.14	7.62	1.52 6	2.82 7	5.59	7.52	11.50	1.88 6	3.51 7	6.99	9.27	14.40
	16	0.56 3	1.56 6	3.53 6	5.12 7	7.62	0.99 3	2.29 6	5.02 6	7.52 7	11.50	1.30 6	2.87 6	6.44 7	9.27	14.40
	24		0.72 3	2.78 3	4.33 6	7.42 6		1.29 3	3.95 6	6.52 6	11.36 7	0.23 3	1.69 3	5.18 6	8.37 6	14.40
14	12	0.50 3	1.48 3	3.41 6	4.97 6	7.62 7	0.88 3	2.10 6	4.59 6	7.00 6	11.28	1.17 3	2.62 6	5.81 6	8.68 7	13.45
	16		0.91 3	2.89 3	4.41 6	7.47 6	0.25 2	1.45 3	3.89 3	6.28 6	11.12 6	0.48 3	1.85 3	5.00 6	7.93 6	13.45 7
	24			1.92 2	3.38 3	6.31 3		0.26 2	2.61 2	4.95 3	9.51 6		0.45 2	3.52 3	6.43 3	11.98 6
16	12		0.91 2	2.82 3	4.30 3	7.29 6	0.28 2	1.38 3	3.55 3	5.71 6	10.05 6	0.49 2	1.74 3	4.51 6	7.14 6	12.32 7
	16		0.25 2	2.19 2	3.62 3	6.50 3		0.64 2	2.76 2	4.89 3	9.03 6		0.88 2	3.60 3	6.22 3	11.23 6
	24			1.05 2	2.38 2	5.07 2			1.37 2	3.42 2	7.24 3			2.01 2	4.57 2	9.28 3

1 Deflection exceeds L/120
2 Deflection exceeds L/240
3 Deflection exceeds L/360
6 Deflection exceeds L/600
7 Deflection exceeds L/720
– If not noted, deflection is less than L/720

See Combined Axial and Lateral Load Table Notes on page 20.

Combined Axial and Lateral Load Tables

35 psf Lateral Load

Wall Height (ft)	Spacing (in.) o.c.	800S137-(mils) 33 ksi 33	800S137-(mils) 33 ksi 43	800S137-(mils) 50 ksi 54	800S137-(mils) 50 ksi 68	800S137-(mils) 50 ksi 97	800S162-(mils) 33 ksi 33	800S162-(mils) 33 ksi 43	800S162-(mils) 50 ksi 54	800S162-(mils) 50 ksi 68	800S162-(mils) 50 ksi 97	800S200-(mils) 33 ksi 33	800S200-(mils) 33 ksi 43	800S200-(mils) 50 ksi 54	800S200-(mils) 50 ksi 68	800S200-(mils) 50 ksi 97
8	12	1.79	2.50	3.62	4.80	7.27	2.49	3.44	5.51	7.32	11.33	3.07	4.58	7.85	10.38	16.07
	16	1.76	2.50	3.62	4.80	7.27	2.49	3.44	5.51	7.32	11.33	3.07	4.58	7.85	10.38	16.07
	24	1.45	2.49	3.62	4.80	7.27	2.17	3.44	5.51	7.32	11.33	2.77	4.58	7.85	10.38	16.07
9	12	1.79	2.50	3.62	4.80	7.27	2.49	3.44	5.51	7.32	11.33	3.07	4.58	7.85	10.38	16.07
	16	1.59	2.50	3.62	4.80	7.27	2.34	3.44	5.51	7.32	11.33	2.96	4.58	7.85	10.38	16.07
	24	1.20	2.26	3.62	4.80	7.27	1.86	3.26	5.51	7.32	11.33	2.41	4.51	7.85	10.38	16.07
10	12	1.64	2.50	3.62	4.80	7.27	2.40	3.44	5.51	7.32	11.33	3.03	4.58	7.85	10.38	16.07
	16	1.40	2.44	3.62	4.80	7.27	2.10	3.44	5.51	7.32	11.33	2.69	4.58	7.85	10.38	16.07
	24	0.92 [7]	2.00	3.62	4.80	7.27	1.52	2.94	5.51	7.32	11.33	2.01	4.12	7.85	10.38	16.07
12	12	1.31	2.35	3.62	4.80	7.27	1.99	3.37	5.51	7.32	11.33	2.55	4.58	7.85	10.38	16.07
	16	0.97 [7]	2.04	3.62	4.80	7.27	1.56 [7]	2.97	5.51	7.32	11.33	2.06	4.15	7.85	10.38	16.07
	24	0.30 [6]	1.42 [6]	3.27 [7]	4.80	7.27	0.75 [6]	2.21 [7]	5.17	7.32	11.33	1.12 [6]	3.22 [7]	7.45	10.38	16.07
14	12	0.92 [6]	1.99 [7]	3.62	4.80	7.27	1.50 [6]	2.90	5.51	7.32	11.33	1.96 [7]	3.99	7.70	10.25	16.07
	16	0.47 [6]	1.56 [6]	3.38 [7]	4.80	7.27	0.95 [6]	2.38 [6]	5.29 [7]	7.32	11.33	1.33 [6]	3.37 [7]	7.46	10.25	16.07
	24		0.75 [3]	2.69 [6]	4.40 [6]	7.27 [7]		1.37 [6]	4.34 [6]	6.87 [6]	11.33	0.13 [3]	2.17 [6]	6.17 [6]	9.83 [7]	16.07
16	12	0.50 [3]	1.57 [6]	3.36 [6]	4.80 [7]	7.27	0.97 [6]	2.37 [6]	5.25 [7]	7.32	11.33	1.32 [6]	3.27 [6]	7.12	9.87	15.52
	16		1.04 [3]	2.91 [6]	4.59 [6]	7.27 [7]	0.29 [3]	1.71 [6]	4.61 [6]	7.11 [6]	11.33	0.56 [3]	2.50 [6]	6.29 [6]	9.75 [7]	15.52
	24			2.03 [3]	3.76 [3]	6.80 [6]		0.47 [3]	3.41 [3]	5.91 [6]	10.75 [6]		1.07 [3]	4.73 [6]	8.24 [6]	15.09 [7]

40 psf Lateral Load

Wall Height (ft)	Spacing (in.) o.c.	350S162-(mils) 33 ksi 33	350S162-(mils) 33 ksi 43	350S162-(mils) 50 ksi 54	350S162-(mils) 50 ksi 68	362S137-(mils) 33 ksi 33	362S137-(mils) 33 ksi 43	362S137-(mils) 50 ksi 54	362S137-(mils) 50 ksi 68	362S162-(mils) 33 ksi 33	362S162-(mils) 33 ksi 43	362S162-(mils) 50 ksi 54	362S162-(mils) 50 ksi 68	362S200-(mils) 33 ksi 33	362S200-(mils) 33 ksi 43	362S200-(mils) 50 ksi 54	362S200-(mils) 50 ksi 68
8	12	1.14 [6]	2.15 [6]	3.96 [7]	5.14	0.85 [6]	1.72 [6]	3.36 [6]	4.42 [7]	1.24 [6]	2.30 [6]	4.22 [7]	5.44	1.61 [6]	2.89 [7]	5.34	6.76
	16	0.70 [3]	1.71 [6]	3.52 [6]	5.07 [6]	0.45 [3]	1.32 [3]	3.00 [6]	4.28 [6]	0.80 [3]	1.85 [6]	3.78 [6]	5.44 [7]	1.13 [6]	2.36 [6]	4.87 [6]	6.76
	24		0.89 [3]	2.70 [3]	4.28 [6]		0.58 [2]	2.32 [3]	3.57 [3]		1.04 [3]	2.95 [3]	4.66 [6]	0.23 [3]	1.40 [3]	3.91 [6]	6.09 [6]
9	12	0.73 [3]	1.68 [3]	3.31 [6]	4.73 [6]	0.50 [3]	1.32 [3]	2.87 [6]	4.06 [6]	0.83 [3]	1.83 [6]	3.59 [6]	5.12 [6]	1.15 [3]	2.31 [6]	4.59 [6]	6.32 [7]
	16	0.24 [2]	1.18 [3]	2.81 [3]	4.25 [6]		0.86 [3]	2.45 [3]	3.62 [6]	0.34 [2]	1.32 [3]	3.08 [3]	4.63 [6]	0.59 [3]	1.72 [3]	3.99 [6]	5.97 [6]
	24		0.27 [2]	1.91 [2]	3.37 [3]			1.68 [2]	2.81 [3]		0.40 [2]	2.15 [2]	3.73 [3]		0.63 [2]	2.92 [3]	4.94 [3]
10	12	0.35 [2]	1.23 [3]	2.67 [3]	3.98 [6]	0.17 [2]	0.93 [3]	2.36 [3]	3.44 [6]	0.44 [2]	1.37 [3]	2.95 [3]	4.36 [6]	0.70 [3]	1.75 [3]	3.79 [6]	5.57 [6]
	16		0.68 [2]	2.14 [2]	3.45 [3]		0.42 [2]	1.90 [2]	2.95 [3]		0.81 [2]	2.40 [3]	3.81 [3]		1.10 [3]	3.15 [3]	4.96 [6]
	24			1.19 [2]	2.51 [2]			1.07 [2]	2.07 [2]			1.41 [2]	2.83 [2]			2.00 [2]	3.85 [3]
12	12		0.43 [2]	1.57 [2]	2.61 [2]		0.23 [2]	1.43 [2]	2.27 [2]		0.54 [2]	1.79 [2]	2.92 [3]		0.75 [2]	2.36 [2]	3.80 [3]
	16			1.02 [2]	2.07 [2]			0.94 [2]	1.75 [2]			1.21 [2]	2.34 [2]			1.69 [2]	3.15 [2]
	24				1.11 [1]				0.84 [1]			0.21 [1]	1.34 [2]			0.54 [1]	2.02 [2]
14	12			0.78 [1]	1.61 [2]			0.73 [1]	1.37 [2]			0.93 [2]	1.83 [2]			1.30 [2]	2.46 [2]
	16			0.26 [1]	1.08 [1]			0.25 [1]	0.86 [1]			0.38 [1]	1.27 [1]			0.66 [1]	1.83 [2]
	24				0.17 [1]								0.31 [1]				0.75 [1]
16	12			0.24 [1]	0.90 [1]			0.23 [1]	0.72 [1]			0.34 [1]	1.06 [1]			0.57 [1]	1.51 [2]
	16				0.40 [1]				0.24 [1]				0.53 [1]				0.92 [1]
	24																

40 psf Lateral Load

Wall Height (ft)	Spacing (in.) o.c.	400S137-(mils) 33 ksi 33	400S137-(mils) 33 ksi 43	400S137-(mils) 50 ksi 54	400S137-(mils) 50 ksi 68	400S162-(mils) 33 ksi 33	400S162-(mils) 33 ksi 43	400S162-(mils) 50 ksi 54	400S162-(mils) 50 ksi 68	400S200-(mils) 33 ksi 33	400S200-(mils) 33 ksi 43	400S200-(mils) 50 ksi 54	400S200-(mils) 50 ksi 68	550S162-(mils) 33 ksi 33	550S162-(mils) 33 ksi 43	550S162-(mils) 50 ksi 54	550S162-(mils) 50 ksi 68
8	12	1.08 [6]	2.04 [6]	3.77	5.08	1.53 [6]	2.67 [7]	4.73	6.25	1.94 [7]	3.35	5.92	7.72	2.34	3.49	5.74	7.58
	16	0.70 [3]	1.65 [6]	3.54 [6]	5.08 [7]	1.10 [6]	2.25 [6]	4.47 [7]	6.25	1.47 [6]	2.85 [7]	5.74	7.72	2.01	3.35	5.74	7.58
	24		0.92 [3]	2.87 [6]	4.45 [6]	0.31 [3]	1.45 [3]	3.65 [6]	5.74 [6]	0.59 [3]	1.90 [6]	4.78 [6]	7.39 [7]	1.37 [6]	2.72	5.65	7.58
9	12	0.74 [3]	1.66 [6]	3.44 [6]	4.90 [7]	1.13 [6]	2.23 [6]	4.30 [6]	6.00	1.49 [6]	2.80 [6]	5.48 [7]	7.36	2.04	3.36	5.67	7.58
	16	0.30 [3]	1.20 [3]	3.01 [6]	4.53 [6]	0.64 [3]	1.73 [6]	3.79 [6]	5.76 [6]	0.94 [3]	2.21 [6]	4.88 [6]	7.32 [7]	1.63 [6]	2.96	5.67	7.58
	24		0.36 [2]	2.23 [3]	3.68 [3]		0.81 [3]	2.84 [3]	4.80 [6]		1.12 [3]	3.77 [3]	6.24 [6]	0.85 [6]	2.19 [6]	5.02 [7]	7.58
10	12	0.40 [2]	1.27 [3]	2.95 [6]	4.37 [6]	0.73 [3]	1.77 [3]	3.67 [6]	5.51 [6]	1.04 [3]	2.24 [6]	4.69 [6]	6.95 [7]	1.71 [6]	3.01	5.58	7.47
	16		0.75 [2]	2.47 [3]	3.84 [3]	0.19 [2]	1.21 [3]	3.09 [3]	4.92 [6]	0.43 [2]	1.58 [3]	4.02 [6]	6.29 [6]	1.22 [6]	2.53 [6]	5.29 [7]	7.47
	24			1.59 [2]	2.89 [2]		0.19 [2]	2.05 [2]	3.85 [3]		0.38 [2]	2.80 [3]	5.09 [3]	0.32 [3]	1.62 [6]	4.33 [6]	6.91 [6]
12	12		0.52 [2]	1.98 [2]	3.09 [3]		0.90 [2]	2.45 [3]	3.94 [3]	0.21 [2]	1.19 [2]	3.17 [3]	5.05 [6]	1.00 [3]	2.24 [6]	4.76 [6]	7.13 [7]
	16			1.43 [2]	2.49 [2]		0.27 [2]	1.81 [2]	3.28 [2]		0.44 [2]	2.43 [2]	4.31 [3]	0.39 [3]	1.61 [3]	4.09 [6]	6.49 [6]
	24			0.48 [1]	1.45 [2]			0.69 [2]	2.12 [2]			1.14 [2]	3.00 [2]		0.45 [2]	2.85 [3]	5.22 [3]
14	12			1.15 [2]	1.99 [2]		0.18 [2]	1.43 [2]	2.59 [2]		0.32 [2]	1.92 [2]	3.40 [2]	0.31 [2]	1.43 [3]	3.63 [3]	5.80 [6]
	16			0.60 [1]	1.39 [2]			0.79 [1]	1.94 [2]			1.19 [2]	2.67 [2]		0.69 [2]	2.84 [3]	4.99 [3]
	24				0.38 [1]				0.82 [1]				1.41 [1]			1.45 [2]	3.52 [2]
16	12			0.53 [1]	1.17 [1]			0.69 [1]	1.61 [2]			1.01 [2]	2.19 [2]		0.67 [2]	2.54 [2]	4.43 [3]
	16				0.61 [1]				0.99 [1]			0.32 [1]	1.50 [1]			1.71 [2]	3.55 [2]
	24												0.32 [1]			0.26 [1]	2.01 [2]

1 Deflection exceeds L/120
2 Deflection exceeds L/240
3 Deflection exceeds L/360
6 Deflection exceeds L/600
7 Deflection exceeds L/720
– If not noted, deflection is less than L/720

See Combined Axial and Lateral Load Table Notes on page 20.

SSMA

Combined Axial and Lateral Load Tables

40 psf Lateral Load

Wall Height (ft)	Spacing (in.) o.c.	600S137-(mils) 33 ksi 33	43	50 ksi 54	68	97	600S162-(mils) 33 ksi 33	43	50 ksi 54	68	97	600S200-(mils) 33 ksi 33	43	50 ksi 54	68	97
8	12	1.76	2.62	3.90	5.14	7.62	2.49	3.52	5.72	7.56	11.50	2.99	4.44	7.56	10.02	15.60
	16	1.51	2.53	3.90	5.14	7.62	2.19	3.52	5.72	7.56	11.50	2.66	4.44	7.56	10.02	15.60
	24	1.03 [7]	2.07	3.90	5.14	7.62	1.61 [7]	2.98	5.72	7.56	11.50	2.02	3.81	7.56	10.02	15.60
9	12	1.55	2.57	3.90	5.14	7.62	2.24	3.52	5.72	7.56	11.50	2.69	4.40	7.46	9.89	15.38
	16	1.24 [7]	2.27	3.90	5.14	7.62	1.87	3.21	5.72	7.56	11.50	2.28	4.07	7.46	9.89	15.38
	24	0.65 [6]	1.69 [6]	3.69 [7]	5.14	7.62	1.15 [6]	2.51 [7]	5.40	7.56	11.50	1.50 [6]	3.21	7.20	9.89	15.38
10	12	1.32 [7]	2.34	3.90	5.14	7.62	1.95 [7]	3.29	5.72	7.56	11.50	2.36	4.12	7.33	9.72	15.11
	16	0.95 [6]	1.98 [7]	3.90	5.14	7.62	1.50 [6]	2.85 [7]	5.72	7.56	11.50	1.87 [7]	3.59	7.33	9.72	15.11
	24	0.24 [3]	1.27 [6]	3.32 [6]	4.91 [7]	7.62	0.65 [3]	2.00 [6]	4.84 [6]	7.40 [7]	11.50	0.94 [6]	2.57 [6]	6.41 [7]	9.72	15.11
12	12	0.81 [6]	1.82 [6]	3.76 [6]	5.14 [7]	7.62	1.29 [6]	2.59 [6]	5.34 [7]	7.52	11.50	1.63 [6]	3.23 [7]	6.82	9.27	14.40
	16	0.31 [3]	1.32 [3]	3.31 [6]	4.89 [6]	7.62 [7]	0.70 [3]	2.00 [6]	4.71 [6]	7.29 [7]	11.50	0.99 [3]	2.52 [6]	6.07 [6]	9.24 [7]	14.40
	24		0.37 [2]	2.47 [3]	4.00 [3]	7.06 [6]		0.88 [3]	3.51 [3]	6.08 [6]	10.85 [6]		1.20 [3]	4.66 [6]	7.87 [6]	14.11 [7]
14	12	0.26 [2]	1.23 [3]	3.18 [6]	4.73 [6]	7.62 [7]	0.61 [3]	1.82 [3]	4.29 [6]	6.68 [6]	11.28 [7]	0.87 [3]	2.28 [6]	5.46 [6]	8.38 [6]	13.45
	16		0.60 [2]	2.60 [3]	4.11 [3]	7.13 [6]		1.10 [3]	3.51 [3]	5.88 [6]	10.65 [6]		1.43 [3]	4.56 [3]	7.48 [6]	13.21 [7]
	24			1.54 [2]	2.97 [2]	5.84 [3]			2.10 [2]	4.42 [3]	8.87 [3]			2.92 [2]	5.83 [3]	11.28 [6]
16	12		0.62 [2]	2.54 [3]	4.00 [3]	6.94 [6]		1.06 [2]	3.20 [3]	5.35 [3]	9.60 [6]	0.15 [2]	1.36 [3]	4.11 [3]	6.73 [6]	11.84 [6]
	16			1.84 [2]	3.25 [2]	6.07 [3]		0.25 [2]	2.34 [2]	4.45 [3]	8.50 [3]		0.43 [2]	3.12 [2]	5.72 [3]	10.64 [6]
	24			0.61 [2]	1.90 [2]	4.51 [2]			0.83 [2]	2.85 [2]	6.53 [2]			1.38 [2]	3.93 [2]	8.51 [3]

40 psf Lateral Load

Wall Height (ft)	Spacing (in.) o.c.	800S137-(mils) 33 ksi 33	43	50 ksi 54	68	97	800S162-(mils) 33 ksi 33	43	50 ksi 54	68	97	800S200-(mils) 33 ksi 33	43	50 ksi 54	68	97
8	12	1.79	2.50	3.62	4.80	7.27	2.49	3.44	5.51	7.32	11.33	3.07	4.58	7.85	10.38	16.07
	16	1.67	2.50	3.62	4.80	7.27	2.44	3.44	5.51	7.32	11.33	3.07	4.58	7.85	10.38	16.07
	24	1.32	2.37	3.62	4.80	7.27	2.01	3.40	5.51	7.32	11.33	2.58	4.58	7.85	10.38	16.07
9	12	1.70	2.50	3.62	4.80	7.27	2.48	3.44	5.51	7.32	11.33	3.07	4.58	7.85	10.38	16.07
	16	1.48	2.50	3.62	4.80	7.27	2.20	3.44	5.51	7.32	11.33	2.80	4.58	7.85	10.38	16.07
	24	1.03	2.11	3.62	4.80	7.27	1.66	3.07	5.51	7.32	11.33	2.17	4.28	7.85	10.38	16.07
10	12	1.54	2.50	3.62	4.80	7.27	2.27	3.44	5.51	7.32	11.33	2.88	4.58	7.85	10.38	16.07
	16	1.26	2.32	3.62	4.80	7.27	1.93	3.33	5.51	7.32	11.33	2.49	4.58	7.85	10.38	16.07
	24	0.72 [7]	1.82	3.61	4.80	7.27	1.27 [7]	2.71	5.51	7.32	11.33	1.73	3.84	7.85	10.38	16.07
12	12	1.16	2.22	3.62	4.80	7.27	1.80	3.20	5.51	7.32	11.33	2.34	4.42	7.85	10.38	16.07
	16	0.77 [6]	1.86 [7]	3.62	4.80	7.27	1.33 [7]	2.75	5.51	7.32	11.33	1.79 [7]	3.88	7.85	10.38	16.07
	24		1.16 [6]	3.05 [6]	4.75 [7]	7.27	0.41 [6]	1.88 [6]	4.87 [7]	7.32	11.33	0.72 [6]	2.84 [7]	7.04	10.38	16.07
14	12	0.73 [6]	1.81 [6]	3.58	4.80	7.27	1.26 [6]	2.68 [7]	5.51	7.32	11.33	1.69 [6]	3.72	7.70	10.25	16.07
	16	0.22 [3]	1.33 [6]	3.18 [6]	4.80 [7]	7.27	0.64 [6]	2.08 [6]	5.02 [7]	7.32	11.33	0.98 [6]	3.02 [6]	7.08 [7]	10.25	16.07
	24		0.41 [3]	2.40 [6]	4.13 [6]	7.23 [7]		0.95 [3]	3.94 [6]	6.48 [6]	11.33 [7]		1.68 [6]	5.64 [6]	9.32 [6]	16.07
16	12	0.25 [3]	1.34 [6]	3.17 [6]	4.80 [7]	7.27	0.67 [3]	2.08 [6]	4.97 [6]	7.32 [7]	11.33	0.99 [6]	2.94 [6]	6.76 [7]	9.87	15.52
	16		0.74 [3]	2.65 [6]	4.35 [6]	7.27 [7]		1.35 [3]	4.26 [6]	6.76 [6]	11.33 [7]	0.14 [3]	2.08 [6]	5.83 [6]	9.31 [6]	15.52
	24			1.67 [3]	3.41 [3]	6.42 [6]			2.92 [3]	5.42 [3]	10.18 [6]		0.49 [3]	4.11 [3]	7.62 [6]	14.37 [6]

50 psf Lateral Load

Wall Height (ft)	Spacing (in.) o.c.	350S162-(mils) 33 ksi 33	43	50 ksi 54	68	362S137-(mils) 33 ksi 33	43	50 ksi 54	68	362S162-(mils) 33 ksi 33	43	50 ksi 54	68	362S200-(mils) 33 ksi 33	43	50 ksi 54	68
8	12	0.80 [3]	1.82 [6]	3.63 [6]	5.14 [7]	0.55 [3]	1.42 [6]	3.09 [6]	4.37 [6]	0.91 [3]	1.96 [6]	3.89 [6]	5.44 [7]	1.25 [6]	2.49 [6]	5.00 [7]	6.76
	16	0.28 [2]	1.29 [3]	3.10 [6]	4.67 [6]		0.94 [3]	2.65 [3]	3.92 [6]	0.39 [3]	1.44 [3]	3.36 [6]	5.05 [6]	0.66 [3]	1.87 [6]	4.38 [6]	6.53 [6]
	24		0.32 [2]	2.14 [3]	3.73 [3]			1.84 [2]	3.07 [3]		0.47 [2]	2.38 [3]	4.10 [3]		0.72 [3]	3.23 [3]	5.45 [6]
9	12	0.36 [2]	1.30 [3]	2.93 [3]	4.37 [6]	0.16 [2]	0.97 [3]	2.55 [3]	3.73 [6]	0.46 [2]	1.44 [3]	3.20 [6]	4.75 [6]	0.73 [3]	1.86 [6]	4.14 [6]	6.10 [6]
	16		0.71 [2]	2.35 [3]	3.80 [3]		0.43 [2]	2.05 [3]	3.20 [3]		0.85 [2]	2.60 [3]	4.17 [3]		1.16 [3]	3.44 [3]	5.44 [6]
	24			1.29 [2]	2.76 [2]			1.14 [2]	2.24 [2]			1.51 [2]	3.10 [2]			2.17 [2]	4.23 [3]
10	12		0.81 [2]	2.27 [3]	3.58 [3]		0.55 [2]	2.01 [2]	3.07 [3]		0.94 [2]	2.53 [3]	3.94 [3]	0.25 [2]	1.26 [3]	3.31 [3]	5.11 [6]
	16		0.18 [2]	1.64 [2]	2.97 [2]			1.47 [2]	2.50 [2]		0.30 [2]	1.88 [2]	3.31 [3]		0.50 [2]	2.56 [3]	4.39 [3]
	24			0.55 [2]	1.87 [2]			0.51 [1]	1.47 [2]			0.74 [2]	2.17 [2]			1.23 [2]	3.10 [2]
12	12			1.15 [2]	2.20 [2]			1.06 [2]	1.87 [2]			1.35 [2]	2.48 [2]		0.23 [2]	1.85 [2]	3.31 [2]
	16			0.53 [1]	1.57 [2]			0.50 [1]	1.27 [2]			0.69 [1]	1.82 [2]			1.09 [2]	2.57 [2]
	24				0.48 [1]				0.23 [1]				0.67 [1]				1.27 [1]
14	12			0.38 [1]	1.21 [1]			0.36 [1]	0.98 [1]			0.51 [1]	1.40 [2]			0.81 [1]	1.98 [2]
	16				0.60 [1]				0.40 [1]				0.77 [1]				1.26 [1]
	24																
16	12				0.52 [1]				0.36 [1]				0.66 [1]			0.12 [1]	1.06 [1]
	16																0.39 [1]
	24																

1 Deflection exceeds L/120
2 Deflection exceeds L/240
3 Deflection exceeds L/360
6 Deflection exceeds L/600
7 Deflection exceeds L/720
– If not noted, deflection is less than L/720

See Combined Axial and Lateral Load Table Notes on page 20.

Combined Axial and Lateral Load Tables

50 psf Lateral Load

Wall Height (ft)	Spacing (in.) o.c.	400S137-(mils) 33 ksi 33	400S137-(mils) 33 ksi 43	400S137-(mils) 50 ksi 54	400S137-(mils) 50 ksi 68	400S162-(mils) 33 ksi 33	400S162-(mils) 33 ksi 43	400S162-(mils) 50 ksi 54	400S162-(mils) 50 ksi 68	400S200-(mils) 33 ksi 33	400S200-(mils) 33 ksi 43	400S200-(mils) 50 ksi 54	400S200-(mils) 50 ksi 68	550S162-(mils) 33 ksi 33	550S162-(mils) 33 ksi 43	550S162-(mils) 50 ksi 54	550S162-(mils) 50 ksi 68
8	12	0.79 6	1.75 6	3.62 6	5.08 7	1.21 6	2.36 6	4.58 7	6.25	1.58 6	2.97 7	5.86	7.72	2.09	3.43	5.74	7.58
	16	0.34 3	1.28 3	3.20 6	4.81 6	0.70 3	1.84 6	4.05 6	6.14 7	1.02 6	2.36 6	5.25 6	7.72	1.69 7	3.04	5.74	7.58
	24		0.41 2	2.39 3	3.94 3		0.89 3	3.07 3	5.16 6		1.23 3	4.10 6	6.73 6	0.90 6	2.27 6	5.18 7	7.58
9	12	0.41 3	1.31 3	3.12 6	4.65 6	0.76 3	1.85 6	3.91 6	5.88 6	1.07 3	2.35 6	5.03 6	7.36 7	1.73 7	3.06	5.67	7.58
	16		0.77 3	2.61 3	4.10 6	0.18 2	1.26 3	3.30 3	5.27 6	0.43 3	1.65 3	4.31 6	6.76 6	1.23 6	2.57 7	5.42	7.58
	24			1.68 2	3.08 3		0.17 2	2.18 2	4.13 3		0.37 2	3.01 3	5.49 3	0.29 3	1.63 6	4.43 6	7.07 7
10	12		0.88 3	2.59 3	3.97 6	0.32 2	1.34 3	3.23 3	5.07 6	0.58 3	1.74 3	4.18 6	6.45 6	1.34 6	2.65 6	5.42	7.47
	16		0.27 2	2.02 2	3.35 3		0.68 2	2.56 3	4.37 3		0.96 3	3.39 3	5.67 6	0.76 3	2.07 6	4.80 6	7.38 7
	24			1.00 2	2.23 2			1.34 2	3.12 2			1.98 2	4.27 3		0.97 3	3.63 6	6.21 6
12	12			1.56 2	2.64 2		0.42 2	1.96 2	3.44 3		0.62 2	2.61 2	4.49 3	0.54 3	1.76 3	4.26 6	6.66 6
	16			0.94 2	1.95 2			1.22 2	2.68 2			1.76 2	3.63 2		1.02 3	3.46 3	5.84 6
	24				0.76 1				1.35 2			0.28 1	2.13 2			2.00 2	4.34 3
14	12			0.73 1	1.54 2			0.95 2	2.10 2			1.37 2	2.85 2		0.87 2	3.04 3	5.19 3
	16			0.11 1	0.86 1			0.23 1	1.36 1			0.54 1	2.01 2			2.12 2	4.23 3
	24												0.58 1			0.50 2	2.53 2
16	12			0.13 1	0.74 1			0.23 1	1.14 1			0.49 1	1.67 2			1.91 2	3.76 2
	16				0.11 1				0.44 1				0.88 1			0.96 2	2.75 2
	24																0.99 1

50 psf Lateral Load

Wall Height (ft)	Spacing (in.) o.c.	600S137-(mils) 33 ksi 33	600S137-(mils) 33 ksi 43	600S137-(mils) 50 ksi 54	600S137-(mils) 50 ksi 68	600S137-(mils) 50 ksi 97	600S162-(mils) 33 ksi 33	600S162-(mils) 33 ksi 43	600S162-(mils) 50 ksi 54	600S162-(mils) 50 ksi 68	600S162-(mils) 50 ksi 97	600S200-(mils) 33 ksi 33	600S200-(mils) 33 ksi 43	600S200-(mils) 50 ksi 54	600S200-(mils) 50 ksi 68	600S200-(mils) 50 ksi 97
8	12	1.57	2.59	3.90	5.14	7.62	2.27	3.52	5.72	7.56	11.50	2.74	4.44	7.56	10.02	15.60
	16	1.27	2.30	3.90	5.14	7.62	1.90	3.25	5.72	7.56	11.50	2.34	4.16	7.56	10.02	15.60
	24	0.68 6	1.73 7	3.74	5.14	7.62	1.19 6	2.56 7	5.47	7.56	11.50	1.55 7	3.31	7.40	10.02	15.60
9	12	1.32 7	2.34	3.90	5.14	7.62	1.96	3.30	5.72	7.56	11.50	2.38	4.18	7.46	9.89	15.38
	16	0.94 6	1.98 7	3.90	5.14	7.62	1.50 6	2.86	5.72	7.56	11.50	1.89 7	3.64	7.46	9.89	15.38
	24	0.22 3	1.26 6	3.33 6	4.93 7	7.62	0.63 6	2.00 6	4.87 7	7.45	11.50	0.93 6	2.59 6	6.56 7	9.89	15.38
10	12	1.04 6	2.07 7	3.90	5.14	7.62	1.61 6	2.96	5.72	7.56	11.50	1.99 7	3.72	7.33	9.72	15.11
	16	0.59 6	1.62 6	3.62 6	5.14	7.62	1.07 6	2.42 6	5.28 7	7.56	11.50	1.40 6	3.07 7	6.93	9.72	15.11
	24		0.77 3	2.88 6	4.46 6	7.60 7		1.39 6	4.20 6	6.78 6	11.50	0.27 3	1.83 6	5.64 6	9.05 7	15.11
12	12	0.43 3	1.44 6	3.42 6	5.01 6	7.62	0.85 3	2.14 6	4.86 6	7.44 7	11.50	1.14 6	2.70 6	6.25 7	9.27	14.40
	16		0.84 3	2.88 3	4.44 6	7.55 6	0.15 3	1.43 3	4.10 6	6.67 6	11.50 7	0.37 3	1.85 6	5.35 6	8.54 6	14.40
	24			1.87 2	3.37 3	6.36 6		0.11 2	2.68 3	5.22 3	9.87 6		0.28 3	3.69 3	6.90 6	13.00 6
14	12		0.75 2	2.74 3	4.26 3	7.30 6		1.27 3	3.70 3	6.08 6	10.88 6	0.29 2	1.64 3	4.78 6	7.70 6	13.45 7
	16			2.06 2	3.52 3	6.47 6		0.42 2	2.79 3	5.13 3	9.73 6		0.64 2	3.72 3	6.63 3	12.22 6
	24			0.80 2	2.18 2	4.94 3			1.14 2	3.42 2	7.65 3			1.82 2	4.70 2	9.95 3
16	12			2.01 2	3.43 2	6.28 3		0.45 2	2.55 2	4.66 3	8.76 6		0.65 2	3.36 3	5.97 3	10.93 6
	16			1.20 2	2.55 2	5.27 3			1.56 2	3.61 2	7.48 3			2.22 2	4.79 2	9.54 3
	24				0.99 1	3.45 2				1.77 2	5.23 2			0.23 2	2.72 2	7.08 2

50 psf Lateral Load

Wall Height (ft)	Spacing (in.) o.c.	800S137-(mils) 33 ksi 33	800S137-(mils) 33 ksi 43	800S137-(mils) 50 ksi 54	800S137-(mils) 50 ksi 68	800S137-(mils) 50 ksi 97	800S162-(mils) 33 ksi 33	800S162-(mils) 33 ksi 43	800S162-(mils) 50 ksi 54	800S162-(mils) 50 ksi 68	800S162-(mils) 50 ksi 97	800S200-(mils) 33 ksi 33	800S200-(mils) 33 ksi 43	800S200-(mils) 50 ksi 54	800S200-(mils) 50 ksi 68	800S200-(mils) 50 ksi 97
8	12	1.71	2.50	3.62	4.80	7.27	2.49	3.44	5.51	7.32	11.33	3.07	4.58	7.85	10.38	16.07
	16	1.49	2.50	3.62	4.80	7.27	2.22	3.44	5.51	7.32	11.33	2.83	4.58	7.85	10.38	16.07
	24	1.05	2.13	3.62	4.80	7.27	1.68	3.10	5.51	7.32	11.33	2.21	4.32	7.85	10.38	16.07
9	12	1.53	2.50	3.62	4.80	7.27	2.27	3.44	5.51	7.32	11.33	2.88	4.58	7.85	10.38	16.07
	16	1.25	2.31	3.62	4.80	7.27	1.93	3.32	5.51	7.32	11.33	2.49	4.58	7.85	10.38	16.07
	24	0.70 7	1.81	3.61	4.80	7.27	1.25	2.70	5.51	7.32	11.33	1.71	3.84	7.85	10.38	16.07
10	12	1.33	2.38	3.62	4.80	7.27	2.02	3.40	5.51	7.32	11.33	2.59	4.58	7.85	10.38	16.07
	16	0.99	2.07	3.62	4.80	7.27	1.60	3.02	5.51	7.32	11.33	2.11	4.21	7.85	10.38	16.07
	24	0.32 6	1.45 7	3.31	4.80	7.27	0.78 6	2.26	5.25	7.32	11.33	1.16 7	3.30	7.57	10.38	16.07
12	12	0.87 6	1.95	3.62	4.80	7.27	1.45 7	2.86	5.51	7.32	11.33	1.92	4.01	7.85	10.38	16.07
	16	0.39 6	1.50 6	3.34 7	4.80	7.27	0.86 6	2.31 7	5.27	7.32	11.33	1.25 6	3.35	7.58	10.38	16.07
	24		0.65 6	2.63 6	4.36 6	7.27		1.25 6	4.28 6	6.84 7	11.33		2.08 6	6.24 6	9.94	16.07
14	12	0.34 6	1.45 6	3.28 6	4.80	7.27	0.79 6	2.23 6	5.16 7	7.32	11.33	1.15 6	3.19 7	7.27	10.25	16.07
	16		0.86 3	2.79 6	4.49 6	7.27		1.51 6	4.47 6	7.00 7	11.33	0.30 3	2.34 6	6.35 6	10.00 7	16.07
	24			1.84 3	3.59 6	6.65 6		0.15 3	3.17 3	5.72 6	10.60 6		0.72 3	4.62 6	8.33 6	15.46 7
16	12		0.89 3	2.78 6	4.47 6	7.27 7		1.53 3	4.43 6	6.93 6	11.33	0.35 3	2.29 6	6.06 6	9.53 7	15.52
	16		0.17 2	2.16 3	3.87 6	6.93 6		0.64 3	3.57 3	6.08 6	10.94 6		1.26 3	4.95 6	8.45 6	15.33 7
	24			0.98 2	2.74 3	5.67 3			1.97 2	4.47 3	9.09 6			2.91 3	6.44 3	13.00 6

1 Deflection exceeds L/120
2 Deflection exceeds L/240
3 Deflection exceeds L/360
6 Deflection exceeds L/600
7 Deflection exceeds L/720
– If not noted, deflection is less than L/720

See Combined Axial and Lateral Load Table Notes on page 20.

SSMA

Floor Joist Span Tables

Allowable Floor Joist Span Table Notes

1. Web punchouts were not considered for shear or web crippling. Shear and web crippling reduction factors required for web punchouts, per ICBO Acceptance Criteria AC46, Appendix B.
2. Spans are based on continuous lateral support of the compression flange.
3. For two equal spans, the listed span is the distance from either end support to the center support. Joists must be continuous over the center support.
4. Web crippling capacity is based on a 3.5 inch bearing length at end and interior supports.
5. Joists must be braced against rotation at all supports by track or blocking.
6. Joist spans are based on 50 ksi for the 54, 68, and 97 mil thicknesses, and 33 ksi for thinner members.
7. Total load deflection = L/240. Live load as noted.
8. Live load has been checked for unbalanced load conditions.

Bridging Recommendations

Floor joist bridging may be spaced as follows, except where member design requires or will accommodate an alternate spacing.

Span (ft)	Minimum Number of Rows
up to 14 ft.	1 row at mid-span
14 ft. to 20 ft.	2 rows at ⅓points
20 ft. to 26 ft.	3 rows at ¼points

10 psf Dead Load and 20 psf Live Load

	Live Load Deflection L/360						Live Load Deflection L/480					
	Single Span			Two Equal Spans			Single Span			Two Equal Spans		
	Spacing (in) o.c.			Spacing (in) o.c.			Spacing (in) o.c.			Spacing (in) o.c.		
Member	12	16	24	12	16	24	12	16	24	12	16	24
600S162-33	15' 9"	13' 9" e	11' 3" e	15' 11" i	13' 9" i	11' 3" a	14' 3"	13' 0" e	11' 3" e	15' 11" i	13' 9" i	11' 3" a
600S200-33	16' 5" e	14' 3" e	11' 7" e	16' 5" i	14' 3" i	11' 6" a	14' 11"	13' 7" e	11' 7" e	16' 5" i	14' 3" i	11' 6" a
600S162-43	17' 2"	15' 7"	13' 7"	19' 3" i	16' 8" i	13' 7" i	15' 7"	14' 2"	12' 4"	17' 6" i	15' 10" i	13' 7" i
600S200-43	18' 0"	16' 4"	13' 10"	19' 6" i	16' 11" i	13' 10" i	16' 4"	14' 10"	13' 0"	18' 4" i	16' 8" i	13' 10" i
600S250-43	18' 10"	17' 1"	14' 2"	20' 0" i	17' 4" i	14' 2" i	17' 1"	15' 7"	13' 7"	19' 3" i	17' 4" i	14' 2" i
600S162-54	18' 5"	16' 8"	14' 7"	20' 8"	18' 9" i	16' 4" i	16' 8"	15' 2"	13' 3"	18' 9"	17' 0"	14' 10" i
600S200-54	19' 4"	17' 7"	15' 4"	21' 8"	19' 8" i	17' 3" i	17' 7"	15' 11"	13' 11"	19' 8"	17' 11"	15' 8" i
600S250-54	20' 2"	18' 3"	16' 0"	22' 7"	20' 7" i	17' 11" i	18' 3"	16' 7"	14' 6"	20' 7"	18' 8"	16' 4" i
600S162-68	19' 8"	17' 11"	15' 8"	22' 2"	20' 1"	17' 7"	17' 11"	16' 3"	14' 2"	20' 1"	18' 3"	15' 11"
600S200-68	20' 9"	18' 10"	16' 5"	23' 3"	21' 2"	18' 6"	18' 10"	17' 1"	14' 11"	21' 2"	19' 3"	16' 9"
600S250-68	21' 9"	19' 9"	17' 3"	24' 5"	22' 2"	19' 4" i	19' 9"	17' 11"	15' 8"	22' 2"	20' 2"	17' 7"
600S162-97	21' 10"	19' 10"	17' 4"	24' 6"	22' 3"	19' 6"	19' 10"	18' 0"	15' 9"	22' 3"	20' 3"	17' 8"
600S200-97	23' 0"	20' 11"	18' 3"	25' 10"	23' 6"	20' 6"	20' 11"	19' 0"	16' 7"	23' 6"	21' 4"	18' 8"
600S250-97	24' 2"	21' 11"	19' 2"	27' 2"	24' 8"	21' 6"	21' 11"	19' 11"	17' 5"	24' 8"	22' 5"	19' 7"
800S162-33	18' 2" e	15' 9" e	12' 10" e	17' 8" a	14' 5" a	10' 8" a	18' 0" e	15' 9" e	12' 10" e	17' 8" a	14' 5" a	10' 8" a
800S200-33	18' 10" e	16' 4" e	13' 4" e	18' 1" a	14' 9" a	10' 10" a	18' 10" e	16' 4" e	13' 4" e	18' 1" a	14' 9" a	10' 10" a
800S162-43	21' 7"	19' 6"	15' 11" e	22' 6" i	19' 6" i	15' 11" i	19' 7"	17' 10"	15' 7" e	22' 0" i	19' 6" i	15' 11" i
800S200-43	22' 7"	20' 6" e	16' 10" e	23' 9" i	20' 7" i	16' 10" i	20' 6"	18' 8"	16' 3" e	23' 0" i	20' 7" i	16' 10" i
800S250-43	23' 7"	20' 9" e	16' 11" e	24' 0" i	20' 9" i	16' 11" i	21' 5"	19' 5"	16' 11" e	24' 0" i	20' 9" i	16' 11" i
800S162-54	23' 2"	21' 1"	18' 5"	26' 0" i	23' 8" i	20' 8" i	21' 1"	19' 2"	16' 9"	23' 8"	21' 6" i	18' 9" i
800S200-54	24' 3"	22' 1"	19' 3"	27' 3" i	24' 9" i	21' 7" i	22' 1"	20' 0"	17' 6"	24' 9"	22' 6" i	19' 8" i
800S250-54	25' 3"	22' 11"	20' 0"	28' 4" i	25' 9" i	22' 6" i	22' 11"	20' 10"	18' 2"	25' 9"	23' 4" i	20' 5" i
800S162-68	24' 11"	22' 7"	19' 9"	27' 11"	25' 5"	22' 2" i	22' 7"	20' 6"	17' 11"	25' 5"	23' 1"	20' 2"
800S200-68	26' 1"	23' 8"	20' 8"	29' 3"	26' 7"	23' 3" i	23' 8"	21' 6"	18' 9"	26' 7"	24' 2"	21' 1"
800S250-68	27' 3"	24' 9"	21' 7"	30' 7"	27' 9" i	24' 3" i	24' 9"	22' 5"	19' 7"	27' 9"	25' 3"	22' 0" i
800S162-97	27' 8"	25' 1"	21' 11"	31' 1"	28' 2"	24' 8"	25' 1"	22' 10"	19' 11"	28' 2"	25' 7"	22' 5"
800S200-97	29' 0"	26' 4"	23' 0"	32' 7"	29' 7"	25' 10"	26' 4"	23' 11"	20' 11"	29' 7"	26' 10"	23' 6"
800S250-97	30' 4"	27' 6"	24' 1"	34' 0"	30' 11"	27' 0"	27' 6"	25' 0"	21' 10"	30' 11"	28' 1"	24' 6"
1000S162-43	24' 11" e	21' 6" e	17' 7" e	24' 11" a	21' 6" a	16' 6" a	23' 7" e	21' 5" e	17' 7" e	24' 11" a	21' 6" a	16' 6" a
1000S200-43	26' 4" e	22' 9" e	18' 7" e	26' 4" a	22' 8" a	17' 0" a	24' 7" e	22' 4" e	18' 7" e	26' 4" a	22' 8" a	17' 0" a
1000S250-43	26' 7" e	23' 0" e	18' 10" e	26' 7" a	22' 10" a	17' 1" a	25' 6" e	23' 0" e	18' 10" e	26' 7" a	22' 10" a	17' 1" a
1000S162-54	27' 10"	25' 4"	22' 1"	31' 4" i	28' 5" i	23' 10" i	25' 4"	23' 0"	20' 1"	28' 5" i	25' 10" i	22' 7" i
1000S200-54	29' 1"	26' 5"	23' 1"	32' 8" i	29' 8" i	24' 6" i	26' 5"	24' 0"	20' 11"	29' 8" i	26' 11" i	23' 6" i
1000S250-54	30' 2"	27' 5"	24' 0"	33' 11" i	30' 7" i	25' 0" i	27' 5"	24' 11"	21' 9"	30' 10" i	28' 0" i	24' 5" i
1000S162-68	29' 11"	27' 2"	23' 9"	33' 7"	30' 6" i	26' 8" i	27' 2"	24' 8"	21' 7"	30' 6"	27' 9"	24' 3" i
1000S200-68	31' 3"	28' 4"	24' 9"	35' 1"	31' 10" i	27' 10" i	28' 4"	25' 9"	22' 6"	31' 10"	28' 11"	25' 3" i
1000S250-68	32' 6"	29' 6"	25' 9"	36' 6" i	33' 2" i	28' 11" i	29' 6"	26' 10"	23' 5"	33' 2"	30' 1" i	26' 4" i
1000S162-97	33' 4"	30' 3"	26' 5"	37' 5"	34' 0"	29' 8"	30' 3"	27' 6"	24' 0"	34' 0"	30' 10"	26' 11"
1000S200-97	34' 9"	31' 7"	27' 7"	39' 1"	35' 6"	31' 0"	31' 7"	28' 9"	25' 1"	35' 6"	32' 3"	28' 2"
1000S250-97	36' 3"	32' 11"	28' 9"	40' 8"	36' 11"	32' 3"	32' 11"	29' 11"	26' 1"	36' 11"	33' 7"	29' 4"
1200S162-54	32' 6" e	29' 6" e	25' 9" e	36' 6" a	31' 9" a	25' 5" a	29' 6" e	26' 10" e	23' 5" e	33' 2" a	30' 1" a	25' 5" a
1200S200-54	33' 9" e	30' 8" e	26' 8" e	37' 9" a	32' 8" a	25' 10" a	30' 8" e	27' 10" e	24' 4" e	34' 5" a	31' 3" a	25' 10" a
1200S250-54	35' 0" e	31' 9" e	27' 3" e	38' 7" a	33' 5" a	26' 2" a	31' 9" e	28' 11" e	25' 3" e	35' 8" a	32' 5" a	26' 2" a
1200S162-68	34' 11"	31' 8"	27' 8"	39' 2" i	35' 7" i	31' 1" i	31' 8"	28' 10"	25' 2"	35' 7"	32' 4" i	28' 3" i
1200S200-68	36' 3"	33' 0"	28' 10"	40' 9" i	37' 0" i	32' 4" i	33' 0"	29' 11"	26' 2"	37' 0"	33' 8" i	29' 4" i
1200S250-68	37' 8"	34' 2"	29' 10"	42' 3" i	38' 5" i	32' 4" i	34' 2"	31' 1"	27' 2"	38' 5" i	34' 11" i	30' 6" i
1200S162-97	38' 10"	35' 4"	30' 10"	43' 8"	39' 8"	34' 8"	35' 4"	32' 1"	28' 0"	39' 8"	36' 0"	31' 6"
1200S200-97	40' 6"	36' 9"	32' 1"	45' 5"	41' 3"	36' 1"	36' 9"	33' 5"	29' 2"	41' 3"	37' 6"	32' 9"
1200S250-97	42' 0"	38' 2"	33' 4"	47' 2"	42' 10"	37' 5" i	38' 2"	34' 8"	30' 3"	42' 10"	38' 11"	34' 0"

" e " Requires web stiffeners at end supports " i " Requires web stiffeners at interior supports " a " Requires web stiffeners at all supports

SSMA

Floor Joist Span Tables

10 psf Dead Load and 30 psf Live Load

Member	Live Load Deflection L/360						Live Load Deflection L/480					
	Single Span			Two Equal Spans			Single Span			Two Equal Spans		
	Spacing (in) o.c.			Spacing (in) o.c.			Spacing (in) o.c.			Spacing (in) o.c.		
	12	16	24	12	16	24	12	16	24	12	16	24
600S162-33	13' 9" e	11' 11" e	9' 9" e	13' 9" i	11' 11" i	9' 3" a	12' 6" e	11' 4" e	9' 9" e	13' 9" i	11' 11" i	9' 3" a
600S200-33	14' 3" e	12' 4" e	10' 0" e	14' 3" i	12' 4" a	9' 5" a	13' 1" e	11' 10" e	10' 0" e	14' 3" i	12' 4" a	9' 5" a
600S162-43	14' 11"	13' 7"	11' 9" e	16' 8" i	14' 5" i	11' 9" i	13' 7"	12' 4"	10' 9"	15' 3" i	13' 10" i	11' 9" i
600S200-43	15' 9"	14' 3"	11' 11" e	16' 11" i	14' 8" i	11' 11" i	14' 3"	13' 0"	11' 4" e	16' 0" i	14' 7" i	11' 11" i
600S250-43	16' 5"	14' 11"	12' 3" e	17' 4" i	15' 0" i	12' 3" i	14' 11"	13' 7"	11' 10" e	16' 9" i	15' 0" i	12' 3" i
600S162-54	16' 1"	14' 7"	12' 9"	18' 0"	16' 4" i	14' 4" i	14' 7"	13' 3"	11' 7"	16' 4"	14' 10"	13' 0" i
600S200-54	16' 10"	15' 4"	13' 5"	18' 11"	17' 3" i	15' 0" i	15' 4"	13' 11"	12' 2"	17' 3"	15' 8"	13' 8" i
600S250-54	17' 7"	16' 0"	13' 11"	19' 9" i	17' 11" i	15' 8" i	16' 0"	14' 6"	12' 8"	17' 11"	16' 4" i	14' 3" i
600S162-68	17' 3"	15' 8"	13' 8"	19' 4"	17' 7"	15' 4" i	15' 8"	14' 2"	12' 5"	17' 7"	15' 11"	13' 11"
600S200-68	18' 1"	16' 5"	14' 4"	20' 4"	18' 6"	16' 2" i	16' 5"	14' 11"	13' 1"	18' 6"	16' 9"	14' 8"
600S250-68	19' 0"	17' 3"	15' 1"	21' 4"	19' 4"	16' 11" i	17' 3"	15' 8"	13' 8"	19' 4"	17' 7"	15' 4" i
600S162-97	19' 1"	17' 4"	15' 2"	21' 5"	19' 6"	17' 0"	17' 4"	15' 9"	13' 9"	19' 6"	17' 8"	15' 5"
600S200-97	20' 1"	18' 3"	15' 11"	22' 7"	20' 6"	17' 11"	18' 3"	16' 7"	14' 6"	20' 6"	18' 8"	16' 3"
600S250-97	21' 1"	19' 2"	16' 9"	23' 8"	21' 6"	18' 10"	19' 2"	17' 5"	15' 3"	21' 6"	19' 7"	17' 1"
800S162-33	15' 9" e	13' 8" e	11' 1" e	14' 5" a	11' 8" a	8' 7" a	15' 9" e	13' 8" e	11' 1" e	14' 5" a	11' 8" a	8' 7" a
800S200-33	16' 4" e	14' 1" e	11' 4" e	14' 9" a	11' 11" a	8' 8" a	16' 4" e	14' 1" e	11' 4" e	14' 9" a	11' 11" a	8' 8" a
800S162-43	18' 10"	16' 10" e	13' 9" e	19' 6" i	16' 10" i	13' 9" a	17' 2"	15' 7" e	13' 7" e	19' 3" i	16' 10' i	13' 9" a
800S200-43	19' 9"	17' 10" e	14' 7" e	20' 7" i	17' 10" i	14' 4" a	17' 11"	16' 3" e	14' 3" e	20' 1" i	17' 10" i	14' 4" a
800S250-43	20' 7" e	18' 0" e	14' 8" e	20' 9" i	18' 0" i	14' 5" a	18' 8"	17' 0" e	14' 8" e	20' 9" i	18' 0" i	14' 5" a
800S162-54	20' 3"	18' 5"	16' 1"	22' 9" i	20' 8" i	18' 0" i	18' 5"	16' 9"	14' 7"	20' 8"	18' 9" i	16' 5" i
800S200-54	21' 2"	19' 3"	16' 10"	23' 10" i	21' 7" i	18' 11" i	19' 3"	17' 6"	15' 3"	21' 7" i	19' 8" i	17' 2" i
800S250-54	22' 0"	20' 0"	17' 6"	24' 9" i	22' 6" i	19' 6" i	20' 0"	18' 2"	15' 10"	22' 6" i	20' 5" i	17' 10" i
800S162-68	21' 9"	19' 9"	17' 3"	24' 5"	22' 2"	19' 4" i	19' 9"	17' 11"	15' 8"	22' 2"	20' 2"	17' 7" i
800S200-68	22' 9"	20' 8"	18' 1"	25' 7"	23' 3" i	20' 3" i	20' 8"	18' 9"	16' 5"	23' 3"	21' 1"	18' 5" i
800S250-68	23' 9"	21' 7"	18' 10"	26' 8"	24' 3" i	21' 2" i	21' 7"	19' 7"	17' 2"	24' 3"	22' 0"	19' 3" i
800S162-97	24' 2"	21' 11"	19' 2"	27' 1"	24' 8"	21' 6"	21' 11"	19' 11"	17' 5"	24' 8"	22' 5"	19' 7"
800S200-97	25' 4"	23' 0"	20' 1"	28' 5"	25' 10"	22' 7"	23' 0"	20' 11"	18' 3"	25' 10"	23' 6"	20' 6"
800S250-97	26' 6"	24' 1"	21' 0"	29' 9"	27' 0"	23' 7"	24' 1"	21' 10"	19' 1"	27' 0"	24' 6"	21' 5"
1000S162-43	21' 6" e	18' 8" e	15' 3" e	21' 6" a	17' 11" a	13' 4" a	20' 7" e	18' 8" e	15' 3" e	21' 6" a	17' 11" a	13' 4" a
1000S200-43	22' 9" e	19' 9" e	16' 1" e	22' 8" a	18' 6" a	13' 9" a	21' 5" e	19' 6" e	16' 1" e	22' 8" a	18' 6" a	13' 9" a
1000S250-43	23' 0" e	19' 11" e	16' 3" e	22' 10" a	18' 8" a	13' 10" a	22' 4" e	19' 11" e	16' 3" e	22' 10" a	18' 8" a	13' 10" a
1000S162-54	24' 4"	22' 1"	19' 4" e	27' 4" i	24' 10" i	20' 8" i	22' 1"	20' 1"	17' 6"	24' 10" i	22' 7" i	19' 8" i
1000S200-54	25' 5"	23' 1"	20' 2" e	28' 6" i	25' 11" i	21' 2" i	23' 1"	20' 11"	18' 3"	25' 11" i	23' 6" i	20' 6" i
1000S250-54	26' 5"	24' 0"	20' 11" e	29' 7" i	26' 6" i	21' 7" i	24' 0"	21' 9"	19' 0" e	26' 11" i	24' 5" i	21' 4" i
1000S162-68	26' 2"	23' 9"	20' 9"	29' 4" i	26' 8" i	23' 4" i	23' 9"	21' 7"	18' 10"	26' 8"	24' 3" i	21' 2" i
1000S200-68	27' 3"	24' 9"	21' 8"	30' 8" i	27' 10" i	24' 4" i	24' 9"	22' 6"	19' 8"	27' 10"	25' 3" i	22' 1" i
1000S250-68	28' 4"	25' 9"	22' 6"	31' 10" i	28' 11" i	25' 3" i	25' 9"	23' 5"	20' 5"	28' 11"	26' 4" i	23' 0" i
1000S162-97	29' 1"	26' 5"	23' 1"	32' 8"	29' 8"	25' 11"	26' 5"	24' 0"	21' 0"	29' 8"	26' 11"	23' 7"
1000S200-97	30' 5"	27' 7"	24' 1"	34' 1"	31' 0"	27' 1"	27' 7"	25' 1"	21' 11"	31' 0"	28' 2"	24' 7"
1000S250-97	31' 8"	28' 9"	25' 1"	35' 6"	32' 3"	28' 2"	28' 9"	26' 1"	22' 10"	32' 3"	29' 4"	25' 7"
1200S162-54	28' 4" e	25' 9" e	22' 5" e	31' 9" a	27' 6" a	20' 9" a	25' 9" e	23' 5" e	20' 5" e	28' 11" a	26' 3" a	20' 9" a
1200S200-54	29' 6" e	26' 9" e	23' 1" e	32' 8" a	28' 1" a	21' 1" a	26' 9" e	24' 4" e	21' 3" e	30' 1" a	27' 4" a	21' 1" a
1200S250-54	30' 7" e	27' 9" e	23' 7" e	33' 5" a	28' 5" a	21' 4" a	27' 9" e	25' 3" e	22' 0" e	31' 2" a	28' 4" a	21' 4" a
1200S162-68	30' 6"	27' 8"	24' 2"	34' 3" i	31' 1" i	27' 1" i	27' 8"	25' 2"	22' 0"	31' 1" i	28' 3" i	24' 8" i
1200S200-68	31' 8"	28' 10"	25' 2"	35' 7" i	32' 4" i	28' 3" i	28' 10"	26' 2"	22' 10"	32' 4" i	29' 4" i	25' 8" i
1200S250-68	32' 11"	29' 10"	26' 1"	36' 11" i	33' 6" i	28' 0" i	29' 10"	27' 2"	23' 8"	33' 6" i	30' 6" i	26' 7" i
1200S162-97	33' 11"	30' 10"	26' 11"	38' 2"	34' 8"	30' 3" i	30' 10"	28' 0"	24' 6"	34' 8"	31' 6"	27' 6"
1200S200-97	35' 4"	32' 1"	28' 1"	39' 8"	36' 1"	31' 6" i	32' 1"	29' 2"	25' 6"	36' 1"	32' 9"	28' 7"
1200S250-97	36' 8"	33' 4"	29' 1"	41' 2"	37' 5"	32' 8" i	33' 4"	30' 3"	26' 5"	37' 5"	34' 0"	29' 8"

" e " Requires web stiffeners at end supports
" i " Requires web stiffeners at interior supports
" a " Requires web stiffeners at all supports

See page 31 for Allowable Floor Joist Span Table Notes.

SSMA

Floor Joist Span Tables

10 psf Dead Load and 40 psf Live Load

Member	Live Load Deflection L/360						Live Load Deflection L/480					
	Single Span			Two Equal Spans			Single Span			Two Equal Spans		
	Spacing (in) o.c.			Spacing (in) o.c.			Spacing (in) o.c.			Spacing (in) o.c.		
	12	16	24	12	16	24	12	16	24	12	16	24
600S162-33	12' 3" e	10' 8" e	8' 8" e	12' 3" i	10' 6" a	7' 10" a	11' 4" e	10' 3" e	8' 8" e	12' 3" i	10' 6" a	7' 10" a
600S200-33	12' 9" e	11' 0" e	9' 0" e	12' 9" i	10' 8" a	8' 0" a	11' 10" e	10' 9" e	9' 0" e	12' 9" i	10' 8" a	8' 0" a
600S162-43	13' 7"	12' 4"	10' 6" e	14' 10" i	12' 10" i	10' 6" i	12' 4"	11' 2"	9' 9" e	13' 10" i	12' 7" i	10' 6" i
600S200-43	14' 3"	13' 0"	10' 8" e	15' 1" i	13' 1" i	10' 8" i	13' 0"	11' 9"	10' 3" e	14' 7" i	13' 1" i	10' 8" i
600S250-43	14' 11"	13' 5"	10' 11" e	15' 6" i	13' 5" i	10' 11" i	13' 7"	12' 4"	10' 9" e	15' 3" i	13' 5" i	10' 11" i
600S162-54	14' 7"	13' 3"	11' 7"	16' 4" i	14' 10" i	13' 0" i	13' 3"	12' 0"	10' 6"	14' 10"	13' 6" i	11' 10" i
600S200-54	15' 4"	13' 11"	12' 2"	17' 3" i	15' 8" i	13' 8" i	13' 11"	12' 8"	11' 0"	15' 8"	14' 2" i	12' 5" i
600S250-54	16' 0"	14' 6"	12' 8"	17' 11" i	16' 4" i	14' 3" i	14' 6"	13' 2"	11' 6"	16' 4"	14' 10" i	12' 11" i
600S162-68	15' 8"	14' 2"	12' 5"	17' 7"	15' 11"	13' 11" i	14' 2"	12' 11"	11' 3"	15' 11"	14' 6"	12' 8"
600S200-68	16' 5"	14' 11"	13' 1"	18' 6"	16' 9"	14' 8" i	14' 11"	13' 7"	11' 10"	16' 9"	15' 3"	13' 4"
600S250-68	17' 3"	15' 8"	13' 8"	19' 4"	17' 7" i	15' 4" i	15' 8"	14' 3"	12' 5"	17' 7"	16' 0"	13' 11" i
600S162-97	17' 4"	15' 9"	13' 9"	19' 6"	17' 8"	15' 5"	15' 9"	14' 4"	12' 6"	17' 8"	16' 1"	14' 0"
600S200-97	18' 3"	16' 7"	14' 6"	20' 6"	18' 8"	16' 3"	16' 7"	15' 1"	13' 2"	18' 8"	16' 11"	14' 9"
600S250-97	19' 2"	17' 5"	15' 3"	21' 6"	19' 7"	17' 1"	17' 5"	15' 10"	13' 10"	19' 7"	17' 9"	15' 6"
800S162-33	14' 1" e	12' 2" e	9' 1" e	12' 3" a	9' 10" a	7' 2" a	14' 1" e	12' 2" e	9' 1" e	12' 3" a	9' 10" a	7' 2" a
800S200-33	14' 7" e	12' 7" e	9' 1" e	12' 6" a	10' 0" a	7' 3" a	14' 7" e	12' 7" e	9' 1" e	12' 6" a	10' 0" a	7' 3" a
800S162-43	17' 2" e	15' 1" e	12' 4" e	17' 5" i	15' 1" i	11' 11" a	15' 7"	14' 2" e	12' 4" e	17' 5" i	15' 1" i	11' 11" a
800S200-43	17' 11" e	15' 11" e	13' 0" e	18' 5" i	15' 11" i	12' 3" a	16' 3" e	14' 9" e	12' 11" e	18' 3" i	15' 11" i	12' 3" a
800S250-43	18' 7" e	16' 1" e	13' 1" e	18' 7" i	16' 1" i	12' 4" a	17' 0" e	15' 5" e	13' 1" e	18' 7" i	16' 1" i	12' 4" a
800S162-54	18' 5"	16' 9"	14' 7"	20' 8" i	18' 9" i	16' 5" i	16' 9"	15' 2"	13' 3"	18' 9" i	17' 1" i	14' 11" i
800S200-54	19' 3"	17' 6"	15' 3"	21' 7" i	19' 8" i	17' 1" i	17' 6"	15' 11"	13' 10"	19' 8" i	17' 10" i	15' 7" i
800S250-54	20' 0"	18' 2"	15' 10"	22' 6" i	20' 5" i	17' 5" i	18' 2"	16' 6"	14' 5"	20' 5" i	18' 7" i	16' 2" i
800S162-68	19' 9"	17' 11"	15' 8"	22' 2"	20' 2" i	17' 7" i	17' 11"	16' 3"	14' 3"	20' 2"	18' 4"	16' 0" i
800S200-68	20' 8"	18' 9"	16' 5"	23' 3"	21' 1" i	18' 5" i	18' 9"	17' 1"	14' 11"	21' 1"	19' 2"	16' 9" i
800S250-68	21' 7"	19' 7"	17' 2"	24' 3" i	22' 0" i	19' 3" i	19' 7"	17' 10"	15' 7"	22' 0"	20' 0" i	17' 6" i
800S162-97	21' 11"	19' 11"	17' 5"	24' 8"	22' 5"	19' 7"	19' 11"	18' 1"	15' 10"	22' 5"	20' 4"	17' 9"
800S200-97	23' 0"	20' 11"	18' 3"	25' 10"	23' 6"	20' 6"	20' 11"	19' 0"	16' 7"	23' 6"	21' 4"	18' 7"
800S250-97	24' 1"	21' 10"	19' 1"	27' 0"	24' 6"	21' 5"	21' 10"	19' 10"	17' 4"	24' 6"	22' 3"	19' 6"
1000S162-43	19' 3" e	16' 8" e	13' 7" e	18' 9" a	15' 3" a	11' 4" a	18' 8" e	16' 8" e	13' 7" e	18' 9" a	15' 3" a	11' 4" a
1000S200-43	20' 4" e	17' 8" e	14' 5" e	19' 5" a	15' 9" a	11' 7" a	19' 6" e	17' 8" e	14' 5" e	19' 5" a	15' 9" a	11' 7" a
1000S250-43	20' 7" e	17' 10" e	14' 7" e	19' 6" a	15' 10" a	11' 8" a	20' 3" e	17' 10" e	14' 7" e	19' 6" a	15' 10" a	11' 8" a
1000S162-54	22' 1"	20' 1"	17' 6" e	24' 10" i	22' 7" i	18' 2" i	20' 1"	18' 3"	15' 11" e	22' 7" i	20' 6" i	17' 11" i
1000S200-54	23' 1"	20' 11"	18' 3" e	25' 11" i	23' 2" i	18' 6" i	20' 11"	19' 0"	16' 7" e	23' 6" i	21' 4" i	18' 6" i
1000S250-54	24' 0"	21' 9"	19' 0" e	26' 11" i	23' 8" i	18' 9" i	21' 9"	19' 9"	17' 3" e	24' 5" i	22' 2" i	18' 9" i
1000S162-68	23' 9"	21' 7"	18' 10"	26' 8" i	24' 3" i	21' 2" i	21' 7"	19' 7"	17' 1"	24' 3"	22' 0" i	19' 3" i
1000S200-68	24' 9"	22' 6"	19' 8"	27' 10" i	25' 3" i	22' 1" i	22' 6"	20' 5"	17' 10"	25' 3"	23' 0" i	20' 1" i
1000S250-68	25' 9"	23' 5"	20' 5"	28' 11" i	26' 4" i	23' 0" i	23' 5"	21' 3"	18' 7"	26' 4" i	23' 11" i	20' 10" i
1000S162-97	26' 5"	24' 0"	21' 0"	29' 8"	26' 11"	23' 7" i	24' 0"	21' 10"	19' 1"	26' 11"	24' 6"	21' 5"
1000S200-97	27' 7"	25' 1"	21' 11"	31' 0"	28' 2"	24' 7" i	25' 1"	22' 9"	19' 11"	28' 2"	25' 7"	22' 4"
1000S250-97	28' 9"	26' 1"	22' 10"	32' 3"	29' 4"	25' 7" i	26' 1"	23' 9"	20' 9"	29' 4"	26' 8"	23' 3"
1200S162-54	25' 9" e	23' 5" e	20' 1" e	28' 5" a	23' 7" a	17' 8" a	23' 5" e	21' 3" e	18' 7" e	26' 3" a	23' 7" a	17' 8" a
1200S200-54	26' 9" e	24' 4" e	20' 8" e	29' 3" a	24' 0" a	17' 11" a	24' 4" e	22' 1" e	19' 4" e	27' 4" a	24' 0" a	17' 11" a
1200S250-54	27' 9" e	25' 3" e	21' 1" e	29' 9" a	24' 4" a	18' 1" a	25' 3" e	22' 11" e	20' 0" e	28' 4" a	24' 4" a	18' 1" a
1200S162-68	27' 8"	25' 2"	22' 0"	31' 1" i	28' 3" i	24' 3" i	25' 2"	22' 10"	19' 11"	28' 3" i	25' 8" i	22' 5" i
1200S200-68	28' 10"	26' 2"	22' 10" e	32' 4" i	29' 4" i	25' 6" i	26' 2"	23' 9"	20' 9"	29' 4" i	26' 8" i	23' 4" i
1200S250-68	29' 10"	27' 2"	23' 8" e	33' 6" i	30' 6" i	25' 0" i	27' 2"	24' 8"	21' 6"	30' 6" i	27' 8" i	24' 2" i
1200S162-97	30' 10"	28' 0"	24' 6"	34' 8"	31' 6"	27' 6" i	28' 0"	25' 5"	22' 3"	31' 6"	28' 7"	25' 0" i
1200S200-97	32' 1"	29' 2"	25' 6"	36' 1"	32' 9"	28' 7" i	29' 2"	26' 6"	23' 2"	32' 9"	29' 9"	26' 0" i
1200S250-97	33' 4"	30' 3"	26' 5"	37' 5"	34' 0"	29' 8" i	30' 3"	27' 6"	24' 0"	34' 0"	30' 11"	27' 0" i

" e " Requires web stiffeners at end supports
" i " Requires web stiffeners at interior supports
" a " Requires web stiffeners at all supports

See page 31 for Allowable Floor Joist Span Table Notes.

Floor Joist Span Tables

10 psf Dead Load and 50 psf Live Load

Members	Live Load Deflection L/360						Live Load Deflection L/480					
	Single Span			Two Equal Spans			Single Span			Two Equal Spans		
	Spacing (in) o.c.			Spacing (in) o.c.			Spacing (in)			Spacing (in)		
	12	16	24	12	16	24	12	16	24	12	16	24
600S162-33	11' 3" e	9' 9" e	7' 11" e	11' 3" a	9' 3" a	6' 10" a	10' 6" e	9' 7" e	7' 11" e	11' 3" a	9' 3" a	6' 10" a
600S200-33	11' 7" e	10' 0" e	8' 2" e	11' 6" a	9' 5" a	7' 0" a	11' 0" e	10' 0" e	8' 2" e	11' 6" a	9' 5" a	7' 0" a
600S162-43	12' 7"	11' 5" e	9' 7" e	13' 7" i	11' 9" i	9' 7" i	11' 5"	10' 5"	9' 1" e	12' 10" i	11' 8" i	9' 7" i
600S200-43	13' 3"	11' 11" e	9' 9" e	13' 10" i	11' 11" i	9' 9" i	12' 0"	10' 11"	9' 6" e	13' 6" i	11' 11" i	9' 9" i
600S250-43	13' 10"	12' 3" e	10' 0" e	14' 2" i	12' 3" i	10' 0" a	12' 7"	11' 5" e	10' 0" e	14' 2" i	12' 3" i	10' 0" a
600S162-54	13' 6"	12' 3"	10' 9"	15' 2" i	13' 10" i	12' 1" i	12' 3"	11' 2"	9' 9"	13' 10"	12' 6" i	10' 11" i
600S200-54	14' 3"	12' 11"	11' 3"	16' 0" i	14' 6" i	12' 8" i	12' 11"	11' 9"	10' 3"	14' 6" i	13' 2" i	11' 6" i
600S250-54	14' 10"	13' 6"	11' 9"	16' 8" i	15' 1" i	13' 2" i	13' 6"	12' 3"	10' 8"	15' 1" i	13' 9" i	12' 0" i
600S162-68	14' 6"	13' 2"	11' 6"	16' 4"	14' 10"	12' 11" i	13' 2"	12' 0"	10' 5"	14' 10"	13' 5"	11' 9" i
600S200-68	15' 3"	13' 10"	12' 1"	17' 2"	15' 7"	13' 7" i	13' 10"	12' 7"	11' 0"	15' 7"	14' 2"	12' 4" i
600S250-68	16' 0"	14' 6"	12' 8"	18' 0"	16' 4" i	14' 3" i	14' 6"	13' 2"	11' 6"	16' 4"	14' 10"	12' 11" i
600S162-97	16' 1"	14' 7"	12' 9"	18' 1"	16' 5"	14' 4"	14' 7"	13' 3"	11' 7"	16' 5"	14' 11"	13' 0"
600S200-97	16' 11"	15' 5"	13' 5"	19' 0"	17' 3"	15' 1"	15' 5"	14' 0"	12' 3"	17' 3"	15' 8"	13' 9"
600S250-97	17' 10"	16' 2"	14' 1"	20' 0"	18' 2"	15' 10"	16' 2"	14' 8"	12' 10"	18' 2"	16' 6"	14' 5"
800S162-33	12' 10" e	11' 1" e	7' 6" e	10' 8" a	8' 7" a	6' 0" a	12' 10" e	11' 1" e	7' 6" e	10' 8" a	8' 7" a	6' 0" a
800S200-33	13' 4" e	11' 4" e	7' 6" e	10' 10" a	8' 8" a	6' 0" a	13' 4" e	11' 4" e	7' 6" e	10' 10" a	8' 8" a	6' 0" a
800S162-43	15' 11" e	13' 9" e	11' 3" e	15' 11" i	13' 9" a	10' 5" a	14' 5" e	13' 1" e	11' 3" e	15' 11" i	13' 9" a	10' 5" a
800S200-43	16' 8" e	14' 7" e	11' 10" e	16' 10" i	14' 4" a	10' 9" a	15' 1" e	13' 9" e	11' 10" e	16' 10" i	14' 4" a	10' 9" a
800S250-43	16' 11" e	14' 8" e	12' 0" e	16' 11" i	14' 5" a	10' 10" a	15' 9" e	14' 4" e	12' 0" e	16' 11" i	14' 5" a	10' 10" a
800S162-54	17' 1"	15' 6"	13' 7" e	19' 2" i	17' 5" i	15' 2" i	15' 6"	14' 1"	12' 4"	17' 5" i	15' 10" i	13' 10" i
800S200-54	17' 10"	16' 3"	14' 2" e	20' 1" i	18' 3" i	15' 7" i	16' 3"	14' 9"	12' 10"	18' 3" i	16' 7" i	14' 6" i
800S250-54	18' 7"	16' 10"	14' 9" e	20' 10" i	18' 11" i	15' 11" i	16' 10"	15' 4"	13' 5"	18' 11" i	17' 3" i	15' 0" i
800S162-68	18' 4"	16' 8"	14' 6"	20' 7"	18' 8" i	16' 4" i	16' 8"	15' 1"	13' 2"	18' 8"	17' 0" i	14' 10" i
800S200-68	19' 2"	17' 5"	15' 3"	21' 7" i	19' 7" i	17' 1" i	17' 5"	15' 10"	13' 10"	19' 7"	17' 9" i	15' 6" i
800S250-68	20' 0"	18' 2"	15' 11"	22' 6" i	20' 5" i	17' 10" i	18' 2"	16' 6"	14' 5"	20' 5"	18' 7" i	16' 3" i
800S162-97	20' 4"	18' 6"	16' 2"	22' 10"	20' 9"	18' 2"	18' 6"	16' 10"	14' 8"	20' 9"	18' 10"	16' 6"
800S200-97	21' 4"	19' 5"	16' 11"	24' 0"	21' 9"	19' 0"	19' 5"	17' 7"	15' 5"	21' 9"	19' 9"	17' 3"
800S250-97	22' 4"	20' 3"	17' 8"	25' 1"	22' 9"	19' 11" i	20' 3"	18' 5"	16' 1"	22' 9"	20' 8"	18' 1"
1000S162-43	17' 7" e	15' 3" e	12' 5" e	16' 6" a	13' 4" a	9' 10" a	17' 4" e	15' 3" e	12' 5" e	16' 6" a	13' 4" a	9' 10" a
1000S200-43	18' 7" e	16' 1" e	13' 2" e	17' 0" a	13' 9" a	10' 1" a	18' 1" e	16' 1" e	13' 2" e	17' 0" a	13' 9" a	10' 1" a
1000S250-43	18' 10" e	16' 3" e	13' 3" e	17' 1" a	13' 10" a	10' 1" a	18' 10" e	16' 3" e	13' 3" e	17' 1" a	13' 10" a	10' 1" a
1000S162-54	20' 6"	18' 8" e	16' 3" e	23' 1" i	20' 8" i	16' 0" i	18' 8"	16' 11"	14' 9" e	20' 11" i	19' 0" i	16' 0" i
1000S200-54	21' 5"	19' 5" e	17' 0" e	24' 0" i	21' 2" i	16' 3" i	19' 5"	17' 8"	15' 5" e	21' 10" i	19' 10" i	16' 3" i
1000S250-54	22' 3"	20' 2" e	17' 8" e	25' 0" i	21' 7" i	16' 6" a	20' 2"	18' 4"	16' 0" e	22' 8" i	20' 7" i	16' 6" a
1000S162-68	22' 1"	20' 0"	17' 6"	24' 9" i	22' 6" i	19' 8" i	20' 0"	18' 2"	15' 11"	22' 6" i	20' 5" i	17' 10" i
1000S200-68	23' 0"	20' 11"	18' 3"	25' 10" i	23' 6" i	20' 6" i	20' 11"	19' 0"	16' 7"	23' 6" i	21' 4" i	18' 7" i
1000S250-68	23' 11"	21' 9"	19' 0"	26' 10" i	24' 5" i	21' 0" i	21' 9"	19' 9"	17' 3"	24' 5" i	22' 2" i	19' 4" i
1000S162-97	24' 6"	22' 3"	19' 6"	27' 7"	25' 0"	21' 10" i	22' 3"	20' 3"	17' 8"	25' 0"	22' 9"	19' 10"
1000S200-97	25' 7"	23' 3"	20' 4"	28' 9"	26' 2"	22' 10" i	23' 3"	21' 2"	18' 6"	26' 2"	23' 9"	20' 9"
1000S250-97	26' 8"	24' 3"	21' 2"	30' 0"	27' 3"	23' 9" i	24' 3"	22' 0"	19' 3"	27' 3"	24' 9"	21' 7" i
1200S162-54	23' 11" e	21' 9" e	18' 4" e	25' 5" a	20' 9" a	15' 5" a	21' 9" e	19' 9" e	17' 3" e	24' 5" a	20' 9" a	15' 5" a
1200S200-54	24' 10" e	22' 7" e	18' 10" e	25' 10" a	21' 1" a	15' 7" a	22' 7" e	20' 6" e	17' 11" e	25' 4" a	21' 1" a	15' 7" a
1200S250-54	25' 9" e	23' 5" e	19' 3" e	26' 2" a	21' 4" a	15' 9" a	23' 5" e	21' 3" e	18' 7" e	26' 2" a	21' 4" a	15' 9" a
1200S162-68	25' 8"	23' 4"	20' 5" e	28' 10" i	26' 3" i	22' 1" i	23' 4"	21' 3"	18' 6" e	26' 3" i	23' 10" i	20' 10" i
1200S200-68	26' 9"	24' 3"	21' 2" e	30' 0" i	27' 3" i	23' 3" i	24' 3"	22' 1"	19' 3" e	27' 3" i	24' 9" i	21' 8" i
1200S250-68	27' 9"	25' 2"	22' 0" e	31' 2" i	28' 0" i	22' 10" i	25' 2"	22' 11"	20' 0" e	28' 3" i	25' 8" i	22' 5" i
1200S162-97	28' 8"	26' 0"	22' 9"	32' 2"	29' 2"	25' 6" i	26' 0"	23' 8"	20' 8"	29' 2"	26' 6"	23' 2" i
1200S200-97	29' 10"	27' 1"	23' 8"	33' 6"	30' 5" i	26' 7" i	27' 1"	24' 7"	21' 6"	30' 5"	27' 7"	24' 1" i
1200S250-97	30' 11"	28' 1"	24' 7"	34' 9"	31' 7" i	27' 7" i	28' 1"	25' 6"	22' 4"	31' 7"	28' 8"	25' 0" i

" e " Requires web stiffeners at end supports
" i " Requires web stiffeners at interior supports
" a " Requires web stiffeners at all supports

See page 31 for Allowable Floor Joist Span Table Notes.

SSMA

Floor Joist Span Tables

15 psf Dead Load and 125 psf Live Load

Member	Live Load Deflection L/360						Live Load Deflection L/480					
	Single Span			Two Equal Spans			Single Span			Two Equal Spans		
	Spacing (in) o.c.			Spacing (in) o.c.			Spacing (in) o.c.			Spacing (in) o.c.		
	12	16	24	12	16	24	12	16	24	12	16	24
600S162-33	7' 4" e	6' 4" e	4' 4" e	6' 1" a	4' 11" a	3' 5" a	7' 4" e	6' 4" e	4' 4" e	6' 1" a	4' 11" a	3' 5" a
600S200-33	7' 7" e	6' 6" e	4' 4" e	6' 3" a	5' 0" a	3' 5" a	7' 7" e	6' 6" e	4' 4" e	6' 3" a	5' 0" a	3' 5" a
600S162-43	8' 10" e	7' 8" e	6' 3" e	8' 10" a	7' 8" a	5' 11" a	8' 5" e	7' 8" e	6' 3" e	8' 10" a	7' 8" a	5' 11" a
600S200-43	9' 0" e	7' 10" e	6' 4" e	9' 0" a	7' 10" a	6' 0" a	8' 10" e	7' 10" e	6' 4" e	9' 0" a	7' 10" a	6' 0" a
600S250-43	9' 3" e	8' 0" e	6' 6" e	9' 3" a	8' 0" a	6' 1" a	9' 3" e	8' 0" e	6' 6" e	9' 3" a	8' 0" a	6' 1" a
600S162-54	10' 0"	9' 1"	7' 11" e	11' 2" i	9' 11" i	8' 1" i	9' 1"	8' 3"	7' 2" e	10' 2" i	9' 3" i	8' 1" i
600S200-54	10' 6"	9' 6" e	8' 4" e	11' 9" i	10' 4" i	8' 5" a	9' 6"	8' 8"	7' 6" e	10' 8" i	9' 8" i	8' 5" a
600S250-54	10' 11"	9' 11" e	8' 8" e	12' 3" i	10' 8" i	8' 8" a	9' 11"	9' 0"	7' 10" e	11' 2" i	10' 1" i	8' 8" a
600S162-68	10' 8"	9' 8"	8' 6"	12' 0" i	10' 11" i	9' 6" i	9' 8"	8' 10"	7' 8"	10' 11" i	9' 11" i	8' 8" i
600S200-68	11' 3"	10' 2"	8' 11"	12' 7" i	11' 6" i	10' 0" i	10' 2"	9' 3"	8' 1"	11' 6" i	10' 5" i	9' 1" i
600S250-68	11' 9"	10' 8"	9' 4"	13' 3" i	11' 11" i	9' 9" i	10' 8"	9' 9"	8' 6"	12' 0" i	10' 11" i	9' 6" i
600S162-97	11' 10"	10' 9"	9' 5"	13' 4"	12' 1"	10' 7" i	10' 9"	9' 9"	8' 6"	12' 1"	11' 0"	9' 7" i
600S200-97	12' 6"	11' 4"	9' 11"	14' 0"	12' 9" i	11' 1" i	11' 4"	10' 4"	9' 0"	12' 9"	11' 7"	10' 1" i
600S250-97	13' 1"	11' 11"	10' 5"	14' 9"	13' 4" i	11' 8" i	11' 11"	10' 10"	9' 5"	13' 4"	12' 2"	10' 7" i
800S162-33	6' 5" e	4' 10" e	3' 2" e	5' 2" a	3' 10" a	2' 7" a	6' 5" e	4' 10" e	3' 2" e	5' 2" a	3' 10" a	2' 7" a
800S200-33	6' 5" e	4' 10" e	3' 2" e	5' 2" a	3' 10" a	2' 7" a	6' 5" e	4' 10" e	3' 2" e	5' 2" a	3' 10" a	2' 7" a
800S162-43	10' 5" e	9' 0" e	7' 2" e	9' 4" a	7' 7" a	5' 6" a	10' 5" e	9' 0" e	7' 2" e	9' 4" a	7' 7" a	5' 6" a
800S200-43	11' 0" e	9' 6" e	7' 2" e	9' 8" a	7' 9" a	5' 7" a	11' 0" e	9' 6" e	7' 2" e	9' 8" a	7' 9" a	5' 7" a
800S250-43	11' 1" e	9' 7" e	7' 2" e	9' 8" a	7' 9" a	5' 8" a	11' 1" e	9' 7" e	7' 2" e	9' 8" a	7' 9" a	5' 8" a
800S162-54	12' 7" e	11' 5" e	9' 11" e	14' 1" i	12' 1" a	9' 1" a	11' 5"	10' 4" e	9' 1" e	12' 10" i	11' 8" a	9' 1" a
800S200-54	13' 2" e	11' 11" e	10' 3" e	14' 5" i	12' 4" a	9' 3" a	11' 11" e	10' 10" e	9' 6" e	13' 5" i	12' 2" a	9' 3" a
800S250-54	13' 8" e	12' 5" e	10' 5" e	14' 8" i	12' 5" a	9' 4" a	12' 5" e	11' 3" e	9' 10" e	13' 11" i	12' 5" a	9' 4" a
800S162-68	13' 6"	12' 3"	10' 8" e	15' 2" i	13' 9" i	11' 10" i	12' 3"	11' 2"	9' 9" e	13' 9" i	12' 6" i	10' 11" i
800S200-68	14' 2"	12' 10"	11' 2" e	15' 10" i	14' 5" i	12' 5" a	12' 10"	11' 8"	10' 2" e	14' 5" i	13' 1" i	11' 5" i
800S250-68	14' 9"	13' 5"	11' 8" e	16' 7" i	14' 7" i	11' 11" i	13' 5"	12' 2"	10' 8" e	15' 1" i	13' 8" i	11' 11" i
800S162-97	15' 0"	13' 7"	11' 11"	16' 10" i	15' 3" i	13' 4" i	13' 7"	12' 4"	10' 10"	15' 3"	13' 11" i	12' 2" i
800S200-97	15' 9"	14' 3"	12' 6"	17' 8" i	16' 0" i	14' 0" i	14' 3"	13' 0"	11' 4"	16' 0"	14' 7" i	12' 9" i
800S250-97	16' 5"	14' 11"	13' 0"	18' 5" i	16' 9" i	14' 8" i	14' 11"	13' 7"	11' 10"	16' 9"	15' 3" i	13' 4" i
1000S162-43	11' 5" e	8' 7" e	5' 8" e	8' 8" a	6' 10" a	4' 6" a	11' 5" e	8' 7" e	5' 8" e	8' 8" a	6' 10" a	4' 6" a
1000S200-43	11' 5" e	8' 7" e	5' 8" e	8' 11" a	6' 10" a	4' 6" a	11' 5" e	8' 7" e	5' 8" e	8' 11" a	6' 10" a	4' 6" a
1000S250-43	11' 5" e	8' 7" e	5' 8" e	8' 11" a	6' 10" a	4' 6" a	11' 5" e	8' 7" e	5' 8" e	8' 11" a	6' 10" a	4' 6" a
1000S162-54	15' 1" e	13' 6" e	11' 0" e	14' 4" a	11' 7" a	8' 6" a	13' 9" e	12' 6" e	10' 11" e	14' 4" a	11' 7" a	8' 6" a
1000S200-54	15' 9" e	13' 10" e	11' 4" e	14' 7" a	11' 9" a	8' 7" a	14' 4" e	13' 0" e	11' 4" e	14' 7" a	11' 9" a	8' 7" a
1000S250-54	16' 4" e	14' 2" e	11' 4" e	14' 9" a	11' 11" a	8' 8" a	14' 11" e	13' 6" e	11' 4" e	14' 9" a	11' 11" a	8' 8" a
1000S162-68	16' 3"	14' 9" e	12' 10" e	18' 3" i	16' 2" i	13' 1" a	14' 9"	13' 5" e	11' 8" e	16' 7" i	15' 0" i	13' 1" a
1000S200-68	16' 11" e	15' 5" e	13' 5" e	19' 0" i	17' 1" a	13' 6" a	15' 5"	14' 0" e	12' 2" e	17' 3" i	15' 8" i	13' 6" a
1000S250-68	17' 7" e	16' 0" e	13' 9" e	19' 6" i	16' 10" i	13' 5" a	16' 0"	14' 6" e	12' 8" e	18' 0" i	16' 4" i	13' 5" a
1000S162-97	18' 1"	16' 5"	14' 4"	20' 3" i	18' 5" i	16' 1" i	16' 5"	14' 11"	13' 0"	18' 5" i	16' 9" i	14' 7" i
1000S200-97	18' 10"	17' 2"	15' 0"	21' 2" i	19' 3" i	16' 10" i	17' 2"	15' 7"	13' 7"	19' 3" i	17' 6" i	15' 3" i
1000S250-97	19' 8"	17' 10"	15' 7"	22' 1" i	20' 1" i	17' 6" i	17' 10"	16' 3"	14' 2"	20' 1" i	18' 2" i	15' 11" i
1200S162-54	16' 11" e	14' 1" e	9' 5" e	13' 8" a	10' 11" a	7' 6" a	16' 0" e	14' 1" e	9' 5" e	13' 8" a	10' 11" a	7' 6" a
1200S200-54	17' 5" e	14' 1" e	9' 5" e	13' 10" a	11' 0" a	7' 6" a	16' 8" e	14' 1" e	9' 5" e	13' 10" a	11' 0" a	7' 6" a
1200S250-54	17' 10" e	14' 1" e	9' 5" e	14' 0" a	11' 2" a	7' 6" a	17' 3" e	14' 1" e	9' 5" e	14' 0" a	11' 2" a	7' 6" a
1200S162-68	18' 11" e	17' 2" e	14' 6" e	20' 6" i	17' 0" a	12' 8" a	17' 2" e	15' 7" e	13' 8" e	19' 4" i	17' 0" a	12' 8" a
1200S200-68	19' 8" e	17' 11" e	15' 3" e	21' 5" a	17' 6" a	13' 0" a	17' 11" e	16' 3" e	14' 2" e	20' 1" i	17' 6" a	13' 0" a
1200S250-68	20' 5" e	18' 4" e	14' 11" e	21' 2" a	17' 4" a	12' 11" a	18' 7" e	16' 10" e	14' 9" e	20' 10" i	17' 4" a	12' 11" a
1200S162-97	21' 1"	19' 2"	16' 9" e	23' 8" i	21' 6" i	18' 9" i	19' 2"	17' 5"	15' 2"	21' 6" i	19' 6" i	17' 1" i
1200S200-97	21' 11"	19' 11"	17' 5" e	24' 8" i	22' 5" i	19' 7" i	19' 11"	18' 1"	15' 10"	22' 5" i	20' 4" i	17' 9" i
1200S250-97	22' 9"	20' 8"	18' 1" e	25' 7" i	23' 3" i	20' 4" i	20' 8"	18' 10"	16' 5" e	23' 3" i	21' 1" i	18' 5" i

" e " Requires web stiffeners at end supports
" i " Requires web stiffeners at interior supports
" a " Requires web stiffeners at all supports

See page 31 for Allowable Floor Joist Span Table Notes.

Floor Joist Span Tables

40 psf Dead Load and 125 psf Live Load

Member	Live Load Deflection L/360						Live Load Deflection L/480					
	Single Span			Two Equal Spans			Single Span			Two Equal Spans		
	Spacing (in) o.c.			Spacing (in) o.c.			Spacing (in) o.c.			Spacing (in) o.c.		
	12	16	24	12	16	24	12	16	24	12	16	24
600S162-33	6' 9" e	5' 6" e	3' 8" e	5' 5" a	4' 4" a	2' 11" a	6' 9" e	5' 6" e	3' 8" e	5' 5" a	4' 4" a	2' 11" a
600S200-33	7' 0" e	5' 6" e	3' 8" e	5' 6" a	4' 4" a	2' 11" a	7' 0" e	5' 6" e	3' 8" e	5' 6" a	4' 4" a	2' 11" a
600S162-43	8' 2" e	7' 1" e	5' 9" e	8' 2" a	7' 0" a	5' 3" a	8' 2" e	7' 1" e	5' 9" e	8' 2" a	7' 0" a	5' 3" a
600S200-43	8' 4" e	7' 2" e	5' 10" e	8' 4" a	7' 1" a	5' 3" a	8' 4" e	7' 2" e	5' 10" e	8' 4" a	7' 1" a	5' 3" a
600S250-43	8' 6" e	7' 4" e	6' 0" e	8' 6" a	7' 2" a	5' 4" a	8' 6" e	7' 4" e	6' 0" e	8' 6" a	7' 2" a	5' 4" a
600S162-54	10' 0"	9' 1" e	7' 5" e	10' 7" i	9' 2" i	7' 5" a	9' 1"	8' 3" e	7' 2" e	10' 2" i	9' 2" i	7' 5" a
600S200-54	10' 6"	9' 6" e	7' 9" e	11' 0" i	9' 6" i	7' 9" a	9' 6"	8' 8" e	7' 6" e	10' 8" i	9' 6" i	7' 9" a
600S250-54	10' 11" e	9' 10" e	8' 0" e	11' 4" i	9' 10" i	8' 0" a	9' 11"	9' 0" e	7' 10" e	11' 2" i	9' 10" i	8' 0" a
600S162-68	10' 8"	9' 8"	8' 6" e	12' 0" i	10' 11" i	8' 11" i	9' 8"	8' 10"	7' 8"	10' 11" i	9' 11" i	8' 8" i
600S200-68	11' 3"	10' 2"	8' 11" e	12' 7" i	11' 6" i	9' 4" i	10' 2"	9' 3"	8' 1"	11' 6" i	10' 5" i	9' 1" i
600S250-68	11' 9"	10' 8"	9' 0" e	12' 8" i	11' 0" i	9' 0" i	10' 8"	9' 9"	8' 6" e	12' 0" i	10' 11" i	9' 0" i
600S162-97	11' 10"	10' 9"	9' 5"	13' 4" i	12' 1" i	10' 7" i	10' 9"	9' 9"	8' 6"	12' 1"	11' 0" i	9' 7" i
600S200-97	12' 6"	11' 4"	9' 11"	14' 0" i	12' 9" i	11' 1" i	11' 4"	10' 4"	9' 0"	12' 9"	11' 7" i	10' 1" i
600S250-97	13' 1"	11' 11"	10' 5"	14' 9" i	13' 4" i	11' 8" i	11' 11"	10' 10"	9' 5"	13' 4"	12' 2" i	10' 7" i
800S162-33	5' 6" e	4' 1" e	2' 9" e	4' 4" a	3' 3" a	2' 2" a	5' 6" e	4' 1" e	2' 9" e	4' 4" a	3' 3" a	2' 2" a
800S200-33	5' 6" e	4' 1" e	2' 9" e	4' 4" a	3' 3" a	2' 2" a	5' 6" e	4' 1" e	2' 9" e	4' 4" a	3' 3" a	2' 2" a
800S162-43	9' 7" e	8' 3" e	6' 1" e	8' 3" a	6' 8" a	4' 10" a	9' 7" e	8' 3" e	6' 1" e	8' 3" a	6' 8" a	4' 10" a
800S200-43	10' 1" e	8' 9" e	6' 1" e	8' 6" a	6' 10" a	4' 10" a	10' 1" e	8' 9" e	6' 1" e	8' 6" a	6' 10" a	4' 10" a
800S250-43	10' 2" e	8' 10" e	6' 1" e	8' 7" a	6' 10" a	4' 10" a	10' 2" e	8' 10" e	6' 1" e	8' 7" a	6' 10" a	4' 10" a
800S162-54	12' 7" e	11' 3" e	9' 2" e	13' 0" i	10' 10" a	8' 1" a	11' 5" e	10' 4" e	9' 1" e	12' 10" i	10' 10" a	8' 1" a
800S200-54	13' 2" e	11' 6" e	9' 5" e	13' 4" a	11' 0" a	8' 2" a	11' 11" e	10' 10" e	9' 5" e	13' 4" a	11' 0" a	8' 2" a
800S250-54	13' 6" e	11' 9" e	9' 7" e	13' 6" a	11' 1" a	8' 3" a	12' 5" e	11' 3" e	9' 7" e	13' 6" a	11' 1" a	8' 3" a
800S162-68	13' 6"	12' 3" e	10' 8" e	15' 2" i	13' 5" i	10' 11" a	12' 3"	11' 2"	9' 9" e	13' 9" i	12' 6" i	10' 11" a
800S200-68	14' 2"	12' 10" e	11' 2" e	15' 10" i	14' 0" i	11' 5" a	12' 10"	11' 8" e	10' 2" e	14' 5" i	13' 1" i	11' 5" a
800S250-68	14' 9"	13' 5" e	11' 0" e	15' 6" i	13' 5" i	11' 0" a	13' 5"	12' 2" e	10' 8" e	15' 1" i	13' 5" i	11' 0" a
800S162-97	15' 0"	13' 7"	11' 11"	16' 10" i	15' 3" i	13' 2" i	13' 7"	12' 4"	10' 10"	15' 3" i	13' 11" i	12' 2" i
800S200-97	15' 9"	14' 3"	12' 6"	17' 8" i	16' 0" i	13' 11" i	14' 3"	13' 0"	11' 4"	16' 0" i	14' 7" i	12' 9" i
800S250-97	16' 5"	14' 11"	13' 0"	18' 5" i	16' 9" i	14' 4" i	14' 11"	13' 7"	11' 10"	16' 9" i	15' 3" i	13' 4" i
1000S162-43	9' 8" e	7' 3" e	4' 10" e	7' 8" a	5' 9" a	3' 10" a	9' 8" e	7' 3" e	4' 10" e	7' 8" a	5' 9" a	3' 10" a
1000S200-43	9' 8" e	7' 3" e	4' 10" e	7' 9" a	5' 9" a	3' 10" a	9' 8" e	7' 3" e	4' 10" e	7' 9" a	5' 9" a	3' 10" a
1000S250-43	9' 8" e	7' 3" e	4' 10" e	7' 9" a	5' 9" a	3' 10" a	9' 8" e	7' 3" e	4' 10" e	7' 9" a	5' 9" a	3' 10" a
1000S162-54	14' 4" e	12' 5" e	9' 7" e	12' 9" a	10' 3" a	7' 6" a	13' 9" e	12' 5" e	9' 7" e	12' 9" a	10' 3" a	7' 6" a
1000S200-54	14' 9" e	12' 9" e	9' 7" e	12' 11" a	10' 5" a	7' 7" a	14' 4" e	12' 9" e	9' 7" e	12' 11" a	10' 5" a	7' 7" a
1000S250-54	15' 0" e	13' 0" e	9' 7" e	13' 1" a	10' 6" a	7' 7" a	14' 11" e	13' 0" e	9' 7" e	13' 1" a	10' 6" a	7' 7" a
1000S162-68	16' 3" e	14' 9" e	12' 2" e	17' 3" i	14' 11" a	11' 8" a	14' 9" e	13' 5" e	11' 8" e	16' 7" i	14' 11" a	11' 8" a
1000S200-68	16' 11" e	15' 5" e	12' 10" e	18' 2" i	15' 9" a	12' 0" a	15' 5" e	14' 0" e	12' 2" e	17' 3" i	15' 8" a	12' 0" a
1000S250-68	17' 7" e	15' 6" e	12' 8" e	17' 11" i	15' 6" a	11' 11" a	16' 0" e	14' 6" e	12' 8" e	17' 11" i	15' 6" a	11' 11" a
1000S162-97	18' 1"	16' 5"	14' 4"	20' 3" i	18' 5" i	15' 7" i	16' 5"	14' 11"	13' 0"	18' 5" i	16' 9" i	14' 7" i
1000S200-97	18' 10"	17' 2"	15' 0" e	21' 2" i	19' 3" i	16' 5" i	17' 2"	15' 7"	13' 7"	19' 3" i	17' 6" i	15' 3" i
1000S250-97	19' 8"	17' 10"	15' 7" e	22' 1" i	20' 1" i	16' 10" i	17' 10"	16' 3"	14' 2"	20' 1" i	18' 2" i	15' 11" i
1200S162-54	15' 7" e	12' 0" e	8' 0" e	12' 0" a	9' 7" a	6' 4" a	15' 7" e	12' 0" e	8' 0" e	12' 0" a	9' 7" a	6' 4" a
1200S200-54	16' 0" e	12' 0" e	8' 0" e	12' 2" a	9' 7" a	6' 4" a	16' 0" e	12' 0" e	8' 0" e	12' 2" a	9' 7" a	6' 4" a
1200S250-54	16' 0" e	12' 0" e	8' 0" e	12' 4" a	9' 7" a	6' 4" a	16' 0" e	12' 0" e	8' 0" e	12' 4" a	9' 7" a	6' 4" a
1200S162-68	18' 10" e	16' 4" e	13' 4" e	18' 6" a	15' 2" a	11' 3" a	17' 2" e	15' 7" e	13' 4" e	18' 6" a	15' 2" a	11' 3" a
1200S200-68	19' 8" e	17' 2" e	14' 0" e	19' 1" a	15' 7" a	11' 6" a	17' 11" e	16' 3" e	14' 0" e	19' 1" a	15' 7" a	11' 6" a
1200S250-68	19' 6" e	16' 10" e	13' 9" e	18' 11" a	15' 5" a	11' 5" a	18' 7" e	16' 10" e	13' 9" e	18' 11" a	15' 5" a	11' 5" a
1200S162-97	21' 1"	19' 2"	16' 9" e	23' 8" i	21' 6" i	17' 11" i	19' 2"	17' 5"	15' 2" e	21' 6" i	19' 6" i	17' 1" i
1200S200-97	21' 11"	19' 11"	17' 5" e	24' 8" i	22' 5" i	18' 9" a	19' 11"	18' 1"	15' 10" e	22' 5" i	20' 4" i	17' 9" i
1200S250-97	22' 9"	20' 8"	18' 1" e	25' 7" i	23' 3" i	19' 2" a	20' 8"	18' 10"	16' 5" e	23' 3" i	21' 1" i	18' 5" i

" e " Requires web stiffeners at end supports
" i " Requires web stiffeners at interior supports
" a " Requires web stiffeners at all supports

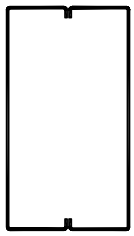
See page 31 for Allowable Floor Joist Span Table Notes.

SSMA

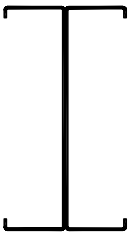
Header Load Tables

Header Load Table Notes

1. Deflection limit is L/360.
2. Allowable loads have not been modified for wind or earthquake loading.
3. Headers are made from two “boxed” or back to back members.
4. Allowable moment, shear and web crippling are based on twice the capacity of a single member. The moment of inertia is based on twice the value of the single member.
5. Bearing length for web crippling = 1" minimum.
6. Values are for unpunched members.
7. Members are assumed adequately braced for bending.
8. Allowable loads are for simply supported headers with uniform bending loads only.



Boxed Header



Back-to-Back Header

Header Allowable Uniform Loads (lb/ft)

Section	Yield Strength (ksi)	SPAN 3 (ft)	4 (ft)	5 (ft)	6 (ft)	8 (ft)	10 (ft)	12 (ft)
550S162-33	33	893 e	670 e	536 e	374 e	210 e	127 e	73 e
550S162-43	33	1982 e	1232 e	789 e	547 e	308 e	164 e	95
550S162-54	33	2779 e	1563 e	1000 e	694 e	390 e	203	117
550S162-54	50	3643 e	2049 e	1311 e	910 e	396 e	203	117
550S162-68	33	3514 e	1976 e	1265 e	878 e	488 e	250	144
550S162-68	50	5176 e	2911 e	1863 e	1157 e	488	250	144
600S137-33	33	816 e	612 e	489 e	373 e	209 e	134 e	80 e
600S162-33	33	816 e	612 e	489 e	408 e	237 e	152 e	90 e
600S200-33	33	816 e	612 e	489 e	408 e	254 e	162 e	104 e
600S137-43	33	1810 e	1233 e	789 e	548 e	308 e	178 e	103
600S162-43	33	1810 e	1357 e	889 e	617 e	347 e	202 e	117 e
600S200-43	33	1810 e	1357 e	919 e	638 e	359 e	229 e	135 e
600S250-43	33	1810 e	1357 e	967 e	671 e	377 e	241 e	155 e
600S137-54	33	2812 e	1581 e	1012 e	703 e	395 e	220 e	127
600S162-54	33	3135 e	1763 e	1128 e	783 e	440 e	250 e	144
600S200-54	33	3566 e	2006 e	1283 e	891 e	501 e	290 e	167
600S250-54	33	3392 e	1908 e	1221 e	848 e	477 e	305 e	193 e
600S137-54	50	3610 e	2269 e	1452 e	1008 e	429 e	220	127
600S162-54	50	3610 e	2313 e	1480 e	1028 e	488 e	250	144
600S200-54	50	3610 e	2500 e	1600 e	1111 e	566 e	290 e	167
600S250-54	50	3610 e	2666 e	1706 e	1185 e	641 e	328 e	190
600S137-68	33	3562 e	2004 e	1282 e	890 e	501 e	270	156
600S162-68	33	3968 e	2232 e	1428 e	992 e	558 e	308	178
600S200-68	33	4506 e	2534 e	1622 e	1126 e	633 e	358 e	207
600S250-68	33	4456 e	2506 e	1604 e	1114 e	626 e	401 e	239
600S137-68	50	5274 e	2966 e	1898 e	1252 e	528 e	270	156
600S162-68	50	5846 e	3288 e	2104 e	1426 e	601 e	308	178
600S200-68	50	6475 e	3642 e	2331 e	1618 e	700 e	358	207
600S250-68	50	5954 e	3349 e	2143 e	1488 e	807 e	413 e	239
600S137-97	33	5108 e	2873 e	1839 e	1277 e	715	366	211
600S162-97	33	5685 e	3197 e	2046 e	1421 e	799	419	242
600S200-97	33	6443 e	3624 e	2319 e	1610 e	906 e	490	283
600S250-97	33	7229 e	4066 e	2602 e	1807 e	1016 e	567	328
600S137-97	50	7526 e	4233 e	2709 e	1694 e	715	366	211
600S162-97	50	8403 e	4727 e	3025 e	1941 e	819	419	242
600S200-97	50	9560 e	5377 e	3441 e	2270 e	958	490	283
600S250-97	50	10277 e	5781 e	3700 e	2569 e	1109 e	567	328

“e” Web stiffeners required at each support

Header Load Tables

Header Allowable Uniform Loads (lb/ft)

Section	Yield Strength (ksi)	SPAN 3 (ft)	4 (ft)	5 (ft)	6 (ft)	8 (ft)	10 (ft)	12 (ft)
800S137-33	33	606 e	454 e	363 e	303 e	227 e	174 e	121 e
800S162-33	33	606 e	454 e	363 e	303 e	227 e	181 e	138 e
800S200-33	33	606 e	454 e	363 e	303 e	227 e	181 e	148 e
800S137-43	33	1344 e	1008 e	806 e	672 e	425 e	272 e	189 e
800S162-43	33	1344 e	1008 e	806 e	672 e	476 e	305 e	211 e
800S200-43	33	1344 e	1008 e	806 e	672 e	504 e	340 e	236 e
800S250-43	33	1344 e	1008 e	806 e	672 e	504 e	346 e	240 e
800S137-54	33	2674 e	2005 e	1541 e	1070 e	602 e	385 e	258 e
800S162-54	33	2674 e	2005 e	1604 e	1178 e	663 e	424 e	290 e
800S200-54	33	2674 e	2005 e	1604 e	1324 e	744 e	476 e	331 e
800S250-54	33	2674 e	2005 e	1604 e	1252 e	704 e	451 e	313 e
800S137-54	50	2674 e	2005 e	1604 e	1337 e	778 e	446 e	258 e
800S162-54	50	2674 e	2005 e	1604 e	1337 e	871 e	501 e	290 e
800S200-54	50	2674 e	2005 e	1604 e	1337 e	919 e	574 e	332 e
800S250-54	50	2674 e	2005 e	1604 e	1337 e	951 e	608 e	373 e
800S137-68	33	5397 e	3061 e	1959 e	1360 e	765 e	489 e	318 e
800S162-68	33	5397 e	3367 e	2155 e	1496 e	841 e	538 e	358 e
800S200-68	33	5397 e	3774 e	2415 e	1677 e	943 e	603 e	411 e
800S250-68	33	5397 e	3688 e	2360 e	1639 e	922 e	590 e	409 e
800S137-68	50	5397 e	4048 e	2901 e	2014 e	1076 e	550 e	318
800S162-68	50	5397 e	4048 e	3177 e	2206 e	1210 e	619 e	358 e
800S200-68	50	5397 e	4048 e	3238 e	2415 e	1358 e	711 e	411 e
800S250-68	50	5397 e	4048 e	3197 e	2220 e	1249 e	799 e	468 e
800S137-97	33	7865 e	4424 e	2831 e	1966 e	1106 e	707 e	434
800S162-97	33	8632 e	4856 e	3107 e	2158 e	1214 e	777 e	491
800S200-97	33	9647 e	5426 e	3473 e	2411 e	1356 e	868 e	566 e
800S250-97	33	10675 e	6005 e	3843 e	2668 e	1501 e	960 e	646 e
800S137-97	50	11588 e	6518 e	4171 e	2897 e	1467 e	751	434
800S162-97	50	12761 e	7178 e	4594 e	3190 e	1658 e	849 e	491
800S200-97	50	14314 e	8052 e	5153 e	3578 e	1912 e	979 e	566
800S250-97	50	14832 e	8557 e	5477 e	3803 e	2139 e	1117 e	646
1000S162-43	33	1069 e	801 e	641 e	534 e	400 e	320 e	258 e
1000S200-43	33	1069 e	801 e	641 e	534 e	400 e	320 e	267 e
1000S250-43	33	1069 e	801 e	641 e	534 e	400 e	320 e	267 e
1000S162-54	33	2124 e	1593 e	1274 e	1062 e	796 e	524 e	364 e
1000S200-54	33	2124 e	1593 e	1274 e	1062 e	796 e	594 e	412 e
1000S250-54	33	2124 e	1593 e	1274 e	1062 e	796 e	599 e	416 e
1000S162-54	50	2124 e	1593 e	1274 e	1062 e	796 e	637 e	474 e
1000S200-54	50	2124 e	1593 e	1274 e	1062 e	796 e	637 e	500 e
1000S250-54	50	2124 e	1593 e	1274 e	1062 e	796 e	637 e	520 e
1000S162-68	33	4278 e	3208 e	2567 e	2081 e	1170 e	749 e	520 e
1000S200-68	33	4278 e	3208 e	2567 e	2139 e	1297 e	830 e	576 e
1000S250-68	33	4278 e	3208 e	2567 e	2139 e	1257 e	804 e	558 e
1000S162-68	50	4278 e	3208 e	2567 e	2139 e	1537 e	984 e	623 e
1000S200-68	50	4278 e	3208 e	2567 e	2139 e	1604 e	1095 e	707 e
1000S250-68	50	4278 e	3208 e	2567 e	2139 e	1604 e	1065 e	740 e
1000S162-97	33	12049 e	6785 e	4343 e	3016 e	1696 e	1085 e	754 e
1000S200-97	33	12049 e	7493 e	4795 e	3330 e	1873 e	1198 e	832 e
1000S250-97	33	12049 e	8199 e	5247 e	3644 e	2049 e	1311 e	911 e
1000S162-97	50	12614 e	9460 e	6420 e	4458 e	2507 e	1483 e	858 e
1000S200-97	50	12614 e	9460 e	7115 e	4941 e	2779 e	1690 e	978 e
1000S250-97	50	12614 e	9460 e	7500 e	5208 e	2929 e	1875 e	1104 e
1200S162-54	33	1761 e	1321 e	1056 e	880 e	660 e	528 e	427 e
1200S200-54	33	1761 e	1321 e	1056 e	880 e	660 e	528 e	440 e
1200S250-54	33	1761 e	1321 e	1056 e	880 e	660 e	528 e	440 e
1200S162-54	50	1761 e	1321 e	1056 e	880 e	660 e	528 e	440 e
1200S200-54	50	1761 e	1321 e	1056 e	880 e	660 e	528 e	440 e
1200S250-54	50	1761 e	1321 e	1056 e	880 e	660 e	528 e	440 e
1200S162-68	33	3543 e	2657 e	2126 e	1771 e	1328 e	857 e	595 e
1200S200-68	33	3543 e	2657 e	2126 e	1771 e	1328 e	1063 e	753 e
1200S250-68	33	3543 e	2657 e	2126 e	1771 e	1328 e	1044 e	725 e
1200S162-68	50	3543 e	2657 e	2126 e	1771 e	1328 e	1063 e	818 e
1200S200-68	50	3543 e	2657 e	2126 e	1771 e	1328 e	1063 e	885 e
1200S250-68	50	3543 e	2657 e	2126 e	1771 e	1328 e	1063 e	872 e
1200S162-97	33	10418 e	7814 e	5751 e	3994 e	2246 e	1438 e	998 e
1200S200-97	33	10418 e	7814 e	6251 e	4365 e	2455 e	1571 e	1091 e
1200S250-97	33	10418 e	7814 e	6251 e	4733 e	2662 e	1704 e	1183 e
1200S162-97	50	10418 e	7814 e	6251 e	5209 e	3321 e	2125 e	1364 e
1200S200-97	50	10418 e	7814 e	6251 e	5209 e	3643 e	2331 e	1538 e
1200S250-97	50	10418 e	7814 e	6251 e	5209 e	3815 e	2442 e	1695 e

"e" Web stiffeners required at each support

See page 37 for Header Load Table Notes

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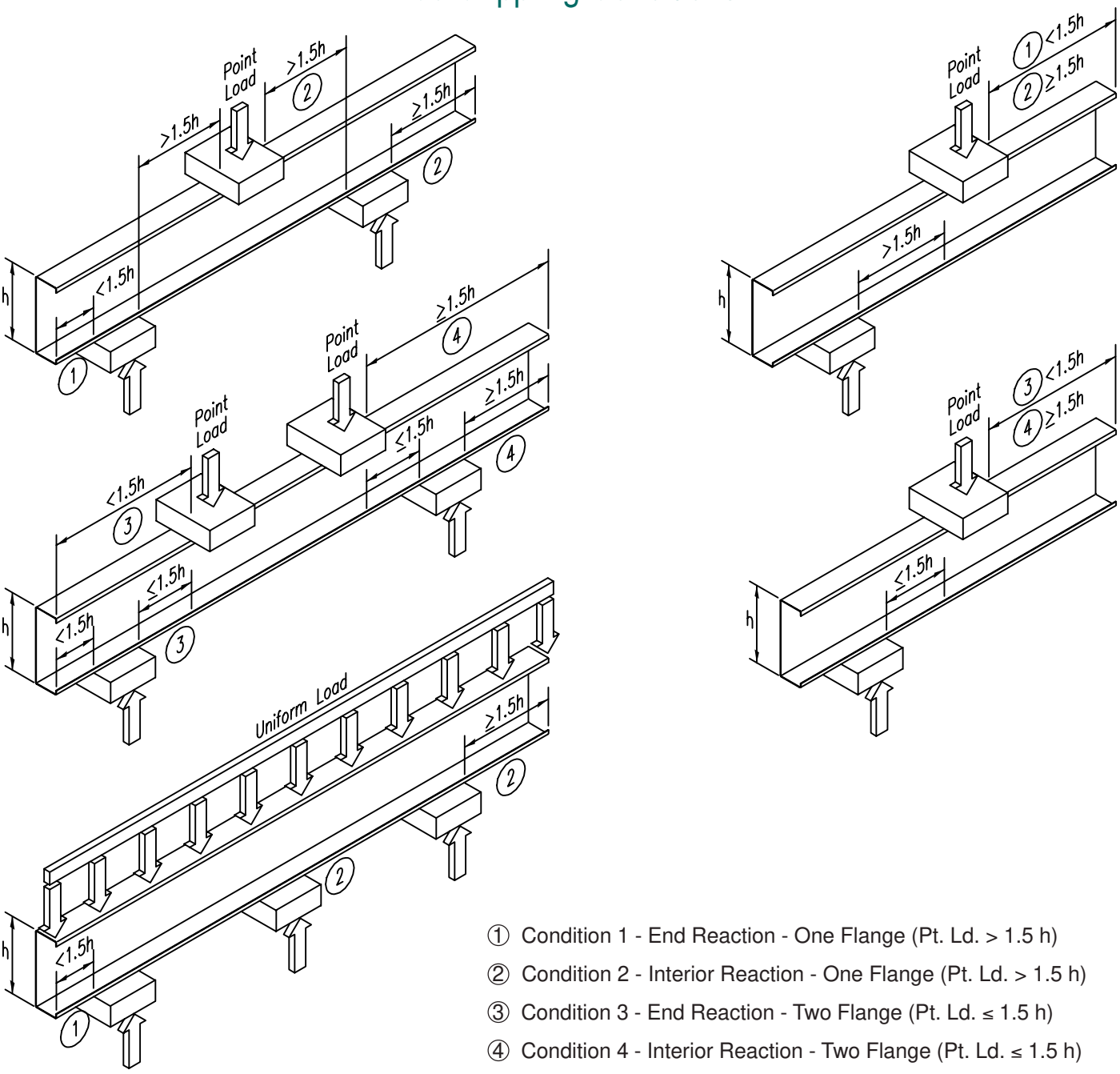
Web Crippling Load Tables

Web Crippling Load Table Notes

1. Only members with stiffened flanges are considered.
2. For multiple members, multiply the listed capacity of a single member by the number of members in the assembly.
3. For back-to-back members table, listed web crippling values are for the total system of two members.
4. For back to back members, the distance between the web connectors and the flange shall be kept to a minimum.
5. Web punchouts were not considered for the web crippling tables. A web crippling reduction factor is to be applied for web punchouts, per ICBO Acceptance Criteria AC46, Appendix B.

Web Crippling Conditions



① Condition 1 - End Reaction - One Flange (Pt. Ld. > 1.5 h)

② Condition 2 - Interior Reaction - One Flange (Pt. Ld. > 1.5 h)

③ Condition 3 - End Reaction - Two Flange (Pt. Ld. ≤ 1.5 h)

④ Condition 4 - Interior Reaction - Two Flange (Pt. Ld. ≤ 1.5 h)

Web Crippling Load Tables

Allowable Web Crippling Loads (lbs) — Single Members

Web Size	Design Thickness (in.)	Thickness in mils	Yield Stress (ksi)	Condition 1 Bearing Length (in.)				Condition 2 Bearing Length (in.)				Condition 3 Bearing Length (in.)				Condition 4 Bearing Length (in.)			
				1	3.5	4	6	1	3.5	4	6	1	3.5	4	6	1	3.5	4	6
162	0.0188	18	33	42	78	85	114	100	204	225	310	29	55	60	80	97	113	116	128
162	0.0283	27	33	128	212	229	296	241	408	446	596	92	152	164	212	266	295	301	324
162	0.0312	30	33	163	262	282	361	296	479	522	692	117	189	203	260	334	367	374	400
162	0.0346	33	33	209	326	350	444	367	568	616	810	151	235	252	320	423	461	469	500
250	0.0188	18	33	38	70	77	103	93	189	209	288	26	48	52	70	80	93	96	106
250	0.0283	27	33	120	199	214	277	230	389	425	569	84	140	151	195	238	264	269	290
250	0.0312	30	33	154	248	266	341	284	460	500	664	109	175	188	241	302	332	338	362
250	0.0346	33	33	199	310	332	421	353	547	594	780	141	220	236	299	387	423	430	458
250	0.0451	43	33	368	536	569	703	614	852	917	1176	264	384	408	504	718	768	778	818
250	0.0566	54	33	579	796	840	1013	961	1223	1306	1638	418	575	606	732	1173	1239	1252	1304
250	0.0566	54	50	728	1001	1056	1274	1291	1643	1754	2201	525	723	762	920	1575	1664	1682	1752
250	0.0713	68	33	906	1185	1241	1464	1510	1847	1915	2304	658	860	900	1062	1908	1994	2011	2079
250	0.0713	68	50	1140	1490	1560	1841	2028	2482	2572	3095	827	1081	1132	1335	2564	2678	2701	2793
350	0.0188	18	33	33	61	67	90	85	173	191	263	21	39	43	58	61	70	72	80
350	0.0283	27	33	111	183	198	256	218	368	402	538	76	125	135	175	205	228	232	250
350	0.0312	30	33	144	231	248	318	270	437	476	631	99	159	171	219	266	293	298	319
350	0.0346	33	33	187	291	312	396	338	523	568	746	130	202	217	275	347	378	384	410
350	0.0451	43	33	352	511	543	671	594	824	887	1138	249	361	384	474	663	710	719	756
350	0.0566	54	33	559	768	810	978	936	1191	1272	1596	399	549	579	698	1104	1166	1179	1228
350	0.0566	54	50	702	966	1019	1230	1258	1601	1709	2144	502	690	727	878	1483	1567	1583	1650
350	0.0713	68	33	881	1152	1207	1424	1479	1810	1876	2257	634	829	868	1025	1822	1904	1920	1985
350	0.0713	68	50	1108	1449	1517	1790	1987	2432	2521	3033	798	1043	1092	1288	2448	2558	2580	2667
362	0.0188	18	33	32	60	66	88	84	171	188	260	21	38	42	56	58	68	69	77
362	0.0283	27	33	110	182	196	253	216	366	399	534	75	124	133	172	201	223	228	245
362	0.0312	30	33	142	229	246	315	268	434	473	627	98	157	169	216	261	288	293	314
362	0.0346	33	33	185	289	310	393	336	520	564	742	128	200	215	272	342	373	379	404
362	0.0451	43	33	350	508	540	667	591	821	883	1133	247	359	381	471	656	702	711	748
362	0.0566	54	33	556	765	806	973	933	1188	1268	1591	396	545	575	694	1096	1157	1169	1219
362	0.0566	54	50	699	962	1014	1224	1253	1595	1704	2137	499	686	723	873	1472	1554	1571	1637
362	0.0713	68	33	878	1148	1202	1419	1476	1805	1871	2252	631	826	865	1020	1811	1893	1909	1974
362	0.0713	68	50	1105	1444	1512	1784	1982	2425	2514	3025	794	1038	1087	1283	2434	2543	2564	2651
400	0.0283	27	33	106	176	190	245	211	358	390	522	72	118	128	165	189	210	214	231
400	0.0312	30	33	138	222	239	306	263	426	464	615	94	151	163	208	248	273	278	297
400	0.0346	33	33	181	282	302	383	330	511	555	729	124	194	208	263	326	356	362	386
400	0.0451	43	33	344	499	531	655	584	810	872	1119	241	350	372	460	636	680	689	725
400	0.0566	54	33	548	754	795	960	924	1176	1256	1575	389	536	565	682	1070	1130	1142	1190
400	0.0566	54	50	690	948	1000	1207	1241	1580	1687	2116	490	673	710	857	1437	1518	1534	1599
400	0.0713	68	33	869	1136	1190	1404	1464	1791	1857	2234	623	814	853	1006	1779	1859	1875	1939
400	0.0713	68	50	1093	1429	1496	1765	1967	2407	2495	3001	783	1024	1072	1265	2390	2497	2519	2604
400	0.1017	97	33	1761	2155	2234	2550	2971	3450	3545	3928	1275	1560	1617	1845	3809	3929	3953	4049
400	0.1017	97	50	2215	2710	2810	3206	3992	4634	4763	5277	1603	1962	2034	2321	5117	5278	5310	5440
550	0.0283	27	33	93	153	165	214	192	326	356	475	59	97	105	135	141	156	159	172
550	0.0312	30	33	123	197	212	271	242	392	427	566	79	128	137	176	194	213	217	232
550	0.0346	33	33	162	254	272	345	307	475	516	678	107	167	179	227	265	289	294	314
550	0.0451	43	33	319	463	492	608	554	769	827	1061	218	316	336	415	554	592	600	631
550	0.0566	54	33	518	712	751	907	887	1129	1205	1512	361	496	523	632	967	1021	1032	1075
550	0.0566	54	50	651	896	945	1140	1191	1516	1619	2031	454	624	658	795	1299	1372	1386	1445
550	0.0713	68	33	832	1088	1139	1343	1419	1736	1799	2165	588	769	805	950	1650	1724	1739	1798
550	0.0713	68	50	1046	1368	1432	1689	1906	2332	2417	2908	739	967	1012	1194	2217	2316	2336	2415
550	0.1017	97	33	1710	2093	2169	2476	2908	3376	3470	3844	1227	1502	1557	1776	3626	3740	3763	3854
550	0.1017	97	50	2151	2632	2728	3113	3907	4536	4661	5165	1543	1888	1958	2234	4871	5024	5055	5178
600	0.0312	30	33	117	188	203	260	235	381	415	550	74	120	129	165	176	193	197	211
600	0.0346	33	33	156	244	262	332	299	463	503	661	102	159	170	216	245	267	272	289
600	0.0451	43	33	310	451	479	592	544	755	812	1042	210	305	324	400	526	563	571	600
600	0.0566	54	33	508	698	736	889	874	1113	1189	1491	351	483	510	615	933	985	995	1037
600	0.0566	54	50	639	878	926	1118	1175	1495	1597	2003	442	608	641	774	1253	1323	1337	1394
600	0.0713	68	33	819	1071	1122	1323	1403	1717	1780	2141	576	754	789	931	1607	1679	1693	1751
600	0.0713	68	50	1031	1347	1411	1664	1885	2307	2391	2877	725	948	992	1171	2159	2256	2275	2352
600	0.1017	97	33	1693	2072	2148	2451	2887	3352	3445	3817	1211	1482	1536	1753	3565	3677	3700	3789
600	0.1017	97	50	2129	2606	2701	3082	3878	4503	4628	5127	1523	1864	1932	2205	4789	4940	4970	5091
800	0.0451	43	33	277	403	428	529	503	699	752	964	179	260	276	341	417	446	452	475
800	0.0566	54	33	467	642	678	818	825	1050	1121	1407	313	431	455	549	795	840	849	885
800	0.0566	54	50	587	808	852	1028	1108	1411	1507	1890	394	542	572	690	1069	1129	1140	1188
800	0.0713	68	33	770	1007	1054	1243	1343	1643	1703	2049	530	693	726	856	1435	1499	1512	1564
800	0.0713	68	50	968	1266	1325	1564	1804	2207	2288	2752	667	872	913	1077	1928	2014	2031	2101
800	0.1017	97	33	1625	1989	2061	2352	2803	3254	3344	3705	1147	1404	1456	1661	3320	3425	3446	3530
800	0.1017	97	50	2043	2501	2592	2958	3765	4371	4492	4977	1443	1766	1831	2089	4461	4601	4630	4742
1000	0.0566	54	33	427	587	619	747	776	987	1054	1323	275	379	400	482	658	695	702	732
1000	0.0566	54	50	536	738	778	939	1042	1326	1416	1777	346	476	502	606	884	934	944	983
1000	0.0713	68	33	720	942	986	1163	1282	1568	1626	1956	484	633	662	781	1263	1320	1331	1376
1000	0.0713	68	50	906	1184	1240	1463	1722	2107	2184	2628	608	795	833	983	1697	1773	1788	1849
1000	0.1017	97	33	1557	1905	1975	2254	2718	3156	3243	3593	1084	1326	1375	1569	3076	3173	3193	3270
1000	0.1017	97	50	1958	2396	2484	2834	3652	4240	4357	4828	1363	1668	1729	1973	4133	4263	4289	4394
1200	0.0713	68	33	671	877	918	1083	1221	1494	1549	1863	437	572	599	706	1091	1140	1150	1189
1200	0.0713	68	50	843	1103	1155	1362	1641	2007	2081	2503	550	719	753	888	1466	1531	1544	1597
1200	0.1017	97	33	1489	1822	1888	2155	2634	3058	3143	3482	1020	1248	1294	1477	2832	2922	2939	3011
1200	0.1017	97	50	1872	2291	2375	2710	3538	4108	4222	4678	1283	1570	1627	1857	3805	3925	3949	4045

See page 39 for Web Crippling Table Notes.

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Web Crippling Load Tables

Allowable Web Crippling Loads (lbs) — Back-to-Back Members

Web Size	Design Thickness (in.)	Thickness in mils	Yield Stress (ksi)	Condition 1 Bearing Length (in.) 1	3.5	4	6	Condition 2 Bearing Length (in.) 1	3.5	4	6	Condition 3 Bearing Length (in.) 1	3.5	4	6	Condition 4 Bearing Length (in.) 1	3.5	4	6
162	0.0188	18	33	246	348	362	416	394	604	636	744	142	202	210	242	382	586	616	720
162	0.0283	27	33	492	674	700	794	806	1200	1260	1464	322	442	458	520	796	1184	1242	1444
162	0.0312	30	33	582	792	822	930	958	1418	1486	1722	392	532	554	626	946	1400	1468	1702
162	0.0346	33	33	696	940	976	1102	1152	1692	1772	2050	482	652	676	764	1140	1676	1754	2030
250	0.0188	18	33	260	366	382	438	394	604	636	744	134	190	198	228	354	544	572	670
250	0.0283	27	33	510	700	728	826	806	1200	1260	1464	310	424	440	500	778	1160	1216	1412
250	0.0312	30	33	602	820	852	964	958	1418	1486	1722	378	514	534	604	938	1386	1454	1686
250	0.0346	33	33	718	970	1008	1138	1152	1692	1772	2050	468	632	656	740	1140	1676	1754	2030
250	0.0451	43	33	1138	1504	1560	1748	1860	2676	2798	3220	812	1074	1114	1248	1852	2666	2786	3206
250	0.0566	54	33	1696	2206	2282	2544	2824	3994	4168	4774	1318	1712	1770	1974	2828	4000	4174	4780
250	0.0566	54	50	2570	3342	3456	3854	3060	4332	4520	5176	1318	1712	1770	1974	2828	4000	4174	4780
250	0.0713	68	33	2562	3272	3378	3746	4350	6046	6298	7174	2176	2780	2870	3182	4388	6100	6352	7236
250	0.0713	68	50	3882	4960	5118	5676	4716	6556	6828	7778	2176	2780	2870	3182	4388	6100	6352	7236
350	0.0188	18	33	268	378	396	452	394	604	636	744	124	176	184	210	324	496	522	612
350	0.0283	27	33	532	730	758	860	806	1200	1260	1464	294	404	420	478	736	1096	1150	1336
350	0.0312	30	33	626	852	884	1002	958	1418	1486	1722	362	492	512	580	892	1320	1382	1604
350	0.0346	33	33	744	1004	1044	1178	1152	1692	1772	2050	450	608	632	712	1092	1604	1680	1944
350	0.0451	43	33	1170	1546	1602	1798	1860	2676	2798	3220	790	1044	1082	1214	1834	2642	2762	3178
350	0.0566	54	33	1734	2256	2332	2600	2824	3994	4168	4774	1288	1674	1732	1932	2828	4000	4174	4780
350	0.0566	54	50	2628	3416	3534	3940	3060	4332	4520	5176	1288	1674	1732	1932	2828	4000	4174	4780
350	0.0713	68	33	2608	3332	3440	3814	4350	6046	6298	7174	2138	2732	2820	3128	4388	6100	6352	7236
350	0.0713	68	50	3952	5048	5210	5778	4716	6556	6828	7778	2138	2732	2820	3128	4388	6100	6352	7236
362	0.0188	18	33	268	378	396	452	394	604	636	744	124	174	182	208	320	490	516	604
362	0.0283	27	33	534	734	762	866	806	1200	1260	1464	294	402	418	474	730	1088	1142	1326
362	0.0312	30	33	628	856	888	1006	958	1418	1486	1722	360	490	510	576	886	1310	1374	1594
362	0.0346	33	33	748	1008	1048	1182	1152	1692	1772	2050	448	604	628	710	1086	1594	1670	1934
362	0.0451	43	33	1174	1552	1608	1804	1860	2676	2798	3220	786	1040	1078	1210	1826	2630	2750	3164
362	0.0566	54	33	1740	2262	2338	2608	2824	3994	4168	4774	1284	1670	1728	1926	2828	4000	4174	4780
362	0.0566	54	50	2636	3426	3544	3952	3060	4332	4520	5176	1284	1670	1728	1926	2828	4000	4174	4780
362	0.0713	68	33	2614	3340	3446	3822	4350	6046	6298	7174	2134	2726	2814	3120	4388	6100	6352	7236
362	0.0713	68	50	3960	5060	5222	5790	4716	6556	6828	7778	2134	2726	2814	3120	4388	6100	6352	7236
400	0.0283	27	33	542	744	774	878	806	1200	1260	1464	288	394	410	466	714	1066	1118	1298
400	0.0312	30	33	638	868	902	1020	958	1418	1486	1722	354	482	502	568	868	1286	1348	1562
400	0.0346	33	33	756	1022	1060	1198	1152	1692	1772	2050	442	596	620	698	1068	1568	1642	1900
400	0.0451	43	33	1186	1568	1624	1822	1860	2676	2798	3220	778	1030	1066	1196	1804	2598	2714	3124
400	0.0566	54	33	1754	2280	2358	2630	2824	3994	4168	4774	1274	1656	1712	1910	2828	4000	4174	4780
400	0.0566	54	50	2658	3454	3572	3984	3060	4332	4520	5176	1274	1656	1712	1910	2828	4000	4174	4780
400	0.0713	68	33	2630	3362	3470	3846	4350	6046	6298	7174	2120	2708	2796	3100	4388	6100	6352	7236
400	0.0713	68	50	3986	5092	5258	5828	4716	6556	6828	7778	2120	2708	2796	3100	4388	6100	6352	7236
400	0.1017	97	33	4968	6186	6368	6996	8606	11638	12088	13654	4736	5898	6070	6670	8798	11898	12358	13958
400	0.1017	97	50	7528	9374	9648	10600	9332	12618	13106	14802	4736	5898	6070	6670	8798	11898	12358	13958
550	0.0283	27	33	552	758	788	894	806	1200	1260	1464	266	366	380	432	652	970	1018	1182
550	0.0312	30	33	658	896	932	1054	958	1418	1486	1722	330	450	468	530	800	1184	1242	1440
550	0.0346	33	33	792	1070	1112	1254	1152	1692	1772	2050	416	562	582	658	994	1458	1528	1768
550	0.0451	43	33	1232	1630	1688	1894	1860	2676	2798	3220	744	984	1020	1144	1712	2464	2576	2964
550	0.0566	54	33	1810	2354	2434	2714	2824	3994	4168	4774	1230	1600	1654	1846	2718	3846	4014	4596
550	0.0566	54	50	2744	3566	3688	4114	3060	4332	4520	5176	1230	1600	1654	1846	2718	3846	4014	4596
550	0.0713	68	33	2700	3450	3560	3948	4350	6046	6298	7174	2064	2638	2722	3018	4350	6048	6300	7174
550	0.0713	68	50	4090	5226	5396	5982	4716	6556	6828	7778	2064	2638	2722	3018	4350	6048	6300	7174
550	0.1017	97	33	5062	6304	6488	7128	8606	11638	12088	13654	4650	5792	5960	6550	8798	11898	12358	13958
550	0.1017	97	50	7670	9550	9830	10800	9332	12618	13106	14802	4650	5792	5960	6550	8798	11898	12358	13958
600	0.0312	30	33	658	896	932	1054	958	1418	1486	1722	324	440	456	518	778	1150	1206	1398
600	0.0346	33	33	792	1070	1112	1254	1152	1692	1772	2050	406	550	570	644	968	1422	1490	1724
600	0.0451	43	33	1248	1650	1710	1918	1860	2676	2798	3220	734	970	1004	1128	1680	2420	2530	2910
600	0.0566	54	33	1830	2378	2460	2744	2824	3994	4168	4774	1216	1582	1636	1824	2680	3794	3958	4532
600	0.0566	54	50	2772	3604	3728	4156	3060	4332	4520	5176	1216	1582	1636	1824	2680	3794	3958	4532
600	0.0713	68	33	2722	3478	3592	3982	4350	6046	6298	7174	2046	2614	2698	2990	4304	5984	6232	7098
600	0.0713	68	50	4126	5272	5442	6032	4716	6556	6828	7778	2046	2614	2698	2990	4304	5984	6232	7098
600	0.1017	97	33	5094	6342	6528	7172	8606	11638	12088	13654	4622	5756	5924	6508	8798	11898	12358	13958
600	0.1017	97	50	7716	9610	9890	10866	9332	12618	13106	14802	4622	5756	5924	6508	8798	11898	12358	13958
800	0.0451	43	33	1280	1692	1754	1966	1860	2676	2798	3220	688	910	944	1058	1556	2242	2344	2696
800	0.0566	54	33	1906	2478	2562	2858	2824	3994	4168	4774	1158	1506	1558	1738	2530	3580	3736	4278
800	0.0566	54	50	2888	3754	3882	4330	3060	4332	4520	5176	1158	1506	1558	1738	2530	3580	3736	4278
800	0.0713	68	33	2816	3596	3712	4116	4350	6046	6298	7174	1970	2518	2600	2882	4118	5726	5964	6794
800	0.0713	68	50	4266	5450	5626	6236	4716	6556	6828	7778	1970	2518	2600	2882	4118	5726	5964	6794
800	0.1017	97	33	5218	6498	6686	7348	8606	11638	12088	13654	4508	5614	5778	6348	8704	11770	12226	13808
800	0.1017	97	50	7906	9844	10132	11132	9332	12618	13106	14802	4508	5614	5778	6348	8704	11770	12226	13808
1000	0.0566	54	33	1936	2516	2602	2902	2824	3994	4168	4774	1102	1432	1480	1652	2380	3368	3514	4024
1000	0.0566	54	50	2932	3812	3942	4396	3060	4332	4520	5176	1102	1432	1480	1652	2380	3368	3514	4024
1000	0.0713	68	33	2908	3714	3834	4250	4350	6046	6298	7174	1896	2422	2500	2772	3934	5468	5696	6488
1000	0.0713	68	50	4404	5628	5810	6440	4716	6556	6828	7778	1896	2422	2500	2772	3934	5468	5696	6488
1000	0.1017	97	33	5342	6652	6846	7522	8606	11638	12088	13654	4394	5470	5630	6186	8444	11418	11860	13396
1000	0.1017	97	50	8094	10080	10374	11398	9332	12618	13106	14802	4394	5470	5630	6186	8444	11418	11860	13396
1200	0.0713	68	33	2956	3776	3898	4322	4350	6046	6298	7174	1822	2328	2402	2664	3748	5212	5428	6182
1200	0.0713	68	50	4478	5722	5906	6548	4716	6556	6828	7778	1822	2328	2402	2664	3748	5212	5428	6182
1200	0.1017	97	33	5466	6808	7006	7698	8606	11638	12088	13654	4278	5328	5484	6026	8184	11066	11494	12982
1200	0.1017	97	50	8282	10314	10616	11664	9332	12618	13106	14802	4278	5328	5484	6026	8184	11066	11494	12982

See page 39 for Web Crippling Table Notes.

Ceiling Span Table

Ceiling Span Table Notes

1. Values are for single spans.
2. Allowable ceiling span calculations based on 33ksi yield strength steel.
3. For fully braced ceilings, use mid-span braced values.
4. End bearing length = 1” minimum.

Allowable Ceiling Spans — Deflection Limit L/240

		4 psf						6 psf						13 psf					
		Lateral Support of Compression Flange						Lateral Support of Compression Flange						Lateral Support of Compression Flange					
		Unsupported			Midspan			Unsupported			Midspan			Unsupported			Midspan		
	Thickness	Joist Spacing (in) o.c.			Joist Spacing (in) o.c.			Joist Spacing (in) o.c.			Joist Spacing (in) o.c.			Joist Spacing (in) o.c.			Joist Spacing (in) o.c.		
Section	(mil)	12	16	24	12	16	24	12	16	24	12	16	24	12	16	24	12	16	24
162S125	18	7' 2"	6' 6"	5' 11"	8' 2"	7' 5"	6' 6"	6' 5"	5' 11"	5' 2"	7' 2"	6' 6"	5' 8"	5' 0"	4' 6"	3' 10"e	5' 6"	5' 0"e	4' 1"e
	27	8' 7"	7' 11"	7' 1"	9' 7"	8' 9"	7' 7"	7' 8"	7' 1"	6' 2"	8' 5"	7' 7"	6' 8"	6' 0"	6' 5"	4' 8"	6' 6"	5' 11"	5' 1"
	30	9' 0"	8' 3"	7' 4"	9' 11"	9' 0"	7' 10"	8' 0"	7' 4"	6' 6"	8' 8"	7' 10"	6' 10"	6' 4"	5' 9"	4' 11"	6' 8"	6' 1"	5' 3"
	33	9' 6"	8' 8"	7' 8"	10' 3"	9' 4"	8' 1"	8' 4"	7' 8"	6' 10"	8' 11"	8' 1"	7' 1"	6' 8"	6' 1"	5' 3"	6' 11"	6' 3"	5' 6"
162S137	27	9' 11"	9' 2"	8' 0"	10' 1"	9' 2"	8' 0"	8' 10"	8' 0"	7' 0"	8' 10"	8' 0"	7' 0"	6' 9"	6' 2"	5' 5"	6' 9"	6' 2"	5' 5"
	33	10' 9"	9' 9"	8' 6"	10' 9"	9' 9"	8' 6"	9' 4"	8' 6"	7' 5"	9' 4"	8' 6"	7' 5"	7' 3"	6' 7"	5' 9"	7' 3"	6' 7"	5' 9"
250S125	18	8' 4"	7' 8"	6' 9"	11' 4"	10' 3"	9' 0"	7' 4"	6' 9"	6' 1"	9' 10"	9' 0"	7' 8"e	5' 11"e	5' 6"e	4' 9"e	7' 5"e	6' 6"e	5' 5"e
	27	9' 8"	8' 11"	7' 11"	13' 3"	12' 1"	10' 6"	8' 7"	7' 11"	7' 1"	11' 7"	10' 6"	9' 2"	6' 11"	6' 5"	5' 8"	8' 11"	7' 11"	6' 8"
	30	10' 0"	9' 3"	8' 3"	13' 9"	12' 5"	10' 11"	8' 11"	8' 3"	7' 4"	12' 0"	10' 11"	9' 6"	7' 2"	6' 8"	5' 11"	9' 3"	8' 4"	7' 0"
	33	10' 5"	9' 7"	8' 7"	14' 2"	12' 10"	11' 3"	9' 3"	8' 7"	7' 7"	12' 5"	11' 3"	9' 10"	7' 5"	6' 10"	6' 2"	9' 7"	8' 8"	7' 6"
	43	11' 9"	10' 9"	9' 6"	15' 5"	14' 0"	12' 3"	10' 5"	9' 6"	8' 5"	13' 6"	12' 3"	10' 8"	8' 3"	7' 7"	6' 9"	10' 5"	9' 5"	8' 3"
250S137	27	10' 11"	10' 1"	9' 1"	14' 0"	12' 8"	11' 1"	9' 10"	9' 1"	8' 2"	12' 2"	11' 1"	9' 8"	8' 0"	7' 5"	6' 7"	9' 5"	8' 7"	7' 6"
	33	11' 9"	10' 10"	9' 8"	14' 11"	13' 6"	11' 10"	10' 6"	9' 8"	8' 8"	13' 0"	11' 10"	10' 4"	8' 6"	7' 10"	7' 0"	10' 0"	9' 1"	8' 0"
	43	13' 2"	12' 1"	10' 9"	16' 2"	14' 8"	12' 10"	11' 8"	10' 9"	9' 7"	14' 2"	12' 10"	11' 2"	9' 4"	8' 7"	7' 8"	10' 11"	9' 11"	8' 8"
250S162	33	13' 5"	12' 5"	11' 1"	15' 8"	14' 2"	12' 5"	12' 0"	11' 1"	9' 11"	13' 8"	12' 5"	10' 10"	9' 9"	9' 0"	8' 0"	10' 7"	9' 7"	8' 4"
	43	14' 11"	13' 9"	12' 3"	17' 0"	15' 5"	13' 6"	13' 3"	12' 3"	10' 11"	14' 10"	13' 6"	11' 9"	10' 8"	9' 10"	8' 9"	11' 6"	10' 5"	9' 1"
350S125	18	9' 4"	8' 8"	7' 8"	13' 1"	12' 1"	10' 0"e	8' 4"	7' 8"	6' 10"e	11' 8"e	10' 8"e	9' 2"e	6' 8"e	6' 2"e	5' 6"e	8' 10"e	7' 10"e	6' 6"e
	27	10' 7"	9' 9"	8' 9"	15' 1"	14' 0"	12' 5"	9' 6"	8' 9"	7' 10"	13' 6"	12' 5"	10' 11"	7' 8"	7' 1"	6' 5"	10' 7"	9' 6"	8' 1"
	30	10' 11"	10' 1"	9' 0"	15' 6"	14' 4"	12' 11"	9' 9"	9' 0"	8' 1"	13' 11"	12' 11"	11' 5"	7' 11"	7' 4"	6' 7"	11' 1"	10' 0"	8' 6"
	33	11' 4"	10' 6"	9' 4"	16' 1"	14' 10"	13' 4"	10' 1"	9' 4"	8' 5"	14' 5"	13' 4"	11' 11"	8' 2"	7' 7"	6' 9"	11' 8"	10' 7"	9' 0"
	43	12' 7"	11' 7"	10' 4"	17' 8"	16' 3"	14' 6"	11' 2"	10' 4"	9' 2"	15' 9"	14' 6"	13' 0"	9' 0"	8' 3"	7' 5"	12' 8"	11' 8"	10' 2"
350S137	27	11' 11"	11' 1"	9' 11"	17' 3"	16' 0"	14' 4"	10' 9"	9' 11"	8' 11"	15' 6"	14' 4"	12' 6"	8' 9"	8' 2"	7' 4"	12' 2"	11' 0"	9' 4"e
	33	12' 9"	11' 10"	10' 7"	18' 3"	16' 11"	15' 2"	11' 5"	10' 7"	9' 6"	16' 5"	15' 2"	13' 4"	9' 4"	8' 7"	7' 9"	13' 0"	11' 10"	10' 3"
	43	14' 2"	13' 0"	11' 7"	19' 11"	18' 5"	16' 6"	12' 7"	11' 7"	10' 4"	17' 10"	16' 6"	14' 6"	10' 2"	9' 4"	8' 5"	14' 2"	12' 10"	11' 3"
350S162	33	14' 7"	13' 6"	12' 1"	20' 3"	18' 5"	16' 1"	13' 0"	12' 1"	10' 10"	17' 8"	16' 1"	14' 0"	10' 7"	9' 10"	8' 10"	13' 8"	12' 5"	10' 10"
	43	16' 0"	14' 9"	13' 2"	22' 0"	20' 0"	17' 6"	14' 4"	13' 2"	11' 10"	19' 3"	17' 6"	15' 3"	11' 7"	10' 8"	9' 7"	14' 10"	13' 6"	11' 9"
362S125	18	9' 5"	8' 9"	7' 9"	13' 3"	12' 3"e	10' 10"e	8' 6"	7' 9"	6' 11"e	11' 10"e	10' 10"e	9' 3"e	6' 9"e	6' 2"e	5' 7"e	9' 0"e	7' 11"e	6' 7"e
	27	10' 8"	9' 11"	8' 10"	15' 3"	14' 2"	12' 7"	9' 7"	8' 10"	7' 11"	13' 8"	12' 7"	11' 1"	7' 9"	7' 2"	6' 6"	10' 9"	9' 8"	8' 3"
	30	11' 0"	10' 2"	9' 2"	15' 8"	14' 6"	13' 1"	9' 10"	9' 2"	8' 2"	14' 1"	13' 1"	11' 7"	8' 0"	7' 5"	6' 8"	11' 3"	10' 2"	8' 9"
	33	11' 5"	10' 7"	9' 5"	16' 3"	15' 0"	13' 6"	10' 3"	9' 5"	8' 6"	14' 6"	13' 6"	12' 1"	8' 3"	7' 8"	6' 10"	11' 9"	10' 9"	9' 2"
	43	12' 9"	11' 8"	10' 5"	17' 9"	16' 5"	14' 8"	11' 4"	10' 5"	9' 3"	15' 11"	14' 8"	13' 1"	9' 1"	8' 4"	7' 6"	12' 10"	11' 9"	10' 4"
362S137	27	12' 1"	11' 2"	10' 1"	17' 5"	16' 2"	14' 6"	10' 10"	10' 1"	9' 1"	15' 8"	14' 6"	12' 10"	8' 10"	8' 3"	7' 5"	12' 6"	11' 2"	9' 6"e
	33	12' 11"	11' 11"	10' 8"	18' 5"	17' 1"	15' 4"	11' 7"	10' 8"	9' 7"	16' 7"	15' 4"	13' 8"	9' 5"	8' 8"	7' 10"	13' 4"	12' 2"	10' 6"
	43	14' 3"	13' 2"	11' 9"	20' 1"	18' 7"	16' 7"	12' 8"	11' 9"	10' 5"	18' 0"	16' 7"	14' 10"	10' 3"	9' 5"	8' 5"	14' 6"	13' 3"	11' 6"
362S162	33	14' 8"	13' 7"	12' 2"	20' 9"	18' 11"	16' 6"	13' 2"	12' 2"	10' 11"	18' 2"	16' 6"	14' 5"	10' 9"	9' 11"	8' 11"	14' 0"	12' 9"	11' 1"
	43	16' 2"	14' 11"	13' 4"	22' 7"	20' 7"	17' 11"	14' 5"	13' 4"	11' 11"	19' 9"	17' 11"	15' 8"	11' 8"	10' 9"	9' 8"	15' 3"	13' 10"	12' 1"
400S125	27	11' 0"	10' 2"	9' 1"	15' 9"	14' 7"	13' 1"	9' 10"	9' 1"	8' 2"	14' 2"	13' 1"	11' 7"	8' 0"	7' 5"	6' 8"	11' 3"	10' 2"	8' 9"e
	30	11' 4"	10' 6"	9' 5"	16' 2"	15' 0"	13' 5"	10' 2"	9' 5"	8' 5"	14' 6"	13' 5"	12' 0"	8' 3"	7' 8"	6' 10"	11' 9"	10' 8"	9' 2"
	33	11' 9"	10' 10"	9' 8"	16' 9"	15' 6"	13' 10"	10' 6"	9' 9"	8' 8"	15' 0"	13' 10"	12' 5"	8' 6"	7' 11"	7' 1"	12' 2"	11' 2"	9' 8"
	43	13' 0"	12' 0"	10' 8"	18' 3"	16' 10"	15' 1"	11' 7"	10' 8"	9' 6"	16' 4"	15' 1"	13' 6"	9' 4"	8' 7"	7' 8"	13' 3"	12' 2"	10' 9"
400S137	27	12' 5"	11' 6"	10' 4"	17' 11"	16' 7"	15' 0"	11' 2"	10' 4"	9' 4"	16' 2"	15' 0"	13' 4"	9' 1"	8' 5"	7' 7"	13' 0"	11' 9"	10' 0"e
	33	13' 3"	12' 3"	11' 0"	18' 11"	17' 7"	15' 10"	11' 10"	11' 0"	9' 10"	17' 0"	15' 10"	14' 2"	9' 8"	8' 11"	8' 1"	13' 10"	12' 8"	11' 0"
	43	14' 7"	13' 6"	12' 0"	20' 7"	19' 1"	17' 1"	13' 0"	12' 0"	10' 9"	18' 5"	17' 1"	15' 4"	10' 6"	9' 8"	8' 8"	15' 0"	13' 9"	12' 1"
400S162	33	15' 1"	13' 11"	12' 6"	21' 8"	20' 1"	17' 10"	13' 6"	12' 6"	11' 3"	19' 6"	17' 10"	15' 6"	11' 0"	10' 3"	9' 2"	15' 2"	13' 9"	12' 0"
	43	16' 7"	15' 3"	13' 8"	23' 5"	21' 8"	19' 4"	14' 9"	13' 8"	12' 2"	21' 0"	19' 4"	16' 11"	11' 11"	11' 1"	9' 11"	16' 6"	14' 11"	13' 1"
600S125	27	12' 4"e	11' 5"e	10' 4"e	17' 10"e	16' 7"e	14' 11"e	11' 1"e	10' 4"e	9' 3"e	16' 1"e	14' 11"e	13' 5"e	9' 1"e	8' 5"e	7' 7"e	13' 2"e	12' 2"e	10' 9"e
	30	12' 9"	11' 9"	10' 7"	18' 4"	17' 0"	15' 4"	11' 5"	10' 7"	9' 6"	16' 6"	15' 4"	13' 9"	9' 4"	8' 8"	7' 10"	13' 6"	12' 6"	11' 2"e
	33	13' 2"	12' 2"	10' 11"	18' 10"	17' 6"	15' 9"	11' 9"	10' 11"	9' 10"	17' 0"	15' 9"	14' 2"	9' 7"	8' 11"	8' 0"	13' 10"	12' 10"	11' 7"
	43	14' 5"	13' 3"	11' 10"	20' 5"	18' 11"	16' 11"	12' 10"	11' 10"	10' 7"	18' 4"	16' 11"	15' 3"	10' 5"	9' 7"	8' 7"	14' 11"	13' 10"	12' 5"
600S137	33	14' 10"	13' 9"	12' 4"	21' 4"	19' 10"	17' 10"	13' 4"	12' 4"	11' 1"	19' 2"	17' 10"	16' 1"	10' 10"	10' 1"	9' 1"	15' 9"	14' 7"	13' 1"e
	43	16' 2"	14' 11"	13' 4"	23' 0"	21' 4"	19' 2"	14' 6"	13' 4"	12' 0"	20' 8"	19' 2"	17' 3"	11' 9"	10' 10"	9' 9"	16' 10"	15' 8"	14' 1"
600S162	33	16' 10"	15' 7"	14' 0"	24' 4"	22' 7"	20' 4"	15' 2"	14' 0"	12' 8"	21' 11"	20' 4"	18' 4"	12' 5"	11' 6"	10' 4"	18' 0"	16' 8"	14' 8"e
	43	18' 4"	16' 11"	15' 2"	26' 3"	24' 4"	21' 10"	16' 5"	15' 2"	13' 8"	23' 7"	21' 10"	19' 8"	13' 4"	12' 4"	11' 1"	19' 3"	17' 11"	15' 11"

“e” Web stiffeners required at supports.

SSMA

Ceiling Span Table

Allowable Ceiling Spans — Deflection Limit L/360

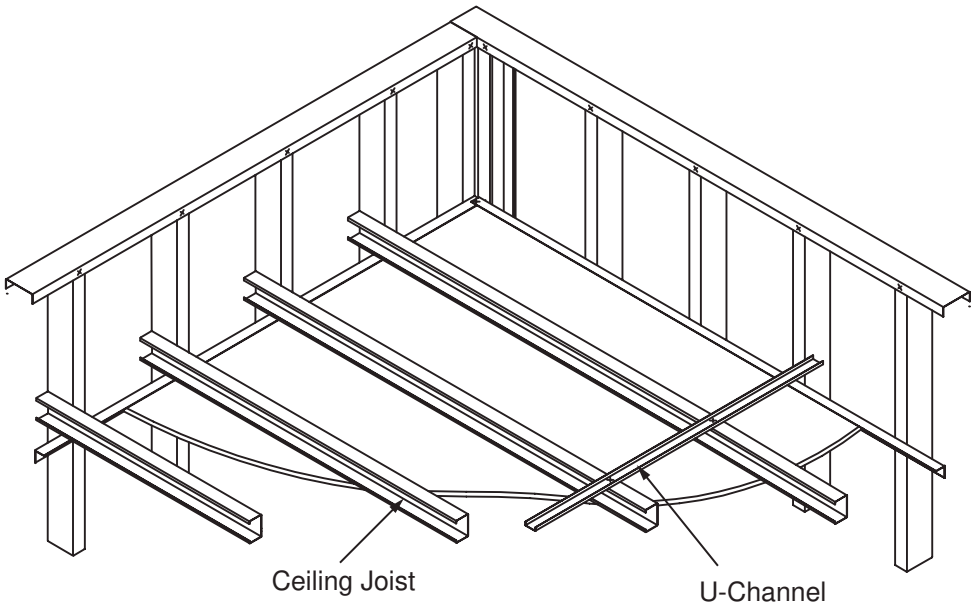
Section	Thickness (mil)	4 psf Lateral Support of Compression Flange Unsupported Joist Spacing (in) o.c. 12	16	24	4 psf Lateral Support of Compression Flange Midspan Joist Spacing (in) o.c. 12	16	24	6 psf Lateral Support of Compression Flange Unsupported Joist Spacing (in) o.c. 12	16	24	6 psf Lateral Support of Compression Flange Midspan Joist Spacing (in) o.c. 12	16	24	13 psf Lateral Support of Compression Flange Unsupported Joist Spacing (in) o.c. 12	16	24	13 psf Lateral Support of Compression Flange Midspan Joist Spacing (in) o.c. 12	16	24
162S125	18	7' 2"	6' 6"	5' 8"	7' 2"	6' 6"	5' 8"	6' 3"	5' 8"	4' 11"	6' 3"	5' 8"	4' 11"	4' 10"	4' 4"	3' 10"e	4' 10"	4' 4"	3' 10"e
	27	8' 5"	7' 7"	6' 8"	8' 5"	7' 7"	6' 8"	7' 4"	6' 8"	5' 10"	7' 4"	6' 8"	5' 10"	5' 8"	5' 2"	4' 6"	5' 8"	5' 2"	4' 6"
	30	8' 8"	7' 10"	6' 10"	8' 8"	7' 10"	6' 10"	7' 7"	6' 10"	6' 0"	7' 7"	6' 10"	6' 0"	5' 10"	5' 3"	4' 7"	5' 10"	5' 3"	4' 7"
	33	8' 11"	8' 1"	7' 1"	8' 11"	8' 1"	7' 1"	7' 10"	7' 1"	6' 2"	7' 10"	7' 1"	6' 2"	6' 0"	5' 6"	4' 9"	6' 0"	5' 6"	4' 9"
162S137	27	8' 10"	8' 0"	7' 0"	8' 10"	8' 0"	7' 0"	7' 8"	7' 0"	6' 1"	7' 8"	7' 0"	6' 1"	5' 11"	5' 5"	4' 8"	5' 11"	5' 5"	4' 8"
	33	9' 4"	8' 6"	7' 5"	9' 4"	8' 6"	7' 5"	8' 2"	7' 5"	6' 6"	8' 2"	7' 5"	6' 6"	6' 4"	5' 9"	5' 0"	6' 4"	5' 9"	5' 0"
250S125	18	8' 4"	7' 8"	6' 9"	9' 10"	9' 0"	7' 10"	7' 4"	6' 9"	6' 1"	8' 7"	7' 10"	6' 10"e	5' 11"e	5' 6"e	4' 9"e	6' 8"e	6' 0"e	5' 3"e
	27	9' 8"	8' 11"	7' 11"	11' 7"	10' 6"	9' 2"	8' 7"	7' 11"	7' 1"	10' 1"	9' 2"	8' 0"	6' 11"	6' 5"	5' 8"	7' 10"	7' 1"	6' 2"
	30	10' 0"	9' 3"	8' 3"	12' 0"	10' 11"	9' 6"	8' 11"	8' 3"	7' 4"	10' 5"	9' 6"	8' 3"	7' 2"	6' 8"	5' 11"	8' 1"	7' 4"	6' 5"
	33	10' 5"	9' 7"	8' 7"	12' 5"	11' 3"	9' 10"	9' 3"	8' 7"	7' 7"	10' 10"	9' 10"	8' 7"	7' 5"	6' 10"	6' 2"	8' 4"	7' 7"	6' 7"
	43	11' 9"	10' 9"	9' 6"	13' 6"	12' 3"	10' 8"	10' 5"	9' 6"	8' 5"	11' 9"	10' 8"	9' 4"	8' 3"	7' 7"	6' 9"	9' 1"	8' 3"	7' 2"
250S137	27	10' 11"	10' 1"	9' 1"	12' 2"	11' 1"	9' 8"	9' 10"	9' 1"	8' 2"	10' 8"	9' 8"	8' 5"	8' 0"	7' 5"	6' 6"	8' 3"	7' 6"	6' 6"
	33	11' 9"	10' 10"	9' 8"	13' 0"	11' 10"	10' 4"	10' 6"	9' 8"	8' 8"	11' 4"	10' 4"	9' 0"	8' 6"	7' 10"	6' 11"	8' 9"	8' 0"	6' 11"
	43	13' 2"	12' 1"	10' 9"	14' 2"	12' 10"	11' 2"	11' 8"	10' 9"	9' 7"	12' 4"	11' 2"	9' 9"	9' 4"	8' 7"	7' 7"	9' 6"	8' 8"	7' 7"
250S162	33	13' 5"	12' 5"	10' 10"	13' 8"	12' 5"	10' 10"	11' 11"	10' 10"	9' 5"	11' 11"	10' 10"	9' 5"	9' 2"	8' 4"	7' 4"	9' 2"	8' 4"	7' 4"
	43	14' 10"	13' 6"	11' 9"	14' 10"	13' 6"	11' 9"	13' 0"	11' 9"	10' 3"	13' 0"	11' 9"	10' 3"	10' 0"	9' 1"	7' 11"	10' 0"	9' 1"	7' 11"
350S125	18	9' 4"	8' 8"	7' 8"	12' 11"	11' 8"	10' 3"e	8' 4"	7' 8"	6' 10"e	11' 3"e	10' 3"e	8' 11"e	6' 8"e	6' 2"e	5' 6"e	8' 8"e	7' 10"e	6' 6"e
	27	10' 7"	9' 9"	8' 9"	15' 0"	13' 8"	11' 11"	9' 6"	8' 9"	7' 10"	13' 1"	11' 11"	10' 5"	7' 8"	7' 1"	6' 5"	10' 1"	9' 2"	8' 0"
	30	10' 11"	10' 1"	9' 0"	15' 6"	14' 1"	12' 4"	9' 9"	9' 0"	8' 1"	13' 7"	12' 4"	10' 9"	7' 11"	7' 4"	6' 7"	10' 6"	9' 6"	8' 4"
	33	11' 4"	10' 6"	9' 4"	16' 1"	14' 7"	12' 9"	10' 1"	9' 4"	8' 5"	14' 0"	12' 9"	11' 1"	8' 2"	7' 7"	6' 9"	10' 10"	9' 10"	8' 7"
	43	12' 7"	11' 7"	10' 4"	17' 6"	15' 11"	13' 10"	11' 2"	10' 4"	9' 2"	15' 3"	13' 10"	12' 1"	9' 0"	8' 3"	7' 5"	11' 10"	10' 9"	9' 4"
350S137	27	11' 11"	11' 1"	9' 11"	15' 10"	14' 4"	12' 6"	10' 9"	9' 11"	8' 11"	13' 10"	12' 6"	10' 11"	8' 9"	8' 2"	7' 4"	10' 8"	9' 8"	8' 5"
	33	12' 9"	11' 10"	10' 7"	16' 10"	15' 4"	13' 4"	11' 5"	10' 7"	9' 6"	14' 9"	13' 4"	11' 8"	9' 4"	8' 7"	7' 9"	11' 4"	10' 4"	9' 0"
	43	14' 2"	13' 0"	11' 7"	18' 4"	16' 8"	14' 6"	12' 7"	11' 7"	10' 4"	16' 0"	14' 6"	12' 8"	10' 2"	9' 4"	8' 5"	12' 4"	11' 3"	9' 10"
350S162	33	14' 7"	13' 6"	12' 1"	17' 8"	16' 1"	14' 0"	13' 0"	12' 1"	10' 10"	15' 5"	14' 0"	12' 3"	10' 7"	9' 10"	8' 10"	11' 11"	10' 10"	9' 5"
	43	16' 0"	14' 9"	13' 2"	19' 3"	17' 6"	15' 3"	14' 4"	13' 2"	11' 10"	16' 9"	15' 3"	13' 4"	11' 7"	10' 8"	9' 7"	13' 0"	11' 9"	10' 3"
362S125	18	9' 5"	8' 9"	7' 9"	13' 3"	12' 0"	10' 6"e	8' 6"	7' 9"	6' 11"e	11' 7"e	10' 6"e	9' 2"e	6' 9"e	6' 2"e	5' 7"e	8' 11"e	7' 11"e	6' 7"e
	27	10' 8"	9' 11"	8' 10"	15' 3"	14' 0"	12' 3"	9' 7"	8' 10"	7' 11"	13' 6"	12' 3"	10' 8"	7' 9"	7' 2"	6' 6"	10' 5"	9' 5"	8' 3"
	30	11' 0"	10' 2"	9' 2"	15' 8"	14' 6"	12' 8"	9' 10"	9' 2"	8' 2"	13' 11"	12' 8"	11'1"	8' 0"	7' 5"	6' 8"	10' 9"	9' 9"	8' 6"
	33	11' 5"	10' 7"	9' 5"	16' 3"	15' 0"	13' 1"	10' 3"	9' 5"	8' 6"	14' 5"	13' 1"	11' 5"	8' 3"	7' 8"	6' 10"	11' 2"	10' 1"	8' 10"
	43	12' 9"	11' 8"	10' 5"	17' 9"	16' 4"	14' 3"	11' 4"	10' 5"	9' 3"	15' 8"	14' 3"	12' 5"	9' 1"	8' 4"	7' 6"	12' 1"	11' 0"	9' 7"
362S137	27	12' 1"	11' 2"	10' 1"	16' 3"	14' 9"	12' 11"	10' 10"	10' 1"	9' 1"	14' 2"	12' 11"	11' 3"	8' 10"	8' 3"	7' 5"	10' 11"	9' 11"	8' 8"e
	33	12' 11"	11' 11"	10' 8"	17' 4"	15' 9"	13' 9"	11' 7"	10' 8"	9' 7"	15' 2"	13' 9"	12' 0"	9' 5"	8' 8"	7' 10"	11' 8"	10' 7"	9' 3"
	43	14' 3"	13' 2"	11' 9"	18' 10"	17' 1"	14' 11"	12' 8"	11' 9"	10' 5"	16' 5"	14' 11"	13' 1"	10' 3"	9' 5"	8' 5"	12' 8"	11' 6"	10' 1"
362S162	33	14' 8"	13' 7"	12' 2"	18' 2"	16' 6"	14' 5"	13' 2"	12' 2"	10' 11"	15' 10"	14' 5"	12' 7"	10' 9"	9' 11"	8' 11"	12' 3"	11' 1"	9' 8"
	43	16' 2"	14' 11"	13' 4"	19' 9"	17' 11"	15' 8"	14' 5"	13' 4"	11' 11"	17' 3"	15' 8"	13' 8"	11' 8"	10' 9"	9' 8"	13' 4"	12' 1"	10' 7"
400S125	27	11' 0"	10' 2"	9' 1"	15' 9"	14' 7"	13' 1"	9' 10"	9' 1"	8' 2"	14' 2"	13' 1"	11' 6"	8' 0"	7' 5"	6' 8"	11' 3"	10' 2"	8' 9"e
	30	11' 4"	10' 6"	9' 5"	16' 2"	15' 0"	13' 5"	10' 2"	9' 5"	8' 5"	14' 6"	13' 5"	11' 11"	8' 3"	7' 8"	6' 10"	11' 8"	10' 7"	9' 2"
	33	11' 9"	10' 10"	9' 8"	16' 9"	15' 6"	13' 10"	10' 6"	9' 9"	8' 8"	15' 0"	13' 10"	12' 4"	8' 6"	7' 11"	7' 1"	12' 0"	10' 11"	9' 6"
	43	13' 0"	12' 0"	10' 8"	18' 3"	16' 10"	15' 1"	11' 7"	10' 8"	9' 6"	16' 4"	15' 1"	13' 6"	9' 4"	8' 7"	7' 8"	13' 1"	11' 11"	10' 5"
400S137	27	12' 5"	11' 6"	10' 4"	17' 6"	15' 11"	13' 11"	11' 2"	10' 4"	9' 4"	15' 4"	13' 11"	12' 2"	9' 1"	8' 5"	7' 7"	11' 10"	10' 9"	9' 5"e
	33	13' 3"	12' 3"	11' 0"	18' 8"	17' 0"	14' 10"	11' 10"	11' 0"	9' 10"	16' 4"	14' 10"	12' 11"	9' 8"	8' 11"	8' 1"	12' 7"	11' 5"	10' 0"
	43	14' 7"	13' 6"	12' 0"	20' 4"	18' 6"	16' 2"	13' 0"	12' 0"	10' 9"	17' 9"	16' 2"	14' 1"	10' 6"	9' 8"	8' 8"	13' 9"	12' 6"	10' 11"
400S162	33	15' 1"	13' 11"	12' 6"	19' 7"	17' 10"	15' 6"	13' 6"	12' 6"	11' 3"	17' 1"	15' 6"	13' 7"	11' 0"	10' 3"	9' 2"	13' 3"	12' 0"	10' 6"
	43	16' 7"	15' 3"	13' 8"	21' 4"	19' 4"	16' 11"	14' 9"	13' 8"	12' 2"	18' 7"	16' 11"	14' 9"	11' 11"	11' 1"	9' 11"	14' 5"	13' 1"	11' 5"
600S125	27	12' 4"e	11' 5"e	10' 4"e	17' 10"e	16' 7"e	14' 11"e	11' 1"e	10' 4"e	9' 3"e	16' 1"e	14' 11"e	13' 5"e	9' 1"e	8' 5"e	7' 7"e	13' 2"e	12' 2"e	10' 9"e
	30	12' 9"	11' 9"	10' 7"	18' 4"	17' 0"	15' 4"	11' 5"	10' 7"	9' 6"	16' 6"	15' 4"	13' 9"	9' 4"	8' 8"	7' 10"	13' 6"	12' 6"	11' 2"e
	33	13' 2"	12' 2"	10' 11"	18' 10"	17' 6"	15' 9"	11' 9"	10' 11"	9' 10"	17' 0"	15' 9"	14' 2"	9' 7"	8' 11"	8' 0"	13' 10"	12' 10"	11' 7"
	43	14' 5"	13' 3"	11' 10"	20' 5"	18' 11"	16' 11"	12' 10"	11' 10"	10' 7"	18' 4"	16' 11"	15' 3"	10' 5"	9' 7"	8' 7"	14' 11"	13' 10"	12' 5"
600S137	33	14' 10"	13' 9"	12' 4"	21' 4"	19' 10"	17' 10"	13' 4"	12' 4"	11' 1"	19' 2"	17' 10"	16' 1"	10' 10"	10' 1"	9' 1"	15' 9"	14' 7"	13' 1"e
	43	16' 2"	14' 11"	13' 4"	23' 0"	21' 4"	19' 2"	14' 6"	13' 4"	12' 0"	20' 8"	19' 2"	17' 3"	11' 9"	10' 10"	9' 9"	16' 10"	15' 8"	14' 1"
600S162	33	16' 10"	15' 7"	14' 0"	24' 4"	22' 7"	20' 4"	15' 2"	14' 0"	12' 8"	21' 11"	20' 4"	18' 4"	12' 5"	11' 6"	10' 4"	18' 0"	16' 6"	14' 5"e
	43	18' 4"	16' 11"	15' 2"	26' 3"	24' 4"	21' 10"	16' 5"	15' 2"	13' 8"	23' 7"	21' 10"	19' 8"	13' 4"	12' 4"	11' 1"	19' 3"	17' 11"	15' 8"

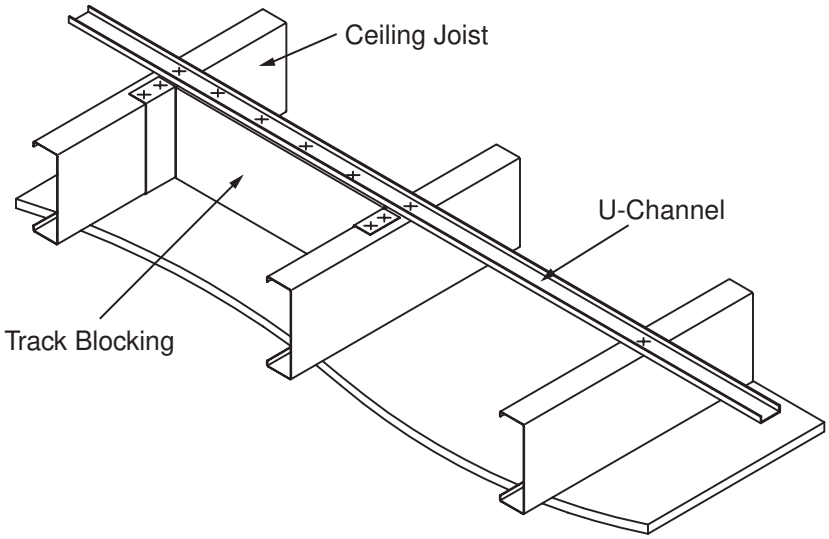
"e" Web stiffeners required at supports.

See page 42 for Ceiling Span Table Notes.

Typical Ceiling Details

Midspan Blocking Details





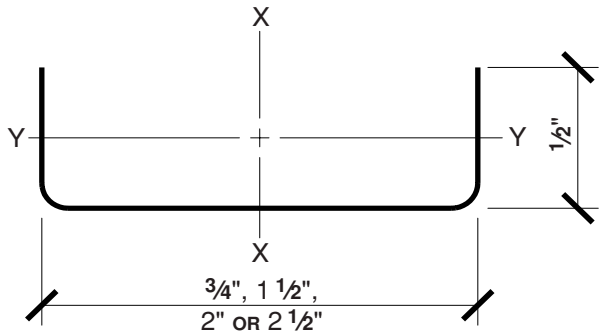
Note: All connections need to be designed.

Channel Properties

U-Channel Section Properties

Section	Min. Base Metal Thickness [1] (in)	Design Thickness (in)	Gross Properties					Effective Properties [3]		
			Area (in^2)	Ixx (in^4)	Rx (in)	Iyy (in^4)	Ry (in)	Ixx [2] (in^4)	Sxx (in^3)	Ma (ft-lb)
075U50-54	0.0538	0.0566	0.087	0.007	0.288	0.002	0.154	0.007	0.019	38.0
150U50-54	0.0538	0.0566	0.129	0.039	0.548	0.002	0.144	0.039	0.052	102.3
200U50-54	0.0538	0.0566	0.157	0.079	0.710	0.002	0.136	0.079	0.079	156.7
250U50-54	0.0538	0.0566	0.186	0.140	0.867	0.003	0.128	0.140	0.112	220.5

[1] Minimum base metal thickness is 95% of design thickness.
[2] Moment of inertia given is for deflection calculations.
[3] Effective properties based on Fy = 33 ksi.



U-Channel Allowable Ceiling Spans L/240

Section	Thickness (mil)	Spans	4 psf					6 psf					13 psf				15 psf			
			Channel Spacing (in) o.c.					Channel Spacing (in) o.c.					Channel Spacing (in) o.c.				Channel Spacing (in) o.c.			
			24	36	48	60	72	24	36	48	60	72	24	36	48	60	24	36	48	60
075U50	54	Single	3' 10"	3' 4"	3' 1"	2' 10"	2' 8"	3' 4"	2' 11"	2' 8"	2' 6"	2' 4"	2' 7"	2' 3"	2' 1"	1' 11"	2' 6"	2' 2"	1' 11"	1' 9"
		Multiple	4' 9"	4' 2"	3' 9"	3' 6"	3' 4"	4' 2"	3' 8"	3' 4"	3' 1"	2' 10"	3' 3"	2' 9"	2' 4"	2' 1"	3' 1"	2' 6"	2' 2"	1' 11"
150U50	54	Single	5' 6"	4' 10"	4' 4"	4' 1"	3' 10"	4' 10"	4' 2"	3' 10"	3' 7"	3' 4"	3' 9"	3' 3"	2' 11"	2' 8"	3' 7"	3' 1"	2' 9"	2' 7"
		Multiple	7' 4"	6' 5"	5' 10"	5' 5"	5' 1"	6' 5"	5' 7"	5' 1"	4' 9"	4' 5"	5' 0"	4' 3"	3' 10"	3' 6"	4' 9"	4' 1"	3' 7"	3' 3"
200U50	54	Single	5' 9"	5' 1"	4' 7"	4' 3"	4' 0"	5' 1"	4' 5"	4' 0"	3' 9"	3' 6"	3' 11"	3' 5"	3' 2"	2' 11"	3' 9"	3' 4"	3' 0"	2' 10"
		Multiple	7' 9"	6' 9"	6' 2"	5' 8"	5' 4"	6' 9"	5' 11"	5' 4"	5' 0"	4' 8"	5' 3"	4' 7"	4' 2"	3' 10"	5' 0"	4' 4"	4' 0"	3' 8"
250U50	54	Single	6' 0"	5' 3"	4' 10"	4' 6"	4' 3"	5' 3"	4' 7"	4' 3"	3' 11"	3' 8"	4' 1"	3' 7"	3' 4"	3' 1"	3' 11"	3' 5"	3' 2"	2' 11"
		Multiple	8' 0"	7' 0"	6' 5"	5' 11"	5' 7"	7' 0"	6' 2"	5' 7"	5' 2"	4' 11"	5' 5"	4' 9"	4' 4"	4' 1"	5' 2"	4' 7"	4' 2"	3' 10"

U-Channel Allowable Ceiling Spans L/360

Section	Thickness (mil)	Spans	4 psf					6 psf					13 psf				15 psf			
			Channel Spacing (in) o.c.					Channel Spacing (in) o.c.					Channel Spacing (in) o.c.				Channel Spacing (in) o.c.			
			24	36	48	60	72	24	36	48	60	72	24	36	48	60	24	36	48	60
075U50	54	Single	3' 4"	2' 11"	2' 8"	2' 6"	2' 4"	2' 11"	2' 7"	2' 4"	2' 2"	2' 0"	2' 3"	2' 0"	1' 9"	1' 8"	2' 2"	1' 10"	1' 8"	1' 7"
		Multiple	4' 2"	3' 8"	3' 4"	3' 1"	2' 11"	3' 8"	3' 2"	2' 11"	2' 8"	2' 6"	2' 10"	2' 5"	2' 3"	2' 1"	2' 8"	2' 4"	2' 1"	1' 11"
150U50	54	Single	5' 6"	4' 10"	4' 4"	4' 1"	3' 10"	4' 10"	4' 2"	3' 10"	3' 7"	3' 4"	3' 9"	3' 3"	2' 11"	2' 8"	3' 7"	3' 1"	2' 9"	2' 7"
		Multiple	7' 4"	6' 5"	5' 10"	5' 5"	5' 1"	6' 5"	5' 7"	5' 1"	4' 9"	4' 5"	4' 11"	4' 3"	3' 10"	3' 6"	4' 9"	4' 1"	3' 7"	3' 3"
200U50	54	Single	5' 9"	5' 1"	4' 7"	4' 3"	4' 0"	5' 1"	4' 5"	4' 0"	3' 9"	3' 6"	3' 11"	3' 5"	3' 2"	2' 11"	3' 9"	3' 4"	3' 0"	2' 10"
		Multiple	7' 9"	6' 9"	6' 2"	5' 8"	5' 4"	6' 9"	5' 11"	5' 4"	5' 0"	4' 8"	5' 3"	4' 7"	4' 2"	3' 10"	5' 0"	4' 4"	4' 0"	3' 8"
250U50	54	Single	6' 0"	5' 3"	4' 10"	4' 6"	4' 3"	5' 3"	4' 7"	4' 3"	3' 11"	3' 8"	4' 1"	3' 7"	3' 4"	3' 1"	3' 11"	3' 5"	3' 2"	2' 11"
		Multiple	8' 0"	7' 0"	6' 5"	5' 11"	5' 7"	7' 0"	6' 2"	5' 7"	5' 2"	4' 11"	5' 5"	4' 9"	4' 4"	4' 1"	5' 2"	4' 7"	4' 2"	3' 10"

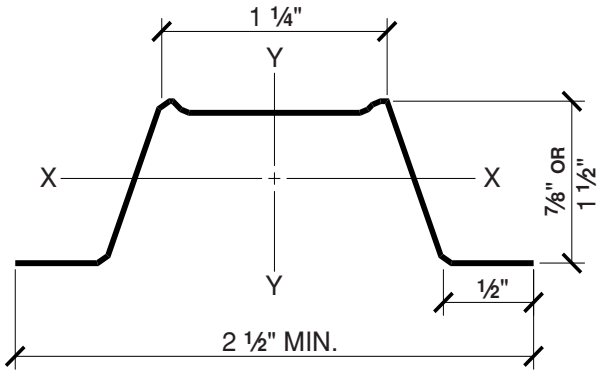
Allowable ceiling spans based on effective properties.
Multiple span indicates two or more equal spans with channel continuous over center support.
Bearing length = 0.75".
Table values based on the compression flange laterally unsupported.

Channel Properties

(Hat) Furring (F) Channel Section Properties

Section	Min. Base Metal Thickness [1] (in)	Design Thickness (in)	Gross Area (in^2)	Effective Properties [3, 4] Ixx [2] (in^4)	Ma (ft-lb)
087F125-18	0.0179	0.0188	0.070	0.008	26.4
087F125-27	0.0269	0.0283	0.104	0.013	44.8
087F125-30	0.0296	0.0312	0.118	0.014	50.3
087F125-33	0.0329	0.0346	0.127	0.015	55.4
087F125-43	0.0428	0.0451	0.163	0.019	70.1
150F125-18	0.0179	0.0188	0.093	0.029	56.4
150F125-27	0.0269	0.0283	0.140	0.045	93.4
150F125-30	0.0296	0.0312	0.154	0.050	104.9
150F125-33	0.0329	0.0346	0.170	0.055	115.6
150F125-43	0.0428	0.0451	0.220	0.070	147.5

[1] Minimum base metal thickness is 95% of design thickness.
[2] Moment of inertia given is for deflection calculations.
[3] Effective properties are given as the minimum value for either positive or negative bending.
[4] Effective properties based on Fy = 33 ksi.



(Hat) Furring (F) Channel Allowable Ceiling Spans L/240

Section	Thickness (mil)	Fy (ksi)	Spans	Applied load 4 psf Hat Spacing (in) o.c. 12	16	24	6 psf Hat Spacing (in) o.c. 12	16	24	13 psf Hat Spacing (in) o.c. 12	16	24
087F125	18	33	Single	5' 2"	4' 8"	4' 1"	4' 6"	4' 1"	3' 7"	3' 6"	3' 2"	2' 9"
			Multiple	6' 5"	5' 10"	5' 1"	5' 7"	5' 1"	4' 2"	4' 0"	3' 5"	2' 10"
	27	33	Single	5' 11"	5' 5"	4' 9"	5' 2"	4' 9"	4' 1"	4' 0"	3' 8"	3' 2"
			Multiple	7' 4"	6' 8"	5' 10"	6' 5"	5' 10"	5' 1"	4' 11"	4' 6"	3' 8"
	30	33	Single	6' 2"	5' 7"	4' 10"	5' 4"	4' 10"	4' 3"	4' 2"	3' 9"	3' 3"
			Multiple	7' 7"	6' 11"	6' 0"	6' 8"	6' 0"	5' 3"	5' 1"	4' 8"	3' 11"
	33	33	Single	6' 4"	5' 9"	5' 0"	5' 6"	5' 0"	4' 4"	4' 3"	3' 10"	3' 4"
			Multiple	7' 10"	7' 1"	6' 2"	6' 10"	6' 2"	5' 5"	5' 3"	4' 9"	4' 1"
	43	33	Single	6' 10"	6' 2"	5' 5"	6' 0"	5' 5"	4' 9"	4' 7"	4' 2"	3' 8"
			Multiple	8' 5"	7' 8"	6' 8"	7' 5"	6' 8"	5' 10"	5' 8"	5' 2"	4' 6"
150F125	18	33	Single	7' 10"	7' 1"	6' 3"	6' 10"	6' 3"	5' 5"	5' 3"	4' 9"	3' 11"
			Multiple	9' 8"	8' 10"	7' 6"	8' 6"	7' 6"	6' 1"	5' 10"	5' 1"	3' 11"
	27	33	Single	9' 1"	8' 3"	7' 2"	7' 11"	7' 2"	6' 3"	6' 1"	5' 6"	4' 10"
			Multiple	11' 2"	10' 2"	8' 10"	9' 9"	8' 10"	7' 9"	7' 6"	6' 6"	5' 4"
	30	33	Single	9' 4"	8' 6"	7' 5"	8' 2"	7' 5"	6' 5"	6' 3"	5' 8"	5' 0"
			Multiple	11' 6"	10' 6"	9' 2"	10' 1"	9' 2"	8' 0"	7' 9"	6' 11"	5' 8"
	33	33	Single	9' 8"	8' 9"	7' 8"	8' 5"	7' 8"	6' 8"	6' 6"	5' 11"	5' 2"
			Multiple	11' 11"	10' 10"	9' 5"	10' 5"	9' 5"	8' 3"	8' 0"	7' 3"	5' 11"
	43	33	Single	10' 5"	9' 6"	8' 3"	9' 2"	8' 3"	7' 3"	7' 1"	6' 5"	5' 7"
			Multiple	12' 11"	11' 9"	10' 3"	11' 3"	10' 3"	8' 11"	8' 9"	7' 11"	6' 8"

Allowable ceiling spans based on effective properties.
Multiple span indicates two or more equal spans with channel continuous over center support.
Bearing length = 0.75".

SSMA

(Hat) Furring (F) Channel Allowable Ceiling Spans L/360

Section	Thickness (mil)	Fy (ksi)	Spans	Applied load 4 psf Hat Spacing (in) o.c. 12	4 psf 16	4 psf 24	6 psf 12	6 psf 16	6 psf 24	13 psf 12	13 psf 16	13 psf 24
087F125	18	33	Single	4' 6"	4' 1"	3' 7"	3' 11"	3' 7"	3' 1"	3' 0"	2' 9"	2' 5"
			Multiple	5' 7"	5' 1"	4' 5"	4' 11"	4' 5"	3' 10"	3' 9"	3' 5"	2' 10"
	27	33	Single	5' 2"	4' 9"	4' 1"	4' 6"	4' 1"	3' 7"	3' 6"	3' 2"	2' 9"
			Multiple	6' 5"	5' 10"	5' 1"	5' 7"	5' 1"	4' 5"	4' 4"	3' 11"	3' 5"
	30	33	Single	5' 4"	4' 10"	4' 3"	4' 8"	4' 3"	3' 8"	3' 7"	3' 3"	2' 10"
			Multiple	6' 8"	6' 0"	5' 3"	5' 9"	5' 3"	4' 7"	4' 6"	4' 1"	3' 6"
	33	33	Single	5' 6"	5' 0"	4' 4"	4' 10"	4' 4"	3' 10"	3' 9"	3' 4"	2' 11"
			Multiple	6' 10"	6' 2"	5' 5"	5' 11"	5' 5"	4' 9"	4' 7"	4' 2"	3' 8"
	43	33	Single	6' 0"	5' 5"	4' 9"	5' 2"	4' 9"	4' 1"	4' 0"	3' 8"	3' 2"
			Multiple	7' 5"	6' 8"	5' 10"	6' 5"	5' 10"	5' 1"	5' 0"	4' 6"	3' 11"
150F125	18	33	Single	6' 10"	6' 3"	5' 5"	6' 0"	5' 5"	4' 9"	4' 7"	4' 2"	3' 8"
			Multiple	8' 6"	7' 8"	6' 9"	7' 5"	6' 9"	5' 10"	5' 8"	5' 1"	3' 11"
	27	33	Single	7' 11"	7' 2"	6' 3"	6' 11"	6' 3"	5' 6"	5' 4"	4' 10"	4' 3"
			Multiple	9' 9"	8' 10"	7' 9"	8' 6"	7' 9"	6' 9"	6' 7"	6' 0"	5' 3"
	30	33	Single	8' 2"	7' 5"	6' 5"	7' 1"	6' 5"	5' 8"	5' 6"	5' 0"	4' 4"
			Multiple	10' 1"	9' 2"	8' 0"	8' 10"	8' 0"	7' 0"	6' 9"	6' 2"	5' 5"
	33	33	Single	8' 5"	7' 8"	6' 8"	7' 4"	6' 8"	5' 10"	5' 8"	5' 2"	4' 6"
			Multiple	10' 5"	9' 5"	8' 3"	9' 1"	8' 3"	7' 2"	7' 0"	6' 4"	5' 7"
	43	33	Single	9' 2"	8' 3"	7' 3"	8' 0"	7' 3"	6' 4"	6' 2"	5' 7"	4' 10"
			Multiple	11' 3"	10' 3"	8' 11"	9' 10"	8' 11"	7' 10"	7' 7"	6' 11"	6' 0"

Allowable ceiling spans based on effective properties.
Multiple span indicates two or more equal spans with channel continuous over center support.
Bearing length = 0.75".

Fasteners (Screws and Welds)

Screw Table Notes

1. Screw spacing and edge distance shall not be less than 3 x d. (d = Nominal screw diameter)
2. The allowable loads are based on the steel properties of the members being connected, per AISI section E4.
3. When connecting materials of different steel thicknesses or tensile strength (F_u), the lowest applicable values should be used.
4. The nominal strength of the screw must be at least 3.75 times the allowable loads.
5. Values include a 3.0 factor of safety.
6. Applied loads may be multiplied by 0.75 for seismic or wind loading, per AISI A 5.1.3.
7. Penetration of screws through joined materials should not be less than 3 exposed threads. Screws should be installed and tightened in accordance with screw manufacturer's recommendations.

Allowable Loads for Screw Connections (lbs/screw)

Steel Mils	Thickness Design (in)	Steel Properties Fy (ksi)	Fu (ksi)	No. 12 Dia. = 0.216 (in) Shear	Pullout	No. 10 Dia. = 0.190 (in) Shear	Pullout	No. 8 Dia. = 0.164 (in) Shear	Pullout	No. 6 Dia. = 0.138 (in) Shear	Pullout
18	0.0188	33	45					66	39	60	33
27	0.0283	33	45					121	59	111	50
30	0.0312	33	45			151	76	141	65	129	55
33	0.0346	33	45			177	84	164	72	151	61
43	0.0451	33	45	280	124	263	109	244	94	224	79
54	0.0566	33	45	394	156	370	137	344	118		
68	0.0713	33	45	557	196	523	173				

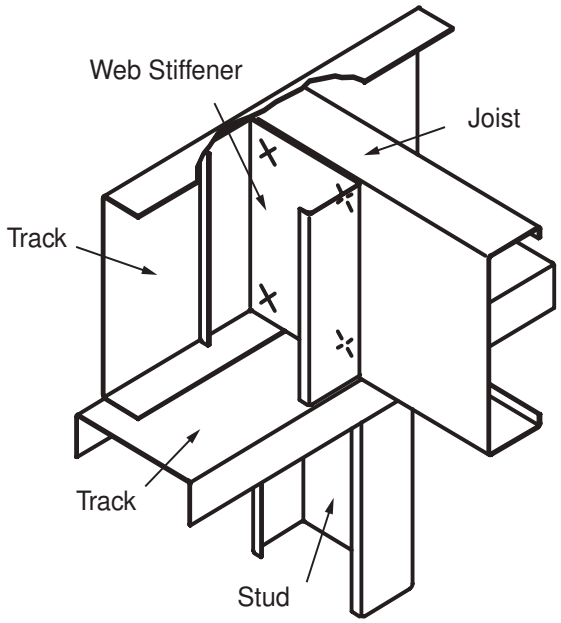
Weld Table Notes

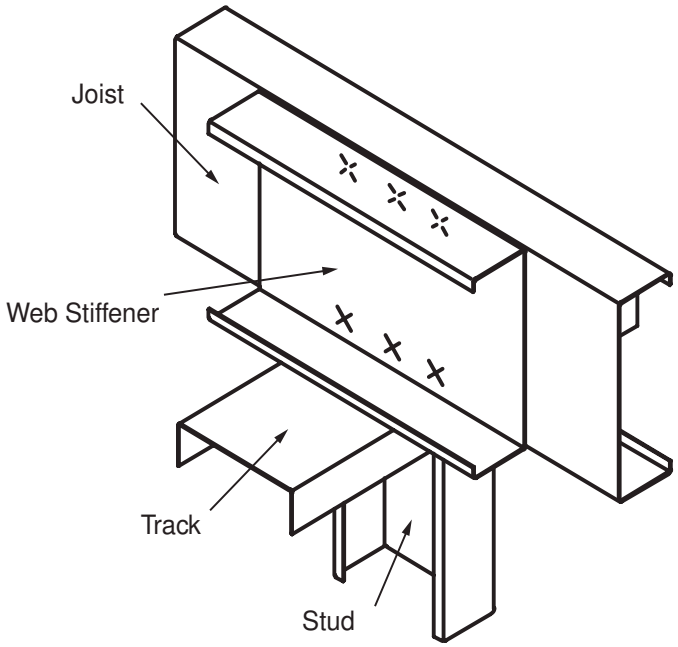
1. Weld capacities based on AISI, section E2
2. When connecting materials of different steel thicknesses or tensile strength (F_u), the lowest applicable values should be used.
3. Values include a 2.5 factor of safety.
4. Based on the minimum allowance load for fillet or flare groove welds, longitudinal or transverse loads.
5. Allowable loads based on E60xx electrodes.
6. For material less than or equal to .1242" thick, drawings show nominal weld size. For such material, the effective throat of the weld shall not be less than the thickness of the thinnest connected part.

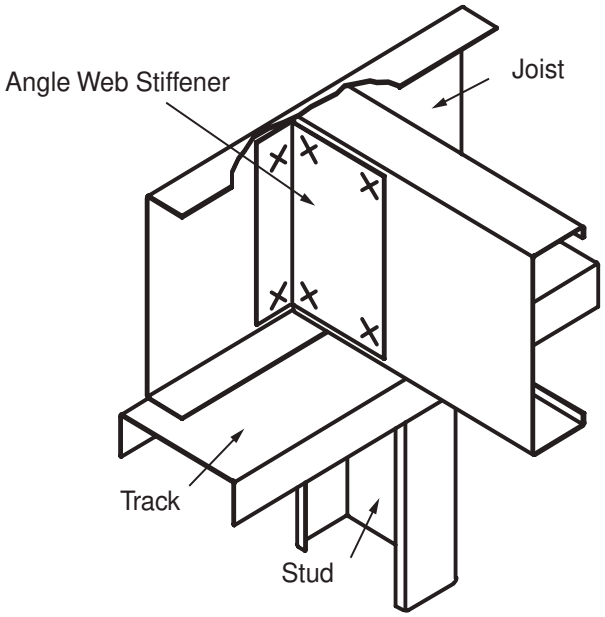
Allowable Loads for Fillet Welds and Flare Groove Welds

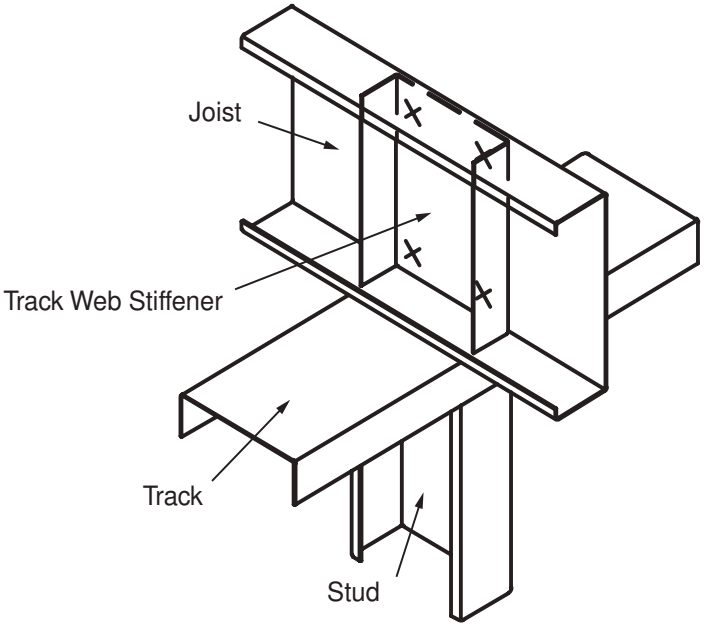
Steel Mils	Thickness Design (in)	Steel Properties Fy (ksi)	Fu(ksi)	Nominal Weld Size	Allowable Load (lb/in)
43	0.0451	33	45	1/16	609
54	0.0566	33	45	3/32	764
68	0.0713	33	45	1/8	963
97	0.1017	33	45	1/8	1373
118	0.1242	33	45	1/8	1677
54	0.0566	50	65	3/32	1104
68	0.0713	50	65	1/8	1390
97	0.1017	50	65	1/8	1983
118	0.1242	50	65	1/8	2422

Joist Web Stiffeners





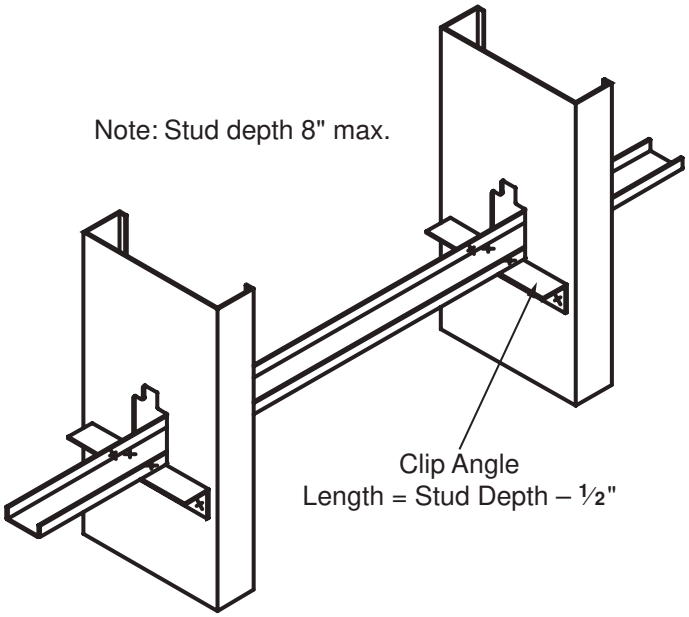




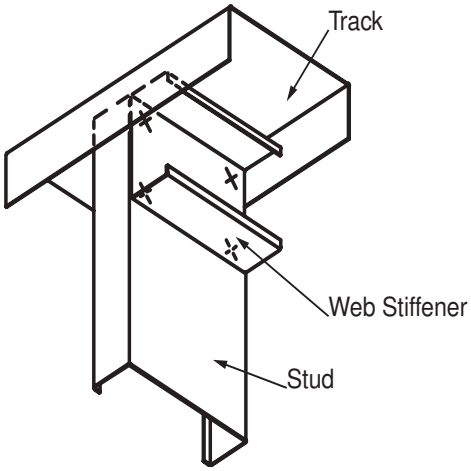
Note: All connections to be designed.

Typical Details

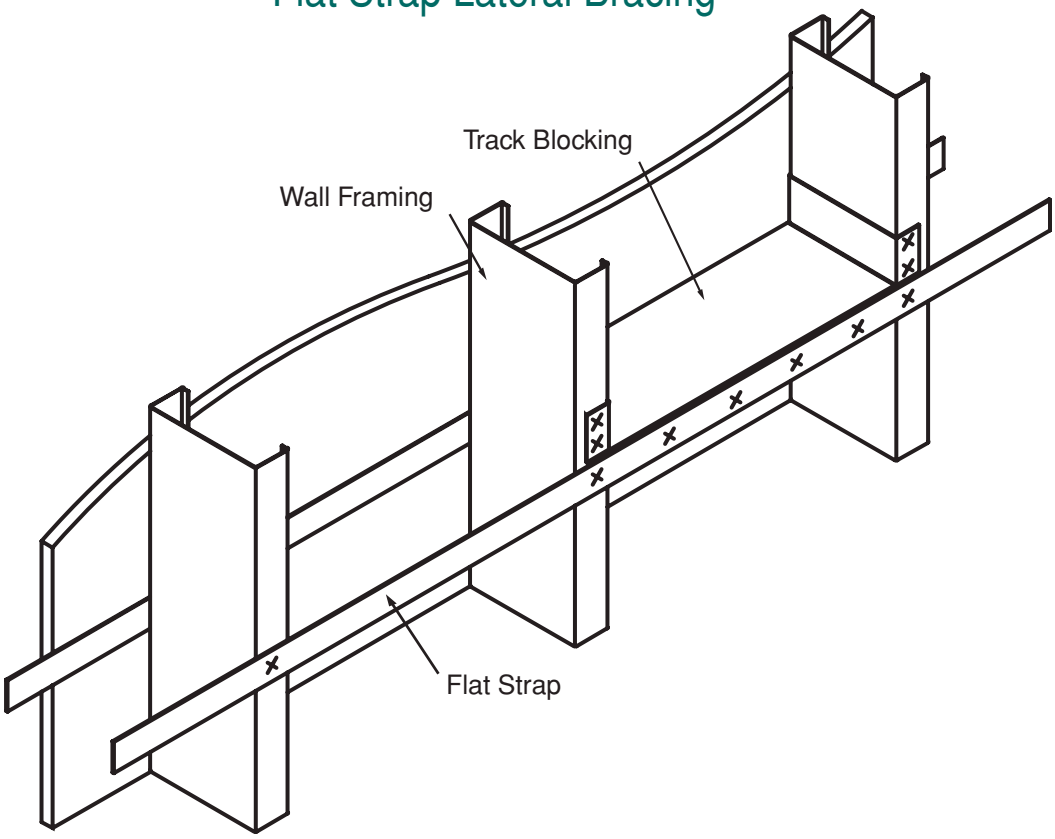
Cold Rolled Lateral Bracing



Wall Stud Web Stiffener



Flat Strap Lateral Bracing



Note: All connections to be designed.

Architectural Specification for Cold-Formed Metal

Part 1 - GENERAL

1.1 Description

A. Work included: Provide metal studs and/or joist and accessories as indicated on the drawings, as specified herein, and as needed for a complete and proper installation.

1.2 Quality Assurance

A. Contractor shall provide effective, full time quality control over all fabrication and erection complying with the pertinent codes and regulations of government agencies having jurisdiction.

1.3 Submittals

A. Product data: Within _____ calendar days after the contractor has received the Owner's "Notice to Proceed", submit:

1. Materials list of items proposed to be provided under this section.
2. Manufacturer's product information and other data needed to provide compliance with the specified requirements.
3. Manufacturer's recommended installation procedures which, when approved by the Architect, will become the basis for accepting or rejecting actual installation procedures on the work.

Part 2 - PRODUCTS

2.1 Metal Studs, Joist, and Accessories

A. All products to be manufactured by the current members of the Steel Stud Manufacturers Association.

B. All galvanized studs and joists shall be formed from steel that corresponds to the minimum requirements of 1996 A.I.S.I. standards.

C. All structural members shall be designed in accordance with the American Iron and Steel Institute (AISI) "Specification for the Design of Cold-Formed Steel Structural Members" 1996 edition.

D. Provide all accessories including, but not limited to, tracks, clips web stiffeners, anchors, fastening devices, resilient clips, and other accessories required for a complete and proper installation, and as recommended by the manufacturer for the steel members used.

E. Fastening of components shall be with self-drilling screws or welding. Screws or welds shall be of sufficient size to insure the strength of the connection. All welds of galvanized steel shall be touched up with a zinc-rich paint. All welds of carbon sheet steel shall be touched up with paint. Wire tying of components shall not be permitted.

Part 3 - EXECUTION

3.1 Fabrication and Installation

A. Prior to fabrication of framing, the contractor shall submit shop drawings to the architect or engineer to obtain approval.

B. Framing components may be preassembled into panels prior to erecting. Prefabricated panels shall be square, with components attached in a manner to prevent racking and to minimize distortion while lifting and transporting.

C. All framing components shall be cut squarely for attachment to perpendicular members or as required for an angular fit against abutting member.

D. Studs shall be plumbed, aligned and securely attached to flanges of both upper and lower runners, except that in the case of interior, non-load bearing walls, studs need not be attached to upper or lower runners.

E. In all doubled jamb studs and doubled headers not accessible to insulation contractors, insulation equal to that specified elsewhere shall be provided.

F. Splices in axial load bearing members other then runner track shall not be permitted.

G. Temporary bracing where required, shall be provided until erection is complete.

3.2 Installation (Non-load bearing walls)

A. Runners should be securely anchored to the supporting structure as shown on the drawings.

B. Jack studs or cripples shall be installed below window sills, above window and door heads, and elsewhere to furnish supports.

C. Lateral bracing shall be provided by use of gypsum board and gypsum sheathing or by horizontal straps or cold-rolled channels. Bracing shall conform to Section D3 of the AISI Specification.

D. Provisions for structure vertical movement shall be provided where indicated on the drawings.

E. Handling and lifting of prefabricated panels shall be done in a manner so as not to cause distortion in any member.

3.3 Installation (Axial load-bearing)

A. Runners shall be securely anchored to the supporting structure as shown on the drawings.

B. Complete, uniform and level bearing support shall be provided for the bottom runner.

C. Framing of wall openings shall include headers and supporting studs as shown on the drawings.

D. Diagonally braced stud walls, as indicated on the drawings, shall be provided at locations designated as "shear walls" for frame stability and lateral load resistance. Additional studs, when necessary, shall be positioned as indicated on the drawings to resist the vertical components.

E. Splices in axially loaded studs shall not be permitted.

3.4 Installation (Joists)

A. Uniform and level joist bearing shall be provided at foundation walls by means of shims and/or non-setting grout.

B. Joists shall be located directly over bearing studs or a load distribution member shall be provided at the top of the bearing wall.

C. Web stiffeners shall be provided at reaction points and/or points of concentrated loads where indicated on the drawings.

D. Joist bridging shall be provided where indicated on the drawings.

E. Additional joist shall be provided under parallel partitions when the partition length exceeds one-half the joist span, also around all floor and roof openings, which interrupt one or more spanning members unless otherwise noted.

F. End blocking shall be provided where joist ends are not otherwise restrained from rotation.

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