



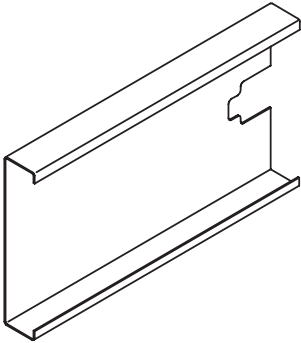
PRODUCT TECHNICAL GUIDE

Steel Stud Manufacturers Association



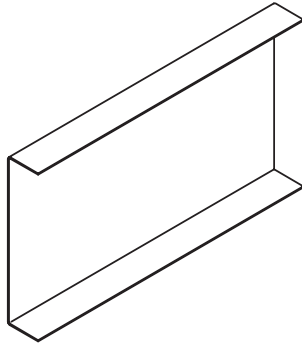
Note:

For sections available in both 33 and 50 ksi, the specifier must clearly indicate which yield point is required when ordering. For example: 600S162-54 (50 ksi).

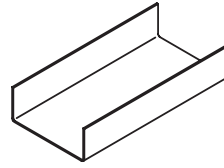


**"S" - C-STUD/JOIST
S-SECTIONS***

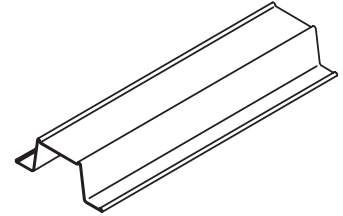
** For "S" members, see table on page 5 for stiffening lip length.*



**"T" - TRACK
T-SECTIONS**



**"U" - CHANNEL
U-SECTIONS**



**"F" - FURRING CHANNEL
F-SECTIONS**

Nomenclature Example

All SSMA products have a four-part identification code that identifies the web depth, flange width, style, and mil thickness.

Member Web Depth

(Example: 6" = **600** × 1/100 inch)

All member depths are given in 1/100 inch.

For all "T" sections, member depth is the inside to inside dimension.

Flange Width

(Example: 1 5/8" = 1.625" ≈ **162** × 1/100 inch)

All flange widths are given in 1/100 inch.



Style

(Example: Stud or Joist section = **S**)

Nomenclature uses the following four characters to designate the profile:

- S** = Stud or Joist Sections
- T** = Track Sections
- U** = Channel Sections
- F** = Furring Channel Sections

Mil Thickness

(Example: 0.054" = **54** mils; 1 mil = 1/1000 inch)

Mil thickness is the minimum base steel thickness measured in 1/1000 inch. Minimum base steel thickness represents 95 percent of the design thickness.

General Product Information	4 - 5	Soffit/Ceiling Table Notes & Bracing Details Spans	61 - 67
Mission Statement.....	4	Mid-Span Bracing Details for Ceilings.....	61
Introduction.....	4	Interior Allowable Ceiling/Soffit Spans (S-Sections) - L/240.....	62
Technical Assistance.....	4	Interior Allowable Ceiling/Soffit Spans (S-Sections) - L/360.....	63
Code Approval.....	4	Exterior Allowable Ceiling/Soffit Spans (S-Sections) - L/240.....	64 - 65
Material Specifications.....	4	Exterior Allowable Ceiling/Soffit Spans (S-Sections) - L360.....	66 - 67
Disclaimer.....	4	(Hat) Section Properties & Ceiling Spans (F-Sections)	64
General Notes for All Tables.....	5	(Hat) Furring channel Section Properties (F-Sections).....	68
Steel Thickness Table.....	5	(Hat) Furring Channel Allowable Ceiling Spans (F-Sections) - L/240.....	68
Stiffening Lip Length Table.....	5	(Hat) Furring Channel Allowable Ceiling Spans (F-Sections) - L/360.....	68
Definitions of Structural Property Symbols.....	6	Section Properties & Ceiling Spans (U-Sections)	69
Web Depth-to-Thickness Ratios.....	6	U-Channel Section Properties.....	69
Section Properties	7 - 18	Allowable Ceiling Spans (U-Sections) - L/240.....	69
Nonstructural (S) Section Properties.....	7	Allowable Ceiling Spans (U-Sections) - L/360.....	69
Structural (S) Section Properties.....	8 - 14	Screw and Weld Capacities	70
Track (T) Section Properties.....	15 - 18	Allowable Screw Connection Capacity.....	70
Interior Wall Height Tables	19 - 24	Allowable Weld Capacity.....	70
Interior Wall Heights - Composite.....	19 - 20	Typical Details	71
Interior Wall Limiting Heights Non-Composite - Fully Braced.....	21 - 22	Flat Strap Lateral Bracing.....	71
Interior Wall Limiting Heights Braced at 48" oc.....	23 - 24	Deflection Track.....	71
Exterior Wall Height Tables	25 - 30	U-Channel Lateral Bracing.....	71
Curtain Wall Limiting Heights Single Span.....	25 - 27	Slide Clip Attachment.....	71
Curtain Wall Limiting Heights Double Span.....	28 - 30	Wall Stud Web Stiffener.....	71
Combined Axial and Lateral Loads	31 - 41	Code Compliance Certification Program	Back Cover
5 psf Lateral Load (Interior Walls).....	31 - 32		
15 psf Lateral Load.....	32 - 33		
20 psf Lateral Load.....	34 - 35		
25 psf Lateral Load.....	35 - 36		
30 psf Lateral Load.....	36 - 37		
35 psf Lateral Load.....	38 - 39		
40 psf Lateral Load.....	39 - 40		
50 psf Lateral Load.....	40 - 41		
Floor Joist Spans	42 - 55		
Floor Joist Bridging and Bracing Requirements.....	42		
Joist Bridging Detail.....	42		
10 psf Dead Load and 20 psf Live Load.....	43 - 44		
10 psf Dead Load and 30 psf Live Load.....	45 - 46		
10 psf Dead Load and 40 psf Live Load.....	47 - 48		
10 psf Dead Load and 50 psf Live Load.....	49 - 50		
15 psf Dead Load and 125 psf Live Load.....	51 - 52		
40 psf Dead Load and 125 psf Live Load.....	53 - 54		
Floor Joist Web Stiffener Details.....	55		
Header Loads	56 - 57		
Web Crippling Loads	58 - 60		
Web Crippling Conditions.....	58		
Allowable Web Crippling Loads (lbs) Single Members (S-Sections).....	59		
Allowable Web Crippling Loads (lbs) Back-to-Back Members (S-Sections).....	60		
(Hat) Furring Channel Properties (F-Sections)	61		
(Hat) Furring Channel Section Properties (F-Sections).....	61		



Mission Statement

The SSMA's mission is to be the unified voice of the steel framing manufacturing industry, by being the leader in supporting the development and maintenance of quality product standards and specifications, and by creating growth opportunities for cold-formed steel through research, marketing, and education.

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 benefit the environment, contractor, designer, and developer more than other material.

Steel is not only a recyclable product, but also a stronger product that allows for longer clear-spans. Cold-formed steel is lighter to provide ease of handling, and is a dimensionally stable product, giving a "straight" 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 jobsite. The structural shapes manufactured are easily used for nonstructural and structural wall assemblies, floor and ceiling joist assemblies, trusses, and panelized systems.

SSMA in collaboration with the American Iron and Steel Institute (AISI) has developed and adopted a standard designator system for identifying cold-formed steel framing members. Using a standard system will eliminate the confusion caused by individual manufacturers' varied designators.

Technical Assistance

Professional technical assistance is available through SSMA or individual manufacturers' technical departments.

Code Approval

SSMA structural and nonstructural cold-formed framing product specifications meet the stringent requirements of International Code Council Evaluation Services in conjunction with SSMA ICC-ES evaluation report (ESR-3064P). The product specification and documented quality control system & procedures are verified during regular inspections by ICC-ES, the leader in the technical evaluations for code compliance of the building products.

Material Specifications

Structural and nonstructural members are coated to meet the minimum code requirements. Higher corrosion protection coatings such as G90 are available upon request. Products manufactured by SSMA members are cold-formed from corrosion protected steel coils or sheets and meet the following specifications requirements:

Product Type	Material Specifications	Min Yield	Min Tensile	Minimum Metallic Coating Designation
Nonstructural Products ASTM C645	ASTM A653, SS Grade 33	33 ksi	45 ksi	G40
	ASTM A1003, Grade 33 (NS33)	33 ksi	... ^A	G40 ¹ , A40 ¹ , AZ50 ² , GF30 ³ , T1-25 ⁴ , T2-100 ⁴ , 60G/60G ⁵
Structural Products ASTM C955 (CP60 Coatings)	ASTM A653, SS Grade 33	33 ksi	45 ksi	G60
	ASTM A1003, Grade 33 Type H (ST33H)	33 ksi	45 ksi	G60 ¹ , A60 ¹ , AZ50 ² , GF30 ³
	ASTM A653, SS Grade 50 Class 1	50 ksi	65 ksi	G60
	ASTM A1003, Grade 50 Type H (ST50H)	50 ksi	65 ksi	G60 ¹ , A60 ¹ , AZ50 ² , GF30 ³
	ASTM A653 HSLA Grade 50	50 ksi	65 ksi	G60

¹A653 Standard for steel sheet, zinc coated (galvanized) or zinc-iron alloy-coated (galvannealed) by the hot-dip process

²A792 Standard for steel sheet, 55% aluminum-zinc alloy-coated by the hot-dip process

³A875 Standard for steel sheet, zinc-5% aluminum alloy-coated by the hot-dip process

⁴A463 Standard for steel sheet, aluminum coated by the hot-dip process

⁵A879 Standard for steel sheet, zinc coated by the electrolytic process for application requiring designation of the coating mass on each surface

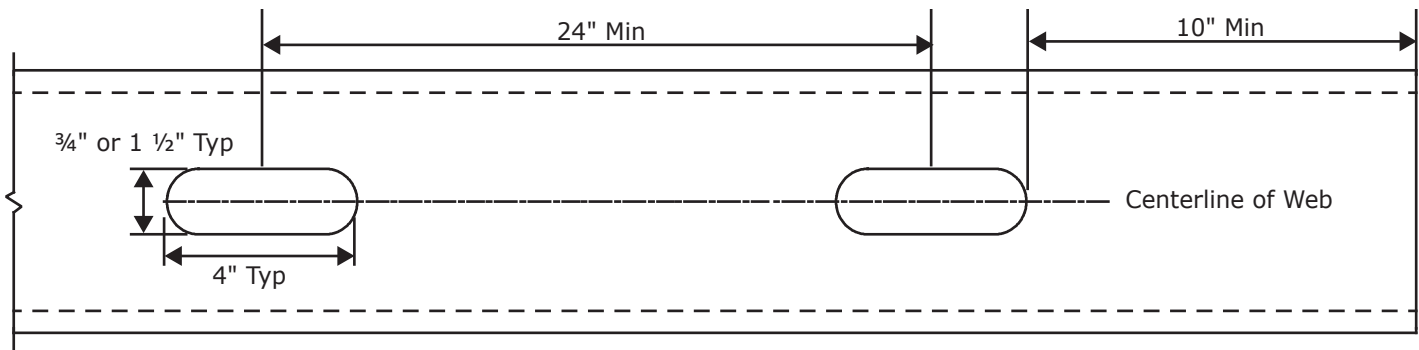
^ANo tensile requirements for nonstructural steel in accordance with ASTM A1003 standards

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 product 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 with respect to the referenced building codes and standards. 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 individual manufacturer to verify product availability.

General Notes for All Tables

- The values in this catalog are based on the North American Specification for the Design of Cold-Formed Steel Structural Members, AISI S100-07 as referenced by 2009 International Building Code (IBC), AISI S100-07 with Supplement S2-10 as referenced by 2012 IBC and AISI S100-12 as referenced by 2015 IBC.
- Where AISI S100 is referenced, it is the North American Specification for the Design of Cold-Formed Steel Structural Members, AISI S100-07 with Supplement S2-10 and AISI S100-12, as applicable with U.S. provisions.
- The structural properties included in this catalog have been computed based on allowable strength design (ASD) method.
- Distortional buckling calculations are based on $K\phi = 0$.
- The effective moment of inertia for deflection is calculated at a stress that results in a section modulus such that the stress times the section modulus at that stress is equal to the allowable moment. AISI S100 Procedure I for serviceability determination has been used.
- Various sections may be manufactured with yield points of 33 or 50 kips per square inch (ksi). The yield point used for calculations is indicated in the tables.
- For sections available in both 33 and 50 ksi, the specifier must clearly indicate which yield point is required. For example: 362S162-54 (50 ksi).
- Conditions with loads that exceed the 10 psf limit for nonstructural members require an approved CP60 coating.
- When provided, factory punchouts will be located along the center line of the webs of the stud members and will have a minimum center-to-center spacing of 24". Punchouts for members greater than 2 1/2" deep are a maximum of 1 1/2" wide x 4 1/2" long. Members with depths 2 1/2" and smaller are maximum 3/4" wide x 4 1/2" long. Any configuration or combination of holes that fit within the punchout width and length limitations mentioned above shall be permitted; other punchout configurations and locations not in compliance with limitations listed above must be approved by a design professional. Values herein are based on punchout configuration and location as illustrated below.
- The 10" end distance shown may be altered if calculations are in conformance with code.



Steel Thickness Table

Designation Thickness (mil)	Minimum Thickness ¹ (in)	Design Thickness ¹ (in)	Design Inside Corner Radii ² (in)	Reference Only Gauge No.
18	0.0179	0.0188	0.0843	25
27	0.0269	0.0283	0.0796	22
30	0.0296	0.0312	0.0781	20 – Drywall
33	0.0329	0.0346	0.0764	20 – Structural
43	0.0428	0.0451	0.0712	18
54	0.0538	0.0566	0.0849	16
68	0.0677	0.0713	0.1069	14
97	0.0966	0.1017	0.1525	12
118	0.1180	0.1242	0.1863	10

Stiffening Lip Length Table

Member	Flange Width	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
S300	3"	0.625
S350	3 1/2"	1.000

¹Minimum thickness represents 95% of the design thickness and is the minimum acceptable thickness delivered to the jobsite based on AISI S100-07 Section A2.4.

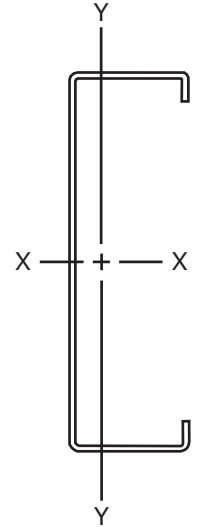
²The tables in this catalog are calculated based on inside corner radii listed in this table. The inside corner radius is the maximum of $\frac{1}{32} - t/2$ or $1.5t$, truncated after the fourth decimal place ($t =$ design thickness). Centerline bend radius is calculated by adding half of the design thickness to listed corner radius.

Gross Properties

- I_x : Moment of inertia of the cross section about the x-axis.
- S_x : Section modulus about the x-axis.
- R_x : Radius of gyration of cross section about the x-axis.
- I_y : Moment of inertia of cross section about the y-axis.
- R_y : Radius of gyration of cross section about the y-axis.

Effective Properties

- I_{xe} : Effective moment of inertia about the x-axis.
- S_{xe} : Effective section modulus about the x-axis.
- M_{al} : Allowable moment based on local buckling.
- M_{ad} : Allowable moment based on distortional buckling, assuming $K\phi = 0$.
- M_a : Allowable moment for track and channel members, based on local buckling only.
- V_{ag} : Allowable strong axis shear away from punchout, calculated in accordance with AISI S100 Section C3.2.1.
- V_{anet} : Allowable strong axis shear at the punchout, calculated in accordance with AISI S100 Section C3.2.2.



Torsional and Other Properties

- J : St. Venant torsional constant. The numbers shown in the tables for J have been multiplied by 1,000. The actual values can be obtained by dividing the listed numbers by 1,000.
- C_w : Torsional warping constant.
- X_o : Distance from the shear center to the centroid along the principal x-axis.
- m : Distance from shear center to mid-plane of web.
- R_o : Polar radius of gyration of cross section about the shear center.
- β : $1 - (X_o/R_o)^2$
- L_u : Critical unbraced length for lateral-torsional buckling. Members are considered fully braced when unbraced length is less than L_u .
- $K\phi$: Distortional buckling moment (M_{ad}) is calculated without the beneficial effect of sheathing to rotational stiffness. $K\phi = 0$.

Web Depth (h) to Thickness (t) Ratios ^{2,3,4}

Mil Thickness	18 mil		27 mil		30 mil		33 mil		43 mil		54 mil		68 mil		97 mil		118 mil	
Design Thickness (in)	0.0188		0.0283		0.0312		0.0346		0.0451		0.0566		0.0713		0.1017		0.1242	
Inside Bend Radius (in)	0.0843		0.0796		0.0781		0.0764		0.0712		0.0849		0.1069		0.1525		0.1863	
Depth (in)	h (in)	h/t	h (in)	h/t	h (in)	h/t	h (in)	h/t	h (in)	h/t	h (in)	h/t	h (in)	h/t	h (in)	h/t	h (in)	h/t
1.625	1.419	75	1.409	50	1.406	45	1.403	41	1.392	31	1.342	24	1.269	18	1.117	11	1.004	8
2.5	2.294	122	2.284	81	2.281	73	2.278	66	2.267	50	2.217	39	2.144	30	1.992	20	1.879	15
3.5	3.294	175	3.284	116	3.281	105	3.278	95	3.267	72	3.217	57	3.144	44	2.992	29	2.879	23
3.625	3.419	182	3.409	120	3.406	109	3.403	98	3.392	75	3.342	59	3.269	46	3.117	31	3.004	24
4	3.794	202 ¹	3.784	134	3.781	121	3.778	109	3.767	84	3.717	66	3.644	51	3.492	34	3.379	27
5.5	5.294	-	5.284	187	5.281	169	5.278	153	5.267	117	5.217	92	5.144	72	4.992	49	4.879	39
6	5.794	-	5.784	204 ¹	5.781	185	5.778	167	5.767	128	5.717	101	5.644	79	5.492	54	5.379	43
8	7.794	-	7.784	-	7.781	249 ¹	7.778	225 ¹	7.767	172	7.717	136	7.644	107	7.492	74	7.379	59
10	9.794	-	9.784	-	9.781	-	9.778	-	9.767	217 ¹	9.717	172	9.644	135	9.492	93	9.379	76
12	11.794	-	11.784	-	11.781	-	11.778	-	11.767	-	11.717	207 ¹	11.644	164	11.492	113	11.379	92
14	13.794	-	13.784	-	13.781	-	13.778	-	13.767	-	13.717	242 ¹	13.644	192	13.492	133	13.379	108
16	15.794	-	15.784	-	15.781	-	15.778	-	15.767	-	15.717	-	15.644	220 ¹	15.492	152	15.379	124

¹h/t exceeds 200

²h value used for h/t calculation is the flat width of the web. For S members, this is the out-to-out member size, minus twice the thickness, minus twice the inside bend radius.

³h/t values exceeding 260 are marked with a dash (-).

⁴h/t values in this table apply to S (studs and joists) members only and do not apply to tracks and channels.



Structural (S) Section Properties

Section	Design Thickness (in)	Fy (ksi)	Gross Properties							Effective Properties						Torsional Properties						Lu (in)
			Area (in ²)	Weight (lb/ft)	Ix (in ⁴)	Sx (in ³)	Rx (in)	Iy (in ⁴)	Ry (in)	Ixe (in ⁴)	Sxe (in ³)	Mal (in-k)	Mad (in-k)	Vag (lb)	Vanet (lb)	Jx1000 (in ⁴)	Cw (in ⁶)	Xo (in)	m (in)	Ro (in)	β	
1400S350-54 ¹	0.0566	33	1.278	4.35	35.830	5.119	5.295	1.947	1.234	35.659	3.823	75.54	68.80	1177	1177	1.365	76.252	-2.207	1.400	5.868	0.859	87.1
1400S350-54 ¹	0.0566	50	1.278	4.35	35.830	5.119	5.295	1.947	1.234	33.308	3.249	97.27	88.25	1177	1177	1.365	76.252	-2.207	1.400	5.868	0.859	70.7
1400S350-68	0.0713	33	1.602	5.45	44.707	6.387	5.283	2.406	1.226	44.707	5.700	112.64	94.81	2365	2365	2.715	94.534	-2.190	1.391	5.848	0.860	86.8
1400S350-68	0.0713	50	1.602	5.45	44.707	6.387	5.283	2.406	1.226	44.707	4.709	141.00	122.49	2365	2365	2.715	94.534	-2.190	1.391	5.848	0.860	70.4
1400S350-97	0.1017	33	2.262	7.70	62.507	8.930	5.257	3.296	1.207	62.507	8.762	191.08 ²	163.95	6939	6939	7.799	130.430	-2.156	1.373	5.808	0.862	82.0
1400S350-97	0.1017	50	2.262	7.70	62.507	8.930	5.257	3.296	1.207	62.507	8.189	245.18	201.25	6939	6939	7.799	130.430	-2.156	1.373	5.808	0.862	70.0
1400S350-118	0.1242	33	2.742	9.33	75.200	10.743	5.237	3.903	1.193	75.200	10.743	238.95 ²	216.66	12745	11287	14.099	155.387	-2.130	1.360	5.778	0.864	80.9
1400S350-118	0.1242	50	2.742	9.33	75.200	10.743	5.237	3.903	1.193	75.200	10.260	340.44 ²	282.84	12745	11287	14.099	155.387	-2.130	1.360	5.778	0.864	66.1
1600S162-68 ¹	0.0713	33	1.406	4.78	40.913	5.114	5.394	0.268	0.436	37.533	3.896	76.99	64.10	2062	2062	2.383	14.816	-0.601	0.415	5.445	0.988	35.2
1600S162-68 ¹	0.0713	50	1.406	4.78	40.913	5.114	5.394	0.268	0.436	35.986	3.624	108.49	81.87	2062	2062	2.383	14.816	-0.601	0.415	5.445	0.988	28.6
1600S162-97	0.1017	33	1.983	6.75	56.824	7.103	5.354	0.347	0.418	55.563	6.173	121.97	110.13	6043	6043	6.835	19.807	-0.577	0.401	5.401	0.989	34.4
1600S162-97	0.1017	50	1.983	6.75	56.824	7.103	5.354	0.347	0.418	53.725	5.738	171.79	142.80	6043	6043	6.835	19.807	-0.577	0.401	5.401	0.989	27.9
1600S162-118	0.1242	33	2.400	8.17	68.014	8.502	5.323	0.393	0.405	68.014	7.920	156.50	147.57	11088	11088	12.342	23.035	-0.559	0.391	5.368	0.989	33.7
1600S162-118	0.1242	50	2.400	8.17	68.014	8.502	5.323	0.393	0.405	66.535	7.399	221.51	193.72	11088	11088	12.342	23.035	-0.559	0.391	5.368	0.989	27.3
1600S200-68 ¹	0.0713	33	1.477	5.03	45.291	5.661	5.537	0.506	0.585	41.916	4.431	87.56	75.11	2062	2062	2.503	27.155	-0.862	0.584	5.634	0.977	45.7
1600S200-68 ¹	0.0713	50	1.477	5.03	45.291	5.661	5.537	0.506	0.585	40.523	4.045	121.11	96.27	2062	2062	2.503	27.155	-0.862	0.584	5.634	0.977	37.1
1600S200-97	0.1017	33	2.084	7.09	63.050	7.881	5.500	0.670	0.567	61.757	6.938	137.10	126.78	6043	6043	7.186	36.744	-0.835	0.569	5.592	0.978	44.9
1600S200-97	0.1017	50	2.084	7.09	63.050	7.881	5.500	0.670	0.567	59.933	6.500	194.61	164.99	6043	6043	7.186	36.744	-0.835	0.569	5.592	0.978	36.4
1600S200-118	0.1242	33	2.525	8.59	75.601	9.450	5.472	0.773	0.553	75.601	8.859	175.05	168.39	11088	11088	12.981	43.132	-0.815	0.558	5.560	0.979	44.3
1600S200-118	0.1242	50	2.525	8.59	75.601	9.450	5.472	0.773	0.553	74.084	8.331	249.44	221.86	11088	11088	12.981	43.132	-0.815	0.558	5.560	0.979	35.9
1600S250-68 ¹	0.0713	33	1.549	5.27	49.814	6.227	5.672	0.889	0.758	46.607	4.792	94.70	81.69	2062	2062	2.624	46.230	-1.167	0.778	5.840	0.960	57.3
1600S250-68 ¹	0.0713	50	1.549	5.27	49.814	6.227	5.672	0.889	0.758	45.550	4.092	122.51	104.63	2062	2062	2.624	46.230	-1.167	0.778	5.840	0.960	46.5
1600S250-97	0.1017	33	2.186	7.44	69.476	8.685	5.638	1.192	0.738	68.160	7.728	152.72	137.47	6043	6043	7.536	63.082	-1.138	0.762	5.799	0.962	56.5
1600S250-97	0.1017	50	2.186	7.44	69.476	8.685	5.638	1.192	0.738	66.577	6.983	209.06	178.60	6043	6043	7.536	63.082	-1.138	0.762	5.799	0.962	45.9
1600S250-118	0.1242	33	2.649	9.01	83.427	10.428	5.612	1.389	0.724	83.427	9.827	194.19	182.65	11088	11088	13.620	74.524	-1.116	0.750	5.768	0.963	56.0
1600S250-118	0.1242	50	2.649	9.01	83.427	10.428	5.612	1.389	0.724	81.923	9.222	276.12	240.07	11088	11088	13.620	74.524	-1.116	0.750	5.768	0.963	45.4
1600S300-68 ¹	0.0713	33	1.620	5.51	54.336	6.792	5.792	1.411	0.933	51.468	4.892	96.68	86.46	2062	2062	2.745	71.608	-1.494	0.981	6.054	0.939	68.7
1600S300-68 ¹	0.0713	50	1.620	5.51	54.336	6.792	5.792	1.411	0.933	49.107	4.210	126.04	110.54	2062	2062	2.745	71.608	-1.494	0.981	6.054	0.939	55.8
1600S300-97	0.1017	33	2.288	7.78	75.903	9.488	5.760	1.909	0.914	74.741	8.203	162.09	145.38	6043	6043	7.887	98.275	-1.463	0.964	6.013	0.941	68.0
1600S300-97	0.1017	50	2.288	7.78	75.903	9.488	5.760	1.909	0.914	72.666	7.391	221.28	188.32	6043	6043	7.887	98.275	-1.463	0.964	6.013	0.941	55.1
1600S300-118	0.1242	33	2.773	9.44	91.253	11.407	5.737	2.239	0.899	91.253	10.637	210.19	193.46	11088	11088	14.258	116.606	-1.439	0.951	5.982	0.942	67.4
1600S300-118	0.1242	50	2.773	9.44	91.253	11.407	5.737	2.239	0.899	89.913	9.835	294.48	253.24	11088	11088	14.258	116.606	-1.439	0.951	5.982	0.942	54.7
1600S350-68 ¹	0.0713	33	1.745	5.94	61.622	7.703	5.943	2.490	1.195	58.537	6.041	119.38	108.05	2062	2062	2.957	127.370	-2.055	1.322	6.401	0.897	85.8
1600S350-68 ¹	0.0713	50	1.745	5.94	61.622	7.703	5.943	2.490	1.195	57.437	5.180	155.08	138.99	2062	2062	2.957	127.370	-2.055	1.322	6.401	0.897	69.7
1600S350-97	0.1017	33	2.466	8.39	86.270	10.784	5.915	3.410	1.176	84.926	9.771	193.09	176.65	6043	6043	8.501	175.896	-2.022	1.304	6.361	0.899	85.2
1600S350-97	0.1017	50	2.466	8.39	86.270	10.784	5.915	3.410	1.176	83.691	8.382	250.96	230.33	6043	6043	8.501	175.896	-2.022	1.304	6.361	0.899	69.1
1600S350-118	0.1242	33	2.990	10.18	103.892	12.987	5.894	4.038	1.162	103.892	12.367	244.38	231.20	11088	11088	15.376	209.692	-1.998	1.291	6.331	0.900	84.8
1600S350-118	0.1242	50	2.990	10.18	103.892	12.987	5.894	4.038	1.162	102.530	11.305	338.47	304.57	11088	11088	15.376	209.692	-1.998	1.291	6.331	0.900	68.8

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

²Allowable moment includes cold work of forming.

See Table Notes on page 7.



Track (T) Section Properties

Section	Design Thickness (in)	Gross Properties							Effective Prop. (33 ksi)				Effective Prop. (50 ksi)				Torsional Properties					
		Area (in ²)	Weight (lb/ft)	I _x (in ⁴)	S _x (in ³)	R _x (in)	I _y (in ⁴)	R _y (in)	I _{xe} (in ⁴)	S _{xe} (in ³)	Ma (in-k)	Vag (lb)	I _{xe} (in ⁴)	S _{xe} (in ³)	Ma (in-k)	Vag (lb)	Jx1000 (in ⁴)	Cw (in ⁶)	Xo (in)	m (in)	Ro (in)	β
1200T200-97	0.1017	1.625	5.53	29.805	4.824	4.283	0.410	0.502	29.805	4.298	84.93	7902	28.959	3.819	114.35	7902	5.602	11.945	-0.714	0.476	4.371	0.973
1200T200-118	0.1242	1.984	6.75	36.530	5.876	4.291	0.492	0.498	-	-	-	-	36.530	5.278	158.02	14434	10.201	14.513	-0.706	0.471	4.377	0.974
1200T250-54 ¹	0.0566	0.962	3.27	18.550	3.041	4.392	0.445	0.681	15.021	1.617	31.95	1354	13.756	1.374	41.14	1354	1.027	12.339	-1.039	0.680	4.565	0.948
1200T250-68	0.0713	1.211	4.12	23.435	3.826	4.399	0.556	0.678	20.720	2.451	48.44	2713	19.255	2.106	63.04	2713	2.052	15.529	-1.033	0.676	4.569	0.949
1200T250-97	0.1017	1.727	5.88	33.623	5.442	4.413	0.780	0.672	32.479	4.489	88.70	7902	31.310	3.954	118.37	7902	5.953	22.101	-1.021	0.668	4.579	0.950
1200T250-118	0.1242	2.108	7.17	41.236	6.632	4.423	0.940	0.668	40.963	6.138	121.28	13189	39.954	5.519	165.24	14434	10.839	26.943	-1.013	0.662	4.586	0.951
1400T125-54 ¹	0.0566	0.933	3.18	19.977	2.814	4.627	0.061	0.256	17.725	1.767	34.91	1160	16.407	1.517	45.42	1160	0.997	2.559	-0.299	0.209	4.643	0.996
1400T125-68	0.0713	1.175	4.00	25.196	3.536	4.630	0.076	0.254	23.552	2.632	52.01	2322	22.620	2.293	68.64	2322	1.992	3.189	-0.296	0.206	4.646	0.996
1400T125-97	0.1017	1.676	5.70	36.024	5.019	4.636	0.104	0.249	35.475	4.489	88.53	6761	34.588	4.134	123.76	6761	5.778	4.483	-0.289	0.201	4.652	0.996
1400T125-118	0.1242	2.046	6.96	44.068	6.106	4.641	0.123	0.245	-	-	-	-	43.752	5.453	163.27	12344	10.520	5.334	-0.284	0.197	4.656	0.996
1400T150-54 ¹	0.0566	0.962	3.27	21.392	3.013	4.717	0.105	0.330	18.620	1.810	35.76	1160	17.153	1.547	46.33	1160	1.027	4.280	-0.410	0.283	4.746	0.993
1400T150-68	0.0713	1.211	4.12	26.987	3.788	4.721	0.130	0.327	25.409	2.717	53.68	2322	23.803	2.352	70.42	2322	2.052	5.349	-0.407	0.280	4.749	0.993
1400T150-97	0.1017	1.727	5.88	38.607	5.379	4.729	0.180	0.322	38.340	4.834	95.52	6761	37.285	4.332	129.69	6761	5.953	7.503	-0.399	0.275	4.756	0.993
1400T150-118	0.1242	2.108	7.17	47.247	6.546	4.734	0.214	0.319	-	-	-	-	46.911	5.887	176.24	12344	10.839	9.048	-0.393	0.270	4.761	0.993
1400T200-54 ¹	0.0566	1.018	3.46	24.221	3.412	4.878	0.242	0.487	20.098	1.868	36.92	1160	18.387	1.589	47.56	1160	1.087	9.520	-0.665	0.449	4.947	0.982
1400T200-68	0.0713	1.282	4.36	30.571	4.291	4.883	0.301	0.485	27.707	2.830	55.93	2322	25.738	2.432	72.81	2322	2.173	11.942	-0.661	0.446	4.951	0.982
1400T200-97	0.1017	1.828	6.22	43.773	6.098	4.893	0.420	0.479	43.679	5.174	102.24	6761	41.749	4.559	136.48	6761	6.304	16.883	-0.651	0.439	4.959	0.983
1400T200-118	0.1242	2.232	7.60	53.606	7.427	4.900	0.504	0.475	-	-	-	-	53.453	6.354	190.23	12344	11.478	20.479	-0.644	0.434	4.965	0.983
1400T250-54 ¹	0.0566	1.075	3.66	27.051	3.811	5.017	0.458	0.653	21.342	1.907	37.68	1160	19.421	1.616	48.38	1160	1.148	17.550	-0.954	0.633	5.149	0.966
1400T250-68	0.0713	1.354	4.61	34.154	4.794	5.023	0.573	0.651	29.615	2.906	57.42	2322	27.352	2.485	74.40	2322	2.294	22.063	-0.949	0.629	5.153	0.966
1400T250-97	0.1017	1.930	6.57	48.939	6.818	5.036	0.803	0.645	47.449	5.386	106.42	6761	44.883	4.708	140.94	6761	6.654	31.333	-0.938	0.622	5.163	0.967
1400T250-118	0.1242	2.357	8.02	59.965	8.308	5.045	0.967	0.641	59.734	7.439	146.99	12344	58.277	6.622	198.25	12344	12.117	38.137	-0.930	0.616	5.169	0.968
1600T125-68	0.0713	1.318	4.48	35.916	4.421	5.220	0.077	0.241	32.443	3.058	60.42	2030	31.004	2.651	79.37	2030	2.233	4.273	-0.268	0.189	5.233	0.997
1600T125-97	0.1017	1.879	6.39	51.322	6.276	5.226	0.105	0.237	49.844	5.273	104.19	5908	47.830	4.825	144.47	5908	6.479	9.945	-0.262	0.184	5.238	0.997
1600T125-118	0.1242	2.294	7.81	62.755	7.637	5.230	0.125	0.233	-	-	-	-	60.930	6.420	192.21	10783	11.797	7.126	-0.257	0.181	5.241	0.998
1600T150-68	0.0713	1.354	4.61	38.249	4.708	5.316	0.132	0.312	34.945	3.152	62.28	2030	32.537	2.717	81.34	2030	2.294	7.188	-0.371	0.258	5.338	0.995
1600T150-97	0.1017	1.930	6.57	54.681	6.686	5.323	0.182	0.307	53.172	5.674	112.12	5908	51.382	5.047	151.11	5908	6.654	10.066	-0.363	0.253	5.344	0.995
1600T150-97	0.1242	2.357	8.02	66.886	8.140	5.328	0.218	0.304	-	-	-	-	65.023	6.911	206.91	10783	12.117	12.124	-0.358	0.249	5.348	0.996
1600T200-68	0.0713	1.425	4.85	42.914	5.282	5.488	0.307	0.464	37.904	3.277	64.76	2030	35.009	2.805	83.99	2030	2.415	16.123	-0.607	0.414	5.541	0.988
1600T200-97	0.1017	2.032	6.91	61.398	7.508	5.497	0.428	0.459	60.199	6.052	119.6	5908	57.292	5.298	158.62	5908	7.005	22.755	-0.598	0.408	5.549	0.988
1600T200-118	0.1242	2.481	8.44	75.146	9.145	5.504	0.514	0.455	-	-	-	-	73.613	7.433	222.53	10783	12.755	27.568	-0.592	0.403	5.554	0.989
1600T250-68 ¹	0.0713	1.496	5.09	47.580	5.856	5.639	0.586	0.626	40.337	3.360	66.40	2030	37.060	2.864	85.75	2030	2.535	29.878	-0.878	0.588	5.741	0.977
1600T250-97	0.1017	2.134	7.26	68.116	8.329	5.650	0.821	0.620	65.163	6.285	124.19	5908	61.325	5.461	163.51	5908	7.355	42.361	-0.868	0.581	5.750	0.977
1600T250-118	0.1242	2.605	8.86	83.406	10.150	5.659	0.989	0.616	83.311	8.747	172.84	10783	79.965	7.727	231.83	10783	13.394	51.497	-0.860	0.576	5.757	0.978

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

²Allowable moment includes cold work of forming.

³Where web height-to-thickness ratio exceeds 260 or flange width-to-thickness ratio exceeds 60, effective properties are not calculated. See AISI S100 Section B1. Application of these products in a non-composite design shall be approved by a design professional.

See Table Notes on page 15.

Table Notes

1. Allowable composite limiting heights are calculated using ICC-ES AC86-2012.
2. No fasteners are required for attaching the stud to the track.
3. Stud end bearing must be a minimum of 1 inch.
4. Composite limiting heights are based on a single layer of 5/8" type X gypsum board installed in the vertical orientation to both sides of the wall over full height using minimum No. 6 Type S Drywall screws spaced a maximum of 12" oc for studs at 24" spacing, and 16" oc for studs at 16" and 12" spacing.

Section	Fy (ksi)	Spacing (in) oc	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	33	12	13' 0" f	11' 1"	9' 10"	10' 8" f	9' 8"	8' 7"	9' 3" f	8' 9"	7' 9"
		16	11' 3" f	10' 1"	8' 11"	9' 3" f	8' 9"	7' 9"	8' 0" f	7' 11"	-
		24	9' 3" f	8' 9"	7' 9"	-	-	-	-	-	-
162S125-27	33	12	14' 9"	11' 8"	10' 2"	12' 10"	10' 2"	8' 7"	11' 8"	9' 1"	7' 6"
		16	13' 4"	10' 7"	9' 1"	11' 8"	9' 1"	7' 6"	10' 7"	7' 11"	-
		24	11' 8"	9' 1"	-	10' 2"	-	-	9' 1"	-	-
162S125-30	33	12	14' 11"	11' 10"	10' 4"	13' 1"	10' 4"	8' 11"	11' 10"	9' 4"	7' 11"
		16	13' 7"	10' 9"	9' 4"	11' 10"	9' 4"	7' 11"	10' 9"	8' 3"	-
		24	11' 10"	9' 4"	7' 11"	10' 4"	7' 11"	-	9' 4"	-	-
250S125-18	33	12	16' 4" f	14' 2"	12' 9"	13' 4" f	12' 4"	11' 2"	11' 7" f	11' 3"	10' 2"
		16	14' 2" f	12' 10"	11' 7"	11' 7" f	11' 3"	10' 2"	10' 0" f	10' 0" f	9' 0"
		24	11' 7" f	11' 3"	10' 2"	9' 5" f	9' 5" f	8' 6"	8' 2" f	8' 2" f	-
250S125-27	33	12	18' 7"	15' 4"	13' 9"	16' 3"	13' 5"	12' 0"	14' 9"	12' 2"	10' 11"
		16	16' 10"	13' 11"	12' 5"	14' 9"	12' 2"	10' 11"	13' 5"	11' 1"	9' 11"
		24	14' 9"	12' 2"	10' 11"	12' 11"	10' 8"	9' 4"	11' 3" f	9' 8"	8' 1"
250S125-30	33	12	18' 5"	15' 10"	14' 1"	16' 1"	13' 10"	12' 4"	14' 7"	12' 7"	11' 2"
		16	16' 9"	14' 5"	12' 10"	14' 7"	12' 7"	11' 2"	13' 3"	11' 5"	10' 2"
		24	14' 7"	12' 7"	11' 2"	12' 9"	11' 0"	9' 9"	11' 7"	10' 0"	8' 8"
250S125-33	33	12	19' 8"	15' 8"	13' 8"	17' 3"	13' 8"	11' 11"	15' 8"	12' 5"	10' 10"
		16	17' 11"	14' 3"	12' 5"	15' 8"	12' 5"	10' 10"	14' 3"	11' 3"	9' 10"
		24	15' 8"	12' 5"	10' 10"	13' 8"	10' 10"	9' 5"	12' 4" f	9' 10"	8' 4"
350S125-18	33	12	18' 3" f	16' 4"	14' 4"	14' 11" f	14' 4"	12' 6"	12' 11" f	12' 11" f	11' 4"
		16	15' 10" f	14' 10"	13' 0"	12' 11" f	12' 11" f	11' 4"	11' 2" f	11' 2" f	10' 3"
		24	12' 11" f	12' 11" f	11' 4"	10' 7" f	10' 7" f	9' 11"	9' 2" f	9' 2" f	9' 0"
350S125-27	33	12	22' 6"	17' 11"	15' 7"	19' 8"	15' 7"	13' 8"	17' 11"	14' 2"	12' 4"
		16	20' 6"	16' 3"	14' 2"	17' 11"	14' 2"	12' 4"	15' 10" f	12' 11"	11' 2"
		24	17' 11"	14' 2"	12' 4"	14' 11" f	12' 4"	10' 8"	12' 11" f	11' 2"	-
350S125-30	33	12	22' 6"	17' 11"	15' 8"	19' 8"	15' 8"	13' 8"	17' 11"	14' 2"	12' 4"
		16	20' 6"	16' 3"	14' 2"	17' 11"	14' 2"	12' 4"	16' 3"	12' 11"	11' 1"
		24	17' 11"	14' 2"	12' 4"	15' 8"	12' 4"	10' 7"	13' 9" f	11' 1"	-
350S125-33	33	12	23' 0"	18' 3"	15' 11"	20' 1"	15' 11"	13' 11"	18' 3"	14' 6"	12' 8"
		16	20' 11"	16' 7"	14' 6"	18' 3"	14' 6"	12' 8"	16' 7"	13' 2"	11' 4"
		24	18' 3"	14' 6"	12' 8"	15' 11"	12' 8"	10' 10"	14' 4" f	11' 4"	9' 8"
362S125-18	33	12	18' 8" f	16' 8"	14' 7"	15' 3" f	14' 7"	12' 9"	13' 2" f	13' 2" f	11' 6"
		16	16' 2" f	15' 2"	13' 3"	13' 2" f	13' 2" f	11' 6"	11' 5" f	11' 5" f	10' 4"
		24	13' 2" f	13' 2" f	11' 6"	10' 9" f	10' 9" f	9' 11"	9' 4" f	9' 4" f	8' 11"
362S125-27	33	12	22' 10"	18' 2"	15' 10"	19' 11"	15' 10"	13' 10"	18' 2"	14' 5"	12' 6"
		16	20' 9"	16' 6"	14' 5"	18' 2"	14' 5"	12' 6"	15' 9" f	13' 1"	11' 1"
		24	18' 2"	14' 5"	12' 6"	14' 11" f	12' 6"	10' 7"	12' 11" f	11' 1"	-
362S125-30	33	12	22' 10"	18' 3"	16' 4"	19' 11"	16' 0"	14' 3"	18' 1"	14' 6"	12' 11"
		16	20' 8"	16' 7"	14' 10"	18' 1"	14' 6"	12' 11"	16' 5"	13' 2"	11' 6"
		24	18' 1"	14' 6"	12' 11"	15' 9" f	12' 8"	10' 11"	13' 8" f	11' 4"	-
362S125-33	33	12	24' 2"	19' 2"	16' 9"	21' 1"	16' 9"	14' 8"	19' 2"	15' 3"	13' 4"
		16	21' 11"	17' 5"	15' 3"	19' 2"	15' 3"	13' 4"	17' 5"	13' 10"	11' 11"
		24	19' 2"	15' 3"	13' 4"	16' 8" f	13' 4"	11' 4"	14' 5" f	11' 11"	10' 1"

Note: 'f' adjacent to the height value indicates that flexural stress controls the allowable wall height.

Section	Fy (ksi)	Spacing (in) oc	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
400S125-18	33	12	19' 3" f	17' 6"	15' 4"	15' 9" f	15' 4"	13' 4"	13' 8" f	13' 8" f	12' 2"
		16	16' 8" f	15' 11"	13' 11"	13' 8" f	13' 8" f	12' 2"	11' 10" f	11' 10" f	11' 0"
		24	13' 8" f	13' 8" f	12' 2"	11' 2" f	11' 2" f	10' 7"	9' 8" f	9' 8" f	9' 7"
400S125-27	33	12	24' 6"	19' 5"	17' 0"	21' 5"	17' 0"	14' 10"	18' 8" f	15' 5"	13' 6"
		16	22' 3"	17' 8"	15' 5"	18' 8" f	15' 5"	13' 6"	16' 2" f	14' 0"	12' 2"
		24	18' 8" f	15' 5"	13' 6"	15' 3" f	13' 6"	11' 8"	13' 3" f	12' 2"	10' 6"
400S125-30	33	12	24' 6"	19' 5"	17' 0"	21' 5"	17' 0"	14' 10"	19' 5"	15' 5"	13' 6"
		16	22' 3"	17' 8"	15' 5"	19' 5"	15' 5"	13' 6"	17' 5" f	14' 0"	12' 2"
		24	19' 5"	15' 5"	13' 6"	16' 5" f	13' 6"	11' 7"	14' 2" f	12' 2"	10' 4"
400S125-33	33	12	25' 3"	20' 1"	17' 6"	22' 1"	17' 6"	15' 4"	20' 1"	15' 11"	13' 11"
		16	22' 11"	18' 3"	15' 11"	20' 1"	15' 11"	13' 11"	18' 3"	14' 5"	12' 7"
		24	20' 1"	15' 11"	13' 11"	17' 3" f	13' 11"	12' 0"	15' 0" f	12' 7"	10' 9"
550S125-18	33	12	21' 11" f	21' 11" f	19' 6"	17' 10" f	17' 10" f	17' 0"	15' 6" f	15' 6" f	15' 6" f
		16	19' 0" f	19' 0" f	17' 9"	15' 6" f	15' 6" f	15' 6" f	13' 5" f	13' 5" f	13' 5" f
		24	15' 6" f	15' 6" f	15' 6" f	12' 8" f	12' 8" f	12' 8" f	-	-	-
550S125-27	33	12	30' 4"	24' 8"	21' 10"	26' 9" f	21' 10"	19' 4"	23' 2" f	20' 0"	17' 8"
		16	27' 11"	22' 8"	20' 0"	23' 2" f	20' 0"	17' 8"	20' 1" f	18' 4"	16' 0"
		24	23' 2" f	20' 0"	17' 8"	18' 11" f	17' 8"	15' 5"	16' 5" f	16' 0"	-
550S125-30	33	12	30' 5"	24' 10"	22' 0"	27' 0"	22' 0"	19' 5"	24' 10"	20' 2"	17' 10"
		16	28' 0"	22' 9"	20' 2"	24' 10" f	20' 2"	17' 10"	21' 7" f	18' 6"	16' 2"
		24	24' 10"	20' 2"	17' 10"	20' 4" f	17' 10"	15' 7"	17' 7" f	16' 2"	-
600S125-18	33	12	23' 2' f	22' 9"	19' 11"	18' 11" f	18' 11" f	17' 5"	16' 4" f	16' 4" f	15' 10"
		16	20' 1" f	20' 1" f	18' 1"	16' 4" f	16' 4" f	15' 10"	14' 2" f	14' 2" f	14' 2" f
		24	16' 4" f	16' 4" f	15' 10"	13' 4" f	13' 4" f	13' 4" f	-	-	-
600S125-27	33	12	32' 5" f	26' 9"	23' 5"	26' 5" f	23' 5"	20' 5"	22' 11" f	21' 3"	18' 7"
		16	28' 1" f	24' 4"	21' 3"	22' 11" f	21' 3"	18' 7"	19' 10" f	19' 4"	16' 10"
		24	22' 11" f	21' 3"	18' 7"	18' 8" f	18' 7"	16' 1"	16' 2" f	16' 2" f	-
600S125-30	33	12	34' 2"	27' 1"	23' 8"	28' 11" f	23' 8"	20' 8"	25' 0" f	21' 6"	18' 9"
		16	30' 8" f	24' 7"	21' 6"	25' 0" f	21' 6"	18' 9"	21' 8" f	19' 6"	17' 1"
		24	25' 0" f	21' 6"	18' 9"	20' 5" f	18' 9"	16' 5"	17' 8" f	17' 1"	-
600S125-33	33	12	35' 4"	28' 1"	24' 6"	30' 10"	24' 6"	21' 5"	27' 10" f	22' 3"	19' 5"
		16	32' 1" f	25' 6"	22' 3"	27' 10" f	22' 3"	19' 5"	24' 1" f	20' 3"	17' 8"
		24	27' 10" f	22' 3"	19' 5"	22' 9" f	19' 5"	16' 11"	19' 8" f	17' 8"	-

Note: 'f' adjacent to the height value indicates that flexural stress controls the allowable wall height.
See Table Notes on page 19.

Table Notes

- Five pounds per square foot (psf), 7.5 psf, and 10 psf loads have **not** been reduced for strength or deflection checks; full lateral load is applied.
- Limiting heights are based on steel properties only (non-composite) without the contribution of sheathing to strength and stiffness of the assembly. Properly fastened sheathing is still required for members to be considered fully braced.
- Web crippling check based on 1" end bearing.
- Studs are assumed to be adequately braced at maximum spacing of L_u to develop full allowable moment.
- See page 5 for additional table notes.

Section	F _y (ksi)	L _u (in)	Spacing (in) oc	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	33	29.0	12	9' 0"	7' 8"	6' 8"	7' 4"	6' 8"	5' 10"	6' 4"	6' 1"	5' 4"
			16	7' 9"	6' 11"	6' 1"	6' 4"	6' 1"	5' 4"	5' 6"	5' 6"	4' 10"
			24	6' 4"	6' 1"	5' 4"	5' 2"	5' 2"	4' 8"	4' 6"	4' 6"	4' 3"
162S125-27	33	29.1	12	11' 3"	8' 11"	7' 10"	9' 8"	7' 10"	6' 10"	8' 4"	7' 1"	6' 3"
			16	10' 3"	8' 2"	7' 1"	8' 4"	7' 1"	6' 3"	7' 3"	6' 5"	5' 8"
			24	8' 4"	7' 1"	6' 3"	6' 10"	6' 3"	5' 5"	5' 11"	5' 8"	4' 11"
162S125-30	33	29.2	12	11' 8"	9' 3"	8' 1"	10' 2"	8' 1"	7' 1"	8' 11"	7' 4"	6' 5"
			16	10' 7"	8' 5"	7' 4"	8' 11"	7' 4"	6' 5"	7' 9"	6' 8"	5' 10"
			24	8' 11"	7' 4"	6' 5"	7' 3"	6' 5"	5' 7"	6' 4"	5' 10"	5' 1"
162S125-33	33	29.2	12	12' 0"	9' 6"	8' 4"	10' 6"	8' 4"	7' 3"	9' 6"	7' 7"	6' 7"
			16	10' 11"	8' 8"	7' 7"	9' 6"	7' 7"	6' 7"	8' 3"	6' 11"	6' 0"
			24	9' 6"	7' 7"	6' 7"	7' 10"	6' 7"	5' 9"	6' 9"	6' 0"	5' 3"
250S125-18	33	29.0	12	11' 8"	10' 6"	9' 2"	9' 7"	9' 2"	8' 1"	8' 3"	8' 3"	7' 4"
			16	10' 2"	9' 7"	8' 4"	8' 3"	8' 3"	7' 4"	7' 2"	7' 2"	6' 8"
			24	8' 3"	8' 3"	7' 4"	6' 9"	6' 9"	6' 5"	5' 10" ^e	5' 10" ^e	5' 10" ^e
250S125-27	33	28.9	12	15' 7"	12' 4"	10' 10"	12' 9"	10' 10"	9' 5"	11' 0"	9' 10"	8' 7"
			16	13' 6"	11' 3"	9' 10"	11' 0"	9' 10"	8' 7"	9' 7"	8' 11"	7' 10"
			24	11' 0"	9' 10"	8' 7"	9' 0"	8' 7"	7' 6"	7' 10"	7' 10"	6' 10"
250S125-30	33	28.9	12	16' 1"	12' 9"	11' 2"	13' 7"	11' 2"	9' 9"	11' 10"	10' 2"	8' 10"
			16	14' 5"	11' 7"	10' 2"	11' 10"	10' 2"	8' 10"	10' 3"	9' 2"	8' 1"
			24	11' 10"	10' 2"	8' 10"	9' 8"	8' 10"	7' 9"	8' 4"	8' 1"	7' 0"
250S125-33	33	28.9	12	16' 7"	13' 2"	11' 6"	14' 6"	11' 6"	10' 1"	12' 8"	10' 6"	9' 2"
			16	15' 1"	12' 0"	10' 6"	12' 8"	10' 6"	9' 2"	11' 0"	9' 6"	8' 4"
			24	12' 8"	10' 6"	9' 2"	10' 4"	9' 2"	8' 0"	8' 11"	8' 4"	7' 3"
250S125-43	33	28.9	12	18' 1"	14' 4"	12' 6"	15' 10"	12' 6"	10' 11"	14' 4"	11' 5"	9' 11"
			16	16' 5"	13' 0"	11' 5"	14' 4"	11' 5"	9' 11"	13' 0"	10' 4"	9' 0"
			24	14' 4"	11' 5"	9' 11"	12' 4"	9' 11"	8' 8"	10' 8"	9' 0"	7' 11"
350S125-18	33	28.8	12	13' 9"	13' 9"	12' 1"	11' 3"	11' 3"	10' 7"	9' 9"	9' 9"	9' 7"
			16	11' 11"	11' 11"	11' 0"	9' 9"	9' 9"	9' 7"	8' 5" ^e	8' 5" ^e	8' 5" ^e
			24	9' 9"	9' 9"	9' 7"	7' 11" ^e	7' 11" ^e	7' 11" ^e	6' 11" ^e	6' 11" ^e	6' 11" ^e
350S125-27	33	28.7	12	18' 6"	16' 1"	14' 0"	15' 1"	14' 0"	12' 3"	13' 1"	12' 9"	11' 1"
			16	16' 0"	14' 7"	12' 9"	13' 1"	12' 9"	11' 1"	11' 4"	11' 4"	10' 1"
			24	13' 1"	12' 9"	11' 1"	10' 8"	10' 8"	9' 9"	9' 3"	9' 3"	8' 10"
350S125-30	33	28.6	12	19' 11"	16' 7"	14' 6"	16' 3"	14' 6"	12' 8"	14' 1"	13' 2"	11' 6"
			16	17' 3"	15' 0"	13' 2"	14' 1"	13' 2"	11' 6"	12' 2"	11' 11"	10' 5"
			24	14' 1"	13' 2"	11' 6"	11' 6"	11' 6"	10' 0"	9' 11"	9' 11"	9' 1"
350S125-33	33	28.6	12	21' 5"	17' 1"	14' 11"	17' 6"	14' 11"	13' 1"	15' 2"	13' 7"	11' 10"
			16	18' 7"	15' 7"	13' 7"	15' 2"	13' 7"	11' 10"	13' 2"	12' 4"	10' 9"
			24	15' 2"	13' 7"	11' 10"	12' 5"	11' 10"	10' 4"	10' 9"	10' 9"	9' 5"
350S125-43	33	28.4	12	23' 6"	18' 8"	16' 3"	20' 6"	16' 3"	14' 3"	18' 5"	14' 10"	12' 11"
			16	21' 4"	16' 11"	14' 10"	18' 5"	14' 10"	12' 11"	16' 0"	13' 5"	11' 9"
			24	18' 5"	14' 10"	12' 11"	15' 1"	12' 11"	11' 4"	13' 0"	11' 9"	10' 3"
350S125-54	50	22.9	12	25' 1"	19' 11"	17' 5"	21' 11"	17' 5"	15' 2"	19' 11"	15' 10"	13' 10"
			16	22' 10"	18' 1"	15' 10"	19' 11"	15' 10"	13' 10"	18' 1"	14' 4"	12' 7"
			24	19' 11"	15' 10"	13' 10"	17' 5"	13' 10"	12' 1"	15' 10"	12' 7"	11' 0"
350S125-68	50	22.8	12	26' 10"	21' 4"	18' 7"	23' 5"	18' 7"	16' 3"	21' 4"	16' 11"	14' 9"
			16	24' 5"	19' 4"	16' 11"	21' 4"	16' 11"	14' 9"	19' 4"	15' 4"	13' 5"
			24	21' 4"	16' 11"	14' 9"	18' 7"	14' 9"	12' 11"	16' 11"	13' 5"	11' 9"
362S125-18	33	28.8	12	14' 0"	14' 0"	12' 6"	11' 6"	11' 6"	10' 11"	9' 11" ^e	9' 11" ^e	9' 11" ^e
			16	12' 2"	12' 2"	11' 4"	9' 11" ^e	9' 11" ^e	9' 11" ^e	8' 7" ^e	8' 7" ^e	8' 7" ^e
			24	9' 11" ^e	9' 11" ^e	9' 11" ^e	8' 1" ^e	8' 1" ^e	8' 1" ^e	7' 0" ^e	7' 0" ^e	7' 0" ^e
362S125-27	33	28.6	12	18' 10"	16' 6"	14' 5"	15' 5"	14' 5"	12' 7"	13' 4"	13' 1"	11' 5"
			16	16' 4"	15' 0"	13' 1"	13' 4"	13' 1"	11' 5"	11' 7"	11' 7"	10' 5"
			24	13' 4"	13' 1"	11' 5"	10' 11"	10' 11"	10' 0"	9' 5"	9' 5"	9' 1"
362S125-30	33	28.6	12	20' 3"	17' 0"	14' 10"	16' 7"	14' 10"	13' 0"	14' 4"	13' 6"	11' 10"
			16	17' 7"	15' 6"	13' 6"	14' 4"	13' 6"	11' 10"	12' 5"	12' 3"	10' 9"
			24	14' 4"	13' 6"	11' 10"	11' 8"	11' 8"	10' 4"	10' 4"	10' 2"	9' 4"
362S125-33	33	28.5	12	21' 11"	17' 7"	15' 4"	17' 10"	15' 4"	13' 5"	15' 6"	14' 0"	12' 2"
			16	18' 11"	16' 0"	14' 0"	15' 6"	14' 0"	12' 2"	13' 5"	12' 8"	11' 1"
			24	15' 6"	14' 0"	12' 2"	12' 8"	12' 2"	10' 8"	10' 11"	10' 11"	9' 8"
362S125-43	33	28.4	12	24' 2"	19' 2"	16' 9"	21' 1"	16' 9"	14' 8"	18' 10"	15' 3"	13' 4"
			16	21' 11"	17' 5"	15' 3"	18' 10"	15' 3"	13' 4"	16' 4"	13' 10"	12' 1"
			24	18' 10"	15' 3"	13' 4"	15' 4"	13' 4"	11' 7"	13' 4"	12' 1"	10' 7"

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

^e "e" web stiffeners required at ends.



Interior Wall Limiting Heights - Non-Composite - Fully Braced

Section	F _y (ksi)	L _w (in)	Spacing (in) oc	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
362S125-54	50	22.8	12	25' 10"	20' 6"	17' 11"	22' 7"	17' 11"	15' 8"	20' 6"	16' 3"	14' 2"
			16	23' 5"	18' 7"	16' 3"	20' 6"	16' 3"	14' 2"	18' 7"	14' 9"	12' 11"
			24	20' 6"	16' 3"	14' 2"	17' 11"	14' 2"	12' 5"	16' 3"	12' 11"	11' 3"
362S125-68	50	22.7	12	27' 7"	21' 11"	19' 2"	24' 1"	19' 2"	16' 9"	21' 11"	17' 5"	15' 2"
			16	25' 1"	19' 11"	17' 5"	21' 11"	17' 5"	15' 2"	19' 11"	15' 10"	13' 10"
			24	21' 11"	17' 5"	15' 2"	19' 2"	15' 2"	13' 3"	17' 5"	13' 10"	12' 1"
400S125-18 ¹	33	28.7	12	14' 9" ^e	14' 9" ^e	13' 6" ^e	12' 1" ^e	12' 1" ^e	11' 9" ^e	10' 5" ^e	10' 5" ^e	10' 5" ^e
			16	12' 10" ^e	12' 10" ^e	12' 3" ^e	10' 5" ^e	10' 5" ^e	10' 5" ^e	9' 1" ^e	9' 1" ^e	9' 1" ^e
			24	10' 5" ^e	10' 5" ^e	10' 5" ^e	8' 6" ^e	8' 6" ^e	8' 6" ^e	7' 5" ^e	7' 5" ^e	7' 5" ^e
400S125-27	33	28.5	12	19' 11"	17' 10"	15' 7"	16' 3"	15' 7"	13' 7"	14' 1"	14' 1"	12' 4"
			16	17' 3"	16' 2"	14' 2"	14' 1"	14' 1"	12' 4"	12' 2"	12' 2"	11' 3"
			24	14' 1"	14' 1"	12' 4"	11' 6"	11' 6"	10' 9"	9' 11"	9' 11"	9' 10"
400S125-30	33	28.5	12	21' 5"	18' 5"	16' 1"	17' 6"	16' 1"	14' 0"	15' 2"	14' 7"	12' 9"
			16	18' 6"	16' 8"	14' 7"	15' 2"	14' 7"	12' 9"	13' 1"	13' 1"	11' 7"
			24	15' 2"	14' 7"	12' 9"	12' 4"	12' 4"	11' 2"	10' 8"	10' 8"	10' 1"
400S125-33	33	28.4	12	23' 2"	19' 0"	16' 7"	18' 11"	16' 7"	14' 6"	16' 4"	15' 1"	13' 2"
			16	20' 0"	17' 3"	15' 1"	16' 4"	15' 1"	13' 2"	14' 2"	13' 9"	12' 0"
			24	16' 4"	15' 1"	13' 2"	13' 4"	13' 2"	11' 6"	11' 7"	11' 7"	10' 6"
400S125-43	33	28.2	12	26' 1"	20' 9"	18' 1"	22' 10"	18' 1"	15' 10"	19' 11"	16' 5"	14' 4"
			16	23' 9"	18' 10"	16' 5"	19' 11"	16' 5"	14' 4"	17' 3"	14' 11"	13' 1"
			24	19' 11"	16' 5"	14' 4"	16' 3"	14' 4"	12' 7"	14' 1"	13' 1"	11' 5"
400S125-54	50	22.7	12	27' 11"	22' 2"	19' 4"	24' 5"	19' 4"	16' 11"	22' 2"	17' 7"	15' 4"
			16	25' 4"	20' 2"	17' 7"	22' 2"	17' 7"	15' 4"	20' 2"	16' 0"	13' 11"
			24	22' 2"	17' 7"	15' 4"	19' 4"	15' 4"	13' 5"	17' 7"	13' 11"	12' 2"
400S125-68	50	22.5	12	29' 10"	23' 8"	20' 8"	26' 1"	20' 8"	18' 1"	23' 8"	18' 10"	16' 5"
			16	27' 2"	21' 6"	18' 10"	23' 8"	18' 10"	16' 5"	21' 6"	17' 1"	14' 11"
			24	23' 8"	18' 10"	16' 5"	20' 8"	16' 5"	14' 4"	18' 10"	14' 11"	13' 0"
550S125-27 ¹	33	27.9	12	23' 10"	22' 10"	20' 2"	19' 6"	19' 6"	17' 6"	16' 10"	16' 10"	15' 11"
			16	20' 8"	20' 8"	18' 3"	16' 10"	16' 10"	15' 11"	14' 7"	14' 7"	14' 5"
			24	16' 10"	16' 10"	15' 11"	13' 9"	13' 9"	13' 9"	11' 11" ^e	11' 11" ^e	11' 11" ^e
550S125-30	33	27.9	12	25' 8"	23' 9"	20' 10"	21' 0"	20' 8"	18' 2"	18' 2"	16' 6"	16' 6"
			16	22' 3"	21' 6"	18' 11"	18' 2"	18' 2"	16' 6"	15' 9"	15' 9"	14' 11"
			24	18' 2"	18' 2"	16' 6"	14' 10"	14' 10"	14' 4"	12' 10" ^e	12' 10" ^e	12' 10" ^e
550S125-33	33	27.8	12	27' 9"	24' 8"	21' 6"	22' 8"	21' 6"	18' 10"	19' 8"	19' 6"	17' 1"
			16	24' 1"	22' 4"	19' 7"	19' 8"	19' 6"	17' 1"	17' 0"	17' 0"	15' 6"
			24	19' 8"	19' 6"	17' 1"	16' 0"	16' 0"	14' 11"	13' 11"	13' 11"	13' 6"
550S125-43	33	27.6	12	33' 9"	26' 10"	23' 5"	27' 8"	23' 5"	20' 5"	24' 0"	21' 3"	18' 7"
			16	29' 4"	24' 4"	21' 3"	24' 0"	21' 3"	18' 7"	20' 9"	19' 4"	16' 11"
			24	24' 0"	21' 3"	18' 7"	19' 7"	18' 7"	16' 3"	16' 11"	16' 11"	14' 9"
550S125-54	50	22.1	12	36' 2"	28' 9"	25' 1"	31' 7"	25' 1"	21' 11"	28' 9"	22' 9"	19' 11"
			16	32' 10"	26' 1"	22' 9"	28' 9"	22' 9"	19' 11"	26' 1"	20' 8"	18' 1"
			24	28' 9"	22' 9"	19' 11"	25' 1"	19' 11"	17' 5"	22' 9"	18' 1"	15' 10"
550S125-68	50	21.8	12	38' 8"	30' 8"	26' 10"	33' 9"	26' 10"	23' 5"	30' 8"	24' 4"	21' 3"
			16	35' 2"	27' 11"	24' 4"	30' 8"	24' 4"	21' 3"	27' 11"	22' 2"	19' 4"
			24	30' 8"	24' 4"	21' 3"	26' 10"	21' 3"	18' 7"	24' 4"	19' 4"	16' 11"
600S125-27 ¹	33	27.7	12	24' 10" ^e	24' 4" ^e	21' 3" ^e	20' 4" ^e	20' 4" ^e	18' 7" ^e	17' 7" ^e	17' 7" ^e	16' 10" ^e
			16	21' 6" ^e	21' 6" ^e	19' 4" ^e	17' 7" ^e	17' 7" ^e	16' 10" ^e	15' 3" ^e	15' 3" ^e	15' 3" ^e
			24	17' 7" ^e	17' 7" ^e	16' 10" ^e	14' 4" ^e	14' 4" ^e	14' 4" ^e	12' 5" ^e	12' 5" ^e	12' 5" ^e
600S125-30	33	27.6	12	26' 10"	25' 2"	22' 0"	21' 11"	21' 11"	19' 3"	18' 11"	18' 11"	17' 6"
			16	23' 3"	22' 11"	20' 0"	18' 11"	18' 11"	17' 6"	16' 5"	16' 5"	15' 10"
			24	18' 11"	18' 11"	17' 6"	15' 6"	15' 6"	13' 5"	13' 5" ^e	13' 5" ^e	13' 5" ^e
600S125-33	33	27.6	12	29' 0"	26' 2"	22' 10"	23' 8"	22' 10"	19' 11"	20' 6"	20' 6"	18' 1"
			16	25' 2"	23' 9"	20' 9"	20' 6"	20' 6"	18' 1"	17' 9"	17' 9"	16' 6"
			24	20' 6"	20' 6"	18' 1"	16' 9"	16' 9"	15' 10"	14' 6"	14' 6"	14' 5"
600S125-43	33	27.3	12	35' 6"	28' 9"	25' 1"	29' 0"	25' 1"	21' 11"	25' 1"	22' 10"	19' 11"
			16	30' 9"	26' 1"	22' 10"	25' 1"	22' 10"	19' 11"	21' 9"	20' 9"	18' 1"
			24	25' 1"	22' 10"	19' 11"	20' 6"	19' 11"	17' 5"	17' 9"	17' 9"	15' 10"
600S125-54	50	21.9	12	38' 9"	30' 9"	26' 10"	33' 10"	26' 10"	23' 6"	30' 9"	24' 5"	21' 4"
			16	35' 3"	27' 11"	24' 5"	30' 9"	24' 5"	21' 4"	27' 11"	22' 2"	19' 5"
			24	30' 9"	24' 5"	21' 4"	26' 10"	21' 4"	18' 8"	24' 1"	19' 5"	16' 11"
600S125-68	50	21.6	12	41' 7"	33' 0"	28' 10"	36' 4"	28' 10"	25' 2"	33' 0"	26' 2"	22' 10"
			16	37' 9"	30' 0"	26' 2"	33' 0"	26' 2"	22' 10"	30' 0"	23' 9"	20' 9"
			24	33' 0"	26' 2"	22' 10"	28' 10"	22' 10"	20' 0"	26' 2"	20' 9"	18' 2"
800S125-43	33	26.3	12	40' 11"	36' 1"	31' 6"	33' 5"	31' 6"	27' 6"	28' 11"	28' 8"	25' 0"
			16	35' 5"	32' 9"	28' 8"	28' 11"	28' 8"	25' 0"	25' 1"	25' 1"	22' 9"
			24	28' 11"	28' 8"	25' 0"	23' 8"	23' 8"	21' 10"	20' 6"	20' 6"	19' 10"
800S125-54	50	21.1	12	48' 10"	38' 9"	33' 10"	42' 8"	33' 10"	29' 7"	38' 9"	30' 9"	26' 10"
			16	44' 4"	35' 2"	30' 9"	38' 9"	30' 9"	26' 10"	34' 1"	27' 11"	24' 5"
			24	38' 9"	30' 9"	26' 10"	32' 1"	26' 10"	23' 6"	27' 10"	24' 5"	21' 4"
800S125-68	50	20.8	12	52' 10"	41' 11"	36' 8"	46' 2"	36' 8"	32' 0"	41' 11"	33' 4"	29' 1"
			16	48' 0"	38' 1"	33' 4"	41' 11"	33' 4"	29' 1"	38' 1"	30' 3"	26' 5"
			24	41' 11"	33' 4"	29' 1"	36' 8"	29' 1"	25' 5"	33' 3"	26' 5"	23' 1"

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

"e" web stiffeners required at ends.

See Table Notes on page 21.



Curtain Wall Limiting Heights - Single Span

Section	Fy Spacing (ksi) (in) oc	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	
		400S137-43	33	12	27' 4"	21' 8"	18' 11"	16' 11"	14' 9"	12' 6"	15' 4"	13' 5"	11' 4"	13' 9"	12' 6"	10' 6"	12' 7"	11' 9"	9' 11"	11' 7"	11' 2"	9' 5"	10' 10"	10' 8"	9' 0"	9' 9"

"e" web stiffeners required at ends.
See Table Notes on page 25.



Table Notes

1. Allowable axial loads listed in kips (1 kip = 1,000 pounds).
2. Allowable axial loads listed are based on simple one span condition.
3. Allowable axial loads determined in accordance with AISI S100 Section C5 and with the assumption that axial load passes through centroid of the effective section.
4. Allowable axial loads are based on 4'-0" on center bracing.
5. Studs are assumed to be adequately braced at a maximum spacing of L_u to develop full allowable moment, M_a .
6. Listed wind pressures represent calculated designed wind pressure (1.0 W based on 2009 or 0.6 W based on 2012 IBC or later ASD load combinations). For deflection calculations, listed wind pressures have been reduced by 0.70 as allowed by IBC. The 5 psf pressure has not been reduced for deflection checks.
7. End supports have not been checked for web crippling. See web crippling tables on page 51.
8. See page 5 for additional table notes.

5 psf Lateral Load (Interior Walls)																	
Wall Height (ft)	Spacing (in) oc	350S162				362S137				362S162				362S200			
		33 ksi		50 ksi		33 ksi		50 ksi		33 ksi		50 ksi		33 ksi		50 ksi	
		33	43	54	68	33	43	54	68	33	43	54	68	33	43	54	68
8	12	1.81	2.56	3.97	5.08	1.49	2.14	3.32	4.37	1.87	2.65	4.15	5.38	2.25	3.28	5.18	6.68
	16	1.74	2.48	3.90	5.01	1.42	2.07	3.26	4.30	1.80	2.57	4.08	5.31	2.17	3.20	5.10	6.60
	24	1.58	2.32	3.76	4.87	1.29	1.93	3.13	4.17	1.65	2.42	3.94	5.17	2.01	3.03	4.94	6.45
9	12	1.67	2.38	3.65	4.67	1.38	2.01	3.11	4.07	1.74	2.48	3.86	4.99	2.10	3.07	4.79	6.17
	16	1.57	2.28	3.56	4.58	1.30	1.92	3.02	3.99	1.64	2.38	3.77	4.90	2.00	2.96	4.69	6.07
	24	1.39	2.09	3.39	4.41	1.13	1.74	2.87	3.82	1.46	2.19	3.60	4.72	1.80	2.76	4.49	5.88
10	12	1.51	2.18	3.29	4.23	1.26	1.85	2.85	3.73	1.58	2.29	3.53	4.55	1.93	2.84	4.37	5.61
	16	1.40	2.07	3.19	4.12	1.16	1.75	2.75	3.63	1.47	2.17	3.42	4.44	1.81	2.71	4.25	5.49
	24	1.19	1.84	2.99	3.92	0.96	1.54	2.57	3.44	1.26	1.95	3.22	4.23	1.57	2.47	4.01	5.27
12	12	1.18	1.75	2.56	3.31	0.99	1.51	2.27	2.97	1.25	1.87	2.79	3.60	1.56	2.32	3.45	4.44
	16	1.04 ⁴	1.61	2.44	3.18	0.86 ⁴	1.37	2.15	2.85	1.11	1.72	2.66	3.47	1.40	2.16	3.30	4.30
	24	0.79 ³	1.34 ³	2.21	2.94	0.63 ³	1.12 ³	1.93 ⁴	2.62	0.86 ³	1.44 ⁴	2.42	3.22	1.12 ³	1.86	3.03	4.03
14	12	0.86 ³	1.33	1.95	2.54	0.72 ³	1.15 ⁴	1.75	2.30	0.93 ⁴	1.44	2.14	2.78	1.18	1.81	2.64	3.43
	16	0.71 ³	1.17 ³	1.82 ⁴	2.40	0.59 ³	1.00 ³	1.62 ⁴	2.16	0.78 ³	1.28 ⁴	2.00	2.64	1.01 ³	1.63 ⁴	2.48	3.27
	24	0.46 ²	0.89 ³	1.58 ³	2.16 ³	0.34 ²	0.73 ²	1.39 ³	1.92 ³	0.52 ²	0.99 ³	1.75 ³	2.38 ⁴	0.70 ³	1.31 ³	2.19 ³	2.99
16	12	0.59 ³	0.96 ³	1.48 ⁴	1.95	0.50 ³	0.83 ³	1.33 ³	1.76 ⁴	0.65 ³	1.06 ³	1.63 ⁴	2.14	0.84 ³	1.36 ⁴	2.01	2.66
	16	0.45 ²	0.80 ³	1.35 ³	1.81 ³	0.36 ²	0.68 ²	1.20 ³	1.63 ³	0.51 ²	0.90 ³	1.49 ³	2.00 ⁴	0.67 ³	1.18 ³	1.86 ³	2.50
	24	0.21 ¹	0.54 ²	1.12 ²	1.57 ³	0.12 ¹	0.42 ¹	0.97 ²	1.39 ²	0.25 ¹	0.62 ²	1.25 ²	1.74 ³	0.38 ²	0.86 ²	1.58 ³	2.21 ³

5 psf Lateral Load (Interior Walls)																	
Wall Height (ft)	Spacing (in) oc	400S137				400S162				400S200				550S162			
		33 ksi		50 ksi		33 ksi		50 ksi		33 ksi		50 ksi		33 ksi		50 ksi	
		33	43	54	68	33	43	54	68	33	43	54	68	33	43	54	68
8	12	1.61	2.31	3.67	4.98	2.03	2.87	4.62	6.18	2.42	3.55	5.77	7.63	2.39	3.38	5.63	7.45
	16	1.55	2.25	3.61	4.91	1.96	2.80	4.55	6.11	2.34	3.48	5.70	7.56	2.34	3.33	5.58	7.41
	24	1.42	2.12	3.49	4.78	1.82	2.66	4.42	5.97	2.19	3.32	5.54	7.41	2.24	3.23	5.49	7.32
9	12	1.52	2.20	3.49	4.79	1.91	2.72	4.37	5.85	2.28	3.37	5.43	7.19	2.32	3.31	5.55	7.41
	16	1.44	2.12	3.42	4.70	1.82	2.63	4.28	5.76	2.19	3.27	5.33	7.10	2.26	3.24	5.49	7.35
	24	1.28	1.95	3.27	4.54	1.65	2.46	4.11	5.59	2.00	3.08	5.14	6.91	2.13	3.12	5.38	7.24
10	12	1.41	2.07	3.28	4.49	1.77	2.56	4.08	5.47	2.13	3.16	5.04	6.70	2.25	3.22	5.41	7.35
	16	1.31	1.97	3.19	4.38	1.67	2.45	3.97	5.36	2.01	3.04	4.92	6.58	2.16	3.14	5.34	7.27
	24	1.12	1.77	3.00	4.18	1.46	2.23	3.77	5.14	1.79	2.81	4.69	6.34	2.00	2.99	5.19	7.12
12	12	1.16	1.76	2.77	3.75	1.46	2.17	3.41	4.54	1.79	2.69	4.19	5.57	2.05	3.00	5.04	6.87
	16	1.03	1.62	2.64	3.61	1.32	2.02	3.27	4.39	1.63	2.53	4.03	5.41	1.93	2.89	4.93	6.76
	24	0.80 ³	1.36 ⁴	2.40	3.35	1.06 ⁴	1.74	3.01	4.12	1.35	2.22	3.74	5.11	1.71	2.68	4.71	6.54
14	12	0.90 ⁴	1.41	2.22	2.96	1.14	1.75	2.71	3.57	1.43	2.19	3.32	4.39	1.81	2.72	4.54	6.23
	16	0.75 ³	1.25 ⁴	2.08	2.80	0.98 ³	1.58	2.55	3.41	1.25 ⁴	2.00	3.14	4.21	1.66	2.57	4.39	6.07
	24	0.49 ²	0.96 ³	1.81 ³	2.52 ⁴	0.70 ³	1.26 ³	2.27 ⁴	3.10	0.92 ³	1.65 ⁴	2.82	3.88	1.37	2.29	4.11	5.78
16	12	0.65 ³	1.08 ³	1.74	2.30	0.84 ³	1.35 ⁴	2.12	2.78	1.07 ⁴	1.71	2.60	3.42	1.53	2.39	3.95	5.45
	16	0.50 ²	0.91 ³	1.59 ³	2.14 ⁴	0.68 ³	1.17 ³	1.96 ⁴	2.61	0.89 ³	1.51 ⁴	2.41	3.24	1.35	2.20	3.77	5.26
	24	0.23 ¹	0.61 ²	1.32 ³	1.86 ³	0.39 ²	0.85 ²	1.67 ³	2.31 ³	0.56 ²	1.16 ³	2.09 ³	2.91 ⁴	1.02 ³	1.87	3.43	4.90

If no note, deflection meets L/720

¹Deflection meets L/120

²Deflection meets L/240

³Deflection meets L/360

⁴Deflection meets L/600

		15 psf Lateral Load															
Wall Height (ft)	Spacing (in) oc	400S137				400S162				400S200				550S162			
		33 ksi		50 ksi		33 ksi		50 ksi		33 ksi		50 ksi		33 ksi		50 ksi	
		33	43	54	68	33	43	54	68	33	43	54	68	33	43	54	68
8	12	1.24	1.92	3.32	4.60	1.62	2.45	4.22	5.77	1.97	3.10	5.32	7.19	2.08	3.09	5.36	7.19
	16	1.06	1.74	3.14	4.41	1.42	2.25	4.04	5.57	1.76	2.88	5.10	6.97	1.93	2.95	5.22	7.06
	24	0.72	1.38	2.81	4.06	1.05	1.86	3.67	5.18	1.35	2.46	4.68	6.55	1.64	2.68	4.96	6.80
9	12	1.05	1.71	3.05	4.30	1.40	2.20	3.87	5.33	1.73	2.80	4.86	6.63	1.94	2.94	5.20	7.07
	16	0.84	1.49	2.83	4.07	1.17	1.95	3.64	5.08	1.47	2.53	4.59	6.36	1.75	2.77	5.03	6.90
	24	0.44 ⁴	1.06	2.43	3.63	0.73 ⁴	1.49	3.20	4.61	0.99	2.03	4.09	5.84	1.38	2.42	4.69	6.56
10	12	0.86	1.49	2.74	3.89	1.17	1.93	3.48	4.83	1.47	2.48	4.36	6.01	1.77	2.77	4.97	6.90
	16	0.62 ⁴	1.22	2.49	3.62	0.90	1.64	3.21	4.54	1.18	2.17	4.05	5.69	1.54	2.56	4.76	6.69
	24	0.17 ³	0.74 ³	2.03 ⁴	3.11	0.41 ³	1.12 ⁴	2.70	3.99	0.64 ⁴	1.59	3.47	5.09	1.10	2.14	4.34	6.26
12	12	0.48 ³	1.01 ⁴	2.08	2.99	0.72 ⁴	1.37	2.65	3.73	0.96 ⁴	1.81	3.33	4.69	1.39	2.36	4.40	6.22
	16	0.19 ³	0.70 ³	1.78 ⁴	2.67	0.41 ³	1.03 ³	2.33 ⁴	3.38	0.61 ³	1.44 ⁴	2.96	4.31	1.08	2.07	4.10	5.91
	24	-	0.14 ²	1.25 ³	2.09 ³	-	0.43 ³	1.75 ³	2.76 ³	-	0.78 ³	2.31 ³	3.62 ⁴	0.52 ⁴	1.51	3.54	5.32
14	12	0.15 ²	0.58 ³	1.46 ³	2.15 ⁴	0.33 ³	0.86 ³	1.89 ³	2.70	0.50 ³	1.21 ³	2.39 ⁴	3.44	0.97	1.90	3.71	5.36
	16	-	0.25 ²	1.15 ³	1.82 ³	-	0.50 ³	1.56 ³	2.35 ³	0.14 ²	0.81 ³	2.01 ³	3.05 ⁴	0.61 ³	1.53	3.34	4.97
	24	-	-	0.62 ²	1.24 ²	-	-	0.98 ²	1.72 ³	-	0.13 ²	1.36 ²	2.36 ³	-	0.87 ³	2.66 ⁴	4.24
16	12	-	0.23 ²	0.97 ²	1.49 ³	-	0.44 ²	1.30 ³	1.92 ³	0.14 ²	0.71 ³	1.67 ³	2.48 ³	0.58 ³	1.41 ⁴	2.98	4.42
	16	-	-	0.67 ²	1.17 ²	-	-	0.98 ²	1.58 ³	-	0.32 ²	1.30 ²	2.10 ³	0.18 ³	1.00 ³	2.57 ⁴	3.97
	24	-	-	0.16 ¹	0.62 ¹	-	-	0.42 ¹	0.98 ²	-	-	0.68 ¹	1.45 ²	-	0.28 ²	1.83 ³	3.18 ³

		15 psf Lateral Load														
Wall Height (ft)	Spacing (in) oc	600S137					600S162					600S200				
		33 ksi		50 ksi			33 ksi		50 ksi			33 ksi		50 ksi		
		33	43	54	68	97	33	43	54	68	97	33	43	54	68	97
8	12	1.54	2.28	3.62	4.86	7.38	2.14	3.14	5.37	7.22	11.17	2.57	4.01	7.16	9.69	15.37
	16	1.42	2.17	3.53	4.77	7.30	2.00	3.02	5.25	7.10	11.06	2.43	3.86	7.01	9.55	15.23
	24	1.19	1.95	3.34	4.58	7.14	1.73	2.77	5.02	6.87	10.83	2.15	3.56	6.71	9.27	14.95
9	12	1.44	2.18	3.54	4.78	7.31	2.02	3.03	5.26	7.11	11.06	2.43	3.84	6.92	9.43	15.02
	16	1.29	2.04	3.41	4.66	7.21	1.85	2.87	5.11	6.96	10.91	2.26	3.65	6.73	9.25	14.84
	24	1.01	1.76	3.17	4.42	7.00	1.51	2.56	4.81	6.67	10.62	1.90	3.27	6.35	8.89	14.48
10	12	1.33	2.07	3.44	4.68	7.22	1.89	2.91	5.14	6.98	10.93	2.28	3.65	6.65	9.12	14.60
	16	1.15	1.90	3.28	4.53	7.09	1.67	2.71	4.94	6.79	10.74	2.06	3.41	6.41	8.89	14.37
	24	0.80	1.55	2.98	4.23	6.83	1.26	2.32	4.57	6.42	10.37	1.63	2.96	5.94	8.45	13.91
12	12	1.07	1.81	3.20	4.44	7.00	1.54	2.56	4.76	6.66	10.59	1.91	3.19	5.96	8.33	13.50
	16	0.82	1.56	2.97	4.21	6.80	1.25	2.28	4.48	6.37	10.29	1.60	2.86	5.63	8.00	13.16
	24	0.35 ⁴	1.08	2.54	3.78	6.41	0.70	1.75	3.94	5.82	9.73	1.03	2.24	4.98	7.37	12.50
14	12	0.78	1.50	2.89	4.12	6.70	1.15	2.13	4.15	5.95	10.05	1.49	2.65	5.14	7.34	12.10
	16	0.46 ⁴	1.17	2.59	3.81	6.42	0.79	1.78	3.79	5.58	9.63	1.11	2.24	4.71	6.92	11.64
	24	-	0.57 ³	2.02 ⁴	3.22	5.87	0.14 ³	1.12 ⁴	3.11	4.87	8.83	0.42 ³	1.48	3.92	6.13	10.77
16	12	0.46 ³	1.16	2.53	3.73	6.31	0.75 ⁴	1.67	3.45	5.08	8.73	1.05	2.09	4.26	6.25	10.49
	16	-	0.76 ³	2.15 ⁴	3.33	5.92	0.35 ³	1.26 ⁴	3.03	4.64	8.21	0.62 ³	1.62	3.76	5.75	9.94
	24	-	-	1.47 ³	2.61 ³	5.21	-	0.51 ³	2.28 ³	3.82 ⁴	7.28	-	0.76 ³	2.88 ⁴	4.84	8.92

		15 psf Lateral Load														
Wall Height (ft)	Spacing (in) oc	800S137					800S162					800S200				
		33 ksi		50 ksi			33 ksi		50 ksi			33 ksi		50 ksi		
		43	54	68	97	43	54	68	97	118	43	54	68	97	118	
8	12	2.27	3.44	4.62	7.10	3.17	5.26	7.08	11.09	14.16	4.25	7.53	10.09	15.79	20.28	
	16	2.19	3.38	4.56	7.04	3.07	5.18	7.00	11.01	14.09	4.14	7.42	9.99	15.70	20.19	
	24	2.03	3.25	4.44	6.93	2.89	5.01	6.83	10.85	13.95	3.93	7.21	9.80	15.51	20.00	
9	12	2.20	3.39	4.57	7.05	3.09	5.19	7.01	11.02	14.10	4.16	7.44	10.00	15.71	20.20	
	16	2.10	3.31	4.49	6.98	2.97	5.08	6.90	10.92	14.01	4.02	7.30	9.88	15.59	20.08	
	24	1.91	3.14	4.34	6.83	2.73	4.87	6.69	10.71	13.83	3.74	7.02	9.63	15.35	19.84	
10	12	2.13	3.33	4.51	6.99	3.00	5.11	6.93	10.94	14.03	4.06	7.33	9.90	15.61	20.10	
	16	2.01	3.22	4.42	6.90	2.85	4.97	6.80	10.81	13.92	3.88	7.15	9.75	15.46	19.95	
	24	1.76	3.02	4.22	6.72	2.56	4.70	6.53	10.55	13.69	3.54	6.81	9.43	15.16	19.65	
12	12	1.96	3.18	4.37	6.86	2.79	4.91	6.73	10.74	13.85	3.80	7.06	9.66	15.37	19.85	
	16	1.78	3.03	4.23	6.72	2.57	4.71	6.53	10.55	13.68	3.55	6.81	9.42	15.14	19.62	
	24	1.43	2.74	3.95	6.45	2.15	4.31	6.14	10.16	13.33	3.05	6.30	8.95	14.68	19.16	
14	12	1.75	3.00	4.20	6.69	2.53	4.65	6.48	10.48	13.62	3.45	6.63	9.27	15.04	19.52	
	16	1.51	2.80	4.00	6.50	2.24	4.38	6.20	10.20	13.37	3.11	6.28	8.94	14.71	19.18	
	24	1.04	2.40	3.61	6.12	1.68	3.84	5.66	9.65	12.88	2.46	5.59	8.29	14.05	18.52	
16	12	1.51	2.79	3.99	6.48	2.23	4.35	6.16	10.14	13.31	3.02	6.00	8.55	14.22	18.82	
	16	1.20	2.53	3.73	6.22	1.86	3.98	5.80	9.77	12.96	2.59	5.55	8.12	13.78	18.35	
	24	0.61	2.02	3.22	5.73	1.15	3.29	5.09	9.03	12.29	1.79	4.71	7.30	12.92	17.45	

If no note, deflection meets L/20

¹Deflection meets L/120

²Deflection meets L/240

³Deflection meets L/360

⁴Deflection meets L/600

See Table Notes on page 31.

Combined Axial and Lateral Loads



30 psf Lateral Load																	
Wall Height (ft)	Spacing (in) oc	400S137				400S162				400S200				550S162			
		33 ksi		50 ksi		33 ksi		50 ksi		33 ksi		50 ksi		33 ksi		50 ksi	
		33	43	54	68	33	43	54	68	33	43	54	68	33	43	54	68
8	12	0.72	1.38	2.81	4.06	1.05	1.86	3.67	5.18	1.35	2.46	4.68	6.55	1.64	2.68	4.96	6.80
	16	0.40 ⁴	1.04	2.50	3.72	0.70	1.50	3.32	4.81	0.97	2.06	4.28	6.14	1.35	2.41	4.70	6.55
	24	-	0.41 ³	1.90 ⁴	3.07	-	0.81 ⁴	2.66	4.10	0.26 ³	1.30	3.52	5.37	0.79	1.88	4.19	6.05
9	12	0.44 ⁴	1.06	2.43	3.63	0.73 ⁴	1.49	3.2	4.61	0.99	2.03	4.09	5.84	1.38	2.42	4.69	6.56
	16	-	0.67 ³	2.06	3.21	0.33 ³	1.07 ⁴	2.78	4.16	0.55 ⁴	1.56	3.61	5.35	1.03	2.09	4.36	6.23
	24	-	-	1.37 ³	2.45 ³	-	0.28 ³	2.02 ³	3.33 ⁴	-	0.70 ³	2.73 ⁴	4.45	0.35	1.44	3.72	5.59
10	12	0.17 ³	0.74 ³	2.03 ⁴	3.11	0.41 ³	1.12 ⁴	2.70	3.99	0.64 ⁴	1.59	3.47	5.09	1.10	2.14	4.34	6.26
	16	-	0.30 ³	1.61 ³	2.65 ⁴	-	0.64 ³	2.24 ⁴	3.48	0.15 ³	1.07 ³	2.94	4.54	0.69	1.74	3.94	5.85
	24	-	-	0.85 ²	1.80 ³	-	-	1.40 ³	2.57 ³	-	0.13 ³	1.98 ³	3.54 ³	-	0.97 ⁴	3.18	5.07
12	12	-	0.14 ²	1.25 ³	2.09 ³	-	0.43 ³	1.75 ³	2.76 ³	-	0.78 ³	2.31 ³	3.62 ⁴	0.52 ⁴	1.51	3.54	5.32
	16	-	-	0.79 ²	1.58 ³	-	-	1.25 ²	2.20 ³	-	0.20 ²	1.73 ³	3.00 ³	-	0.99 ⁴	3.01	4.76
	24	-	-	-	0.68 ²	-	-	0.36 ¹	1.23 ²	-	-	0.71 ²	1.93 ²	-	-	2.04 ³	3.74 ⁴
14	12	-	-	0.62 ²	1.24 ²	-	-	0.98 ²	1.72 ³	-	0.13 ²	1.36 ²	2.36 ³	-	0.87 ³	2.66 ⁴	4.24
	16	-	-	0.16 ¹	0.73 ¹	-	-	0.48 ¹	1.18 ²	-	-	0.79 ²	1.76 ²	-	0.26 ³	2.05 ³	3.59 ³
	24	-	-	-	-	-	-	-	0.25 ¹	-	-	-	0.74 ¹	-	-	0.96 ²	2.41 ³
16	12	-	-	0.16 ¹	0.62 ¹	-	-	0.42 ¹	0.98 ²	-	-	0.68 ¹	1.45 ²	-	0.28 ²	1.83 ³	3.18 ³
	16	-	-	-	0.15 ¹	-	-	-	0.48 ¹	-	-	0.14 ¹	0.89 ¹	-	-	1.19 ²	2.48 ³
	24	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.26 ²

30 psf Lateral Load																
Wall Height (ft)	Spacing (in) oc	600S137					600S162					600S200				
		33 ksi		50 ksi			33 ksi		50 ksi			33 ksi		50 ksi		
		33	43	54	68	97	33	43	54	68	97	33	43	54	68	97
8	12	1.19	1.95	3.34	4.58	7.14	1.73	2.77	5.02	6.87	10.83	2.15	3.56	6.71	9.27	14.95
	16	0.97	1.73	3.15	4.40	6.99	1.47	2.53	4.79	6.65	10.61	1.88	3.27	6.42	9.00	14.67
	24	0.53	1.30	2.78	4.04	6.67	0.95	2.05	4.33	6.21	10.17	1.34	2.69	5.84	8.45	14.12
9	12	1.01	1.76	3.17	4.42	7.00	1.51	2.56	4.81	6.67	10.62	1.90	3.27	6.35	8.89	14.48
	16	0.73	1.48	2.93	4.18	6.80	1.18	2.25	4.51	6.38	10.34	1.56	2.91	5.98	8.54	14.12
	24	0.19	0.95	2.47	3.72	6.39	0.54	1.65	3.94	5.81	9.77	0.90	2.20	5.26	7.85	13.42
10	12	0.80	1.55	2.98	4.23	6.83	1.26	2.32	4.57	6.42	10.37	1.63	2.96	5.94	8.45	13.91
	16	0.47	1.22	2.69	3.94	6.58	0.86	1.94	4.20	6.06	10.01	1.22	2.51	5.49	8.01	13.47
	24	-	0.57	2.12	3.37	6.07	0.11 ⁴	1.22	3.49	5.36	9.30	0.44	1.67	4.62	7.18	12.60
12	12	0.35 ⁴	1.08	2.54	3.78	6.41	0.70	1.75	3.94	5.82	9.73	1.03	2.24	4.98	7.37	12.50
	16	-	0.63 ⁴	2.13	3.36	6.03	0.19 ³	1.24	3.43	5.30	9.18	0.50 ⁴	1.66	4.37	6.77	11.86
	24	-	-	1.35 ³	2.56 ⁴	5.30	-	0.31 ³	2.47 ⁴	4.31	8.14	-	0.57 ³	3.23	5.65	10.65
14	12	-	0.57 ³	2.02 ⁴	3.22	5.87	0.14 ³	1.12 ⁴	3.11	4.87	8.83	0.42 ³	1.48	3.92	6.13	10.77
	16	-	-	1.50 ³	2.68 ⁴	5.35	-	0.52 ³	2.49 ³	4.21	8.09	-	0.79 ³	3.19 ⁴	5.39	9.97
	24	-	-	0.54 ²	1.68 ³	4.38 ³	-	-	1.38 ³	3.02 ³	6.74 ⁴	-	-	1.88 ³	4.05 ³	8.48
16	12	-	-	1.47 ³	2.61 ³	5.21	-	0.51 ³	2.28 ³	3.82 ⁴	7.28	-	0.76 ³	2.88 ⁴	4.84	8.92
	16	-	-	0.85 ²	1.95 ³	4.56 ³	-	-	1.60 ³	3.09 ³	6.44 ⁴	-	-	2.09 ³	4.03 ³	8.00
	24	-	-	-	0.79 ²	3.38 ³	-	-	0.40 ²	1.80 ²	4.95 ³	-	-	0.70 ²	2.59 ³	6.37 ³

30 psf Lateral Load															
Wall Height (ft)	Spacing (in) oc	800S137				800S162					800S200				
		33 ksi		50 ksi		33 ksi		50 ksi			33 ksi		50 ksi		
		43	54	68	97	43	54	68	97	118	43	54	68	97	118
8	12	2.03	3.25	4.44	6.93	2.89	5.01	6.83	10.85	13.95	3.93	7.21	9.80	15.51	20.00
	16	1.88	3.12	4.32	6.81	2.70	4.84	6.67	10.69	13.81	3.71	6.99	9.60	15.33	19.82
	24	1.57	2.87	4.08	6.59	2.33	4.50	6.34	10.37	13.53	3.28	6.57	9.21	14.96	19.45
9	12	1.91	3.14	4.34	6.83	2.73	4.87	6.69	10.71	13.83	3.74	7.02	9.63	15.35	19.84
	16	1.71	2.98	4.18	6.68	2.50	4.65	6.48	10.51	13.65	3.47	6.75	9.38	15.11	19.60
	24	1.32	2.66	3.88	6.39	2.03	4.22	6.07	10.09	13.29	2.92	6.21	8.88	14.63	19.13
10	12	1.76	3.02	4.22	6.72	2.56	4.70	6.53	10.55	13.69	3.54	6.81	9.43	15.16	19.65
	16	1.52	2.83	4.03	6.54	2.27	4.43	6.27	10.29	13.46	3.20	6.47	9.12	14.85	19.35
	24	1.04	2.43	3.65	6.18	1.70	3.91	5.75	9.78	13.01	2.53	5.80	8.50	14.25	18.75
12	12	1.43	2.74	3.95	6.45	2.15	4.31	6.14	10.16	13.33	3.05	6.30	8.95	14.68	19.16
	16	1.09	2.46	3.67	6.19	1.74	3.93	5.76	9.77	12.99	2.57	5.81	8.49	14.22	18.71
	24	0.42	1.90	3.12	5.66	0.94	3.17	5.01	9.02	12.32	1.64	4.85	7.59	13.33	17.82
14	12	1.04	2.40	3.61	6.12	1.68	3.84	5.66	9.65	12.88	2.46	5.59	8.29	14.05	18.52
	16	0.59	2.02	3.24	5.76	1.14	3.32	5.14	9.12	12.40	1.83	4.94	7.66	13.41	17.87
	24	-	1.28 ⁴	2.50	5.04	0.12 ⁴	2.33	4.14	8.08	11.46	0.64	3.69	6.45	12.17	16.61
16	12	0.61	2.02	3.22	5.73	1.15	3.29	5.09	9.03	12.29	1.79	4.71	7.30	12.92	17.45
	16	-	1.53 ⁴	2.73	5.24	0.49 ⁴	2.63	4.42	8.33	11.65	1.03	3.91	6.52	12.09	16.58
	24	-	0.61 ³	1.81 ³	4.31	-	1.41 ³	3.16 ⁴	6.99	10.41	-	2.43 ⁴	5.06	10.53	14.94

If no note, deflection meets L/720

¹Deflection meets L/120

²Deflection meets L/240

³Deflection meets L/360

⁴Deflection meets L/600

See Table Notes on page 31.

Combined Axial and Lateral Loads



SSMA

35 psf Lateral Load

Wall Height (ft)	Spacing (in) oc	800S137				800S162					800S200				
		33 ksi		50 ksi		33 ksi		50 ksi			33 ksi		50 ksi		
		43	54	68	97	43	54	68	97	118	43	54	68	97	118
8	12	1.96	3.19	4.38	6.87	2.79	4.92	6.75	10.77	13.88	3.82	7.10	9.70	15.42	19.91
	16	1.78	3.04	4.24	6.74	2.58	4.73	6.56	10.58	13.72	3.57	6.85	9.47	15.20	19.70
	24	1.42	2.75	3.96	6.47	2.15	4.34	6.18	10.21	13.39	3.07	6.36	9.02	14.77	19.27
9	12	1.81	3.06	4.26	6.76	2.61	4.76	6.59	10.61	13.74	3.61	6.89	9.50	15.23	19.72
	16	1.58	2.88	4.08	6.59	2.34	4.51	6.34	10.37	13.53	3.29	6.57	9.21	14.95	19.44
	24	1.13	2.51	3.73	6.25	1.80	4.01	5.86	9.89	13.11	2.66	5.94	8.63	14.39	18.90
10	12	1.64	2.92	4.13	6.63	2.41	4.57	6.40	10.42	13.57	3.37	6.64	9.27	15.00	19.50
	16	1.36	2.69	3.90	6.42	2.08	4.26	6.10	10.12	13.31	2.97	6.25	8.91	14.65	19.15
	24	0.81	2.24	3.46	6.00	1.42	3.65	5.50	9.52	12.78	2.20	5.47	8.19	13.96	18.46
12	12	1.26	2.60	3.81	6.32	1.94	4.12	5.95	9.96	13.16	2.81	6.05	8.72	14.45	18.94
	16	0.86	2.27	3.49	6.01	1.47	3.67	5.51	9.52	12.77	2.25	5.48	8.19	13.92	18.41
	24	0.10	1.62	2.86	5.40	0.56	2.81	4.65	8.65	11.99	1.18	4.38	7.15	12.90	17.38
14	12	0.81	2.21	3.42	5.94	1.40	3.58	5.40	9.39	12.64	2.14	5.26	7.97	13.73	18.19
	16	0.30 ⁴	1.77	2.99	5.51	0.79	2.98	4.80	8.77	12.08	1.42	4.51	7.25	12.99	17.44
	24	-	0.92 ³	2.15	4.68	-	1.85 ⁴	3.65	7.58	11.00	-	3.10	5.87	11.58	16.00
16	12	0.33 ⁴	1.77	2.98	5.48	0.81 ⁴	2.96	4.75	8.68	11.97	1.40	4.30	6.91	12.50	17.01
	16	-	1.21 ³	2.42	4.93	-	2.21 ⁴	3.99	7.87	11.23	0.55 ⁴	3.40	6.02	11.56	16.02
	24	-	0.18 ³	1.37 ³	3.86 ⁴	-	0.84 ³	2.57 ³	6.36	9.82	-	1.75 ³	4.37 ⁴	9.79	14.16

40 psf Lateral Load

Wall Height (ft)	Spacing (in) oc	350S162				362S137				362S162				362S200			
		33 ksi		50 ksi		33 ksi		50 ksi		33 ksi		50 ksi		33 ksi		50 ksi	
		33	43	54	68	33	43	54	68	33	43	54	68	33	43	54	68
8	12	0.43 ³	1.11 ⁴	2.64	3.72	0.24 ³	0.81 ⁴	2.11	3.10	0.50 ⁴	1.21	2.82	4.01	0.74 ⁴	1.71	3.65	5.18
	16	-	0.65 ³	2.20 ⁴	3.26	-	0.38 ³	1.71 ⁴	2.67	-	0.75 ³	2.37 ⁴	3.54	0.25 ³	1.20 ⁴	3.14	4.67
	24	-	-	1.39 ³	2.42 ³	-	-	0.97 ³	1.88 ³	-	-	1.56 ³	2.68 ³	-	0.26 ³	2.19 ³	3.72 ⁴
9	12	-	0.69 ³	2.08 ⁴	3.06	-	0.44 ³	1.66 ³	2.55 ⁴	0.13 ³	0.78 ³	2.27 ⁴	3.34	0.32 ³	1.21 ⁴	2.97	4.37
	16	-	0.17 ³	1.60 ³	2.55 ³	-	-	1.21 ³	2.07 ³	-	0.26 ³	1.77 ³	2.82 ⁴	-	0.64 ³	2.40 ³	3.79
	24	-	-	0.72 ²	1.63 ³	-	-	0.39 ²	1.19 ²	-	-	0.87 ²	1.86 ³	-	-	1.36 ³	2.73 ³
10	12	-	0.29 ³	1.56 ³	2.43 ³	-	-	1.22 ³	2.01 ³	-	0.38 ³	1.74 ³	2.69 ⁴	-	0.74 ³	2.32 ³	3.58 ⁴
	16	-	-	1.05 ²	1.89 ³	-	-	0.74 ²	1.49 ³	-	-	1.21 ³	2.12 ³	-	0.13 ²	1.71 ³	2.95 ³
	24	-	-	0.15 ¹	0.93 ²	-	-	-	0.57 ²	-	-	0.27 ²	1.12 ²	-	-	0.64 ²	1.85 ²
12	12	-	-	0.70 ²	1.35 ²	-	-	0.48 ²	1.06 ²	-	-	0.84 ²	1.55 ²	-	-	1.21 ²	2.19 ³
	16	-	-	0.20 ¹	0.81 ²	-	-	-	0.54 ¹	-	-	0.30 ¹	0.97 ²	-	-	0.60 ²	1.55 ²
	24	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.45 ¹
14	12	-	-	0.13 ¹	0.60 ¹	-	-	-	0.39 ¹	-	-	0.21 ¹	0.73 ¹	-	-	0.43 ¹	1.18 ²
	16	-	-	-	-	-	-	-	-	-	-	0.19 ¹	-	-	-	-	0.58 ¹
	24	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
16	12	-	-	-	0.11 ¹	-	-	-	-	-	-	0.19 ¹	-	-	-	-	0.50 ¹
	16	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	24	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

40 psf Lateral Load

Wall Height (ft)	Spacing (in) oc	400S137				400S162				400S200				550S162			
		33 ksi		50 ksi		33 ksi		50 ksi		33 ksi		50 ksi		33 ksi		50 ksi	
		33	43	54	68	33	43	54	68	33	43	54	68	33	43	54	68
8	12	0.40 ⁴	1.04	2.50	3.72	0.70	1.50	3.32	4.81	0.97	2.06	4.28	6.14	1.35	2.41	4.70	6.55
	16	-	0.62 ⁴	2.10	3.28	0.26 ³	1.03	2.87	4.33	0.49 ⁴	1.55	3.76	5.62	0.98	2.06	4.36	6.21
	24	-	-	1.35 ³	2.47 ⁴	-	0.18 ³	2.04 ⁴	3.44	-	0.61 ³	2.80 ⁴	4.64	0.26	1.37	3.69	5.56
9	12	-	0.67 ³	2.06	3.21	0.33 ³	1.07 ⁴	2.78	4.16	0.55 ⁴	1.56	3.61	5.35	1.03	2.09	4.36	6.23
	16	-	0.18 ³	1.59 ³	2.70 ⁴	-	0.53 ³	2.26 ⁴	3.60	-	0.98 ⁴	3.01	4.74	0.57	1.65	3.93	5.80
	24	-	-	0.74 ³	1.75 ³	-	-	1.32 ³	2.57 ³	-	-	1.93 ³	3.62 ⁴	-	0.82	3.11	4.98
10	12	-	0.30 ³	1.61 ³	2.65 ⁴	-	0.64 ³	2.24 ⁴	3.48	0.15 ³	1.07 ³	2.94	4.54	0.69	1.74	3.94	5.85
	16	-	-	1.09 ³	2.07 ³	-	-	1.67 ³	2.86 ³	-	0.43 ³	2.29 ³	3.86 ⁴	0.16 ⁴	1.22	3.43	5.33
	24	-	-	0.18 ²	1.05 ²	-	-	0.66 ²	1.75 ³	-	-	1.13 ³	2.64 ³	-	0.26 ³	2.46 ⁴	4.32
12	12	-	-	0.79 ²	1.58 ³	-	-	1.25 ²	2.20 ³	-	0.20 ²	1.73 ³	3.00 ³	-	0.99 ⁴	3.01	4.76
	16	-	-	0.23 ¹	0.96 ²	-	-	0.64 ²	1.53 ²	-	-	1.03 ²	2.27 ³	-	0.34 ³	2.35 ³	4.07 ⁴
	24	-	-	-	-	-	-	-	0.38 ¹	-	-	-	1.00 ²	-	-	1.16 ³	2.80 ³
14	12	-	-	0.16 ¹	0.73 ¹	-	-	0.48 ¹	1.18 ²	-	-	0.79 ²	1.76 ²	-	0.26 ³	2.05 ³	3.59 ³
	16	-	-	-	0.14 ¹	-	-	-	0.55 ¹	-	-	0.12 ¹	1.06 ²	-	-	1.31 ²	2.79 ³
	24	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.38 ²
16	12	-	-	-	0.15 ¹	-	-	-	0.48 ¹	-	-	0.14 ¹	0.89 ¹	-	-	1.19 ²	2.48 ³
	16	-	-	-	-	-	-	-	-	-	-	-	0.24 ¹	-	-	0.42 ¹	1.64 ²
	24	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.20 ¹

If no note, deflection meets L/720

¹Deflection meets L/120

²Deflection meets L/240

³Deflection meets L/360

⁴Deflection meets L/600

See Table Notes on page 31.



Combined Axial and Lateral Loads

40 psf Lateral Load																
Wall Height (ft)	Spacing (in) oc	600S137					600S162					600S200				
		33 ksi		50 ksi			33 ksi		50 ksi			33 ksi		50 ksi		
		33	43	54	68	97	33	43	54	68	97	33	43	54	68	97
8	12	0.97	1.73	3.15	4.40	6.99	1.47	2.53	4.79	6.65	10.61	1.88	3.27	6.42	9.00	14.67
	16	0.68	1.44	2.90	4.16	6.78	1.12	2.20	4.48	6.35	10.32	1.52	2.88	6.03	8.63	14.30
	24	0.11	0.88	2.41	3.68	6.36	0.45	1.58	3.89	5.77	9.74	0.81	2.13	5.27	7.92	13.58
9	12	0.73	1.48	2.93	4.18	6.80	1.18	2.25	4.51	6.38	10.34	1.56	2.91	5.98	8.54	14.12
	16	0.37	1.13	2.62	3.88	6.53	0.75	1.85	4.13	6.00	9.96	1.12	2.43	5.49	8.08	13.65
	24	-	0.43	2.01	3.27	6.00	-	1.07	3.38	5.25	9.22	0.27	1.51	4.55	7.18	12.73
10	12	0.47	1.22	2.69	3.94	6.58	0.86	1.94	4.20	6.06	10.01	1.22	2.51	5.49	8.01	13.47
	16	-	0.78	2.31	3.56	6.24	0.36	1.46	3.73	5.59	9.53	0.69	1.94	4.90	7.45	12.89
	24	-	-	1.57 ⁴	2.82	5.58	-	0.54 ⁴	2.82	4.68	8.61	-	0.86	3.78	6.37	11.76
12	12	-	0.63 ⁴	2.13	3.36	6.03	0.19 ³	1.24	3.43	5.30	9.18	0.50 ⁴	1.66	4.37	6.77	11.86
	16	-	-	1.60 ⁴	2.82	5.54	-	0.61 ³	2.78 ⁴	4.63	8.48	-	0.92 ⁴	3.60	6.01	11.05
	24	-	-	0.63 ³	1.82 ³	4.60 ⁴	-	-	1.59 ³	3.39 ³	7.17	-	-	2.19 ³	4.60 ⁴	9.52
14	12	-	-	1.50 ³	2.68 ⁴	5.35	-	0.52 ³	2.49 ³	4.21	8.09	-	0.79 ³	3.19 ⁴	5.39	9.97
	16	-	-	0.84 ³	2.00 ³	4.70 ⁴	-	-	1.74 ³	3.41 ³	7.17	-	-	2.30 ³	4.48 ⁴	8.96
	24	-	-	-	0.77 ²	3.49 ³	-	-	0.38 ²	1.95 ³	5.51 ³	-	-	0.71 ²	2.85 ³	7.15 ³
16	12	-	-	0.85 ²	1.95 ³	4.56 ³	-	-	1.60 ³	3.09 ³	6.44 ⁴	-	-	2.09 ³	4.03 ³	8.00
	16	-	-	0.10 ²	1.16 ²	3.76 ³	-	-	0.78 ²	2.21 ³	5.42 ³	-	-	1.14 ²	3.04 ³	6.89 ³
	24	-	-	-	-	2.34 ²	-	-	-	0.67 ²	3.64 ²	-	-	-	1.32 ²	4.94 ³

40 psf Lateral Load															
Wall Height (ft)	Spacing (in) oc	800S137				800S162					800S200				
		33 ksi		50 ksi		33 ksi		50 ksi			33 ksi		50 ksi		
		43	54	68	97	43	54	68	97	118	43	54	68	97	118
8	12	1.88	3.12	4.32	6.81	2.70	4.84	6.67	10.69	13.81	3.71	6.99	9.60	15.33	19.82
	16	1.67	2.95	4.16	6.66	2.45	4.62	6.45	10.48	13.62	3.42	6.71	9.34	15.08	19.58
	24	1.26	2.62	3.84	6.36	1.97	4.17	6.02	10.05	13.25	2.85	6.15	8.83	14.59	19.09
9	12	1.71	2.98	4.18	6.68	2.50	4.65	6.48	10.51	13.65	3.47	6.75	9.38	15.11	19.60
	16	1.45	2.77	3.98	6.49	2.19	4.37	6.20	10.23	13.41	3.11	6.39	9.05	14.79	19.29
	24	0.94	2.35	3.57	6.11	1.57	3.80	5.65	9.69	12.93	2.39	5.67	8.39	14.16	18.66
10	12	1.52	2.83	4.03	6.54	2.27	4.43	6.27	10.29	13.46	3.20	6.47	9.12	14.85	19.35
	16	1.20	2.56	3.78	6.30	1.89	4.08	5.92	9.95	13.16	2.75	6.02	8.70	14.45	18.95
	24	0.58	2.04	3.28	5.82	1.14	3.39	5.24	9.27	12.56	1.88	5.14	7.89	13.66	18.16
12	12	1.09	2.46	3.67	6.19	1.74	3.93	5.76	9.77	12.99	2.57	5.81	8.49	14.22	18.71
	16	0.64	2.08	3.30	5.84	1.21	3.42	5.26	9.27	12.55	1.94	5.16	7.89	13.63	18.11
	24	-	1.35	2.59	5.14	0.18	2.44	4.29	8.28	11.66	0.74	3.92	6.72	12.46	16.94
14	12	0.59	2.02	3.24	5.76	1.14	3.32	5.14	9.12	12.40	1.83	4.94	7.66	13.41	17.87
	16	-	1.52	2.74	5.27	0.45 ⁴	2.65	4.47	8.42	11.77	1.03	4.10	6.85	12.58	17.02
	24	-	0.57 ³	1.80 ⁴	4.34	-	1.39 ³	3.18	7.09	10.55	-	2.52 ⁴	5.31	10.99	15.40
16	12	-	1.53 ⁴	2.73	5.24	0.49 ⁴	2.63	4.42	8.33	11.65	1.03	3.91	6.52	12.09	16.58
	16	-	0.91 ³	2.11 ⁴	4.62	-	1.81 ³	3.57	7.43	10.82	-	2.91 ⁴	5.53	11.04	15.48
	24	-	-	0.94 ³	3.43 ³	-	0.29 ³	2.00 ³	5.74 ⁴	9.24	-	1.09 ³	3.71 ³	9.07	13.40

50 psf Lateral Load																	
Wall Height (ft)	Spacing (in) oc	350S162				362S137				362S162				362S200			
		33 ksi		50 ksi		33 ksi		50 ksi		33 ksi		50 ksi		33 ksi		50 ksi	
		33	43	54	68	33	43	54	68	33	43	54	68	33	43	54	68
8	12	-	0.76 ³	2.30 ⁴	3.38	-	0.49 ³	1.81 ⁴	2.78	0.16 ³	0.86 ⁴	2.48	3.66	0.37 ³	1.33	3.26	4.79
	16	-	0.21 ³	1.78 ³	2.83 ⁴	-	-	1.33 ³	2.27 ⁴	-	0.31 ³	1.96 ³	3.10 ⁴	-	0.72 ³	2.65 ⁴	4.18
	24	-	-	0.83 ²	1.84 ³	-	-	0.46 ²	1.33 ³	-	-	0.99 ³	2.08 ³	-	-	1.54 ³	3.06 ³
9	12	-	0.29 ³	1.71 ³	2.68 ⁴	-	-	1.32 ³	2.18 ³	-	0.39 ³	1.89 ³	2.94 ⁴	-	0.78 ³	2.54 ⁴	3.93
	16	-	-	1.14 ³	2.07 ³	-	-	0.78 ²	1.61 ³	-	-	1.31 ³	2.32 ³	-	0.11 ³	1.86 ³	3.25 ³
	24	-	-	0.14 ²	1.00 ²	-	-	-	0.60 ²	-	-	0.27 ²	1.21 ²	-	-	0.67 ²	2.02 ³
10	12	-	-	1.17 ³	2.02 ³	-	-	0.85 ²	1.61 ³	-	-	1.34 ³	2.26 ³	-	0.27 ³	1.86 ³	3.11 ³
	16	-	-	0.58 ²	1.39 ²	-	-	0.29 ²	1.01 ²	-	-	0.72 ²	1.61 ³	-	-	1.15 ²	2.38 ³
	24	-	-	-	0.29 ¹	-	-	-	-	-	-	-	0.45 ²	-	-	-	1.10 ²
12	12	-	-	0.32 ¹	0.94 ²	-	-	0.10 ¹	0.66 ²	-	-	0.43 ¹	1.11 ²	-	-	0.75 ²	1.70 ²
	16	-	-	-	0.32 ¹	-	-	-	-	-	-	-	0.46 ¹	-	-	-	0.98 ²
	24	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
14	12	-	-	-	0.21 ¹	-	-	-	-	-	-	-	0.32 ¹	-	-	-	0.72 ¹
	16	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	24	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
16	12	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	16	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	24	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

If no note, deflection meets L/720

¹Deflection meets L/120

²Deflection meets L/240

³Deflection meets L/360

⁴Deflection meets L/600

See Table Notes on page 31.

Combined Axial and Lateral Loads



SSMA

50 psf Lateral Load																	
Wall Height (ft)	Spacing (in) oc	400S137				400S162				400S200				550S162			
		33 ksi		50 ksi		33 ksi		50 ksi		33 ksi		50 ksi		33 ksi		50 ksi	
		33	43	54	68	33	43	54	68	33	43	54	68	33	43	54	68
8	12	0.10 ³	0.72 ⁴	2.19	3.39	0.37 ⁴	1.15	2.98	4.45	0.60 ⁴	1.67	3.89	5.75	1.07	2.14	4.44	6.30
	16	-	0.21 ³	1.71 ⁴	2.87	-	0.59 ³	2.45	3.87	-	1.07 ⁴	3.27	5.12	0.61	1.71	4.02	5.88
	24	-	-	0.82 ³	1.90 ³	-	-	1.46 ³	2.81 ³	-	-	2.13 ³	3.95 ⁴	-	0.88	3.21	5.08
9	12	-	0.29 ³	1.70 ³	2.82 ⁴	-	0.66 ³	2.39 ⁴	3.73	0.14 ³	1.12 ⁴	3.16	4.89	0.69	1.76	4.04	5.91
	16	-	-	1.15 ³	2.21 ³	-	-	1.78 ³	3.07 ⁴	-	0.43 ³	2.46 ³	4.17	0.14 ⁴	1.23	3.52	5.39
	24	-	-	0.15 ²	1.10 ²	-	-	0.68 ²	1.87 ³	-	-	1.19 ³	2.84 ³	-	0.23 ³	2.52 ⁴	4.38
10	12	-	-	1.22 ³	2.21 ³	-	0.20 ³	1.81 ³	3.01 ⁴	-	0.58 ³	2.45 ³	4.03 ⁴	0.29 ⁴	1.35	3.56	5.46
	16	-	-	0.62 ²	1.55 ³	-	-	1.14 ³	2.29 ³	-	-	1.69 ³	3.23 ³	-	0.73 ⁴	2.94	4.82
	24	-	-	-	0.37 ²	-	-	-	1.00 ²	-	-	0.35 ²	1.82 ²	-	-	1.78 ³	3.61 ⁴
12	12	-	-	0.37 ²	1.11 ²	-	-	0.78 ²	1.70 ²	-	-	1.20 ²	2.45 ³	-	0.50 ³	2.51 ⁴	4.24
	16	-	-	-	0.41 ¹	-	-	-	0.94 ²	-	-	0.41 ²	1.61 ²	-	-	1.74 ³	3.42 ³
	24	-	-	-	-	-	-	-	-	-	-	-	0.16 ¹	-	-	0.34 ²	1.93 ³
14	12	-	-	-	0.28 ¹	-	-	-	0.70 ¹	-	-	0.28 ¹	1.23 ²	-	-	1.49 ³	2.98 ³
	16	-	-	-	-	-	-	-	-	-	-	0.43 ¹	-	-	-	0.63 ²	2.06 ²
	24	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.43 ¹
16	12	-	-	-	-	-	-	-	-	-	-	0.39 ¹	-	-	-	0.60 ²	1.84 ²
	16	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.89 ¹
	24	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

50 psf Lateral Load																
Wall Height (ft)	Spacing (in) oc	600S137					600S162					600S200				
		33 ksi		50 ksi			33 ksi		50 ksi			33 ksi		50 ksi		
		33	43	54	68	97	33	43	54	68	97	33	43	54	68	97
8	12	0.75	1.51	2.96	4.22	6.83	1.21	2.28	4.56	6.43	10.39	1.60	2.98	6.12	8.72	14.40
	16	0.39	1.16	2.66	3.92	6.57	0.78	1.89	4.18	6.06	10.03	1.16	2.50	5.64	8.27	13.94
	24	-	0.46	2.06	3.32	6.05	-	1.12	3.45	5.34	9.31	0.30	1.58	4.71	7.39	13.05
9	12	0.46	1.21	2.70	3.95	6.59	0.86	1.95	4.22	6.09	10.05	1.23	2.55	5.61	8.19	13.77
	16	-	0.78	2.31	3.57	6.26	0.34	1.46	3.75	5.62	9.58	0.68	1.97	5.02	7.63	13.19
	24	-	-	1.57	2.83	5.60	-	0.52 ⁴	2.83	4.71	8.67	-	0.85	3.87	6.53	12.06
10	12	0.14 ⁴	0.89	2.40	3.65	6.32	0.48	1.58	3.84	5.71	9.65	0.82	2.08	5.05	7.59	13.03
	16	-	0.37 ⁴	1.93	3.18	5.91	-	0.99	3.27	5.13	9.07	0.19 ⁴	1.39	4.33	6.90	12.32
	24	-	-	1.04 ³	2.29 ⁴	5.10	-	-	2.17 ⁴	4.02	7.94	-	0.10 ⁴	2.99	5.59	10.94
12	12	-	0.20 ³	1.73 ⁴	2.95	5.66	-	0.76 ⁴	2.94	4.79	8.66	-	1.10 ⁴	3.79	6.20	11.25
	16	-	-	1.10 ³	2.31 ⁴	5.07	-	-	2.17 ³	3.99 ⁴	7.81	-	0.23 ³	2.88 ⁴	5.29	10.27
	24	-	-	-	1.11 ³	3.94 ³	-	-	0.77 ³	2.52 ³	6.24 ⁴	-	-	1.21 ³	3.62 ³	8.45
14	12	-	-	1.00 ³	2.16 ³	4.86 ⁴	-	-	1.92 ³	3.60 ³	7.39	-	0.14 ³	2.52 ³	4.70 ⁴	9.21
	16	-	-	0.24 ²	1.36 ³	4.08 ³	-	-	1.03 ²	2.65 ³	6.32 ³	-	-	1.48 ³	3.64 ³	8.03 ⁴
	24	-	-	-	-	2.66 ²	-	-	-	0.97 ²	4.39 ³	-	-	-	1.75 ²	5.91 ³
16	12	-	-	0.28 ²	1.35 ²	3.95 ³	-	-	0.98 ²	2.42 ³	5.67 ³	-	-	1.37 ³	3.28 ³	7.16 ⁴
	16	-	-	-	0.44 ²	3.02 ²	-	-	-	1.41 ²	4.50 ³	-	-	0.28 ²	2.15 ²	5.88 ³
	24	-	-	-	-	1.39 ¹	-	-	-	-	2.47 ²	-	-	-	0.18 ¹	3.64 ²

50 psf Lateral Load																
Wall Height (ft)	Spacing (in) oc	800S137				800S162				800S200						
		33 ksi		50 ksi		33 ksi		50 ksi		33 ksi		50 ksi				
		43	54	68	97	43	54	68	97	118	43	54	68	97	118	
8	12	1.72	3.00	4.20	6.70	2.52	4.67	6.51	10.53	13.67	3.49	6.78	9.41	15.14	19.64	
	16	1.47	2.79	4.00	6.51	2.21	4.39	6.23	10.26	13.44	3.14	6.43	9.09	14.83	19.33	
	24	0.96	2.37	3.60	6.13	1.61	3.84	5.69	9.73	12.97	2.43	5.73	8.45	14.22	18.73	
9	12	1.51	2.82	4.03	6.54	2.26	4.44	6.27	10.30	13.47	3.20	6.48	9.13	14.87	19.37	
	16	1.19	2.56	3.78	6.30	1.88	4.08	5.93	9.96	13.17	2.75	6.03	8.72	14.47	18.97	
	24	0.56	2.04	3.27	5.82	1.12	3.38	5.24	9.28	12.57	1.86	5.15	7.90	13.69	18.20	
10	12	1.28	2.63	3.84	6.36	1.98	4.17	6.01	10.03	13.23	2.86	6.13	8.81	14.55	19.05	
	16	0.89	2.30	3.53	6.06	1.51	3.73	5.58	9.61	12.86	2.31	5.58	8.30	14.06	18.56	
	24	0.12	1.66	2.90	5.46	0.59	2.88	4.74	8.77	12.11	1.24	4.50	7.29	13.07	17.58	
12	12	0.75	2.17	3.40	5.92	1.34	3.55	5.38	9.39	12.66	2.10	5.32	8.04	13.78	18.26	
	16	0.20	1.71	2.94	5.49	0.69	2.93	4.77	8.77	12.10	1.33	4.53	7.30	13.04	17.52	
	24	-	0.82 ⁴	2.07	4.63	-	1.74	3.58	7.56	11.01	-	3.03	5.87	11.61	16.08	
14	12	0.16 ⁴	1.64	2.87	5.39	0.62	2.81	4.63	8.60	11.92	1.22	4.30	7.05	12.79	17.23	
	16	-	1.04 ⁴	2.27	4.80	-	2.01 ⁴	3.81	7.75	11.15	0.26 ⁴	3.29	6.07	11.77	16.20	
	24	-	-	1.12 ³	3.66 ⁴	-	0.50 ³	2.27 ³	6.13	9.67	-	1.41 ³	4.22 ⁴	9.85	14.23	
16	12	-	1.06 ³	2.27 ⁴	4.77	-	2.01 ⁴	3.78	7.65	11.02	0.32 ³	3.15	5.77	11.30	15.75	
	16	-	0.32 ³	1.52 ³	4.01 ⁴	-	1.03 ³	2.76 ³	6.57	10.01	-	1.97 ³	4.60 ⁴	10.03	14.42	
	24	-	-	0.12 ²	2.58 ³	-	-	0.90 ³	4.56 ³	8.12 ⁴	-	-	2.45 ³	7.70 ⁴	11.95	

If no note, deflection meets L/240

¹Deflection meets L/120

²Deflection meets L/240

³Deflection meets L/360

⁴Deflection meets L/600

See Table Notes on page 31.

Table Notes

- Spans are based on continuous support of compression flange over the full length of the joist.
- Spans are based on tension flange laterally braced at maximum spacing of 8'-0".
- For two equal spans, the listed span is the distance from either end to the center support, with the joist continuous over the center support.
- Joists must be braced against rotation at all supports.
- End shear and web crippling capacity have not been reduced for punchouts.
- End web crippling check is based on 3 1/2" end bearing. Where listed allowable spans are followed by "e", web stiffeners are required at end supports.
- Interior support not checked for combined bending and web crippling. Web stiffeners are required at interior supports.
- Shear capacity at interior support has been reduced for the presence of punchouts adjacent to the supports. Combined bending and shear check is based on unreinforced web in accordance with AISI S100 Section C 3.3.1.
- Total load deflection is limited to L/240. Live load deflection limit is as noted.
- Alternate span live loading has been considered for two equal span conditions.
- See page 5 for additional table notes.

Floor Joist Bridging and Bracing Requirements

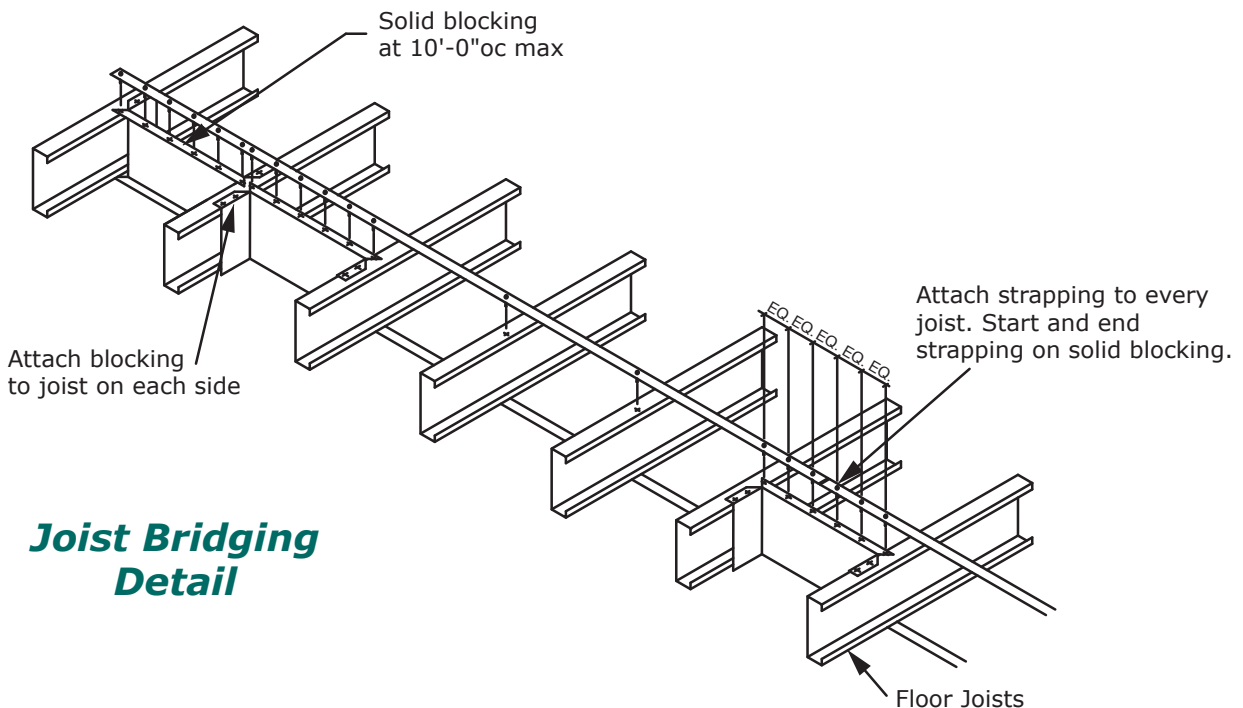
Bracing components shall be designed in accordance with AISI S100 Section D3. The minimum number of rows required is shown in the table. Additional rows of bridging may be required by design.

Span	Minimum Number of Rows
Up to 16'	1 row at mid-span
16' to 24'	2 rows at 1/3 points
24' to 32'	3 rows at 1/4 points

General Note:
All connections should be designed by a licensed design professional.

Blocking Note

Place solid blocking adjacent to all openings and two bays at ends of joist system



Joist Bridging Detail

10 psf Dead Load and 20 psf Live Load

Section	F _y (ksi)	L/360 Live Load Deflection						L/480 Live Load Deflection					
		Single Span			Double Span			Single Span			Double Span		
		Spacing (in) on center			Spacing (in) on center			Spacing (in) on center			Spacing (in) on center		
		12	16	24	12	16	24	12	16	24	12	16	24
600S162-33	33	14' 6"	12' 7" ^e	10' 3" ^e	14' 6"	12' 7"	10' 1"	14' 4"	12' 7" ^e	10' 3" ^e	14' 6"	12' 7"	10' 1"
600S200-33	33	15' 6"	13' 5" ^e	10' 11" ^e	15' 6"	13' 3"	10' 5"	15' 0"	13' 5" ^e	10' 11" ^e	15' 6"	13' 3"	10' 5"
600S162-43	33	17' 2"	15' 6"	12' 8"	17' 11"	15' 6"	12' 8"	15' 7"	14' 2"	12' 5"	17' 6"	15' 6"	12' 8"
600S200-43	33	18' 0"	16' 0"	13' 1"	18' 6"	16' 0"	13' 1"	16' 5"	14' 11"	13' 0"	18' 5"	16' 0"	13' 1"
600S250-43	33	18' 11"	16' 5"	13' 5" ^e	19' 0"	16' 5"	13' 5"	17' 2"	15' 7"	13' 5" ^e	19' 0"	16' 5"	13' 5"
600S162-54	50	18' 5"	16' 9"	14' 7"	20' 8"	18' 9"	16' 5"	16' 9"	15' 2"	13' 3"	18' 9"	17' 1"	14' 11"
600S200-54	50	19' 4"	17' 7"	15' 4"	21' 9"	19' 9"	17' 3"	17' 7"	16' 0"	14' 0"	19' 9"	17' 11"	15' 8"
600S250-54	50	20' 3"	18' 5"	16' 1"	22' 9"	20' 8"	17' 10"	18' 5"	16' 9"	14' 8"	20' 8"	18' 10"	16' 5"
600S162-68	50	19' 9"	17' 11"	15' 8"	22' 2"	20' 2"	17' 7"	17' 11"	16' 4"	14' 3"	20' 2"	18' 4"	16' 0"
600S200-68	50	20' 9"	18' 10"	16' 6"	23' 4"	21' 2"	18' 6"	18' 10"	17' 2"	15' 0"	21' 2"	19' 3"	16' 10"
600S250-68	50	21' 9"	19' 9"	17' 3"	24' 5"	22' 3"	19' 5"	19' 9"	18' 0"	15' 8"	22' 3"	20' 2"	17' 8"
600S162-97	50	21' 11"	19' 11"	17' 4"	24' 7"	22' 4"	19' 6"	19' 11"	18' 1"	15' 9"	22' 4"	20' 3"	17' 9"
600S200-97	50	23' 1"	20' 11"	18' 4"	25' 11"	23' 6"	20' 7"	20' 11"	19' 0"	16' 8"	23' 6"	21' 4"	18' 8"
600S250-97	50	24' 3"	22' 0"	19' 3"	27' 2"	24' 8"	21' 7"	24' 3"	20' 0"	17' 6"	24' 8"	22' 5"	19' 7"
600S162-118	50	23' 1"	21' 0"	18' 4"	25' 11"	23' 7"	20' 7"	21' 0"	19' 1"	16' 8"	23' 7"	21' 5"	18' 9"
600S200-118	50	24' 5"	22' 2"	19' 4"	27' 5"	24' 11"	21' 9"	22' 2"	20' 2"	17' 7"	24' 11"	22' 7"	19' 9"
600S250-118	50	25' 8"	23' 4"	20' 4"	28' 9"	26' 2"	22' 10"	23' 4"	21' 2"	18' 6"	26' 2"	23' 9"	20' 9"
800S162-33	33	16' 9" ^e	14' 6" ^e	11' 10" ^e	15' 8" ^e	13' 0" ^e	9' 10" ^e	16' 9" ^e	14' 6" ^e	11' 10" ^e	15' 8" ^e	13' 0" ^e	9' 10" ^e
800S200-33	33	18' 0" ^e	15' 7" ^e	12' 8" ^e	16' 6" ^e	13' 8" ^e	10' 3" ^e	18' 0" ^e	15' 7" ^e	12' 8" ^e	16' 6" ^e	13' 8" ^e	10' 3" ^e
800S162-43	33	20' 2"	17' 6"	14' 3" ^e	20' 2"	17' 6"	13' 11"	19' 6"	17' 6"	14' 3" ^e	20' 2"	17' 6"	13' 11"
800S200-43	33	21' 7"	18' 8"	15' 3" ^e	21' 7"	18' 8"	15' 3"	20' 7"	18' 8"	15' 3" ^e	21' 7"	18' 8"	15' 3"
800S250-43	33	22' 2"	19' 2" ^e	15' 8" ^e	22' 2"	19' 2"	15' 6"	19' 2"	19' 2" ^e	15' 8" ^e	22' 2"	19' 2"	15' 6"
800S162-54	50	23' 3"	21' 1"	18' 4"	26' 0"	23' 5"	19' 1"	21' 1"	19' 2"	16' 9"	23' 8"	21' 6"	18' 9"
800S200-54	50	24' 4"	22' 1"	19' 4"	27' 4"	24' 10"	20' 5"	22' 1"	20' 1"	17' 6"	24' 10"	22' 6"	19' 8"
800S250-54	50	25' 4"	23' 1"	20' 2"	28' 6"	25' 6"	20' 10"	23' 1"	20' 11"	18' 3"	25' 10"	23' 6"	20' 6"
800S162-68	50	24' 11"	22' 8"	19' 9"	28' 0"	25' 5"	22' 3"	22' 8"	20' 7"	18' 0"	25' 5"	23' 1"	20' 2"
800S200-68	50	26' 1"	23' 9"	20' 9"	29' 4"	26' 8"	23' 3"	23' 9"	21' 7"	18' 10"	26' 8"	24' 2"	21' 2"
800S250-68	50	27' 3"	24' 9"	21' 8"	30' 7"	27' 10"	24' 3"	24' 9"	22' 6"	19' 8"	27' 10"	25' 3"	22' 1"
800S162-97	50	27' 8"	25' 2"	22' 0"	31' 1"	28' 3"	24' 8"	25' 2"	22' 10"	20' 0"	28' 3"	25' 8"	22' 5"
800S200-97	50	29' 0"	26' 5"	23' 1"	32' 7"	29' 7"	25' 11"	26' 5"	24' 0"	20' 11"	29' 7"	26' 11"	23' 6"
800S250-97	50	30' 4"	27' 7"	24' 1"	34' 1"	30' 11"	27' 1"	27' 7"	25' 1"	21' 11"	30' 11"	28' 2"	24' 7"
800S162-118	50	29' 4"	26' 7"	23' 3"	32' 11"	29' 11"	26' 1"	26' 7"	24' 2"	21' 1"	29' 11"	27' 2"	23' 9"
800S200-118	50	30' 9"	27' 11"	24' 5"	34' 6"	31' 5"	27' 5"	27' 11"	25' 5"	22' 2"	31' 5"	28' 6"	24' 11"
800S250-118	50	32' 2"	29' 3"	25' 6"	36' 1"	32' 10"	28' 8"	29' 3"	26' 7"	23' 2"	32' 10"	29' 10"	26' 1"
1000S162-43	33	22' 4" ^e	19' 4" ^e	15' 10" ^e	22' 3" ^e	18' 10" ^e	14' 8" ^e	22' 4" ^e	19' 4" ^e	15' 10" ^e	22' 3" ^e	18' 10" ^e	14' 8" ^e
1000S200-43	33	24' 1" ^e	20' 11" ^e	17' 1" ^e	23' 5" ^e	19' 9" ^e	15' 4" ^e	24' 1" ^e	20' 11" ^e	17' 1" ^e	23' 5" ^e	19' 9" ^e	15' 4" ^e
1000S250-43	33	24' 10" ^e	21' 6" ^e	17' 6" ^e	24' 5" ^e	20' 6" ^e	15' 10" ^e	24' 10" ^e	21' 6" ^e	17' 6" ^e	24' 5" ^e	20' 6" ^e	15' 10" ^e
1000S162-54	50	27' 7"	25' 0"	21' 2"	29' 11"	25' 11"	21' 2"	25' 2"	22' 10"	19' 11"	28' 2"	25' 6"	21' 2"
1000S200-54	50	28' 10"	26' 2"	22' 9"	32' 2"	27' 10"	22' 2"	26' 4"	23' 10"	20' 9"	29' 5"	26' 8"	22' 2"
1000S250-54	50	30' 3"	27' 6"	23' 4"	33' 1"	28' 8"	23' 1"	27' 6"	25' 0"	21' 10"	30' 10"	28' 1"	23' 1"
1000S162-68	50	30' 0"	27' 2"	23' 8"	33' 6"	30' 5"	25' 0"	27' 3"	24' 9"	21' 7"	30' 7"	27' 9"	24' 2"
1000S200-68	50	31' 3"	28' 5"	24' 9"	35' 0"	31' 9"	26' 9"	28' 5"	25' 10"	22' 7"	31' 11"	28' 11"	25' 3"
1000S250-68	50	32' 6"	29' 7"	25' 10"	36' 6"	33' 2"	27' 6"	29' 7"	26' 10"	23' 5"	33' 2"	30' 2"	26' 4"
1000S162-97	50	33' 4"	30' 4"	26' 6"	37' 5"	34' 0"	29' 9"	30' 4"	27' 6"	24' 1"	34' 0"	30' 11"	27' 0"
1000S200-97	50	34' 10"	31' 8"	27' 8"	39' 1"	35' 6"	31' 0"	31' 8"	28' 9"	25' 1"	35' 6"	32' 3"	28' 2"
1000S250-97	50	36' 3"	32' 11"	28' 9"	40' 9"	37' 0"	32' 4"	32' 11"	29' 11"	26' 2"	37' 0"	33' 7"	29' 4"
1000S162-118	50	35' 4"	32' 1"	28' 0"	39' 8"	36' 0"	31' 6"	32' 1"	29' 2"	25' 6"	36' 0"	32' 9"	28' 7"
1000S200-118	50	36' 11"	33' 7"	29' 4"	41' 6"	37' 8"	32' 11"	33' 7"	30' 6"	26' 8"	37' 8"	34' 3"	29' 11"
1000S250-118	50	38' 6"	35' 0"	30' 7"	43' 2"	39' 3"	34' 4"	35' 0"	31' 9"	27' 9"	39' 3"	35' 8"	31' 2"

"e" web stiffeners required at ends.

Web stiffeners required at interior supports for double span conditions.

See Table Notes on page 42.



Floor Joist Spans

10 psf Dead Load and 20 psf Live Load

Section	F _y (ksi)	L/360 Live Load Deflection						L/480 Live Load Deflection					
		Single Span			Double Span			Single Span			Double Span		
		Spacing (in) on center			Spacing (in) on center			Spacing (in) on center			Spacing (in) on center		
		12	16	24	12	16	24	12	16	24	12	16	24
1200S162-54	50	31' 9"	27' 11"	22' 10"	32' 3"	27' 11"	22' 5"	29' 0"	26' 3"	22' 10"	32' 3"	27' 11"	22' 5"
1200S200-54	50	33' 2"	30' 0"	24' 8"	34' 10"	29' 7"	23' 2"	30' 3"	27' 5"	23' 10"	33' 9"	29' 7"	23' 2"
1200S250-54	50	34' 6"	31' 2"	25' 6"	35' 5"	30' 0"	23' 5"	31' 5"	28' 6"	24' 10"	35' 1"	30' 0"	23' 5"
1200S162-68	50	34' 8"	31' 5"	27' 1"	38' 4"	33' 2"	27' 1"	31' 7"	28' 8"	24' 11"	35' 3"	32' 0"	27' 1"
1200S200-68	50	36' 1"	32' 9"	28' 6"	40' 4"	35' 9"	29' 2"	32' 11"	29' 10"	26' 0"	36' 9"	33' 4"	29' 0"
1200S250-68	50	37' 6"	34' 0"	29' 7"	41' 11"	36' 11"	30' 1"	34' 2"	31' 0"	27' 0"	38' 2"	34' 8"	30' 1"
1200S162-97	50	38' 11"	35' 4"	30' 11"	43' 8"	39' 8"	34' 8"	35' 4"	32' 1"	28' 1"	39' 8"	36' 1"	31' 6"
1200S200-97	50	40' 6"	36' 10"	32' 2"	45' 6"	41' 4"	36' 1"	36' 10"	33' 5"	29' 3"	41' 4"	37' 7"	32' 10"
1200S250-97	50	42' 1"	38' 2"	33' 4"	47' 2"	42' 11"	37' 6"	38' 2"	34' 8"	30' 4"	42' 11"	39' 0"	34' 1"
1200S162-118	50	41' 3"	37' 6"	32' 9"	46' 4"	42' 1"	36' 9"	37' 6"	34' 1"	29' 9"	42' 1"	38' 3"	33' 5"
1200S200-118	50	43' 0"	39' 1"	34' 1"	48' 3"	43' 10"	38' 4"	39' 1"	35' 6"	31' 0"	43' 10"	39' 10"	34' 10"
1200S250-118	50	44' 8"	40' 7"	35' 5"	50' 2"	45' 7"	39' 9"	40' 7"	36' 10"	32' 2"	45' 7"	41' 5"	36' 2"
1200S300-118	50	46' 2"	42' 0"	36' 8"	51' 10"	47' 1"	41' 2"	42' 0"	38' 2"	33' 4"	47' 1"	42' 10"	37' 5"
1200S350-118	50	48' 5"	44' 0"	38' 5"	54' 5"	49' 5"	43' 2"	44' 0"	40' 0"	34' 11"	49' 5"	44' 11"	39' 3"
1400S162-54	50	34' 0"	29' 6"	24' 1"	34' 0"	29' 6"	22' 9"	32' 7"	29' 6"	24' 1"	34' 0"	29' 6"	22' 9"
1400S200-54	50	37' 0"	32' 1"	26' 2"	36' 4"	30' 6"	23' 4"	34' 0"	30' 10"	26' 2"	36' 4"	30' 6"	23' 4"
1400S250-54	50	38' 6"	33' 4"	27' 2"	36' 11"	30' 10"	23' 7"	35' 4"	32' 0"	27' 2"	36' 11"	30' 10"	23' 7"
1400S300-54	50	39' 5"	34' 1"	27' 10"	37' 2"	31' 1"	23' 9"	36' 5"	32' 11"	27' 10"	37' 2"	31' 1"	23' 9"
1400S350-54	50	42' 8"	38' 4"	31' 4"	40' 7"	33' 8"	25' 3"	38' 10"	35' 3"	30' 8"	40' 7"	33' 8"	25' 3"
1400S162-68	50	39' 1"	35' 3"	28' 9"	40' 8"	35' 3"	28' 9"	35' 8"	32' 4"	28' 2"	39' 9"	35' 3"	28' 9"
1400S200-68	50	40' 8"	36' 10"	31' 1"	44' 0"	38' 1"	31' 1"	37' 1"	33' 8"	29' 3"	41' 5"	37' 6"	31' 1"
1400S250-68	50	42' 2"	38' 3"	32' 3"	45' 8"	39' 6"	31' 11"	38' 6"	34' 11"	30' 5"	43' 0"	38' 11"	31' 11"
1400S300-68	50	43' 7"	39' 5"	33' 0"	46' 9"	40' 6"	32' 4"	39' 9"	36' 0"	31' 5"	44' 5"	40' 1"	32' 4"
1400S350-68	50	46' 1"	41' 10"	36' 7"	51' 9"	45' 2"	35' 11"	41' 10"	38' 0"	33' 3"	47' 0"	42' 8"	35' 11"
1400S162-97	50	44' 5"	40' 4"	35' 2"	49' 9"	45' 1"	37' 8"	40' 4"	36' 8"	32' 0"	45' 4"	41' 2"	35' 10"
1400S200-97	50	46' 1"	41' 11"	36' 6"	51' 8"	46' 10"	40' 5"	41' 11"	38' 1"	33' 3"	47' 0"	42' 9"	37' 3"
1400S250-97	50	47' 9"	43' 4"	37' 10"	53' 6"	48' 7"	41' 11"	43' 4"	39' 5"	34' 5"	48' 8"	44' 3"	38' 7"
1400S300-97	50	49' 3"	44' 9"	39' 1"	55' 3"	50' 2"	42' 11"	44' 9"	40' 8"	35' 6"	50' 3"	45' 8"	39' 10"
1400S350-97	50	51' 6"	46' 9"	40' 11"	57' 10"	52' 6"	45' 11"	46' 9"	42' 6"	37' 2"	52' 6"	47' 9"	41' 8"
1400S162-118	50	47' 2"	42' 10"	37' 5"	52' 11"	48' 1"	42' 0"	42' 10"	38' 11"	34' 0"	48' 1"	43' 8"	38' 2"
1400S200-118	50	48' 11"	44' 6"	38' 10"	55' 0"	49' 11"	43' 8"	44' 6"	40' 5"	35' 4"	49' 11"	45' 4"	39' 8"
1400S250-118	50	50' 9"	46' 1"	40' 3"	56' 11"	51' 9"	45' 2"	46' 1"	41' 10"	36' 7"	51' 9"	47' 0"	41' 1"
1400S300-118	50	52' 4"	47' 7"	41' 7"	58' 9"	53' 5"	46' 8"	47' 7"	43' 3"	37' 9"	53' 5"	48' 6"	42' 5"
1400S350-118	50	54' 9"	49' 9"	43' 6"	61' 6"	55' 10"	48' 10"	49' 9"	45' 3"	39' 6"	55' 10"	50' 9"	44' 4"
1600S162-68	50	42' 8"	36' 11"	30' 2"	42' 8"	36' 11"	30' 2"	39' 7"	35' 10"	30' 2"	42' 8"	36' 11"	30' 2"
1600S200-68	50	45' 0"	40' 1"	32' 8"	46' 3"	40' 1"	32' 8"	41' 2"	37' 3"	32' 5"	45' 10"	40' 1"	32' 8"
1600S250-68	50	46' 8"	41' 9"	34' 1"	48' 3"	41' 9"	33' 0"	42' 7"	38' 7"	33' 7"	47' 6"	41' 9"	33' 0"
1600S300-68	50	48' 2"	42' 11"	35' 1"	49' 7"	42' 5"	33' 4"	44' 0"	39' 10"	34' 8"	49' 0"	42' 5"	33' 4"
1600S350-68	50	50' 5"	45' 9"	39' 4"	54' 8"	46' 3"	36' 1"	46' 0"	41' 9"	36' 4"	51' 5"	46' 3"	36' 1"
1600S162-97	50	49' 8"	45' 0"	39' 2"	55' 5"	48' 9"	39' 10"	45' 4"	41' 1"	35' 9"	50' 7"	45' 10"	39' 10"
1600S200-97	50	51' 6"	46' 8"	40' 7"	57' 6"	52' 1"	42' 10"	46' 11"	42' 7"	37' 1"	52' 5"	47' 7"	41' 5"
1600S250-97	50	53' 3"	48' 3"	42' 0"	59' 6"	53' 11"	44' 7"	48' 6"	44' 0"	38' 4"	54' 3"	49' 2"	42' 10"
1600S300-97	50	54' 10"	49' 9"	43' 4"	61' 4"	55' 7"	45' 9"	49' 11"	45' 4"	39' 6"	55' 11"	50' 9"	44' 2"
1600S350-97	50	57' 3"	52' 0"	45' 4"	64' 1"	58' 2"	50' 7"	52' 1"	47' 4"	41' 3"	58' 5"	53' 0"	46' 2"
1600S162-118	50	53' 0"	48' 2"	42' 1"	59' 6"	54' 0"	46' 5"	48' 2"	43' 9"	38' 2"	54' 0"	49' 1"	42' 11"
1600S200-118	50	54' 10"	49' 10"	43' 7"	61' 7"	56' 0"	48' 9"	49' 10"	45' 4"	39' 7"	56' 0"	50' 10"	44' 5"
1600S250-118	50	56' 8"	51' 6"	45' 0"	63' 8"	57' 10"	50' 5"	51' 6"	46' 10"	40' 11"	57' 10"	52' 7"	45' 11"
1600S300-118	50	58' 5"	53' 1"	46' 4"	65' 7"	59' 7"	52' 0"	53' 1"	48' 3"	42' 2"	59' 7"	54' 2"	47' 4"
1600S350-118	50	61' 0"	55' 5"	48' 5"	68' 6"	62' 3"	54' 4"	55' 5"	50' 4"	44' 0"	62' 3"	56' 6"	49' 5"

"e" web stiffeners required at ends.

Web stiffeners required at interior supports for double span conditions.

See Table Notes on page 42.

10 psf Dead Load and 30 psf Live Load

Section	F _y (ksi)	L/360 Live Load Deflection						L/480 Live Load Deflection					
		Single Span			Double Span			Single Span			Double Span		
		Spacing (in) on center			Spacing (in) on center			Spacing (in) on center			Spacing (in) on center		
		12	16	24	12	16	24	12	16	24	12	16	24
600S162-33	33	12' 7"	10' 11"	8' 11"	12' 7"	10' 10"	8' 5"	12' 6"	10' 11"	8' 11"	12' 7"	10' 10"	8' 5"
600S200-33	33	13' 5"	11' 7"	9' 6"	13' 3"	11' 2"	8' 8"	13' 2"	11' 7"	9' 6"	13' 3"	11' 2"	8' 8"
600S162-43	33	15' 0"	13' 5"	11' 0"	15' 6"	13' 5"	11' 0"	13' 8"	12' 5"	10' 10"	15' 4"	13' 5"	11' 0"
600S200-43	33	15' 9"	13' 10"	11' 4"	16' 0"	13' 10"	11' 4"	14' 4"	13' 0"	11' 4"	16' 0"	13' 10"	11' 4"
600S250-43	33	16' 5"	14' 3"	11' 7"	16' 5"	14' 3"	11' 7"	15' 0"	13' 7"	11' 7"	16' 5"	14' 3"	11' 7"
600S162-54	50	16' 1"	14' 7"	12' 9"	18' 1"	16' 5"	14' 4"	14' 7"	13' 3"	11' 7"	16' 5"	14' 11"	13' 0"
600S200-54	50	16' 11"	15' 4"	13' 5"	19' 0"	17' 3"	15' 1"	15' 4"	14' 0"	12' 2"	17' 3"	15' 8"	13' 8"
600S250-54	50	17' 9"	16' 1"	14' 1"	19' 11"	18' 1"	15' 6"	16' 1"	14' 8"	12' 9"	18' 1"	16' 5"	14' 4"
600S162-68	50	17' 3"	15' 8"	13' 8"	19' 4"	17' 7"	15' 4"	15' 8"	14' 3"	12' 5"	17' 7"	16' 0"	14' 0"
600S200-68	50	18' 2"	16' 6"	14' 5"	20' 4"	18' 6"	16' 2"	18' 6"	15' 0"	13' 1"	18' 6"	16' 10"	14' 8"
600S250-68	50	19' 0"	17' 3"	15' 1"	21' 4"	19' 5"	16' 11"	17' 3"	15' 8"	13' 9"	19' 5"	17' 8"	15' 5"
600S162-97	50	19' 1"	17' 4"	15' 2"	21' 6"	19' 6"	17' 0"	17' 4"	15' 9"	13' 9"	19' 6"	17' 9"	15' 6"
600S200-97	50	20' 2"	18' 4"	16' 0"	22' 7"	20' 7"	17' 11"	18' 4"	16' 8"	14' 6"	20' 7"	18' 8"	16' 4"
600S250-97	50	21' 2"	19' 3"	16' 9"	23' 9"	21' 7"	18' 10"	19' 3"	17' 6"	15' 3"	21' 2"	19' 7"	17' 2"
600S162-118	50	20' 2"	18' 4"	16' 0"	22' 8"	20' 7"	18' 0"	18' 4"	16' 8"	14' 7"	20' 7"	18' 9"	16' 4"
600S200-118	50	21' 4"	19' 4"	16' 11"	23' 11"	21' 9"	19' 0"	19' 4"	17' 7"	15' 4"	21' 9"	19' 9"	17' 3"
600S250-118	50	22' 5"	20' 4"	17' 9"	25' 2"	22' 10"	20' 0"	20' 4"	18' 6"	16' 2"	22' 10"	20' 9"	18' 2"
800S162-33	33	14' 6"	12' 7"	10' 3"	13' 0"	10' 9"	8' 0"	14' 6"	12' 7"	10' 3"	13' 0"	10' 9"	8' 0"
800S200-33	33	15' 7"	13' 6"	11' 0"	13' 8"	11' 2"	8' 2"	15' 7"	13' 6"	11' 0"	13' 8"	11' 2"	8' 2"
800S162-43	33	17' 6"	15' 2"	12' 4"	17' 6"	14' 11"	11' 9"	17' 1"	15' 2"	12' 4"	17' 6"	14' 11"	11' 9"
800S200-43	33	18' 8"	16' 2"	13' 3"	18' 8"	16' 2"	12' 11"	18' 0"	16' 2"	13' 3"	18' 8"	16' 2"	12' 11"
800S250-43	33	19' 2"	16' 7"	13' 7"	19' 2"	16' 7"	13' 0"	18' 9"	16' 7"	13' 7"	19' 2"	16' 7"	13' 0"
800S162-54	50	20' 3"	18' 5"	16' 0"	22' 8"	20' 3"	16' 6"	18' 5"	16' 9"	14' 7"	20' 8"	18' 9"	16' 4"
800S200-54	50	21' 3"	19' 4"	16' 10"	23' 10"	21' 7"	17' 8"	19' 4"	17' 6"	15' 4"	21' 8"	19' 8"	17' 2"
800S250-54	50	22' 2"	20' 2"	17' 7"	24' 11"	22' 1"	18' 1"	20' 2"	18' 3"	16' 0"	22' 7"	20' 6"	17' 11"
800S162-68	50	21' 9"	19' 9"	17' 3"	24' 5"	22' 3"	19' 5"	19' 9"	18' 0"	16' 0"	22' 3"	20' 2"	17' 8"
800S200-68	50	22' 10"	20' 9"	18' 1"	25' 7"	23' 3"	20' 4"	20' 9"	18' 10"	16' 5"	23' 3"	21' 2"	18' 6"
800S250-68	50	23' 10"	21' 8"	18' 11"	26' 9"	24' 3"	21' 2"	21' 8"	19' 8"	17' 2"	24' 3"	22' 1"	19' 3"
800S162-97	50	24' 2"	22' 0"	19' 2"	27' 2"	24' 8"	21' 7"	22' 0"	20' 0"	17' 5"	24' 8"	22' 5"	19' 7"
800S200-97	50	25' 4"	23' 1"	20' 2"	28' 6"	25' 11"	22' 7"	23' 1"	20' 11"	18' 4"	25' 11"	23' 6"	20' 6"
800S250-97	50	26' 6"	24' 1"	21' 0"	29' 9"	27' 1"	23' 7"	24' 1"	21' 11"	19' 1"	27' 1"	24' 7"	21' 6"
800S162-118	50	25' 7"	23' 3"	20' 4"	28' 9"	26' 1"	22' 10"	23' 3"	21' 1"	18' 5"	26' 1"	23' 9"	20' 9"
800S200-118	50	26' 10"	24' 5"	21' 4"	30' 2"	27' 5"	23' 11"	24' 5"	22' 2"	19' 5"	27' 5"	24' 11"	21' 9"
800S250-118	50	28' 1"	25' 6"	22' 4"	31' 7"	28' 8"	25' 1"	25' 6"	23' 2"	20' 3"	28' 8"	26' 1"	22' 9"
1000S162-43	33	19' 4"	16' 9"	13' 8"	18' 10"	15' 10"	12' 2"	19' 4"	16' 9"	13' 8"	18' 10"	15' 10"	12' 2"
1000S200-43	33	20' 11"	18' 1"	14' 9"	19' 9"	16' 6"	12' 7"	20' 11"	18' 1"	14' 9"	19' 9"	16' 6"	12' 7"
1000S250-43	33	21' 6"	18' 7"	15' 2"	20' 6"	17' 1"	13' 0"	21' 6"	18' 7"	15' 2"	20' 6"	17' 1"	13' 0"
1000S162-54	50	24' 1"	21' 10"	18' 4"	25' 11"	22' 6"	18' 2"	22' 0"	19' 11"	17' 4"	24' 7"	22' 3"	18' 2"
1000S200-54	50	25' 2"	22' 10"	19' 9"	27' 10"	23' 8"	18' 9"	23' 0"	20' 10"	18' 2"	25' 8"	23' 3"	18' 9"
1000S250-54	50	26' 5"	24' 0"	20' 3"	28' 8"	24' 9"	19' 6"	24' 0"	21' 10"	19' 1"	27' 0"	24' 6"	19' 6"
1000S162-68	50	26' 2"	23' 9"	20' 8"	29' 3"	26' 6"	21' 8"	23' 9"	21' 7"	18' 10"	26' 8"	24' 2"	21' 1"
1000S200-68	50	27' 4"	24' 10"	21' 7"	30' 7"	27' 9"	23' 2"	24' 10"	22' 7"	19' 8"	27' 10"	25' 3"	22' 0"
1000S250-68	50	28' 5"	25' 10"	22' 7"	31' 11"	29' 0"	23' 10"	25' 10"	23' 5"	20' 6"	29' 0"	26' 4"	23' 0"
1000S162-97	50	29' 2"	26' 6"	23' 1"	32' 8"	29' 9"	26' 0"	26' 6"	24' 1"	21' 0"	29' 9"	27' 0"	23' 7"
1000S200-97	50	30' 5"	27' 8"	24' 2"	34' 2"	31' 0"	27' 1"	27' 8"	25' 1"	21' 11"	31' 0"	28' 2"	24' 8"
1000S250-97	50	31' 8"	28' 9"	25' 2"	35' 7"	32' 4"	28' 3"	28' 9"	26' 2"	22' 10"	32' 4"	29' 4"	25' 8"
1000S162-118	50	30' 10"	28' 0"	24' 6"	34' 8"	31' 6"	27' 6"	28' 0"	25' 6"	22' 3"	31' 6"	28' 7"	25' 0"
1000S200-118	50	32' 3"	29' 4"	25' 7"	36' 3"	32' 11"	28' 9"	29' 4"	26' 8"	23' 3"	32' 11"	29' 11"	26' 1"
1000S250-118	50	33' 7"	30' 7"	26' 8"	37' 9"	34' 4"	29' 11"	30' 7"	27' 9"	24' 3"	34' 4"	31' 2"	27' 3"

"e" web stiffeners required at ends.

Web stiffeners required at interior supports for double span conditions.

See Table Notes on page 42.



Floor Joist Spans

10 psf Dead Load and 30 psf Live Load

Section	F _y (ksi)	L/360 Live Load Deflection						L/480 Live Load Deflection					
		Single Span			Double Span			Single Span			Double Span		
		Spacing (in) on center			Spacing (in) on center			Spacing (in) on center			Spacing (in) on center		
		12	16	24	12	16	24	12	16	24	12	16	24
1200S162-54	50	27' 9"	24' 2"	19' 9"	27' 11"	24' 1"	18' 9"	25' 4"	22' 11"	19' 9"	27' 11"	24' 1"	18' 9"
1200S200-54	50	28' 11"	26' 2"	21' 4"	29' 7"	24' 11"	19' 3"	26' 5"	23' 11"	20' 10"	29' 6"	24' 11"	19' 3"
1200S250-54	50	30' 1"	27' 0"	22' 1"	30' 0"	25' 3"	19' 6"	27' 5"	24' 11"	21' 8"	30' 0"	25' 3"	19' 6"
1200S162-68	50	30' 3"	27' 5"	23' 6"	33' 2"	28' 9"	23' 6"	27' 7"	25' 0"	21' 9"	30' 10"	27' 11"	23' 6"
1200S200-68	50	31' 6"	28' 7"	24' 11"	35' 2"	30' 11"	25' 3"	28' 9"	26' 1"	22' 8"	32' 1"	29' 1"	25' 3"
1200S250-68	50	32' 9"	29' 8"	25' 10"	36' 7"	31' 11"	25' 9"	29' 10"	27' 1"	23' 7"	33' 4"	30' 3"	25' 9"
1200S162-97	50	34' 0"	30' 11"	27' 0"	38' 2"	34' 8"	30' 3"	30' 11"	28' 1"	24' 6"	34' 8"	31' 6"	27' 6"
1200S200-97	50	35' 5"	32' 2"	28' 1"	39' 9"	36' 1"	31' 6"	32' 2"	29' 3"	25' 6"	36' 1"	32' 10"	28' 8"
1200S250-97	50	36' 9"	33' 4"	29' 2"	41' 3"	37' 6"	32' 9"	33' 4"	30' 4"	26' 6"	37' 6"	34' 1"	29' 9"
1200S162-118	50	36' 1"	32' 9"	28' 7"	40' 6"	36' 9"	32' 1"	32' 9"	29' 9"	26' 0"	36' 9"	33' 5"	29' 2"
1200S200-118	50	37' 7"	34' 1"	29' 10"	42' 2"	38' 4"	33' 6"	34' 1"	31' 0"	27' 1"	38' 4"	34' 10"	30' 5"
1200S250-118	50	39' 0"	35' 5"	30' 11"	43' 9"	39' 9"	34' 9"	35' 5"	32' 2"	28' 2"	39' 9"	36' 2"	31' 7"
1200S300-118	50	40' 4"	36' 8"	32' 0"	45' 4"	41' 2"	36' 0"	36' 8"	33' 4"	29' 1"	41' 2"	37' 5"	32' 8"
1200S350-118	50	42' 4"	38' 5"	33' 7"	47' 6"	43' 2"	37' 8"	38' 5"	34' 11"	30' 6"	43' 2"	39' 3"	34' 3"
1400S162-54	50	29' 6"	25' 6"	20' 10"	29' 6"	24' 7"	18' 7"	28' 6"	25' 6"	20' 10"	29' 6"	24' 7"	18' 7"
1400S200-54	50	32' 1"	27' 9"	22' 8"	30' 6"	25' 3"	19' 0"	29' 8"	26' 11"	22' 8"	30' 6"	25' 3"	19' 0"
1400S250-54	50	33' 4"	28' 10"	23' 7"	30' 10"	25' 7"	19' 2"	30' 10"	27' 11"	23' 7"	30' 10"	25' 7"	19' 2"
1400S300-54	50	34' 1"	29' 7"	24' 1"	31' 1"	25' 9"	19' 3"	31' 10"	28' 9"	24' 1"	31' 1"	25' 9"	19' 3"
1400S350-54	50	37' 2"	33' 3"	27' 1"	33' 8"	27' 7"	20' 3"	33' 11"	30' 10"	26' 9"	33' 8"	27' 7"	20' 3"
1400S162-68	50	34' 1"	30' 6"	24' 11"	35' 3"	30' 6"	24' 11"	31' 2"	28' 3"	24' 7"	34' 9"	30' 6"	24' 11"
1400S200-68	50	35' 6"	32' 2"	26' 11"	38' 1"	33' 0"	26' 10"	32' 5"	29' 4"	25' 7"	36' 2"	32' 9"	26' 10"
1400S250-68	50	36' 10"	33' 4"	27' 11"	39' 6"	34' 2"	27' 0"	33' 7"	30' 6"	26' 6"	36' 10"	33' 4"	27' 0"
1400S300-68	50	38' 1"	34' 5"	28' 7"	40' 6"	34' 7"	27' 3"	34' 8"	31' 6"	27' 5"	38' 9"	34' 7"	27' 3"
1400S350-68	50	40' 3"	36' 7"	31' 11"	45' 2"	38' 6"	30' 1"	36' 7"	33' 3"	29' 0"	41' 1"	37' 3"	30' 1"
1400S162-97	50	38' 10"	35' 3"	30' 8"	43' 5"	39' 4"	32' 8"	35' 3"	32' 0"	28' 0"	39' 7"	35' 11"	31' 3"
1400S200-97	50	40' 3"	36' 7"	31' 11"	45' 2"	40' 11"	35' 0"	36' 7"	33' 3"	29' 1"	41' 1"	37' 4"	32' 6"
1400S250-97	50	41' 8"	37' 11"	33' 1"	46' 9"	42' 5"	36' 3"	37' 11"	34' 5"	30' 1"	42' 6"	38' 8"	33' 8"
1400S300-97	50	43' 0"	39' 1"	34' 2"	48' 3"	43' 10"	37' 2"	39' 1"	35' 6"	31' 0"	43' 11"	39' 11"	34' 9"
1400S350-97	50	45' 0"	40' 11"	35' 8"	50' 6"	45' 11"	40' 1"	40' 11"	37' 2"	32' 5"	45' 11"	41' 8"	36' 5"
1400S162-118	50	41' 2"	37' 5"	32' 8"	46' 3"	42' 0"	36' 8"	37' 5"	34' 0"	29' 8"	42' 0"	38' 2"	33' 4"
1400S200-118	50	42' 9"	38' 10"	33' 11"	48' 0"	43' 8"	38' 1"	38' 10"	35' 4"	30' 10"	43' 8"	39' 8"	34' 8"
1400S250-118	50	44' 4"	40' 3"	35' 2"	49' 9"	45' 2"	39' 6"	40' 3"	36' 7"	31' 11"	45' 2"	41' 1"	35' 10"
1400S300-118	50	45' 9"	41' 7"	36' 4"	51' 4"	46' 8"	40' 9"	41' 7"	37' 9"	33' 0"	46' 8"	42' 5"	37' 0"
1400S350-118	50	47' 10"	43' 6"	38' 0"	53' 9"	48' 10"	42' 8"	43' 6"	39' 6"	34' 6"	48' 10"	44' 4"	38' 9"
1600S162-68	50	36' 11"	32' 0"	26' 1"	36' 11"	32' 0"	26' 1"	34' 7"	31' 4"	26' 1"	36' 11"	32' 0"	26' 1"
1600S200-68	50	39' 4"	34' 8"	28' 4"	40' 1"	34' 8"	27' 5"	35' 11"	32' 7"	28' 4"	40' 0"	34' 8"	27' 5"
1600S250-68	50	40' 9"	36' 2"	29' 6"	41' 9"	35' 5"	27' 7"	37' 2"	33' 9"	29' 4"	41' 6"	35' 5"	27' 7"
1600S300-68	50	42' 0"	37' 2"	30' 4"	42' 5"	35' 10"	27' 10"	38' 5"	34' 10"	30' 3"	42' 5"	35' 10"	27' 10"
1600S350-68	50	44' 0"	39' 11"	34' 0"	46' 3"	38' 10"	29' 10"	40' 2"	36' 5"	31' 9"	44' 11"	38' 10"	29' 10"
1600S162-97	50	43' 4"	39' 3"	34' 2"	48' 4"	42' 3"	34' 6"	39' 7"	35' 11"	31' 3"	44' 2"	40' 0"	34' 6"
1600S200-97	50	44' 11"	40' 9"	35' 6"	50' 2"	45' 5"	37' 1"	41' 0"	37' 2"	32' 5"	45' 10"	41' 6"	36' 2"
1600S250-97	50	46' 6"	42' 2"	36' 8"	51' 11"	47' 1"	38' 7"	42' 4"	38' 5"	33' 6"	47' 4"	42' 11"	37' 5"
1600S300-97	50	47' 11"	43' 5"	37' 10"	53' 7"	48' 6"	39' 7"	43' 7"	39' 7"	34' 6"	48' 10"	44' 3"	38' 7"
1600S350-97	50	50' 0"	45' 5"	39' 7"	56' 0"	50' 9"	43' 10"	45' 6"	41' 4"	36' 1"	51' 0"	46' 3"	40' 4"
1600S162-118	50	46' 3"	42' 1"	36' 9"	51' 11"	47' 2"	40' 2"	42' 1"	38' 2"	33' 4"	47' 2"	42' 11"	37' 6"
1600S200-118	50	47' 11"	43' 7"	38' 1"	53' 10"	48' 10"	42' 7"	43' 7"	39' 7"	34' 7"	48' 11"	44' 5"	38' 10"
1600S250-118	50	49' 6"	45' 0"	39' 4"	55' 7"	50' 6"	44' 0"	45' 0"	40' 11"	35' 9"	50' 6"	45' 11"	40' 1"
1600S300-118	50	51' 0"	46' 4"	40' 6"	57' 4"	52' 1"	45' 5"	46' 4"	42' 2"	36' 10"	52' 1"	47' 4"	41' 4"
1600S350-118	50	53' 4"	48' 5"	42' 4"	59' 10"	54' 4"	47' 5"	48' 5"	44' 0"	38' 5"	54' 4"	49' 5"	43' 2"

"e" web stiffeners required at ends.

Web stiffeners required at interior supports for double span conditions.

See Table Notes on page 42.

10 psf Dead Load and 40 psf Live Load

Section	F _y (ksi)	L/360 Live Load Deflection						L/480 Live Load Deflection					
		Single Span			Double Span			Single Span			Double Span		
		Spacing (in) on center			Spacing (in) on center			Spacing (in) on center			Spacing (in) on center		
		12	16	24	12	16	24	12	16	24	12	16	24
600S162-33	33	11' 3"	9' 9"	7' 11"	11' 3"	9' 6"	7' 4"	11' 3"	9' 9"	7' 11"	11' 3"	9' 6"	7' 4"
600S200-33	33	12' 0"	10' 4"	8' 6"	11' 7"	9' 9"	7' 6"	11' 11"	10' 4"	8' 6"	11' 7"	9' 9"	7' 6"
600S162-43	33	13' 8"	12' 0"	9' 10"	13' 11"	12' 0"	9' 10"	12' 5"	11' 3"	9' 10"	13' 11"	12' 0"	9' 10"
600S200-43	33	14' 4"	12' 5"	10' 2"	14' 4"	12' 5"	10' 0"	13' 0"	11' 10"	10' 2"	14' 4"	12' 5"	10' 0"
600S250-43	33	14' 8"	12' 9"	10' 5"	14' 8"	12' 9"	10' 2"	13' 7"	12' 4"	10' 5"	14' 8"	12' 9"	10' 2"
600S162-54	50	14' 7"	13' 3"	11' 7"	16' 5"	14' 11"	13' 0"	13' 3"	12' 1"	10' 7"	14' 11"	13' 7"	11' 10"
600S200-54	50	15' 4"	14' 0"	12' 2"	17' 3"	15' 8"	13' 6"	14' 0"	12' 8"	11' 1"	15' 8"	14' 3"	12' 5"
600S250-54	50	16' 1"	14' 8"	12' 9"	18' 1"	16' 5"	13' 10"	14' 8"	13' 3"	11' 7"	16' 5"	14' 11"	13' 0"
600S162-68	50	15' 8"	14' 3"	12' 5"	17' 7"	16' 0"	14' 0"	14' 3"	12' 11"	11' 4"	16' 0"	14' 6"	12' 8"
600S200-68	50	16' 6"	15' 0"	13' 1"	18' 6"	16' 10"	14' 8"	15' 0"	13' 7"	11' 11"	16' 10"	15' 3"	13' 4"
600S250-68	50	17' 3"	15' 8"	13' 9"	19' 5"	17' 8"	15' 5"	15' 8"	14' 3"	12' 6"	17' 8"	16' 0"	14' 0"
600S162-97	50	17' 4"	15' 9"	13' 9"	19' 6"	17' 9"	15' 6"	15' 9"	14' 4"	12' 6"	17' 9"	16' 1"	14' 1"
600S200-97	50	18' 4"	16' 8"	14' 6"	20' 7"	18' 8"	16' 4"	16' 8"	15' 1"	13' 2"	18' 8"	17' 0"	14' 10"
600S250-97	50	19' 3"	17' 6"	15' 3"	21' 7"	19' 7"	17' 2"	17' 6"	15' 10"	13' 10"	18' 7"	17' 10"	15' 7"
600S162-118	50	18' 4"	16' 8"	14' 7"	20' 7"	18' 9"	16' 4"	16' 8"	15' 2"	13' 3"	18' 9"	17' 0"	14' 10"
600S200-118	50	19' 4"	17' 7"	15' 4"	21' 9"	19' 9"	17' 3"	17' 7"	16' 0"	14' 0"	19' 9"	17' 11"	15' 8"
600S250-118	50	20' 4"	18' 6"	16' 2"	22' 10"	20' 9"	18' 2"	18' 6"	16' 10"	14' 8"	20' 9"	18' 10"	16' 6"
800S162-33	33	13' 0"	11' 3"	9' 2"	11' 3"	9' 2"	6' 8"	13' 0"	11' 3"	9' 2"	11' 3"	9' 2"	6' 8"
800S200-33	33	13' 11"	12' 1"	9' 6"	11' 8"	9' 6"	6' 10"	13' 11"	12' 1"	9' 6"	11' 8"	9' 6"	6' 10"
800S162-43	33	15' 8"	13' 6"	11' 1"	15' 5"	13' 1"	10' 4"	15' 6"	13' 6"	11' 1"	15' 5"	13' 1"	10' 4"
800S200-43	33	16' 9"	14' 6"	11' 10"	16' 9"	14' 6"	11' 3"	16' 4"	14' 6"	11' 10"	16' 9"	14' 6"	11' 3"
800S250-43	33	17' 2"	14' 10"	12' 2"	17' 2"	14' 7"	11' 4"	17' 0"	14' 10"	12' 2"	17' 2"	14' 7"	11' 4"
800S162-54	50	18' 5"	16' 8"	14' 7"	20' 7"	18' 1"	14' 9"	16' 9"	15' 3"	13' 3"	18' 9"	17' 0"	14' 9"
800S200-54	50	19' 4"	17' 6"	15' 4"	21' 8"	19' 4"	15' 9"	17' 6"	15' 11"	13' 11"	19' 8"	17' 11"	15' 7"
800S250-54	50	20' 2"	18' 3"	16' 0"	22' 7"	19' 9"	16' 2"	18' 3"	16' 7"	14' 6"	20' 6"	18' 8"	16' 2"
800S162-68	50	19' 9"	18' 0"	15' 8"	22' 3"	20' 2"	17' 4"	18' 0"	16' 4"	14' 3"	20' 2"	18' 4"	16' 0"
800S200-68	50	20' 9"	18' 10"	16' 5"	23' 3"	21' 2"	18' 6"	18' 10"	17' 1"	14' 11"	21' 2"	19' 2"	16' 9"
800S250-68	50	21' 8"	19' 8"	17' 2"	24' 3"	22' 1"	18' 11"	19' 8"	17' 10"	15' 7"	22' 1"	20' 1"	17' 6"
800S162-97	50	22' 0"	20' 0"	17' 5"	24' 8"	22' 5"	19' 7"	20' 0"	18' 2"	15' 10"	22' 5"	20' 4"	17' 10"
800S200-97	50	23' 1"	20' 11"	18' 4"	25' 11"	23' 6"	20' 6"	20' 11"	19' 0"	16' 7"	23' 6"	21' 4"	18' 8"
800S250-97	50	24' 1"	21' 11"	19' 1"	27' 1"	24' 7"	21' 6"	21' 11"	19' 11"	17' 4"	24' 7"	22' 4"	19' 6"
800S162-118	50	23' 3"	21' 1"	18' 5"	26' 1"	23' 9"	20' 9"	21' 1"	19' 2"	16' 9"	23' 9"	21' 7"	18' 10"
800S200-118	50	24' 5"	22' 2"	19' 5"	27' 5"	24' 11"	21' 9"	22' 2"	20' 2"	17' 7"	24' 11"	22' 8"	19' 9"
800S250-118	50	25' 6"	23' 2"	20' 3"	28' 8"	26' 1"	22' 9"	23' 2"	21' 1"	18' 5"	26' 1"	23' 8"	20' 8"
1000S162-43	33	17' 4"	15' 0"	12' 3"	16' 5"	13' 8"	10' 5"	17' 4"	15' 0"	12' 3"	16' 5"	13' 8"	10' 5"
1000S200-43	33	18' 8"	16' 2"	13' 2"	17' 3"	14' 3"	10' 9"	18' 8"	16' 2"	13' 2"	17' 3"	14' 3"	10' 9"
1000S250-43	33	19' 3"	16' 8"	13' 7"	17' 10"	14' 9"	11' 0"	19' 3"	16' 8"	13' 7"	17' 10"	14' 9"	11' 0"
1000S162-54	50	21' 11"	19' 10"	16' 5"	23' 2"	20' 1"	15' 10"	20' 0"	18' 1"	15' 9"	22' 4"	20' 1"	15' 10"
1000S200-54	50	22' 10"	20' 9"	17' 8"	24' 7"	20' 10"	16' 4"	20' 10"	18' 11"	16' 6"	23' 4"	20' 10"	16' 4"
1000S250-54	50	24' 0"	21' 10"	18' 1"	25' 7"	21' 9"	17' 0"	21' 10"	19' 10"	17' 4"	24' 6"	21' 9"	17' 0"
1000S162-68	50	23' 9"	21' 7"	18' 9"	26' 7"	23' 9"	19' 5"	21' 7"	19' 8"	17' 2"	24' 3"	22' 0"	19' 2"
1000S200-68	50	24' 10"	22' 6"	19' 8"	27' 9"	25' 2"	20' 9"	22' 7"	20' 6"	17' 11"	25' 4"	22' 11"	20' 0"
1000S250-68	50	25' 10"	23' 5"	20' 6"	29' 0"	26' 1"	21' 4"	23' 5"	21' 4"	18' 7"	26' 4"	23' 11"	20' 11"
1000S162-97	50	26' 6"	24' 1"	21' 0"	29' 9"	27' 0"	23' 7"	24' 1"	21' 10"	19' 1"	27' 0"	24' 6"	21' 5"
1000S200-97	50	27' 8"	25' 1"	21' 11"	31' 0"	28' 2"	24' 8"	25' 1"	22' 10"	19' 11"	28' 2"	25' 7"	22' 5"
1000S250-97	50	28' 9"	26' 2"	22' 10"	32' 4"	29' 4"	25' 8"	26' 2"	23' 9"	20' 9"	29' 4"	26' 8"	23' 4"
1000S162-118	50	28' 0"	25' 6"	22' 3"	31' 6"	28' 7"	25' 0"	25' 6"	23' 2"	20' 3"	28' 7"	26' 0"	22' 8"
1000S200-118	50	29' 4"	26' 8"	23' 3"	32' 11"	29' 11"	26' 1"	26' 8"	24' 2"	21' 2"	29' 11"	27' 2"	23' 9"
1000S250-118	50	30' 7"	27' 9"	24' 3"	34' 4"	31' 2"	27' 3"	27' 9"	25' 3"	22' 0"	31' 2"	28' 4"	24' 9"

"e" web stiffeners required at ends.

Web stiffeners required at interior supports for double span conditions.

See Table Notes on page 42.



Floor Joist Spans

10 psf Dead Load and 40 psf Live Load

Section	F _y (ksi)	L/360 Live Load Deflection						L/480 Live Load Deflection					
		Single Span			Double Span			Single Span			Double Span		
		Spacing (in) on center			Spacing (in) on center			Spacing (in) on center			Spacing (in) on center		
		12	16	24	12	16	24	12	16	24	12	16	24
1200S162-54	50	25' 0"	21' 7"	17' 8"	25' 0"	21' 0"	16' 2"	23' 0"	20' 10"	17' 8"	25' 0"	21' 0"	16' 2"
1200S200-54	50	26' 3"	23' 5"	19' 1"	25' 11"	21' 8"	16' 6"	24' 0"	21' 9"	18' 11"	25' 11"	21' 8"	16' 6"
1200S250-54	50	27' 4"	24' 2"	19' 9"	26' 3"	21' 11"	16' 9"	24' 11"	22' 7"	19' 8"	26' 3"	21' 11"	16' 9"
1200S162-68	50	27' 5"	24' 11"	21' 0"	29' 8"	25' 9"	21' 0"	25' 1"	22' 9"	19' 9"	28' 0"	25' 4"	21' 0"
1200S200-68	50	28' 7"	25' 11"	22' 7"	31' 11"	27' 8"	22' 7"	26' 1"	23' 8"	20' 7"	29' 2"	26' 5"	22' 7"
1200S250-68	50	29' 9"	26' 11"	23' 4"	33' 0"	28' 6"	22' 8"	27' 1"	24' 7"	21' 5"	30' 4"	27' 6"	22' 8"
1200S162-97	50	30' 11"	28' 1"	24' 6"	34' 8"	31' 6"	27' 3"	28' 1"	25' 6"	22' 3"	31' 6"	28' 8"	25' 0"
1200S200-97	50	32' 2"	29' 3"	25' 6"	36' 1"	32' 10"	28' 8"	29' 3"	26' 6"	23' 2"	32' 10"	29' 10"	26' 0"
1200S250-97	50	33' 4"	30' 4"	26' 6"	37' 6"	34' 1"	29' 9"	30' 4"	27' 7"	24' 1"	34' 1"	30' 11"	27' 0"
1200S162-118	50	32' 9"	29' 9"	26' 0"	36' 9"	33' 5"	29' 2"	29' 9"	27' 0"	23' 7"	33' 5"	30' 4"	26' 6"
1200S200-118	50	34' 1"	31' 0"	27' 1"	38' 4"	34' 10"	30' 5"	31' 0"	28' 2"	24' 7"	34' 10"	31' 7"	27' 7"
1200S250-118	50	35' 5"	32' 2"	28' 2"	39' 9"	36' 2"	31' 7"	32' 2"	29' 3"	25' 7"	36' 2"	32' 10"	28' 8"
1200S300-118	50	36' 8"	33' 4"	29' 1"	41' 2"	37' 5"	32' 8"	33' 4"	30' 3"	26' 5"	37' 5"	34' 0"	29' 8"
1200S350-118	50	38' 5"	34' 11"	30' 6"	43' 2"	39' 3"	34' 3"	34' 11"	31' 9"	27' 9"	39' 3"	35' 8"	31' 1"
1400S162-54	50	26' 4"	22' 10"	18' 8"	25' 8"	21' 2"	15' 9"	25' 10"	22' 10"	18' 8"	25' 8"	21' 2"	15' 9"
1400S200-54	50	28' 8"	24' 10"	20' 3"	26' 4"	21' 8"	16' 0"	26' 11"	24' 5"	20' 3"	26' 4"	21' 8"	16' 0"
1400S250-54	50	29' 10"	25' 10"	21' 1"	26' 8"	21' 10"	16' 2"	28' 0"	25' 4"	21' 1"	26' 8"	21' 10"	16' 2"
1400S300-54	50	30' 6"	26' 5"	21' 7"	30' 10"	26' 10"	16' 2"	28' 10"	26' 1"	21' 7"	26' 10"	22' 0"	16' 2"
1400S350-54	50	33' 8"	29' 8"	23' 6"	28' 10"	23' 4"	16' 11"	30' 10"	28' 0"	23' 6"	28' 10"	23' 4"	16' 11"
1400S162-68	50	30' 11"	27' 4"	22' 4"	31' 6"	27' 4"	22' 4"	28' 3"	25' 8"	22' 3"	31' 6"	27' 4"	22' 4"
1400S200-68	50	32' 3"	29' 2"	24' 1"	34' 1"	29' 6"	23' 5"	29' 5"	26' 8"	23' 2"	32' 10"	29' 6"	23' 5"
1400S250-68	50	33' 5"	30' 4"	25' 0"	33' 4"	30' 0"	23' 7"	30' 6"	27' 8"	24' 1"	34' 1"	30' 0"	23' 7"
1400S300-68	50	34' 6"	31' 2"	25' 7"	35' 10"	30' 5"	23' 10"	31' 6"	28' 7"	24' 10"	35' 2"	30' 5"	23' 10"
1400S350-68	50	36' 7"	33' 3"	28' 7"	39' 11"	33' 8"	26' 1"	33' 3"	30' 2"	26' 4"	37' 3"	33' 8"	26' 1"
1400S162-97	50	35' 3"	32' 0"	27' 10"	39' 5"	35' 9"	29' 2"	32' 0"	29' 1"	25' 5"	36' 0"	32' 7"	28' 5"
1400S200-97	50	36' 7"	33' 3"	29' 0"	41' 0"	37' 2"	31' 4"	33' 3"	30' 2"	26' 5"	37' 4"	33' 11"	29' 6"
1400S250-97	50	37' 11"	34' 5"	30' 0"	42' 5"	38' 6"	32' 5"	34' 5"	31' 3"	27' 4"	38' 8"	35' 1"	30' 7"
1400S300-97	50	39' 1"	35' 6"	31' 0"	43' 10"	39' 9"	33' 3"	35' 6"	32' 3"	28' 2"	39' 11"	36' 3"	31' 7"
1400S350-97	50	40' 11"	37' 2"	32' 5"	45' 11"	41' 8"	36' 5"	37' 2"	33' 9"	29' 6"	41' 8"	37' 11"	33' 1"
1400S162-118	50	37' 5"	34' 0"	29' 8"	42' 0"	38' 2"	33' 4"	34' 0"	30' 11"	27' 0"	38' 2"	34' 8"	30' 3"
1400S200-118	50	38' 10"	35' 4"	30' 10"	43' 8"	39' 8"	34' 8"	35' 4"	32' 1"	28' 0"	39' 8"	36' 0"	31' 6"
1400S250-118	50	40' 3"	36' 7"	31' 11"	45' 2"	41' 1"	35' 10"	36' 7"	33' 3"	29' 0"	41' 1"	37' 4"	32' 7"
1400S300-118	50	41' 7"	37' 9"	33' 0"	46' 8"	42' 5"	37' 0"	37' 9"	34' 4"	30' 0"	42' 5"	38' 6"	33' 8"
1400S350-118	50	43' 6"	39' 6"	34' 6"	48' 10"	44' 4"	38' 9"	39' 6"	35' 11"	31' 4"	44' 4"	40' 4"	35' 2"
1600S162-68	50	33' 0"	28' 7"	23' 4"	33' 0"	28' 7"	22' 10"	31' 5"	28' 5"	23' 4"	33' 0"	28' 7"	22' 10"
1600S200-68	50	35' 8"	31' 0"	25' 4"	35' 10"	30' 10"	23' 8"	32' 7"	29' 6"	25' 4"	35' 10"	30' 10"	23' 8"
1600S250-68	50	37' 0"	32' 4"	26' 5"	36' 10"	30' 11"	23' 9"	33' 9"	30' 7"	26' 5"	36' 10"	30' 11"	23' 9"
1600S300-68	50	38' 1"	33' 3"	27' 2"	37' 3"	31' 3"	24' 0"	34' 10"	31' 7"	27' 2"	37' 3"	31' 3"	24' 0"
1600S350-68	50	40' 0"	36' 3"	30' 5"	40' 5"	33' 8"	25' 7"	36' 6"	33' 1"	28' 10"	40' 5"	33' 8"	25' 7"
1600S162-97	50	39' 4"	35' 8"	30' 10"	43' 8"	37' 9"	30' 10"	35' 11"	32' 7"	28' 4"	40' 1"	36' 4"	30' 10"
1600S200-97	50	40' 10"	37' 0"	32' 2"	45' 7"	40' 7"	33' 2"	37' 3"	33' 9"	29' 5"	41' 7"	37' 8"	32' 10"
1600S250-97	50	42' 2"	38' 3"	33' 4"	47' 2"	42' 3"	34' 6"	38' 6"	34' 11"	30' 5"	43' 0"	39' 0"	34' 0"
1600S300-97	50	43' 6"	39' 5"	34' 4"	48' 7"	43' 5"	35' 5"	39' 7"	36' 0"	31' 4"	44' 4"	40' 3"	35' 0"
1600S350-97	50	45' 5"	41' 3"	35' 11"	50' 10"	46' 1"	39' 1"	41' 4"	37' 7"	32' 9"	46' 4"	42' 0"	36' 8"
1600S162-118	50	42' 1"	38' 2"	33' 4"	47' 2"	42' 10"	35' 11"	38' 2"	34' 8"	30' 4"	42' 11"	39' 0"	34' 0"
1600S200-118	50	43' 7"	39' 7"	34' 7"	48' 11"	44' 4"	38' 6"	39' 7"	35' 11"	31' 5"	44' 5"	40' 4"	35' 3"
1600S250-118	50	45' 0"	40' 11"	35' 9"	50' 6"	45' 11"	40' 0"	40' 11"	37' 2"	32' 5"	45' 11"	41' 9"	36' 5"
1600S300-118	50	46' 4"	42' 2"	36' 10"	52' 1"	47' 4"	41' 1"	42' 2"	38' 3"	33' 5"	47' 4"	43' 0"	37' 7"
1600S350-118	50	48' 5"	44' 0"	38' 5"	54' 4"	49' 5"	43' 1"	44' 0"	40' 0"	34' 11"	49' 5"	44' 11"	39' 2"

"e" web stiffeners required at ends.

Web stiffeners required at interior supports for double span conditions.

See Table Notes on page 42.

10 psf Dead Load and 50 psf Live Load

Section	F _y (ksi)	L/360 Live Load Deflection						L/480 Live Load Deflection					
		Single Span			Double Span			Single Span			Double Span		
		Spacing (in) on center			Spacing (in) on center			Spacing (in) on center			Spacing (in) on center		
		12	16	24	12	16	24	12	16	24	12	16	24
600S162-33	33	10' 3"	8' 11"	7' 3"	10' 1"	8' 5"	6' 5"	10' 3"	8' 11"	7' 3"	10' 1"	8' 5"	6' 5"
600S200-33	33	10' 11"	9' 6"	7' 9"	10' 5"	8' 8"	6' 7"	10' 11"	9' 6"	7' 9"	10' 5"	8' 8"	6' 7"
600S162-43	33	12' 8"	11' 0"	9' 0"	12' 8"	11' 0"	8' 10"	11' 6"	10' 5"	9' 0"	12' 8"	11' 0"	8' 10"
600S200-43	33	13' 1"	11' 4"	9' 3"	13' 1"	11' 4"	9' 0"	12' 1"	11' 0"	9' 3"	13' 1"	11' 4"	9' 0"
600S250-43	33	13' 5"	11' 7"	9' 6"	13' 5"	11' 7"	9' 2"	12' 8"	11' 6"	9' 6"	13' 5"	11' 7"	9' 2"
600S162-54	50	13' 7"	12' 4"	10' 9"	15' 3"	13' 10"	12' 0"	12' 4"	11' 2"	9' 9"	13' 10"	12' 7"	11' 0"
600S200-54	50	14' 3"	13' 0"	11' 4"	16' 0"	14' 7"	12' 2"	13' 0"	11' 9"	10' 3"	14' 7"	13' 3"	11' 7"
600S250-54	50	14' 11"	13' 7"	11' 10"	16' 9"	15' 3"	12' 6"	13' 7"	12' 4"	10' 9"	15' 3"	13' 10"	12' 1"
600S162-68	50	14' 7"	13' 3"	11' 7"	16' 4"	14' 10"	13' 0"	13' 3"	12' 0"	10' 6"	14' 10"	13' 6"	11' 9"
600S200-68	50	15' 4"	13' 11"	12' 2"	17' 2"	15' 7"	13' 8"	13' 11"	12' 8"	11' 0"	15' 10"	14' 2"	12' 5"
600S250-68	50	16' 1"	14' 7"	12' 9"	18' 0"	16' 4"	14' 4"	14' 7"	13' 3"	11' 7"	16' 4"	14' 10"	13' 0"
600S162-97	50	16' 2"	14' 8"	12' 10"	18' 1"	16' 5"	14' 4"	14' 8"	13' 4"	11' 8"	16' 5"	14' 11"	13' 1"
600S200-97	50	17' 0"	15' 5"	13' 6"	19' 1"	17' 4"	15' 2"	15' 5"	14' 0"	12' 3"	17' 4"	15' 9"	13' 9"
600S250-97	50	17' 10"	16' 3"	14' 2"	20' 0"	18' 2"	15' 11"	16' 3"	14' 9"	12' 10"	18' 2"	16' 6"	14' 5"
600S162-118	50	17' 0"	15' 6"	13' 6"	19' 1"	17' 4"	15' 2"	15' 6"	14' 1"	12' 3"	17' 4"	15' 9"	13' 9"
600S200-118	50	18' 0"	16' 4"	14' 3"	20' 2"	18' 4"	16' 0"	16' 4"	14' 10"	13' 0"	18' 4"	16' 8"	14' 7"
600S250-118	50	18' 11"	17' 2"	15' 0"	21' 3"	19' 3"	16' 10"	17' 2"	15' 7"	13' 7"	19' 3"	17' 6"	15' 4"
800S162-33	33	11' 10"	10' 3"	7' 11"	9' 10"	8' 0"	5' 9"	11' 10"	10' 3"	7' 11"	9' 10"	8' 0"	5' 9"
800S200-33	33	12' 8"	11' 0"	7' 11"	10' 3"	8' 2"	5' 10"	12' 8"	11' 0"	7' 11"	10' 3"	8' 2"	5' 10"
800S162-43	33	14' 3"	12' 4"	10' 1"	13' 11"	11' 9"	9' 2"	14' 3"	12' 4"	10' 1"	13' 11"	11' 9"	9' 2"
800S200-43	33	15' 3"	13' 3"	10' 10"	15' 3"	12' 11"	10' 0"	15' 2"	13' 3"	10' 10"	15' 3"	12' 11"	10' 0"
800S250-43	33	15' 8"	13' 7"	11' 1"	15' 6"	13' 0"	10' 0"	15' 8"	13' 7"	11' 1"	15' 6"	13' 0"	10' 0"
800S162-54	50	17' 1"	15' 6"	13' 6"	19' 1"	16' 6"	13' 5"	15' 7"	14' 1"	12' 4"	17' 5"	15' 10"	13' 5"
800S200-54	50	17' 11"	16' 3"	14' 3"	20' 1"	17' 8"	14' 5"	16' 3"	14' 9"	12' 11"	18' 3"	16' 7"	14' 5"
800S250-54	50	18' 8"	17' 0"	14' 9"	20' 10"	18' 1"	14' 8"	17' 0"	15' 5"	13' 6"	19' 1"	17' 4"	14' 8"
800S162-68	50	18' 4"	16' 8"	14' 7"	20' 7"	18' 9"	15' 10"	16' 8"	15' 2"	13' 3"	18' 9"	17' 0"	14' 10"
800S200-68	50	19' 3"	17' 6"	15' 3"	21' 7"	19' 7"	17' 2"	17' 6"	15' 11"	13' 10"	19' 7"	17' 10"	15' 7"
800S250-68	50	20' 1"	18' 3"	15' 11"	22' 7"	20' 6"	17' 3"	18' 3"	16' 7"	14' 6"	20' 6"	18' 7"	16' 3"
800S162-97	50	20' 5"	18' 6"	16' 2"	22' 11"	20' 10"	18' 2"	18' 6"	16' 10"	14' 9"	20' 10"	18' 11"	16' 6"
800S200-97	50	21' 5"	19' 5"	17' 0"	24' 0"	21' 10"	19' 1"	19' 5"	17' 8"	15' 5"	21' 10"	19' 10"	17' 4"
800S250-97	50	22' 4"	20' 4"	17' 9"	25' 1"	22' 10"	19' 11"	20' 4"	18' 5"	16' 1"	22' 10"	20' 9"	18' 1"
800S162-118	50	21' 7"	19' 7"	17' 2"	24' 3"	22' 0"	19' 3"	19' 7"	17' 10"	15' 7"	22' 0"	20' 0"	17' 6"
800S200-118	50	22' 8"	20' 7"	18' 0"	25' 5"	23' 1"	20' 2"	20' 7"	18' 8"	16' 4"	23' 1"	21' 0"	18' 4"
800S250-118	50	23' 8"	21' 6"	18' 10"	26' 7"	24' 2"	21' 2"	21' 6"	19' 7"	17' 1"	24' 2"	22' 0"	19' 2"
1000S162-43	33	15' 10"	13' 8"	11' 2"	14' 8"	12' 2"	9' 1"	15' 10"	13' 8"	11' 2"	14' 8"	12' 2"	9' 1"
1000S200-43	33	17' 1"	14' 9"	12' 1"	15' 4"	12' 7"	9' 4"	17' 1"	14' 9"	12' 1"	15' 4"	12' 7"	9' 4"
1000S250-43	33	17' 6"	15' 2"	12' 5"	15' 10"	13' 0"	9' 7"	17' 6"	15' 2"	12' 5"	15' 10"	13' 0"	9' 7"
1000S162-54	50	20' 4"	18' 4"	15' 0"	21' 2"	18' 2"	14' 2"	18' 6"	16' 10"	14' 7"	20' 8"	18' 2"	14' 2"
1000S200-54	50	21' 3"	19' 3"	16' 1"	22' 2"	18' 9"	14' 7"	19' 4"	17' 7"	15' 3"	21' 8"	18' 9"	14' 7"
1000S250-54	50	22' 4"	20' 3"	16' 6"	23' 1"	19' 6"	15' 1"	20' 3"	18' 5"	16' 1"	22' 9"	19' 6"	15' 1"
1000S162-68	50	22' 1"	20' 0"	17' 5"	24' 8"	21' 8"	17' 8"	20' 1"	18' 3"	15' 11"	22' 6"	20' 5"	17' 8"
1000S200-68	50	23' 0"	20' 11"	18' 3"	25' 9"	23' 2"	18' 11"	20' 11"	19' 0"	16' 7"	23' 6"	21' 4"	18' 7"
1000S250-68	50	24' 0"	21' 9"	19' 0"	26' 11"	23' 10"	19' 5"	21' 9"	19' 9"	17' 3"	24' 5"	22' 3"	19' 5"
1000S162-97	50	24' 7"	22' 4"	19' 6"	27' 7"	25' 1"	21' 11"	22' 4"	20' 3"	17' 9"	25' 1"	22' 9"	19' 11"
1000S200-97	50	25' 8"	23' 4"	20' 4"	28' 10"	26' 2"	22' 10"	23' 4"	21' 2"	18' 6"	26' 2"	23' 9"	20' 9"
1000S250-97	50	26' 9"	24' 3"	21' 2"	30' 0"	27' 3"	23' 10"	24' 3"	22' 1"	19' 3"	27' 3"	24' 9"	21' 8"
1000S162-118	50	26' 0"	23' 8"	20' 8"	29' 3"	26' 7"	23' 2"	23' 8"	21' 6"	18' 9"	26' 7"	24' 1"	21' 1"
1000S200-118	50	27' 3"	24' 9"	21' 7"	30' 7"	27' 9"	24' 3"	24' 9"	22' 6"	19' 7"	27' 9"	25' 3"	22' 0"
1000S250-118	50	28' 4"	25' 9"	22' 6"	31' 10"	28' 11"	25' 3"	25' 9"	23' 5"	20' 5"	28' 11"	26' 3"	22' 11"

"e" web stiffeners required at ends.

Web stiffeners required at interior supports for double span conditions.

See Table Notes on page 42.



Floor Joist Spans

10 psf Dead Load and 50 psf Live Load

Section	F _y (ksi)	L/360 Live Load Deflection						L/480 Live Load Deflection					
		Single Span			Double Span			Single Span			Double Span		
		Spacing (in) on center			Spacing (in) on center			Spacing (in) on center			Spacing (in) on center		
		12	16	24	12	16	24	12	16	24	12	16	24
1200S162-54	50	22' 10"	19' 9"	16' 1"	22' 5"	18' 9"	14' 2"	21' 4"	19' 4"	16' 1"	22' 5"	18' 9"	14' 2"
1200S200-54	50	24' 4"	21' 4"	17' 5"	23' 2"	19' 3"	14' 6"	22' 3"	20' 2"	17' 5"	23' 2"	19' 3"	14' 6"
1200S250-54	50	25' 4"	22' 1"	18' 0"	23' 5"	19' 6"	14' 8"	23' 1"	21' 0"	18' 0"	23' 5"	19' 6"	14' 8"
1200S162-68	50	25' 6"	23' 1"	19' 2"	27' 1"	23' 6"	19' 2"	23' 3"	21' 1"	18' 4"	25' 11"	23' 6"	19' 2"
1200S200-68	50	26' 6"	24' 1"	20' 7"	29' 2"	25' 3"	20' 4"	24' 2"	21' 11"	19' 1"	27' 1"	24' 6"	20' 4"
1200S250-68	50	27' 7"	25' 0"	21' 3"	30' 1"	25' 9"	20' 5"	25' 2"	22' 10"	19' 10"	28' 1"	25' 6"	20' 5"
1200S162-97	50	28' 8"	26' 1"	22' 9"	32' 2"	29' 3"	24' 10"	26' 1"	23' 8"	20' 8"	29' 3"	26' 7"	23' 3"
1200S200-97	50	29' 10"	27' 1"	23' 8"	33' 6"	30' 5"	26' 7"	27' 1"	24' 8"	21' 6"	30' 5"	27' 8"	24' 2"
1200S250-97	50	31' 0"	28' 2"	24' 7"	34' 9"	31' 7"	27' 5"	28' 2"	25' 7"	22' 4"	31' 7"	28' 9"	25' 1"
1200S162-118	50	30' 5"	27' 7"	24' 2"	34' 2"	31' 0"	27' 1"	27' 7"	25' 1"	21' 11"	31' 0"	28' 2"	24' 7"
1200S200-118	50	31' 8"	28' 9"	25' 2"	35' 7"	32' 4"	28' 3"	28' 9"	26' 2"	22' 10"	32' 4"	29' 4"	25' 8"
1200S250-118	50	32' 11"	29' 11"	26' 1"	36' 11"	33' 7"	29' 4"	29' 11"	27' 2"	23' 9"	33' 7"	30' 6"	26' 8"
1200S300-118	50	34' 0"	30' 11"	27' 0"	38' 3"	34' 9"	30' 4"	30' 11"	28' 1"	24' 7"	34' 9"	31' 7"	27' 7"
1200S350-118	50	35' 8"	32' 5"	28' 4"	40' 1"	36' 5"	31' 10"	32' 5"	29' 5"	25' 9"	36' 5"	33' 1"	28' 11"
1400S162-54	50	24' 1"	20' 10"	17' 0"	22' 9"	18' 7"	13' 8"	24' 0"	20' 10"	17' 0"	22' 9"	18' 7"	13' 8"
1400S200-54	50	26' 2"	22' 8"	18' 6"	23' 4"	19' 0"	13' 10"	25' 0"	22' 8"	18' 6"	23' 4"	19' 0"	13' 10"
1400S250-54	50	27' 2"	23' 7"	19' 3"	23' 7"	19' 2"	13' 11"	25' 11"	23' 6"	19' 3"	23' 7"	19' 2"	13' 11"
1400S300-54	50	27' 10"	24' 1"	19' 7"	23' 9"	19' 3"	14' 0"	26' 9"	24' 1"	19' 7"	23' 9"	19' 3"	14' 0"
1400S350-54	50	31' 2"	27' 1"	19' 7"	25' 3"	20' 3"	14' 6"	28' 7"	25' 11"	19' 7"	25' 3"	20' 3"	14' 6"
1400S162-68	50	28' 8"	24' 11"	20' 4"	28' 9"	24' 11"	20' 1"	26' 3"	23' 9"	20' 4"	28' 9"	24' 11"	20' 1"
1400S200-68	50	29' 11"	26' 11"	22' 0"	31' 1"	26' 10"	20' 11"	27' 3"	24' 9"	21' 6"	30' 5"	26' 10"	20' 11"
1400S250-68	50	31' 0"	27' 11"	22' 10"	31' 11"	27' 10"	21' 0"	28' 4"	25' 8"	22' 4"	31' 7"	27' 0"	21' 0"
1400S300-68	50	32' 0"	28' 7"	23' 4"	32' 4"	27' 3"	21' 3"	29' 3"	26' 6"	23' 0"	32' 4"	27' 3"	21' 3"
1400S350-68	50	33' 11"	30' 10"	26' 1"	35' 11"	30' 1"	23' 1"	30' 10"	28' 0"	24' 6"	34' 7"	30' 1"	23' 1"
1400S162-97	50	32' 9"	29' 8"	25' 10"	36' 7"	32' 8"	26' 8"	29' 9"	27' 0"	23' 7"	33' 4"	30' 3"	26' 4"
1400S200-97	50	34' 0"	30' 10"	26' 10"	38' 0"	34' 6"	28' 7"	30' 10"	28' 1"	24' 6"	34' 8"	31' 5"	27' 5"
1400S250-97	50	35' 2"	31' 11"	27' 10"	39' 5"	35' 9"	29' 7"	31' 11"	29' 0"	25' 4"	35' 11"	32' 7"	28' 5"
1400S300-97	50	36' 3"	33' 0"	28' 9"	40' 8"	36' 11"	30' 4"	33' 0"	29' 11"	26' 2"	37' 0"	33' 8"	29' 4"
1400S350-97	50	37' 11"	34' 6"	30' 1"	42' 7"	38' 8"	33' 5"	34' 6"	31' 4"	27' 4"	38' 8"	35' 2"	30' 9"
1400S162-118	50	34' 9"	31' 7"	27' 7"	39' 0"	35' 5"	30' 11"	31' 7"	28' 8"	25' 1"	35' 5"	32' 2"	28' 1"
1400S200-118	50	36' 1"	32' 9"	28' 8"	40' 6"	36' 10"	32' 2"	32' 9"	29' 9"	26' 0"	36' 10"	33' 5"	29' 2"
1400S250-118	50	37' 4"	33' 11"	29' 8"	41' 11"	38' 1"	33' 4"	33' 11"	30' 10"	26' 11"	38' 1"	34' 8"	30' 3"
1400S300-118	50	38' 7"	35' 1"	30' 7"	43' 4"	39' 4"	34' 4"	35' 1"	31' 10"	27' 10"	39' 4"	35' 9"	31' 3"
1400S350-118	50	40' 4"	36' 8"	32' 0"	45' 4"	41' 2"	36' 0"	36' 8"	33' 4"	29' 1"	41' 2"	37' 5"	32' 8"
1600S162-68	50	30' 2"	26' 1"	21' 4"	30' 2"	26' 1"	20' 3"	29' 1"	26' 1"	21' 4"	30' 2"	26' 1"	20' 3"
1600S200-68	50	32' 8"	28' 4"	23' 2"	32' 8"	27' 5"	20' 11"	30' 3"	27' 5"	23' 2"	32' 8"	27' 5"	20' 11"
1600S250-68	50	34' 1"	29' 6"	24' 1"	33' 0"	27' 7"	21' 0"	31' 4"	28' 5"	24' 1"	33' 0"	27' 7"	21' 0"
1600S300-68	50	35' 1"	30' 4"	24' 9"	33' 4"	27' 10"	21' 2"	32' 4"	29' 4"	24' 9"	33' 4"	27' 10"	21' 2"
1600S350-68	50	37' 1"	33' 8"	27' 9"	36' 1"	29' 10"	22' 5"	33' 10"	30' 8"	26' 9"	36' 1"	29' 10"	22' 5"
1600S162-97	50	36' 6"	33' 1"	28' 2"	39' 10"	34' 6"	28' 2"	33' 4"	30' 3"	26' 4"	37' 2"	33' 8"	28' 2"
1600S200-97	50	37' 10"	34' 4"	29' 10"	42' 3"	37' 1"	30' 3"	34' 6"	31' 4"	27' 3"	38' 7"	35' 0"	30' 3"
1600S250-97	50	39' 2"	35' 6"	30' 11"	43' 9"	38' 7"	31' 6"	35' 8"	32' 5"	28' 2"	39' 11"	36' 2"	31' 6"
1600S300-97	50	40' 4"	36' 7"	31' 11"	45' 1"	39' 7"	32' 4"	36' 9"	33' 4"	29' 1"	41' 2"	37' 4"	32' 4"
1600S350-97	50	42' 2"	38' 3"	33' 4"	47' 2"	42' 9"	35' 5"	38' 5"	34' 10"	30' 5"	43' 0"	39' 0"	34' 0"
1600S162-118	50	39' 0"	35' 6"	30' 11"	43' 9"	39' 8"	32' 10"	35' 6"	32' 3"	28' 2"	39' 10"	36' 2"	31' 7"
1600S200-118	50	40' 5"	36' 9"	32' 1"	45' 5"	41' 2"	35' 1"	36' 9"	33' 4"	29' 2"	41' 3"	37' 6"	32' 9"
1600S250-118	50	41' 9"	37' 11"	33' 2"	46' 11"	42' 7"	36' 6"	37' 11"	34' 6"	30' 2"	42' 7"	38' 9"	33' 10"
1600S300-118	50	43' 1"	39' 1"	34' 2"	48' 4"	43' 11"	37' 6"	39' 1"	35' 6"	31' 0"	43' 11"	39' 11"	34' 10"
1600S350-118	50	44' 11"	40' 10"	35' 8"	50' 6"	45' 10"	40' 0"	40' 10"	37' 1"	32' 5"	45' 10"	41' 8"	36' 5"

"e" web stiffeners required at ends.

Web stiffeners required at interior supports for double span conditions.

See Table Notes on page 42.

15 psf Dead Load and 125 psf Live Load

Section	F _y (ksi)	L/360 Live Load Deflection						L/480 Live Load Deflection					
		Single Span			Double Span			Single Span			Double Span		
		Spacing (in) on center			Spacing (in) on center			Spacing (in) on center			Spacing (in) on center		
		12	16	24	12	16	24	12	16	24	12	16	24
600S162-33	33	6' 9"	5' 10"	4' 7"	5' 9"	4' 8"	3' 4"	6' 9"	5' 10"	4' 7"	5' 9"	4' 8"	3' 4"
600S200-33	33	7' 2"	6' 2"	4' 7"	5' 11"	4' 9"	3' 4"	7' 2"	6' 2"	4' 7"	5' 11"	4' 9"	3' 4"
600S162-43	33	8' 4"	7' 2"	5' 10"	8' 1"	6' 9"	5' 2"	8' 4"	7' 2"	5' 10"	8' 1"	6' 9"	5' 2"
600S200-43	33	8' 7"	7' 5"	6' 1"	8' 2"	6' 10"	5' 3"	8' 7"	7' 5"	6' 1"	8' 2"	6' 10"	5' 3"
600S250-43	33	8' 9"	7' 7"	6' 3"	8' 4"	7' 0"	5' 4"	8' 9"	7' 7"	6' 3"	8' 4"	7' 0"	5' 4"
600S162-54	50	10' 0"	9' 1"	7' 10"	11' 1"	9' 5"	7' 4"	9' 1"	8' 3"	7' 3"	10' 2"	9' 3"	7' 4"
600S200-54	50	10' 6"	9' 7"	8' 1"	11' 2"	9' 5"	7' 4"	9' 7"	8' 8"	7' 7"	10' 9"	9' 5"	7' 4"
600S250-54	50	11' 0"	10' 0"	8' 3"	11' 5"	9' 8"	7' 6"	10' 0"	9' 1"	7' 11"	11' 3"	9' 8"	7' 6"
600S162-68	50	10' 9"	9' 9"	8' 6"	12' 0"	10' 11"	8' 11"	9' 9"	8' 10"	7' 9"	10' 11"	9' 11"	8' 8"
600S200-68	50	11' 3"	10' 3"	8' 11"	12' 8"	11' 6"	9' 4"	10' 3"	9' 4"	8' 2"	11' 6"	10' 5"	9' 2"
600S250-68	50	11' 10"	10' 9"	9' 5"	13' 3"	11' 5"	9' 1"	10' 9"	9' 9"	8' 6"	12' 1"	10' 11"	9' 1"
600S162-97	50	11' 11"	10' 10"	9' 5"	13' 4"	12' 1"	10' 7"	10' 10"	9' 10"	8' 7"	12' 1"	11' 0"	9' 7"
600S200-97	50	12' 6"	11' 4"	9' 11"	14' 1"	12' 9"	11' 2"	11' 4"	10' 4"	9' 0"	12' 9"	11' 7"	10' 2"
600S250-97	50	13' 2"	11' 11"	10' 5"	14' 9"	13' 5"	11' 9"	11' 11"	10' 10"	9' 6"	13' 5"	12' 2"	10' 8"
600S162-118	50	12' 7"	11' 5"	10' 0"	14' 1"	12' 10"	11' 2"	11' 5"	10' 4"	9' 1"	12' 10"	11' 8"	10' 2"
600S200-118	50	13' 3"	12' 0"	10' 6"	14' 10"	13' 6"	11' 10"	12' 0"	10' 11"	9' 7"	13' 6"	12' 3"	10' 9"
600S250-118	50	13' 11"	12' 8"	11' 1"	15' 8"	14' 2"	12' 5"	12' 8"	11' 6"	10' 0"	14' 2"	12' 11"	11' 3"
800S162-33	33	6' 9"	5' 1"	3' 5"	5' 0"	3' 11"	2' 8"	6' 9"	5' 1"	3' 5"	5' 0"	3' 11"	2' 8"
800S200-33	33	6' 9"	5' 1"	3' 5"	5' 1"	3' 11"	2' 8"	6' 9"	5' 1"	3' 5"	5' 1"	3' 11"	2' 8"
800S162-43	33	9' 4"	8' 1"	6' 7"	8' 4"	6' 10"	5' 1"	9' 4"	8' 1"	6' 7"	8' 4"	6' 10"	5' 1"
800S200-43	33	10' 0"	8' 8"	7' 1"	9' 0"	7' 4"	5' 4"	10' 0"	8' 8"	7' 1"	9' 0"	7' 4"	5' 4"
800S250-43	33	10' 3"	8' 11"	7' 3"	9' 0"	7' 4"	5' 4"	10' 3"	8' 11"	7' 3"	9' 0"	7' 4"	5' 4"
800S162-54	50	12' 6"	10' 10"	8' 10"	12' 3"	10' 4"	8' 1"	11' 5"	10' 4"	8' 10"	12' 3"	10' 4"	8' 1"
800S200-54	50	13' 2"	11' 7"	9' 5"	13' 4"	11' 2"	8' 7"	12' 0"	10' 11"	9' 5"	13' 4"	11' 2"	8' 7"
800S250-54	50	13' 8"	11' 10"	9' 8"	13' 5"	11' 3"	8' 8"	12' 6"	11' 4"	9' 8"	13' 5"	11' 3"	8' 8"
800S162-68	50	13' 6"	12' 4"	10' 4"	14' 8"	12' 8"	10' 1"	12' 4"	11' 2"	9' 9"	13' 10"	12' 7"	10' 1"
800S200-68	50	14' 2"	12' 11"	11' 3"	15' 11"	14' 0"	11' 3"	12' 11"	11' 8"	10' 3"	14' 5"	13' 2"	11' 3"
800S250-68	50	14' 10"	13' 5"	11' 4"	16' 0"	13' 10"	11' 0"	13' 5"	12' 3"	10' 8"	15' 1"	13' 9"	11' 0"
800S162-97	50	15' 0"	13' 8"	11' 11"	16' 11"	15' 4"	12' 8"	13' 8"	12' 5"	10' 10"	15' 4"	13' 11"	12' 2"
800S200-97	50	15' 9"	14' 4"	12' 6"	17' 8"	16' 1"	14' 1"	16' 1"	13' 0"	11' 4"	16' 1"	14' 7"	12' 9"
800S250-97	50	16' 6"	15' 0"	13' 1"	18' 6"	16' 10"	14' 8"	15' 0"	13' 7"	11' 11"	16' 10"	15' 3"	13' 4"
800S162-118	50	15' 11"	14' 5"	12' 7"	17' 10"	16' 3"	14' 2"	14' 5"	13' 2"	11' 6"	16' 3"	14' 9"	12' 11"
800S200-118	50	16' 8"	15' 2"	13' 3"	18' 9"	17' 0"	14' 11"	15' 2"	13' 9"	12' 0"	17' 0"	15' 6"	13' 6"
800S250-118	50	17' 6"	15' 10"	13' 10"	19' 7"	17' 10"	15' 7"	15' 10"	14' 5"	12' 7"	17' 10"	16' 2"	14' 2"
1000S162-43	33	10' 4"	8' 11"	6' 0"	8' 1"	6' 5"	4' 6"	10' 4"	8' 11"	6' 0"	8' 1"	6' 5"	4' 6"
1000S200-43	33	11' 2"	8' 11"	6' 0"	8' 3"	6' 6"	4' 7"	11' 2"	8' 11"	6' 0"	8' 3"	6' 6"	4' 7"
1000S250-43	33	11' 6"	8' 11"	6' 0"	8' 5"	6' 7"	4' 7"	11' 6"	8' 11"	6' 0"	8' 5"	6' 7"	4' 7"
1000S162-54	50	13' 10"	12' 0"	9' 10"	12' 10"	10' 7"	7' 11"	13' 7"	12' 0"	9' 10"	12' 10"	10' 7"	7' 11"
1000S200-54	50	14' 11"	12' 11"	10' 6"	13' 3"	10' 10"	8' 0"	14' 2"	12' 10"	10' 6"	13' 3"	10' 10"	8' 0"
1000S250-54	50	15' 4"	13' 3"	10' 10"	13' 8"	11' 2"	8' 2"	14' 11"	13' 3"	10' 10"	13' 8"	11' 2"	8' 2"
1000S162-68	50	16' 2"	14' 2"	11' 7"	16' 5"	14' 2"	11' 2"	14' 9"	13' 5"	11' 7"	16' 5"	14' 2"	11' 2"
1000S200-68	50	16' 11"	15' 2"	12' 5"	17' 6"	14' 10"	11' 8"	15' 5"	14' 0"	12' 2"	17' 3"	14' 10"	11' 8"
1000S250-68	50	17' 8"	15' 7"	12' 9"	18' 0"	15' 7"	12' 4"	16' 1"	14' 7"	12' 9"	18' 0"	15' 7"	12' 4"
1000S162-97	50	18' 1"	16' 5"	14' 4"	20' 4"	18' 2"	14' 9"	16' 5"	14' 11"	13' 1"	18' 6"	16' 9"	14' 8"
1000S200-97	50	18' 11"	17' 2"	15' 0"	21' 3"	19' 3"	15' 8"	17' 2"	15' 7"	13' 8"	19' 3"	17' 6"	15' 4"
1000S250-97	50	19' 8"	17' 11"	15' 8"	22' 1"	20' 1"	16' 11"	17' 11"	16' 3"	14' 2"	20' 1"	18' 3"	15' 11"
1000S162-118	50	19' 2"	17' 5"	15' 3"	21' 6"	19' 7"	16' 7"	17' 5"	15' 10"	13' 10"	19' 7"	17' 9"	15' 6"
1000S200-118	50	20' 1"	18' 3"	15' 11"	22' 6"	20' 5"	17' 8"	18' 3"	16' 7"	14' 5"	20' 5"	18' 7"	16' 3"
1000S250-118	50	20' 11"	19' 0"	16' 7"	23' 5"	21' 4"	18' 7"	19' 0"	17' 3"	15' 1"	21' 4"	19' 4"	16' 11"

"e" web stiffeners required at ends.

Web stiffeners required at interior supports for double span conditions.

See Table Notes on page 42.



Floor Joist Spans

15 psf Dead Load and 125 psf Live Load

Section	F _y (ksi)	L/360 Live Load Deflection						L/480 Live Load Deflection					
		Single Span			Double Span			Single Span			Double Span		
		Spacing (in) on center			Spacing (in) on center			Spacing (in) on center			Spacing (in) on center		
		12	16	24	12	16	24	12	16	24	12	16	24
1200S162-54	50	14' 11"e	12' 11"e	9' 10"e	12' 8"e	10' 2"e	7' 3"e	14' 11"e	12' 11"e	9' 10"e	12' 8"e	10' 2"e	7' 3"e
1200S200-54	50	16' 2"e	14' 0"e	9' 10"e	12' 11"e	10' 4"e	7' 4"e	16' 2"e	14' 0"e	9' 10"e	12' 11"e	10' 4"e	7' 4"e
1200S250-54	50	16' 8"e	14' 5"e	9' 10"e	13' 1"e	10' 5"e	7' 4"e	16' 8"e	14' 5"e	9' 10"e	13' 1"e	10' 5"e	7' 4"e
1200S162-68	50	17' 9"e	15' 4"e	12' 7"e	17' 8"e	14' 10"e	11' 5"e	17' 0"e	15' 4"e	12' 7"e	17' 8"e	14' 10"e	11' 5"e
1200S200-68	50	19' 1"e	16' 6"e	13' 6"e	18' 6"e	15' 6"e	11' 10"e	17' 9"e	16' 1"e	13' 6"e	18' 6"e	15' 6"e	11' 10"e
1200S250-68	50	19' 9"e	17' 1"e	13' 11"e	18' 7"e	15' 7"e	11' 11"e	18' 5"e	16' 9"e	13' 11"e	18' 7"e	15' 7"e	11' 11"e
1200S162-97	50	21' 2"e	19' 2"e	16' 3"e	23' 0"e	19' 11"e	16' 3"e	19' 2"e	17' 5"e	15' 3"e	21' 7"e	19' 7"e	16' 3"e
1200S200-97	50	22' 0"e	20' 0"e	17' 5"e	24' 7"e	21' 3"e	17' 5"e	20' 0"e	18' 2"e	15' 10"e	22' 5"e	20' 5"e	17' 5"e
1200S250-97	50	22' 10"e	20' 9"e	17' 11"e	25' 5"e	22' 0"e	17' 11"e	20' 9"e	18' 10"e	16' 6"e	23' 3"e	21' 2"e	17' 11"e
1200S162-118	50	22' 5"e	20' 4"e	17' 9"e	25' 2"e	22' 10"e	18' 9"e	20' 4"e	18' 6"e	16' 2"e	22' 10"e	20' 9"e	18' 2"e
1200S200-118	50	23' 4"e	21' 2"e	18' 6"e	26' 2"e	23' 10"e	19' 11"e	21' 2"e	19' 3"e	16' 10"e	23' 10"e	21' 8"e	18' 11"e
1200S250-118	50	24' 3"e	22' 0"e	19' 3"e	27' 3"e	24' 9"e	20' 7"e	22' 0"e	20' 0"e	17' 6"e	24' 9"e	22' 6"e	19' 7"e
1200S300-118	50	25' 1"e	22' 9"e	19' 11"e	28' 2"e	25' 7"e	21' 11"e	22' 9"e	20' 8"e	18' 1"e	25' 7"e	23' 3"e	20' 4"e
1200S350-118	50	26' 4"e	23' 11"e	20' 10"e	29' 6"e	26' 10"e	23' 5"e	23' 11"e	21' 8"e	19' 0"e	26' 10"e	24' 4"e	21' 3"e
1400S162-54	50	15' 9"e	12' 7"e	8' 5"e	12' 0"e	9' 5"e	6' 6"e	15' 9"e	12' 7"e	8' 5"e	12' 0"e	9' 5"e	6' 6"e
1400S200-54	50	16' 10"e	12' 7"e	8' 5"e	12' 2"e	9' 6"e	6' 6"e	16' 10"e	12' 7"e	8' 5"e	12' 2"e	9' 6"e	6' 6"e
1400S250-54	50	16' 10"e	12' 7"e	8' 5"e	12' 3"e	9' 6"e	6' 6"e	16' 10"e	12' 7"e	8' 5"e	12' 3"e	9' 6"e	6' 6"e
1400S300-54	50	16' 10"e	12' 7"e	8' 5"e	12' 3"e	9' 6"e	6' 6"e	16' 10"e	12' 7"e	8' 5"e	12' 3"e	9' 6"e	6' 6"e
1400S350-54	50	16' 10"e	12' 7"e	8' 5"e	12' 7"e	9' 8"e	6' 7"e	16' 10"e	12' 7"e	8' 5"e	12' 7"e	9' 8"e	6' 7"e
1400S162-68	50	18' 10"e	16' 4"e	13' 4"e	18' 2"e	15' 0"e	11' 2"e	18' 10"e	16' 4"e	13' 4"e	18' 2"e	15' 0"e	11' 2"e
1400S200-68	50	20' 4"e	17' 8"e	14' 5"e	18' 11"e	15' 6"e	11' 6"e	20' 0"e	17' 8"e	14' 5"e	18' 11"e	15' 6"e	11' 6"e
1400S250-68	50	21' 2"e	18' 4"e	14' 11"e	19' 0"e	15' 7"e	11' 6"e	20' 9"e	18' 4"e	14' 11"e	19' 0"e	15' 7"e	11' 6"e
1400S300-68	50	21' 8"e	18' 9"e	15' 4"e	19' 2"e	15' 9"e	11' 7"e	21' 4"e	18' 9"e	15' 4"e	19' 2"e	15' 9"e	11' 7"e
1400S350-68	50	24' 2"e	20' 11"e	16' 11"e	20' 9"e	16' 10"e	12' 2"e	22' 9"e	20' 8"e	16' 11"e	20' 9"e	16' 10"e	12' 2"e
1400S162-97	50	24' 0"e	21' 5"e	17' 5"e	24' 8"e	21' 5"e	17' 5"e	21' 11"e	19' 10"e	17' 3"e	24' 5"e	21' 5"e	17' 5"e
1400S200-97	50	24' 11"e	22' 7"e	18' 8"e	26' 5"e	22' 11"e	18' 8"e	22' 9"e	20' 8"e	18' 0"e	25' 5"e	22' 11"e	18' 8"e
1400S250-97	50	25' 10"e	23' 5"e	19' 5"e	27' 5"e	23' 9"e	19' 4"e	23' 7"e	21' 4"e	18' 8"e	26' 4"e	23' 9"e	19' 4"e
1400S300-97	50	26' 8"e	24' 3"e	19' 10"e	28' 1"e	24' 4"e	19' 10"e	24' 4"e	22' 1"e	19' 3"e	27' 3"e	24' 4"e	19' 10"e
1400S350-97	50	28' 0"e	25' 5"e	21' 11"e	30' 11"e	26' 10"e	21' 11"e	25' 5"e	23' 1"e	20' 2"e	28' 6"e	25' 11"e	21' 11"e
1400S162-118	50	25' 7"e	23' 3"e	20' 3"e	28' 7"e	24' 9"e	20' 3"e	23' 3"e	21' 1"e	18' 5"e	26' 1"e	23' 9"e	20' 3"e
1400S200-118	50	26' 7"e	24' 2"e	21' 1"e	29' 10"e	26' 5"e	21' 7"e	24' 2"e	21' 11"e	19' 2"e	27' 1"e	24' 8"e	21' 6"e
1400S250-118	50	27' 6"e	25' 0"e	21' 10"e	30' 11"e	27' 5"e	22' 5"e	25' 0"e	22' 9"e	19' 10"e	28' 1"e	25' 6"e	22' 3"e
1400S300-118	50	28' 5"e	25' 10"e	22' 7"e	31' 11"e	28' 1"e	22' 11"e	25' 10"e	23' 6"e	20' 6"e	29' 0"e	26' 4"e	22' 11"e
1400S350-118	50	29' 9"e	27' 0"e	23' 7"e	33' 5"e	30' 4"e	25' 11"e	27' 0"e	24' 7"e	21' 5"e	30' 4"e	27' 7"e	24' 1"e
1600S162-68	50	19' 9"e	17' 1"e	14' 0"e	18' 2"e	14' 8"e	10' 7"e	19' 9"e	17' 1"e	14' 0"e	18' 2"e	14' 8"e	10' 7"e
1600S200-68	50	21' 5"e	18' 7"e	14' 9"e	18' 9"e	15' 1"e	10' 9"e	21' 5"e	18' 7"e	14' 9"e	18' 9"e	15' 1"e	10' 9"e
1600S250-68	50	22' 4"e	19' 4"e	14' 9"e	18' 9"e	15' 1"e	10' 10"e	22' 4"e	19' 4"e	14' 9"e	18' 9"e	15' 1"e	10' 10"e
1600S300-68	50	22' 11"e	19' 10"e	14' 9"e	18' 11"e	15' 2"e	10' 10"e	22' 11"e	19' 10"e	14' 9"e	18' 11"e	15' 2"e	10' 10"e
1600S350-68	50	25' 9"e	22' 1"e	14' 9"e	19' 11"e	15' 9"e	11' 1"e	24' 10"e	22' 1"e	14' 9"e	19' 11"e	15' 9"e	11' 1"e
1600S162-97	50	26' 1"e	22' 7"e	18' 5"e	26' 1"e	22' 7"e	18' 5"e	24' 5"e	22' 1"e	18' 5"e	26' 1"e	22' 7"e	18' 5"e
1600S200-97	50	27' 9"e	24' 3"e	19' 10"e	28' 0"e	24' 3"e	19' 7"e	25' 4"e	22' 11"e	19' 10"e	28' 0"e	24' 3"e	19' 7"e
1600S250-97	50	28' 8"e	25' 3"e	20' 7"e	29' 2"e	25' 3"e	20' 1"e	26' 2"e	23' 9"e	20' 7"e	29' 2"e	25' 3"e	20' 1"e
1600S300-97	50	29' 7"e	25' 11"e	21' 2"e	29' 11"e	25' 11"e	20' 7"e	27' 0"e	24' 6"e	21' 2"e	29' 11"e	25' 11"e	20' 7"e
1600S350-97	50	30' 11"e	28' 1"e	23' 5"e	32' 6"e	27' 7"e	21' 7"e	28' 2"e	25' 7"e	22' 4"e	31' 7"e	27' 7"e	21' 7"e
1600S162-118	50	28' 9"e	26' 1"e	21' 6"e	30' 4"e	26' 4"e	21' 6"e	26' 2"e	23' 9"e	20' 8"e	29' 3"e	26' 4"e	21' 6"e
1600S200-118	50	29' 9"e	27' 0"e	23' 0"e	32' 6"e	28' 2"e	23' 0"e	27' 1"e	24' 7"e	21' 6"e	30' 4"e	27' 6"e	23' 0"e
1600S250-118	50	30' 9"e	27' 11"e	23' 11"e	33' 10"e	29' 3"e	23' 11"e	28' 0"e	25' 5"e	22' 2"e	31' 5"e	28' 6"e	23' 11"e
1600S300-118	50	31' 9"e	28' 10"e	24' 7"e	34' 9"e	30' 1"e	24' 7"e	28' 10"e	26' 2"e	22' 10"e	32' 4"e	29' 4"e	24' 7"e
1600S350-118	50	33' 1"e	30' 1"e	26' 3"e	37' 1"e	33' 0"e	26' 11"e	30' 1"e	27' 4"e	23' 11"e	33' 9"e	30' 8"e	26' 9"e

"e" web stiffeners required at ends.

Web stiffeners required at interior supports for double span conditions.

See Table Notes on page 42.

40 psf Dead Load and 125 psf Live Load

Section	F _y (ksi)	L/360 Live Load Deflection						L/480 Live Load Deflection					
		Single Span			Double Span			Single Span			Double Span		
		Spacing (in) on center			Spacing (in) on center			Spacing (in) on center			Spacing (in) on center		
		12	16	24	12	16	24	12	16	24	12	16	24
600S162-33	33	6' 2"	5' 4"	3' 10"	5' 1"	4' 1"	2' 11"	6' 2"	5' 4"	3' 10"	5' 1"	4' 1"	2' 11"
600S200-33	33	6' 7"	5' 9"	3' 10"	5' 2"	4' 2"	2' 11"	6' 7"	5' 9"	3' 10"	5' 2"	4' 2"	2' 11"
600S162-43	33	7' 8"	6' 7"	5' 5"	7' 4"	6' 1"	4' 8"	7' 8"	6' 7"	5' 5"	7' 4"	6' 1"	4' 8"
600S200-43	33	7' 11"	6' 10"	5' 7"	7' 5"	6' 2"	4' 8"	7' 11"	6' 10"	5' 7"	7' 5"	6' 2"	4' 8"
600S250-43	33	8' 1"	7' 0"	5' 9"	7' 7"	6' 3"	4' 9"	8' 1"	7' 0"	5' 9"	7' 7"	6' 3"	4' 9"
600S162-54	50	10' 0"	8' 10"	7' 3"	10' 2"	8' 7"	6' 7"	9' 1"	8' 3"	7' 3"	10' 2"	8' 7"	6' 7"
600S200-54	50	10' 6"	9' 1"	7' 5"	10' 2"	8' 7"	6' 7"	9' 7"	8' 8"	7' 5"	10' 2"	8' 7"	6' 7"
600S250-54	50	10' 9"	9' 4"	7' 7"	10' 5"	8' 9"	6' 9"	10' 0"	9' 1"	7' 7"	10' 5"	8' 9"	6' 9"
600S162-68	50	10' 9"	9' 9"	8' 6"	12' 0"	10' 3"	8' 1"	9' 9"	8' 10"	7' 9"	10' 11"	9' 11"	8' 1"
600S200-68	50	11' 3"	10' 3"	8' 11"	12' 7"	10' 8"	8' 5"	10' 3"	9' 4"	8' 5"	11' 3"	10' 5"	8' 5"
600S250-68	50	11' 10"	10' 9"	8' 11"	12' 3"	10' 5"	8' 3"	10' 9"	9' 9"	8' 6"	12' 1"	10' 5"	8' 3"
600S162-97	50	11' 11"	10' 10"	9' 5"	13' 4"	12' 1"	9' 10"	10' 10"	9' 10"	8' 7"	12' 1"	11' 0"	9' 7"
600S200-97	50	12' 6"	11' 4"	9' 11"	14' 1"	12' 9"	10' 5"	11' 4"	10' 4"	9' 0"	12' 9"	11' 7"	10' 2"
600S250-97	50	13' 2"	11' 11"	10' 5"	14' 9"	13' 5"	10' 8"	11' 11"	10' 10"	9' 6"	13' 5"	12' 2"	10' 8"
600S162-118	50	12' 7"	11' 5"	10' 0"	14' 1"	12' 10"	10' 7"	11' 5"	10' 4"	9' 1"	12' 10"	11' 8"	10' 2"
600S200-118	50	13' 3"	12' 0"	10' 6"	14' 10"	13' 6"	11' 1"	12' 0"	10' 11"	9' 7"	13' 3"	12' 3"	10' 9"
600S250-118	50	13' 11"	12' 8"	11' 1"	15' 8"	14' 2"	11' 6"	12' 8"	11' 6"	10' 0"	14' 2"	12' 11"	11' 3"
800S162-33	33	5' 9"	4' 4"	2' 10"	4' 4"	3' 4"	2' 3"	5' 9"	4' 4"	2' 10"	4' 4"	3' 4"	2' 3"
800S200-33	33	5' 9"	4' 4"	2' 10"	4' 5"	3' 4"	2' 3"	5' 9"	4' 4"	2' 10"	4' 5"	3' 4"	2' 3"
800S162-43	33	8' 7"	7' 5"	6' 1"	7' 5"	6' 1"	4' 5"	8' 7"	7' 5"	6' 1"	7' 5"	6' 1"	4' 5"
800S200-43	33	9' 2"	8' 0"	6' 4"	8' 0"	6' 5"	4' 8"	9' 2"	8' 0"	6' 4"	8' 0"	6' 5"	4' 8"
800S250-43	33	9' 5"	8' 2"	6' 4"	8' 0"	6' 6"	4' 8"	9' 5"	8' 2"	6' 4"	8' 0"	6' 6"	4' 8"
800S162-54	50	11' 6"	10' 0"	8' 2"	11' 2"	9' 4"	7' 3"	11' 5"	10' 0"	8' 2"	11' 2"	9' 4"	7' 3"
800S200-54	50	12' 3"	10' 8"	8' 8"	12' 1"	10' 1"	7' 8"	12' 0"	10' 8"	8' 8"	12' 1"	10' 1"	7' 8"
800S250-54	50	12' 7"	10' 11"	8' 11"	12' 2"	10' 2"	7' 9"	12' 6"	10' 11"	8' 11"	12' 2"	10' 2"	7' 9"
800S162-68	50	13' 6"	11' 8"	9' 7"	13' 6"	11' 6"	9' 2"	12' 4"	11' 2"	9' 7"	13' 6"	11' 6"	9' 2"
800S200-68	50	14' 2"	12' 10"	10' 6"	14' 10"	12' 10"	10' 2"	12' 11"	11' 8"	10' 3"	14' 5"	12' 10"	10' 2"
800S250-68	50	14' 9"	12' 9"	10' 5"	14' 9"	12' 8"	9' 11"	13' 5"	12' 3"	10' 5"	14' 9"	12' 8"	9' 11"
800S162-97	50	15' 0"	13' 8"	11' 11"	16' 9"	14' 5"	11' 7"	13' 8"	12' 5"	10' 10"	15' 4"	13' 11"	11' 7"
800S200-97	50	15' 9"	14' 4"	12' 6"	17' 8"	16' 1"	13' 2"	14' 4"	13' 0"	11' 4"	16' 1"	14' 7"	12' 9"
800S250-97	50	16' 6"	15' 0"	13' 1"	18' 6"	16' 10"	13' 6"	15' 0"	13' 7"	11' 11"	16' 10"	15' 3"	13' 4"
800S162-118	50	15' 11"	14' 5"	12' 7"	17' 10"	16' 3"	13' 11"	14' 5"	13' 2"	11' 6"	16' 3"	14' 9"	12' 11"
800S200-118	50	16' 8"	15' 2"	13' 3"	18' 9"	17' 0"	14' 8"	15' 2"	13' 9"	12' 0"	17' 0"	15' 6"	13' 6"
800S250-118	50	17' 6"	15' 10"	13' 10"	19' 7"	17' 10"	15' 2"	15' 10"	14' 5"	12' 7"	17' 10"	16' 2"	14' 2"
1000S162-43	33	9' 6"	7' 7"	5' 1"	7' 1"	5' 7"	3' 11"	9' 6"	7' 7"	5' 1"	7' 1"	5' 7"	3' 11"
1000S200-43	33	10' 2"	7' 7"	5' 1"	7' 3"	5' 8"	3' 11"	10' 2"	7' 7"	5' 1"	7' 3"	5' 8"	3' 11"
1000S250-43	33	10' 2"	7' 7"	5' 1"	7' 4"	5' 9"	3' 11"	10' 2"	7' 7"	5' 1"	7' 4"	5' 9"	3' 11"
1000S162-54	50	12' 9"	11' 1"	9' 0"	11' 6"	9' 5"	6' 11"	12' 9"	11' 1"	9' 0"	11' 6"	9' 5"	6' 11"
1000S200-54	50	13' 9"	11' 11"	9' 8"	11' 10"	9' 8"	7' 1"	13' 9"	11' 11"	9' 8"	11' 10"	9' 8"	7' 1"
1000S250-54	50	14' 1"	12' 2"	10' 0"	12' 2"	9' 11"	7' 2"	14' 1"	12' 2"	10' 0"	12' 2"	9' 11"	7' 2"
1000S162-68	50	15' 1"	13' 1"	10' 8"	15' 1"	12' 11"	10' 1"	14' 8"	13' 1"	10' 8"	15' 1"	12' 11"	10' 1"
1000S200-68	50	16' 2"	14' 0"	11' 5"	16' 0"	13' 6"	10' 7"	15' 4"	13' 11"	11' 5"	16' 0"	13' 6"	10' 7"
1000S250-68	50	16' 7"	14' 4"	11' 9"	16' 7"	14' 3"	11' 1"	16' 1"	14' 4"	11' 9"	16' 7"	14' 3"	11' 1"
1000S162-97	50	18' 1"	16' 5"	13' 8"	19' 4"	16' 9"	13' 6"	16' 5"	14' 11"	13' 1"	18' 6"	16' 9"	13' 6"
1000S200-97	50	18' 11"	17' 2"	14' 7"	20' 7"	17' 10"	14' 4"	17' 2"	15' 7"	13' 8"	19' 3"	17' 6"	14' 4"
1000S250-97	50	19' 8"	17' 11"	15' 7"	22' 0"	19' 1"	15' 7"	17' 11"	16' 3"	14' 2"	20' 1"	18' 3"	15' 7"
1000S162-118	50	19' 2"	17' 5"	15' 3"	21' 6"	18' 9"	15' 2"	17' 5"	15' 10"	13' 10"	19' 7"	17' 9"	15' 2"
1000S200-118	50	20' 1"	18' 3"	15' 11"	22' 6"	20' 0"	16' 2"	18' 3"	16' 7"	14' 5"	20' 5"	18' 7"	16' 2"
1000S250-118	50	20' 11"	19' 0"	16' 7"	23' 5"	21' 4"	18' 0"	19' 0"	17' 3"	15' 1"	21' 4"	19' 4"	16' 11"

"e" web stiffeners required at ends.

Web stiffeners required at interior supports for double span conditions.

See Table Notes on page 42.

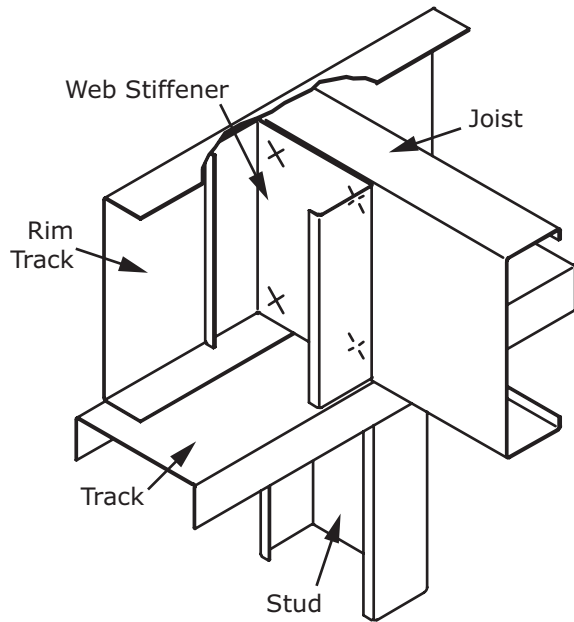
40 psf Dead Load and 125 psf Live Load

Section	F _y (ksi)	L/360 Live Load Deflection						L/480 Live Load Deflection					
		Single Span			Double Span			Single Span			Double Span		
		Spacing (in) on center			Spacing (in) on center			Spacing (in) on center			Spacing (in) on center		
		12	16	24	12	16	24	12	16	24	12	16	24
1200S162-54	50	13' 9" ^e	11' 11" ^e	8' 4" ^e	11' 3" ^e	8' 11" ^e	6' 3" ^e	13' 9" ^e	11' 11" ^e	8' 4" ^e	11' 3" ^e	8' 11" ^e	6' 3" ^e
1200S200-54	50	14' 10" ^e	12' 6" ^e	8' 4" ^e	11' 5" ^e	9' 0" ^e	6' 4" ^e	14' 10" ^e	12' 6" ^e	8' 4" ^e	11' 5" ^e	9' 0" ^e	6' 4" ^e
1200S250-54	50	15' 4" ^e	12' 6" ^e	8' 4" ^e	11' 6" ^e	9' 1" ^e	6' 4" ^e	15' 4" ^e	12' 6" ^e	8' 4" ^e	11' 6" ^e	9' 1" ^e	6' 4" ^e
1200S162-68	50	16' 4" ^e	14' 2" ^e	11' 7" ^e	16' 0"	13' 5"	10' 2" ^e	16' 4" ^e	14' 2" ^e	11' 7" ^e	16' 0"	13' 5"	10' 2" ^e
1200S200-68	50	17' 7" ^e	15' 3" ^e	12' 5" ^e	16' 9"	13' 11"	10' 6" ^e	17' 7" ^e	15' 3" ^e	12' 5" ^e	16' 9"	13' 11"	10' 6" ^e
1200S250-68	50	18' 2" ^e	15' 9" ^e	12' 10" ^e	16' 10"	14' 0"	10' 7" ^e	18' 2" ^e	15' 9" ^e	12' 10" ^e	16' 10"	14' 0"	10' 7" ^e
1200S162-97	50	21' 1"	18' 4"	15' 0" ^e	21' 2"	18' 4"	15' 0"	19' 2"	17' 5"	15' 0" ^e	21' 2"	18' 4"	15' 0"
1200S200-97	50	22' 0"	19' 7"	16' 0" ^e	22' 8"	19' 7"	15' 11"	20' 0"	18' 2"	15' 10" ^e	22' 5"	19' 7"	15' 11"
1200S250-97	50	22' 10"	20' 3"	16' 6" ^e	23' 5"	20' 3"	16' 5"	20' 9"	18' 10"	16' 6" ^e	23' 3"	20' 3"	16' 5"
1200S162-118	50	22' 5"	20' 4"	17' 3"	24' 5"	21' 1"	17' 2"	20' 4"	18' 6"	16' 2"	22' 10"	20' 9"	17' 2"
1200S200-118	50	23' 4"	21' 2"	18' 4"	26' 0"	22' 6"	18' 3"	21' 2"	19' 3"	16' 10"	23' 10"	21' 8"	18' 3"
1200S250-118	50	24' 3"	22' 0"	19' 0"	26' 10"	23' 3"	19' 0"	22' 0"	20' 0"	17' 6"	24' 9"	22' 6"	19' 0"
1200S300-118	50	25' 1"	22' 9"	19' 11"	28' 2"	24' 9"	20' 2"	22' 9"	20' 8"	18' 1"	25' 7"	23' 3"	20' 2"
1200S350-118	50	26' 4"	23' 11"	20' 10" ^e	29' 6"	26' 10"	22' 0"	23' 11"	21' 8"	19' 0"	26' 10"	24' 4"	21' 3"
1400S162-54	50	14' 3" ^e	10' 8" ^e	7' 2" ^e	10' 5" ^e	8' 1" ^e	5' 7" ^e	14' 3" ^e	10' 8" ^e	7' 2" ^e	10' 5" ^e	8' 1" ^e	5' 7" ^e
1400S200-54	50	14' 3" ^e	10' 8" ^e	7' 2" ^e	10' 7" ^e	8' 2" ^e	5' 7" ^e	14' 3" ^e	10' 8" ^e	7' 2" ^e	10' 7" ^e	8' 2" ^e	5' 7" ^e
1400S250-54	50	14' 3" ^e	10' 8" ^e	7' 2" ^e	10' 7" ^e	8' 2" ^e	5' 7" ^e	14' 3" ^e	10' 8" ^e	7' 2" ^e	10' 7" ^e	8' 2" ^e	5' 7" ^e
1400S300-54	50	14' 3" ^e	10' 8" ^e	7' 2" ^e	10' 8" ^e	8' 2" ^e	5' 7" ^e	14' 3" ^e	10' 8" ^e	7' 2" ^e	10' 8" ^e	8' 2" ^e	5' 7" ^e
1400S350-54	50	14' 3" ^e	10' 8" ^e	7' 2" ^e	10' 11" ^e	8' 4" ^e	5' 8" ^e	14' 3" ^e	10' 8" ^e	7' 2" ^e	10' 11" ^e	8' 4" ^e	5' 8" ^e
1400S162-68	50	17' 4" ^e	15' 0" ^e	12' 3" ^e	16' 4"	13' 4"	9' 10" ^e	17' 4" ^e	15' 0" ^e	12' 3" ^e	16' 4"	13' 4"	9' 10" ^e
1400S200-68	50	18' 9" ^e	16' 3" ^e	13' 3" ^e	16' 11"	13' 9"	10' 1" ^e	18' 9" ^e	16' 3" ^e	13' 3" ^e	16' 11"	13' 9"	10' 1" ^e
1400S250-68	50	19' 6" ^e	16' 10" ^e	13' 9" ^e	19' 6" ^e	13' 10"	10' 1" ^e	19' 6" ^e	16' 10" ^e	13' 9" ^e	17' 0"	13' 10"	10' 1" ^e
1400S300-68	50	19' 11" ^e	17' 3" ^e	14' 1" ^e	17' 2"	13' 11"	10' 2" ^e	19' 11" ^e	17' 3" ^e	14' 1" ^e	17' 2"	13' 11"	10' 2" ^e
1400S350-68	50	22' 3" ^e	19' 3" ^e	14' 4" ^e	18' 5"	14' 9" ^e	10' 7" ^e	22' 3" ^e	19' 3" ^e	14' 4" ^e	18' 5"	14' 9" ^e	10' 7" ^e
1400S162-97	50	22' 9"	19' 8"	16' 1" ^e	22' 9"	19' 8"	16' 1"	21' 10"	19' 8"	16' 1" ^e	22' 9"	19' 8"	16' 1"
1400S200-97	50	24' 4"	21' 1" ^e	17' 3" ^e	24' 4"	21' 1"	17' 1"	22' 8"	20' 7"	17' 3" ^e	24' 4"	21' 1"	17' 1"
1400S250-97	50	25' 3"	21' 11" ^e	17' 10" ^e	25' 3"	21' 11"	17' 7"	23' 6"	21' 4" ^e	17' 10" ^e	25' 3"	21' 11"	17' 7"
1400S300-97	50	25' 10"	22' 5" ^e	18' 3" ^e	25' 10"	22' 5"	18' 0"	24' 3"	22' 0" ^e	18' 3" ^e	25' 10"	22' 5"	18' 0"
1400S350-97	50	28' 0" ^e	24' 8" ^e	20' 2" ^e	28' 6"	24' 8"	20' 0" ^e	25' 5"	23' 1" ^e	20' 2" ^e	28' 6"	24' 8"	20' 0" ^e
1400S162-118	50	25' 7"	22' 10"	18' 7"	26' 4"	22' 10"	18' 7"	23' 3"	21' 1"	18' 5"	26' 1"	22' 10"	18' 7"
1400S200-118	50	26' 7"	24' 2"	19' 11"	28' 1"	24' 4"	19' 11"	24' 2"	21' 11"	19' 2"	27' 1"	24' 4"	19' 11"
1400S250-118	50	27' 6"	25' 0"	20' 7" ^e	29' 2"	25' 3"	20' 7"	25' 0"	22' 9"	19' 10"	28' 1"	25' 3"	20' 7"
1400S300-118	50	28' 5"	25' 10"	21' 1" ^e	29' 10"	25' 10"	21' 1"	25' 10"	23' 6"	20' 6" ^e	29' 0"	25' 10"	21' 1"
1400S350-118	50	29' 9"	27' 0"	23' 7" ^e	33' 5"	29' 3"	23' 11"	27' 0"	24' 7"	21' 5" ^e	30' 4"	27' 7"	23' 11"
1600S162-68	50	18' 2" ^e	15' 9" ^e	12' 6" ^e	16' 1" ^e	12' 11" ^e	9' 3" ^e	18' 2" ^e	15' 9" ^e	12' 6" ^e	16' 1" ^e	12' 11" ^e	9' 3" ^e
1600S200-68	50	19' 9" ^e	17' 1" ^e	12' 6" ^e	16' 7" ^e	13' 2" ^e	9' 4" ^e	19' 9" ^e	17' 1" ^e	12' 6" ^e	16' 7" ^e	13' 2" ^e	9' 4" ^e
1600S250-68	50	20' 7" ^e	17' 10" ^e	12' 6" ^e	16' 7" ^e	13' 3" ^e	9' 4" ^e	20' 7" ^e	17' 10" ^e	12' 6" ^e	16' 7" ^e	13' 3" ^e	9' 4" ^e
1600S300-68	50	21' 2" ^e	18' 4" ^e	12' 6" ^e	16' 9" ^e	13' 4" ^e	9' 5" ^e	21' 2" ^e	18' 4" ^e	12' 6" ^e	16' 9" ^e	13' 4" ^e	9' 5" ^e
1600S350-68	50	23' 8" ^e	18' 9" ^e	12' 6" ^e	17' 6" ^e	13' 9" ^e	9' 7" ^e	23' 8" ^e	18' 9" ^e	12' 6" ^e	17' 6" ^e	13' 9" ^e	9' 7" ^e
1600S162-97	50	24' 0"	20' 10" ^e	17' 0" ^e	24' 0"	20' 10"	16' 10"	24' 0"	20' 10" ^e	17' 0" ^e	24' 0"	20' 10"	16' 10"
1600S200-97	50	25' 10"	22' 4" ^e	18' 3" ^e	25' 10"	22' 4"	17' 8"	25' 2"	22' 4" ^e	18' 3" ^e	25' 10"	22' 4"	17' 8"
1600S250-97	50	26' 10"	23' 3" ^e	19' 0" ^e	26' 10"	23' 2"	18' 2"	26' 1"	23' 3" ^e	19' 0" ^e	26' 10"	23' 2"	18' 2"
1600S300-97	50	27' 7" ^e	23' 11" ^e	19' 6" ^e	27' 7"	23' 9"	18' 7" ^e	26' 11"	23' 11" ^e	19' 6" ^e	27' 7"	23' 9"	18' 7" ^e
1600S350-97	50	30' 6" ^e	26' 5" ^e	21' 7" ^e	29' 7"	25' 0"	19' 6" ^e	28' 2" ^e	25' 6" ^e	21' 7" ^e	29' 7"	25' 0"	19' 6" ^e
1600S162-118	50	28' 0"	24' 3"	19' 9" ^e	28' 0"	24' 3"	19' 9"	26' 1"	23' 8"	19' 9" ^e	28' 0"	24' 3"	19' 9"
1600S200-118	50	29' 8"	25' 11"	21' 2" ^e	29' 11"	25' 11"	21' 2"	27' 1"	24' 7"	21' 2" ^e	29' 11"	25' 11"	21' 2"
1600S250-118	50	30' 8"	27' 0"	22' 0" ^e	31' 2"	27' 0"	22' 0"	28' 0"	25' 5"	22' 0" ^e	31' 2"	27' 0"	22' 0"
1600S300-118	50	31' 8"	27' 8"	22' 7" ^e	32' 0"	27' 8"	22' 7"	28' 10"	26' 2"	22' 7" ^e	32' 0"	27' 8"	22' 7"
1600S350-118	50	33' 1"	30' 0" ^e	24' 10" ^e	35' 1"	30' 5"	24' 8"	30' 1"	27' 4"	23' 10" ^e	33' 9"	30' 5"	24' 8"

^e web stiffeners required at ends.

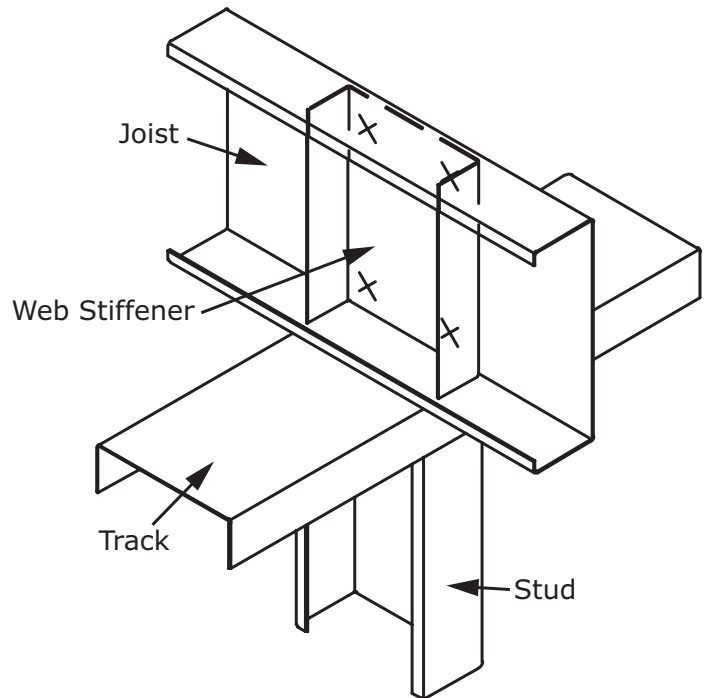
Web stiffeners required at interior supports for double span conditions.

See Table Notes on page 42.

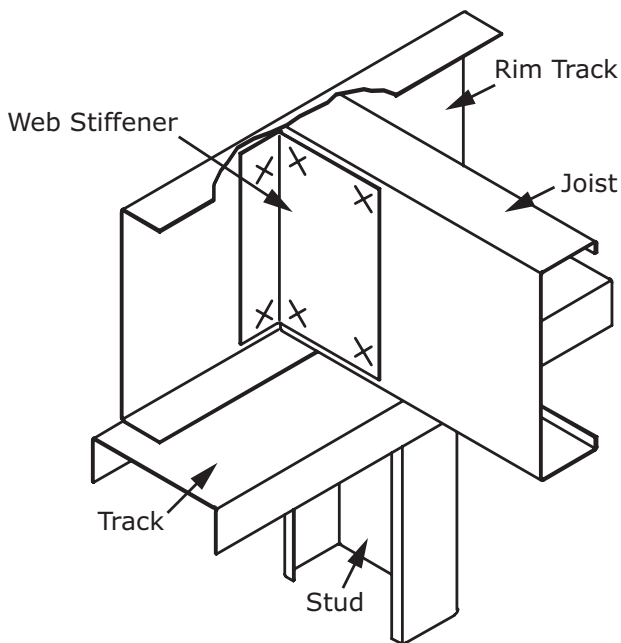


Stud Stiffener on Back of Joist

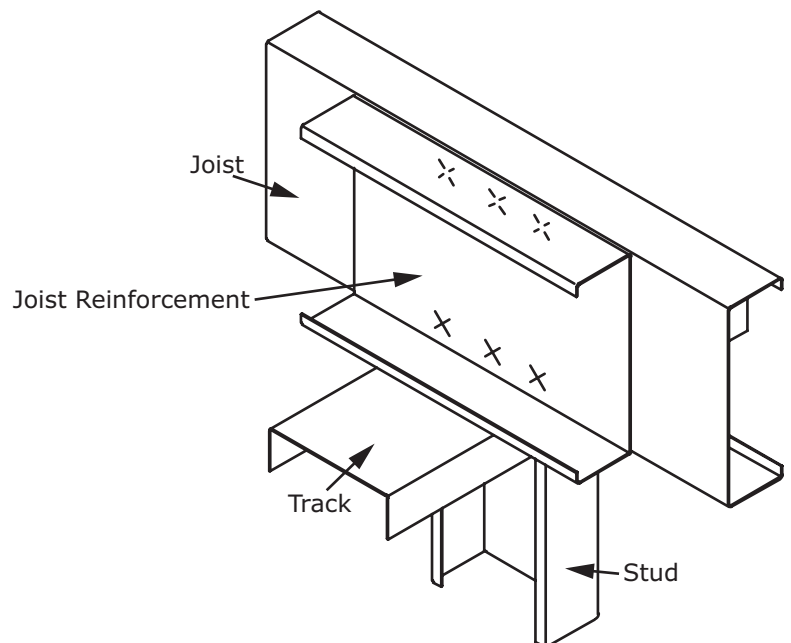
General Note:
All connections should be designed by a licensed design professional.



Track Stiffener Inside Joist



Clip Angle Stiffener on Back of Joist



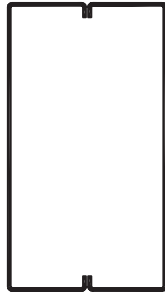
Web Reinforcement - Double Web
(use back-to-back web crippling tables)

Web Stiffener and Joist Reinforcement Details

Bearing stiffeners must be designed in accordance with AISI S100 section C3.7.

Table Notes

1. Values are for unpunched members.
2. Total load deflection is limited to L/360.
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. Web crippling check is based on 1" of bearing at end supports.
6. Members are assumed adequately braced for bending.
7. Allowable loads are for simply supported headers with uniform bending loads only.
8. See page 5 for additional table notes.



Boxed Header



Back-to-Back Header

Header Allowable Uniform Loads (PLF)

Section	Yield Strength (ksi)	Span						
		3 (ft)	4 (ft)	5 (ft)	6 (ft)	8 (ft)	10 (ft)	12 (ft)
550S162-33	33	931.4e	698.5e	460.1e	319.5e	179.7e	115.0e	73.8e
550S162-43	33	1946.5e	1094.9e	700.8e	486.6e	273.7e	164.6e	95.3e
550S162-54	50	3484.7e	1960.1e	1254.5e	871.2e	396.8e	203.2	117.6
550S162-68	50	4782.6e	2690.2e	1721.7e	1157.8e	488.5e	250.1	144.7
600S137-33	33	850.8e	638.1e	436.5e	303.1e	170.5e	109.1e	75.8e
600S162-33	33	850.8e	638.1e	504.9e	350.6e	197.2e	126.2e	87.6e
600S200-33	33	850.8e	638.1e	510.5e	398.7e	224.2e	143.5e	99.7e
600S137-43	33	1751.1e	985.0e	630.4e	437.8e	246.3e	157.6e	103.2e
600S162-43	33	1887.6e	1205.1e	771.3e	535.6e	301.3e	192.8e	117.1e
600S200-43	33	1887.6e	1282.4e	820.7e	569.9e	320.6e	205.2e	135.7e
600S250-43	33	1887.6e	1350.7e	864.4e	600.3e	337.7e	216.1e	150.1e
600S137-54	50	3146.8e	1770.1e	1132.9e	786.7e	429.8e	220.1	127.3
600S162-54	50	3763.8e	2158.3e	1381.3e	959.3e	488.3e	250.0e	144.7
600S250-54	50	3763.8e	2281.9e	1460.4e	1014.2e	566.7e	290.1e	167.9
600S250-54	50	3763.8e	2392.7e	1531.4e	1063.4e	598.2e	329.1e	190.5
600S137-68	50	4280.5e	2407.8e	1541.0e	1070.1e	528.3e	270.5	156.5
600S162-68	50	5288.3e	2974.7e	1903.8e	1322.1e	601.7e	308.1	178.3
600S200-68	50	5880.1e	3307.5e	2116.8e	1470.0e	700.0e	358.4	207.4
600S250-68	50	5788.2e	3255.8e	2083.7e	1447.0e	806.3e	412.8e	238.9
600S137-97	50	7526.5e	4233.7e	2709.5e	1694.8e	715	366.1	211.8
600S162-97	50	8403.7e	4727.1e	3025.3e	1941.3e	819	419.3	242.7
600S200-97	50	9432.6e	5305.9e	3395.7e	2270.9e	958.0e	490.5	283.9
600S250-97	50	9898.1e	5567.7e	3563.3e	2474.5e	1109.0e	567.8	328.6
600S137-118	50	9138.7e	5140.5e	3289.9e	1987.9e	838.7	429.4	248.5
600S162-118	50	10212.8e	5744.7e	3676.6e	2287.3e	965	494.1	285.9
600S200-118	50	11620.3e	6536.4e	4183.3e	2687.4e	1133.7	580.5	335.9
600S250-118	50	12729.2e	7160.2e	4582.5e	3121.2e	1316.7e	674.2	390.1
800S137-33	33	632.0e	474.0e	379.2e	316.0e	223.2e	142.8e	99.2e
800S162-33	33	632.0e	474.0e	379.2e	316.0e	237.0e	168.1e	116.7e
800S200-33	33	632.0e	474.0e	379.2e	316.0e	237.0e	189.6e	134.5e
800S137-43	33	1401.5e	1051.2e	840.9e	584.3e	328.7e	210.3e	146.1e
800S162-43	33	1401.5e	1051.2e	840.9e	678.8e	381.8e	244.4e	169.7e
800S200-43	33	1401.5e	1051.2e	840.9e	700.8e	437.2e	279.8e	194.3e
800S250-43	33	1401.5e	1051.2e	840.9e	700.8e	459.5e	294.1e	204.2e
800S137-54	50	2788.4e	2091.3e	1518.3e	1054.4e	593.1e	379.6e	251.6e
800S162-54	50	2788.4e	2091.3e	1673.0e	1215.2e	683.6e	437.5e	283.3e
800S200-54	50	2788.4e	2091.3e	1673.0e	1384.1e	778.6e	498.3e	332.5e
800S250-54	50	2788.4e	2091.3e	1673.0e	1394.2e	815.2e	521.7e	362.3e
800S137-68	50	5627.6e	3297.6e	2110.4e	1465.6e	824.4e	527.6e	317.9e
800S162-68	50	5627.6e	3759.1e	2405.8e	1670.7e	939.8e	601.4e	357.6e
800S200-68	50	5627.6e	4220.7e	2917.3e	2025.9e	1139.6e	711.5e	411.8e
800S250-68	50	5627.6e	4220.7e	2866.9e	1990.9e	1119.9e	716.7e	467.4e
800S137-97	50	9468.1e	5325.8e	3408.5e	2367.0e	1331.5e	751.5e	434.9
800S162-97	50	10657.1e	5994.6e	3836.6e	2664.3e	1498.7e	849.0e	491.3
800S200-97	50	13297.5e	7479.8e	4787.1e	3324.4e	1870.0e	979.3e	566.7
800S250-97	50	13839.9e	7785.0e	4982.4e	3460.0e	1946.2e	1117.9e	646.9e
800S137-118	50	14157.3e	7963.5e	5096.6e	3539.3e	1732.3e	886.9	513.3
800S162-118	50	15589.2e	8768.9e	5612.1e	3897.3e	1964.0e	1005.5e	581.9
800S200-118	50	17414.8e	9795.8e	6269.3e	4353.7e	2273.2e	1163.9e	673.5
800S250-118	50	18210.1e	10243.2e	6555.6e	4552.5e	2560.8e	1332.2e	771

"e" web stiffeners required at ends.

Header Allowable Uniform Loads (PLF)

Section	Yield Strength (ksi)	Span						
		3 (ft)	4 (ft)	5 (ft)	6 (ft)	8 (ft)	10 (ft)	12 (ft)
1000S137-43	33	1114.6e	835.9e	668.7e	557.3e	397.8e	254.6e	176.8e
1000S162-43	33	1114.6e	835.9e	668.7e	557.3e	418.0e	299.9e	208.2e
1000S200-43	33	1114.6e	835.9e	668.7e	557.3e	418.0e	334.4e	242.1e
1000S250-43	33	1114.6e	835.9e	668.7e	557.3e	418.0e	334.4e	256.2e
1000S137-54	50	2214.5e	1660.8e	1328.7e	1107.2e	721.1e	461.5e	320.5e
1000S162-54	50	2214.5e	1660.8e	1328.7e	1107.2e	830.4e	538.3e	373.8e
1000S200-54	50	2214.5e	1660.8e	1328.7e	1107.2e	830.4e	621.6e	431.6e
1000S250-54	50	2214.5e	1660.8e	1328.7e	1107.2e	830.4e	655.5e	455.2e
1000S137-68	50	4460.5e	3345.4e	2611.5e	1813.5e	1020.1e	652.9e	453.4e
1000S162-68	50	4460.5e	3345.4e	2676.3e	2087.2e	1174.0e	751.4e	521.8e
1000S200-68	50	4460.5e	3345.4e	2676.3e	2230.3e	1343.8e	860.0e	597.2e
1000S250-68	50	4460.5e	3345.4e	2676.3e	2230.3e	1419.4e	908.4e	630.8e
1000S137-97	50	12117.7e	6816.2e	4362.4e	3023.4e	1704.1e	1090.6e	757.4e
1000S162-97	50	13151.6e	7712.9e	4936.2e	3427.9e	1928.2e	1234.1e	857.0e
1000S200-97	50	13151.6e	8727.6e	5585.7e	3878.9e	2181.9e	1396.4e	969.7e
1000S250-97	50	13151.6e	9863.7e	6407.1e	4449.4e	2502.8e	1601.8e	1104.1e
1000S137-118	50	15854.9e	8918.4e	5707.8e	3963.7e	2229.6e	1426.9e	910.9e
1000S162-118	50	17827.7e	10028.1e	6418.0e	4456.9e	2507.0e	1604.5e	1020.2e
1000S200-118	50	20110.4e	11312.1e	7239.8e	5027.6e	2828.0e	1809.9e	1166.0e
1000S250-118	50	21646.1e	13316.3e	8522.4e	5918.4e	3329.1e	2130.6e	1319.2e
1200S137-54	50	1836.5e	1377.4e	1101.9e	918.2e	688.7e	529.9e	368.0e
1200S162-54	50	1836.5e	1377.4e	1101.9e	918.2e	688.7e	550.9e	432.9e
1200S200-54	50	1836.5e	1377.4e	1101.9e	918.2e	688.7e	550.9e	459.1e
1200S250-54	50	1836.5e	1377.4e	1101.9e	918.2e	688.7e	550.9e	459.1e
1200S137-68	50	3694.3e	2770.7e	2216.6e	1847.2e	1187.3e	759.9e	527.7e
1200S162-68	50	3694.3e	2770.7e	2216.6e	1847.2e	1377.9e	881.8e	612.4e
1200S200-68	50	3694.3e	2770.7e	2216.6e	1847.2e	1385.4e	1020.7e	708.8e
1200S250-68	50	3694.3e	2770.7e	2216.6e	1847.2e	1385.4e	1087.9e	755.5e
1200S137-97	50	10862.7e	8144.0e	5212.1e	3619.5e	2036.0e	1303.0e	904.9e
1200S162-97	50	10862.7e	8147.0e	5936.1e	4122.3e	2318.8e	1484.0e	1030.6e
1200S200-97	50	10862.7e	8147.0e	6517.6e	4698.7e	2643.0e	1691.5e	1174.7e
1200S250-97	50	10862.7e	8147.0e	6517.6e	5013.8e	2820.3e	1805.0e	1253.5e
1200S137-118	50	19323.9e	10869.7e	6956.6e	4831.0e	2717.4e	1739.1e	1207.7e
1200S162-118	50	19980.7e	12269.5e	7852.5e	5453.1e	3067.4e	1963.1e	1363.3e
1200S200-118	50	19980.7e	13900.1e	8896.1e	6177.8e	3475.0e	2224.0e	1544.5e
1200S250-118	50	19980.7e	14880.8e	9523.7e	6613.7e	3720.2e	2380.9e	1653.4e
1200S300-118	50	19980.7e	14985.5e	10756.0e	7469.4e	4201.6e	2689.0e	1867.4e
1200S350-118	50	19980.7e	14985.5e	11988.4e	8850.4e	4978.3e	3186.1e	2212.6e
1400S162-54	50	1568.7e	1176.5e	941.2e	784.4e	588.3e	470.6e	392.2e
1400S200-54	50	1568.7e	1176.5e	941.2e	784.4e	588.3e	470.6e	392.2e
1400S250-54	50	1568.7e	1176.5e	941.2e	784.4e	588.3e	470.6e	392.2e
1400S300-54	50	1568.7e	1176.5e	941.2e	784.4e	588.3e	470.6e	392.2e
1400S350-54	50	1568.7e	1176.5e	941.2e	784.4e	588.3e	470.6e	392.2e
1400S162-68	50	3152.8e	2364.6e	1891.7e	1576.4e	1182.3e	945.8e	690.3e
1400S200-68	50	3152.8e	2364.6e	1891.7e	1576.4e	1182.3e	945.8e	788.2e
1400S250-68	50	3152.8e	2364.6e	1891.7e	1576.4e	1182.3e	945.8e	788.2e
1400S300-68	50	3152.8e	2364.6e	1891.7e	1576.4e	1182.3e	945.8e	788.2e
1400S350-68	50	3152.8e	2364.6e	1891.7e	1576.4e	1182.3e	945.8e	788.2e
1400S162-97	50	9252.4e	6939.3e	5551.4e	4626.2e	2665.9e	1706.2e	1184.8e
1400S200-97	50	9252.4e	6939.3e	5551.4e	4626.2e	3062.0e	1959.7e	1360.9e
1400S250-97	50	9252.4e	6939.3e	5551.4e	4626.2e	3290.4e	2105.8e	1462.4e
1400S300-97	50	9252.4e	6939.3e	5551.4e	4626.2e	3446.8e	2206.0e	1531.9e
1400S350-97	50	9252.4e	6939.3e	5551.4e	4626.2e	3469.6e	2683.4e	1863.5e
1400S162-118	50	16993.8e	12745.4e	9153.4e	6356.5e	3575.5e	2288.3e	1589.1e
1400S200-118	50	16993.8e	12745.4e	10196.3e	7245.3e	4075.5e	2608.3e	1811.3e
1400S250-118	50	16993.8e	12745.4e	10196.3e	7793.3e	4383.7e	2805.6e	1948.3e
1400S300-118	50	16993.8e	12745.4e	10196.3e	8178.0e	4600.1e	2944.1e	2044.5e
1400S350-118	50	16993.8e	12745.4e	10196.3e	8496.9e	5892.6e	3771.3e	2618.9e
1600S162-68	50	2749.7e	2062.3e	1649.8e	1374.8e	1031.1e	824.9e	687.4e
1600S200-68	50	2749.7e	2062.3e	1649.8e	1374.8e	1031.1e	824.9e	687.4e
1600S250-68	50	2749.7e	2062.3e	1649.8e	1374.8e	1031.1e	824.9e	687.4e
1600S300-68	50	2749.7e	2062.3e	1649.8e	1374.8e	1031.1e	824.9e	687.4e
1600S350-68	50	2749.7e	2062.3e	1649.8e	1374.8e	1031.1e	824.9e	687.4e
1600S162-97	50	8057.9e	6043.4e	4834.7e	4028.9e	2975.1e	1904.1e	1322.3e
1600S200-97	50	8057.9e	6043.4e	4834.7e	4028.9e	3021.7e	2199.8e	1527.7e
1600S250-97	50	8057.9e	6043.4e	4834.7e	4028.9e	3021.7e	2381.4e	1653.7e
1600S300-97	50	8057.9e	6043.4e	4834.7e	4028.9e	3021.7e	2417.4e	1743.7e
1600S350-97	50	8057.9e	6043.4e	4834.7e	4028.9e	3021.7e	2417.4e	2014.5e
1600S162-118	50	14783.8e	11087.9e	8870.3e	7175.0e	4035.9e	2583.0e	1793.8e
1600S200-118	50	14783.8e	11087.9e	8870.3e	7391.9e	4622.1e	2958.1e	2054.3e
1600S250-118	50	14783.8e	11087.9e	8870.3e	7391.9e	5001.5e	3201.0e	2222.9e
1600S300-118	50	14783.8e	11087.9e	8870.3e	7391.9e	5275.8e	3376.5e	2344.8e
1600S350-118	50	14783.8e	11087.9e	8870.3e	7391.9e	5543.9e	4061.0e	2820.1e

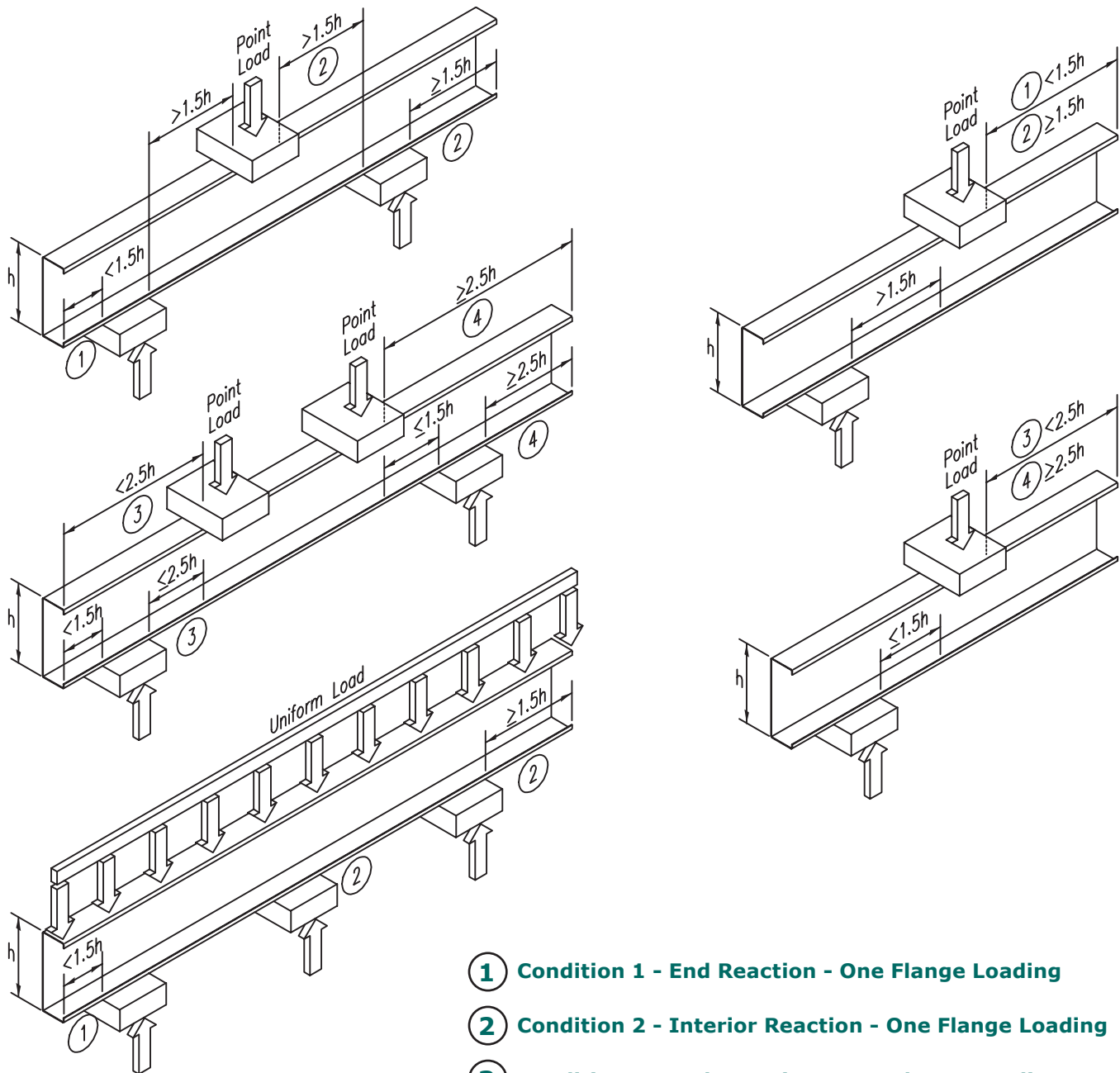
"e" web stiffeners required at ends.

See Table Notes on page 56.

Table Notes

1. Listed allowable loads apply only to S-Sections.
2. For back-to-back members, the listed allowable loads are for the entire two-member assembly.
3. Listed allowable loads are based on members fastened to supports, except back-to-back members under two-flange loading (conditions 3 and 4) for which data for 'fastened to support' is unavailable in the AISI S100 Specification.
4. For back-to-back members, the distance between the web connectors and the flange shall be kept to a minimum.
5. Listed allowable loads are for unpunched webs. Capacity reductions for end and interior one flange loading (conditions 1 and 2) near punchouts may be calculated per AISI S100 Specification Section C3.4.2.
6. "h" refers to the flat dimension of the web. See Web Depth-to-Thickness Ratios table on page 6.
7. See page 5 for additional table notes.

Web Crippling Conditions



- ① **Condition 1 - End Reaction - One Flange Loading**
- ② **Condition 2 - Interior Reaction - One Flange Loading**
- ③ **Condition 3 - End Reaction - Two Flange Loading**
- ④ **Condition 4 - Interior Reaction - Two Flange Loading**

Allowable Web Crippling Loads (lbs) - Single Members (S-Sections)

Section	Design Thickness (in)	Mil Thickness (mil)	Fy (ksi)	Condition 1 Fasten to Support			Condition 2 Fasten to Support			Condition 3 Fasten to Support			Condition 4 Fasten to Support		
				Bearing Length (in)			Bearing Length (in)			Bearing Length (in)			Bearing Length (in)		
				1	3.5	6	1	3.5	6	1	3.5	6	1	3.5	6
162	0.0188	18	33	55	89 ¹	112 ^{1,2}	87	125 ¹	151 ^{1,2}	45	64 ¹	76 ^{1,2}	122	161 ¹	186 ^{1,2}
162	0.0283	27	33	122	194 ¹	242 ^{1,2}	218	304 ¹	361 ^{1,2}	111	151 ¹	178 ^{1,2}	290	371 ¹	425 ^{1,2}
162	0.0312	30	33	148	233 ¹	290 ¹	269	373 ¹	442 ¹	137	185 ¹	217 ¹	356	452 ¹	516 ¹
162	0.0346	33	33	180	282 ¹	350 ¹	336	462 ¹	545 ¹	170	229 ¹	267 ¹	441	557 ¹	634 ¹
162	0.0451	43	33	298	459 ¹	566 ¹	589	793 ¹	929 ¹	297	390 ¹	452 ¹	764	946 ¹	1067 ¹
162	0.0566	54	50	677	1027 ¹	1260 ¹	1370	1812 ¹	2105 ¹	714	922 ¹	1061 ¹	1823	2222 ¹	2487 ¹
162	0.0713	68	50	1019	1522 ¹	1856 ¹	2100	2729 ¹	3147 ¹	1136	1443 ¹	1646 ¹	2880	3458 ¹	3842 ¹
250	0.0188	18	33	52	84	106 ^{1,2}	85	122	147 ^{1,2}	37	51	61 ^{1,2}	109	145	168 ^{1,2}
250	0.0283	27	33	117	186	231 ^{1,2}	213	298	354 ^{1,2}	96	130	153 ^{1,2}	268	343	393 ^{1,2}
250	0.0312	30	33	141	223	277 ¹	264	365	433 ¹	119	161	189 ¹	330	420	479 ¹
250	0.0346	33	33	173	271	336 ¹	330	453	535 ¹	150	201	235 ¹	411	519	591 ¹
250	0.0451	43	33	287	443	547 ¹	580	780	913 ¹	267	351	407 ¹	720	892	1006 ¹
250	0.0566	54	50	656	996	1222 ¹	1350	1785	2075 ¹	652	842	968 ¹	1730	2109	2361 ¹
250	0.0713	68	50	990	1480	1805 ¹	2073	2693	3106 ¹	1049	1333	1521 ¹	2750	3302	3669 ¹
250	0.1017	97	50	1872	2726	3293 ¹	4025	5095	5805 ¹	2167	2683	3026 ¹	5597	6575	7225 ¹
350	0.0188	18	33	49	80	100 ²	83	119	143 ²	28	40	48 ²	98	130	150 ²
350	0.0283	27	33	112	177	221 ²	209	292	347 ²	81	111	130 ²	247	316	362 ²
350	0.0312	30	33	135	214	266	259	359	425	103	139	163	306	389	445
350	0.0346	33	33	166	260	323	324	445	526	131	175	205	384	484	551
350	0.0451	43	33	278	428	528	571	768	900	240	315	365	680	842	949
350	0.0566	54	50	637	967	1186	1331	1761	2046	594	768	883	1645	2005	2245
350	0.0713	68	50	965	1441	1758	2047	2660	3068	970	1232	1406	2631	3159	3510
350	0.1017	97	50	1831	2666	3220 ¹	3983	5041	5745 ¹	2035	2520	2842 ¹	5397	6339	6965 ¹
362	0.0188	18	33	49	79	99 ²	82	119	143 ²	27	39	46 ²	97	128	149 ²
362	0.0283	27	33	111	177	220 ²	209	291	346 ²	80	108	127 ²	245	313	359 ²
362	0.0312	30	33	135	213	265	258	358	424	101	136	160	304	386	441
362	0.0346	33	33	165	259	322	323	444	525	129	173	202	381	480	547
362	0.0451	43	33	277	427	526	570	767	898	236	311	360	675	836	943
362	0.0566	54	50	634	963	1182	1329	1758	2043	588	760	874	1635	1994	2232
362	0.0713	68	50	962	1437	1752	2044	2657	3064	961	1221	1393	2618	3143	3492
362	0.1017	97	50	1827	2659	3212	3978	5035	5738	2020	2501	2821	5374	6313	6936
400	0.0283	27	33	109	174	217 ²	207	289	344 ²	75	102	120 ²	238	305	349 ²
400	0.0312	30	33	133	210	261	257	356	421	95	129	151	296	376	429
400	0.0346	33	33	163	256	317	322	442	522	122	164	192	372	469	534
400	0.0451	43	33	274	422	520	567	763	893	227	299	346	662	819	924
400	0.0566	54	50	628	954	1170	1323	1750	2034	569	735	846	1607	1960	2194
400	0.0713	68	50	953	1424	1737	2036	2646	3051	936	1188	1356	2579	3096	3440
400	0.1017	97	50	1814	2640	3189	3965	5018	5718	1978	2448	2761	5309	6236	6852
550	0.0283	27	33	103	164	205 ²	202	282	336 ²	58	79	93 ²	214	274	314 ²
550	0.0312	30	33	126	199	248	251	348	412	76	103	120	268	341	389
550	0.0346	33	33	155	243	302	315	432	511	100	134	157	339	428	487
550	0.0451	43	33	262	405	499	556	749	877	195	256	297	614	760	858
550	0.0566	54	50	606	920	1128	1302	1722	2001	502	649	746	1508	1838	2058
550	0.0713	68	50	923	1380	1683	2007	2608	3007	844	1071	1223	2441	2931	3256
550	0.1017	97	50	1766	2571	3106	3917	4957	5648	1826	2261	2550	5078	5965	6555
600	0.0312	30	33	124	196	243	249	345	409	70	95	111	260	330	377
600	0.0346	33	33	153	240	297	313	430	507	93	125	146	329	416	473
600	0.0451	43	33	259	400	493	553	745	872	185	243	282	600	743	838
600	0.0566	54	50	599	909	1116	1295	1713	1991	482	623	716	1478	1802	2017
600	0.0713	68	50	914	1366	1666	1998	2596	2994	816	1036	1183	2399	2881	3201
600	0.1017	97	50	1752	2551	3081	3902	4939	5628	1781	2205	2487	5010	5885	6466
600	0.1242	118	50	2528	3625	4354	5698	7108	8046	2734	3339	3741	7555	8772	9581
800	0.0451	43	33	247	381	470	542	730	854	150	197	228	548	678	765
800	0.0566	54	50	575	872	1070	1272	1682	1955	409	529	608	1370	1670	1869
800	0.0713	68	50	882	1318	1607	1966	2555	2946	716	910	1038	2250	2701	3001
800	0.1017	97	50	1702	2477	2992	3850	4873	5553	1618	2003	2259	4761	5593	6145
800	0.1242	118	50	2462	3531	4241	5629	7023	7949	2518	3075	3445	7223	8387	9160
1000	0.0566	54	50	553	840	1031	1251	1655	1923	346	447	514	1275	1554	1740
1000	0.0713	68	50	854	1275	1555	1938	2518	2904	629	799	912	2119	2544	2826
1000	0.1017	97	50	1657	2412	2914	3805	4815	5487	1476	1827	2060	4545	5338	5866
1000	0.1242	118	50	2405	3449	4143	5569	6948	7864	2330	2845	3187	6934	8051	8794
1200	0.0713	68	50	828	1237	1509	1913	2485	2866	551	699	798	2001	2402	2669
1200	0.1017	97	50	1618	2355	2844	3764	4764	5428	1348	1668	1882	4350	5109	5614
1200	0.1242	118	50	2354	3375	4054	5515	6881	7788	2161	2638	2956	6675	7750	8465
1400	0.0713	68	50	805	1202	1466	1889	2455	2831	479	608	694	1892	2272	2525
1400	0.1017	97	50	1581	2301	2780	3726	4716	5374	1230	1523	1718	4171	4900	5384
1400	0.1242	118	50	2307	3308	3973	5466	6819	7719	2006	2449	2744	6437	7474	8164
1600	0.1017	97	50	1547	2252	2721	3692	4673	5324	1121	1388	1566	4005	4705	5170
1600	0.1242	118	50	2263	3245	3898	5420	6762	7654	1862	2274	2548	6217	7219	7884

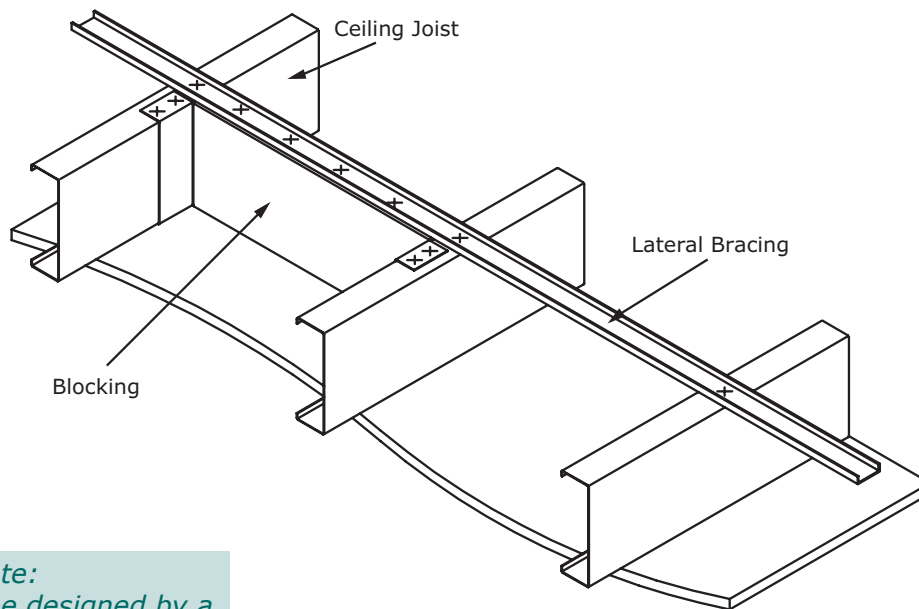
¹ Bearing length to web height ratio, N/h exceeds limit of 2.

² Bearing length to thickness ratio, N/t exceeds limit of 210.

See Table Notes and figures on page 58.

Table Notes

1. Values are for simple span conditions.
2. For unbraced sections, allowable moment is based on the AISI S100 Section C3.1.2 with unbraced length assumed to be the listed span. For mid-span braced sections, allowable moment is based on AISI S100 Section C3.1.2 with unbraced length assumed to be half of the listed span.
3. Web crippling check is based on 1" of bearing at end supports.
4. For spans listed with "e", web stiffeners are required at end reactions.
5. Web crippling and shear capacity have **not** been reduced for punchouts. If web punchouts occur near supports, members must be checked for reduced shear and web crippling in accordance with the AISI S100.
6. Listed loads are total loads and have not been modified for strength or deflection calculations.
7. Allowable spans apply to pressures acting upwards or downwards on the surface of the ceiling/soffit.
8. See page 5 for additional table notes.



*General Note:
All connections should be designed by a
licensed design professional.*

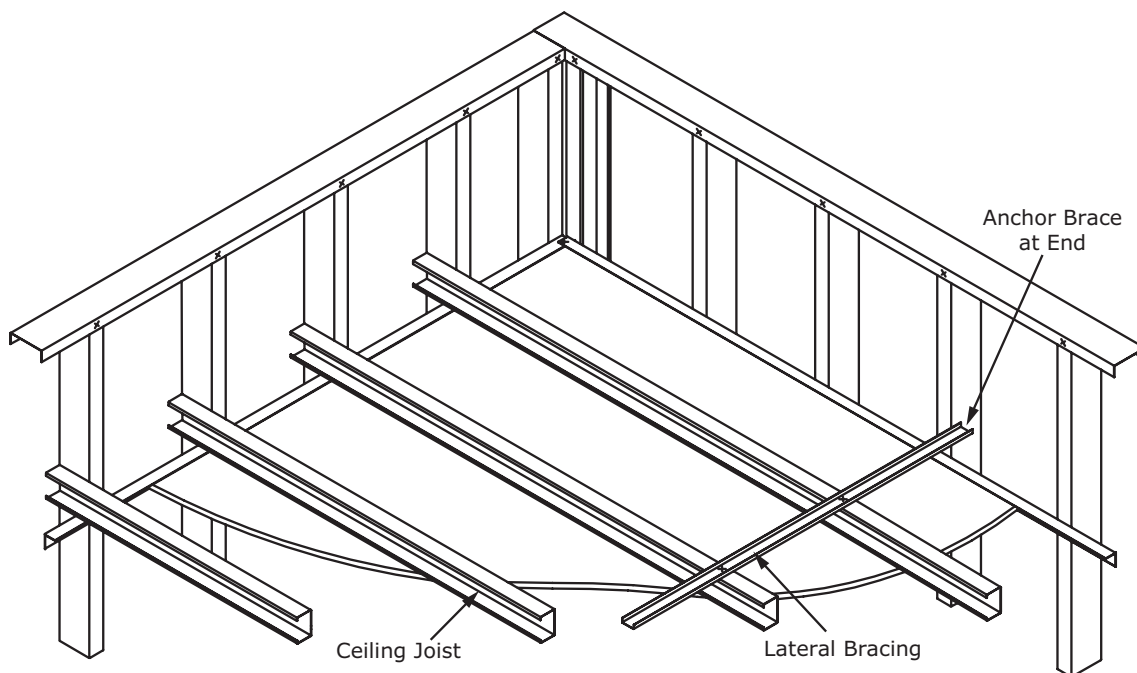


Table Notes

1. If present, hems and offsets in flanges are ignored.
2. Effective properties are given as the minimum value for positive or negative bending.
3. See page 5 for additional table notes.

(Hat) Furring Channel Section Properties (F-Sections)											
Section	F _y (ksi)	Design Thickness (in)	Gross Properties					Effective Properties			
			Area (in ²)	Weight (lb/ft)	I _x (in ⁴)	R _x (in)	I _y (in ⁴)	R _y (in)	I _x (in ⁴)	S _x (in ³)	M _a (in-k)
087F125-18	33	0.0188	0.070	0.239	0.009	0.356	0.0354	0.710	0.0086	0.0160	0.317
087F125-27	33	0.0283	0.105	0.356	0.013	0.353	0.0528	0.710	0.0131	0.0272	0.537
087F125-30	33	0.0312	0.115	0.391	0.014	0.353	0.0580	0.710	0.0143	0.0307	0.606
087F125-33	33	0.0346	0.127	0.432	0.016	0.351	0.0641	0.710	0.0157	0.0337	0.665
087F125-43	33	0.0451	0.162	0.550	0.020	0.348	0.0817	0.711	0.0196	0.0420	0.830
150F125-18	33	0.0188	0.094	0.320	0.031	0.575	0.0467	0.705	0.0299	0.0344	0.679
150F125-27	33	0.0283	0.140	0.477	0.046	0.572	0.0697	0.705	0.0459	0.0569	1.125
150F125-30	33	0.0312	0.154	0.525	0.050	0.571	0.0767	0.705	0.0503	0.0639	1.263
150F125-33	33	0.0346	0.171	0.581	0.055	0.570	0.0848	0.705	0.0554	0.0704	1.391
150F125-43	33	0.0451	0.219	0.745	0.070	0.565	0.1087	0.705	0.0699	0.0888	1.755

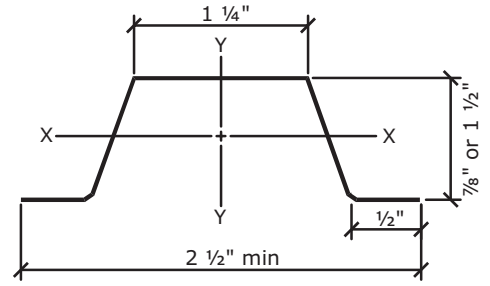


Table Notes

1. Single spans are the minimum span based on moment, shear, web crippling, or deflection.
2. Multiple spans indicate two or more equal and continuous spans with span length measured support to support.
3. Web crippling check is based on 1" of bearing at end and interior supports.
4. Multiple spans are the minimum span based on moment, shear, web crippling, deflection, combined bending and shear, or combined bending and web crippling.
5. See page 5 for additional table notes.

(Hat) Furring Channel Allowable Ceiling Spans (F-Sections) - L/240											
Section	F _y (ksi)	Spans	4 psf			6 psf			13 psf *		
			Spacing (in) on center			Spacing (in) on center			Spacing (in) on center		
			12	16	24	12	16	24	12	16	24
087F125-18	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' 2"	4' 0"	3' 6"	2' 10"
087F125-27	33	Single	6' 0"	5' 5"	4' 9"	5' 3"	4' 9"	4' 2"	4' 0"	3' 8"	3' 2"
		Multiple	7' 5"	6' 9"	5' 10"	6' 6"	5' 10"	5' 2"	5' 0"	4' 6"	3' 8"
087F125-30	33	Single	6' 2"	5' 7"	4' 11"	5' 5"	4' 11"	4' 3"	4' 2"	3' 9"	3' 4"
		Multiple	7' 7"	6' 11"	6' 1"	6' 8"	6' 1"	5' 3"	5' 2"	4' 8"	3' 11"
087F125-33	33	Single	6' 4"	5' 9"	5' 1"	5' 7"	5' 1"	4' 5"	4' 4"	3' 11"	3' 5"
		Multiple	7' 10"	7' 2"	6' 3"	6' 10"	6' 3"	5' 5"	5' 4"	4' 10"	4' 1"
087F125-43	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' 9"	5' 2"	4' 6"
150F125-18	33	Single	7' 11"	7' 2"	6' 3"	6' 11"	6' 3"	5' 6"	5' 4"	4' 10"	4' 2"
		Multiple	9' 9"	8' 10"	7' 6"	8' 6"	7' 6"	6' 0"	5' 8"	4' 9"	3' 8"
150F125-27	33	Single	9' 1"	8' 3"	7' 3"	7' 11"	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' 7"	5' 4"
150F125-30	33	Single	9' 5"	8' 6"	7' 5"	8' 2"	7' 5"	6' 6"	6' 4"	5' 9"	5' 0"
		Multiple	11' 7"	10' 6"	9' 2"	10' 2"	9' 2"	8' 0"	7' 10"	7' 0"	5' 8"
150F125-33	33	Single	9' 8"	8' 10"	7' 8"	8' 6"	7' 8"	6' 9"	6' 6"	5' 11"	5' 2"
		Multiple	12' 0"	10' 11"	9' 6"	10' 6"	9' 6"	8' 4"	8' 1"	7' 4"	6' 0"
150F125-43	33	Single	10' 6"	9' 6"	8' 4"	9' 2"	8' 4"	7' 3"	7' 1"	6' 5"	5' 7"
		Multiple	13' 0"	11' 9"	10' 3"	11' 4"	10' 3"	9' 0"	8' 9"	8' 0"	6' 8"

(Hat) Furring Channel Allowable Ceiling Spans (F-Sections) - L/360											
Section	F _y (ksi)	Spans	4 psf			6 psf			13 psf *		
			Spacing (in) on center			Spacing (in) on center			Spacing (in) on center		
			12	16	24	12	16	24	12	16	24
087F125-18	33	Single	4' 6"	4' 1"	3' 7"	4' 0"	3' 7"	3' 2"	3' 1"	2' 9"	2' 5"
		Multiple	5' 7"	5' 1"	4' 5"	4' 11"	4' 5"	3' 11"	3' 9"	3' 5"	2' 10"
087F125-27	33	Single	5' 3"	4' 9"	4' 2"	4' 7"	4' 2"	3' 7"	3' 6"	3' 2"	2' 10"
		Multiple	6' 6"	5' 10"	5' 2"	5' 8"	5' 2"	4' 6"	4' 4"	4' 0"	3' 6"
087F125-30	33	Single	5' 5"	4' 11"	4' 3"	4' 8"	4' 3"	3' 9"	3' 8"	3' 4"	2' 11"
		Multiple	6' 8"	6' 1"	5' 3"	5' 10"	5' 3"	4' 7"	4' 6"	4' 1"	3' 7"
087F125-33	33	Single	5' 7"	5' 1"	4' 5"	4' 10"	4' 5"	3' 10"	3' 9"	3' 5"	3' 0"
		Multiple	6' 10"	6' 3"	5' 5"	6' 0"	5' 5"	4' 9"	4' 8"	4' 3"	3' 8"
087F125-43	33	Single	6' 0"	5' 5"	4' 9"	5' 3"	4' 9"	4' 2"	4' 0"	3' 8"	3' 2"
		Multiple	7' 5"	6' 9"	5' 10"	6' 6"	5' 10"	5' 2"	5' 0"	4' 6"	4' 0"
150F125-18	33	Single	6' 11"	6' 3"	5' 6"	6' 0"	5' 6"	4' 9"	4' 8"	4' 3"	3' 8"
		Multiple	8' 6"	7' 9"	6' 9"	7' 5"	6' 9"	5' 11"	5' 8"	4' 9"	3' 8"
150F125-27	33	Single	7' 11"	7' 3"	6' 4"	6' 11"	6' 4"	5' 6"	5' 4"	4' 10"	4' 3"
		Multiple	9' 10"	8' 11"	7' 10"	8' 7"	7' 10"	6' 10"	6' 8"	6' 0"	5' 3"
150F125-30	33	Single	8' 2"	7' 5"	6' 6"	7' 2"	6' 6"	5' 8"	5' 6"	5' 0"	4' 5"
		Multiple	10' 2"	9' 2"	8' 0"	8' 10"	8' 0"	7' 0"	6' 10"	6' 3"	5' 5"
150F125-33	33	Single	8' 6"	7' 8"	6' 9"	7' 5"	6' 9"	5' 10"	5' 9"	5' 2"	4' 6"
		Multiple	10' 6"	9' 6"	8' 4"	9' 2"	8' 4"	7' 3"	7' 1"	6' 5"	5' 7"
150F125-43	33	Single	9' 2"	8' 4"	7' 3"	8' 0"	7' 3"	6' 4"	6' 2"	5' 7"	4' 11"
		Multiple	11' 4"	10' 3"	9' 0"	9' 11"	9' 0"	7' 10"	7' 8"	6' 11"	6' 1"

* Loads that exceed 10 psf limit require an approved CP60 coating.

Table Notes

1. Inside bend radius taken as $\frac{3}{32}$ ".
2. See page 5 for additional table notes.

U-Channel Section Properties												
Section	F _y (ksi)	Design Thickness (in)	Gross Properties					Effective Properties				
			Area (in ²)	Weight (lb/ft)	I _x (in ⁴)	R _x (in)	I _y (in ⁴)	R _y (in)	I _x (in ⁴)	S _x (in ³)	Ma (in-k)	Va (lb)
75U050-54	33	0.0566	0.087	0.30	0.007	0.288	0.002	0.155	0.007	0.019	0.45	315
150U050-54	33	0.0566	0.129	0.44	0.039	0.547	0.003	0.144	0.039	0.052	1.22	840
200U050-54	33	0.0566	0.157	0.54	0.079	0.709	0.003	0.136	0.079	0.079	1.87	1190
250U050-54	33	0.0566	0.186	0.63	0.139	0.866	0.003	0.128	0.139	0.111	2.64	1540

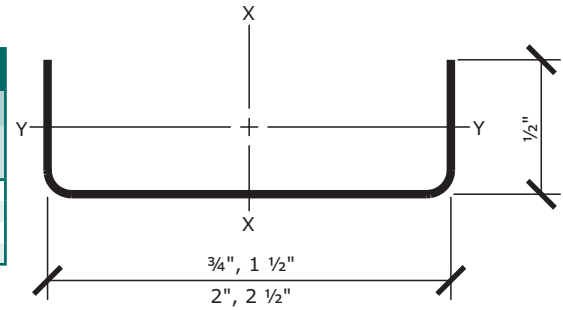


Table Notes

1. Multiple span indicates two or more equal spans with channel continuous over interior supports.
2. Listed spans are based on unbraced compression flanges.
3. Web crippling check is based on $\frac{3}{4}$ " bearing at end and interior supports. No bearing stiffeners are required.
4. See page 5 for additional table notes.

Allowable Ceiling Spans (U-Sections) - L/240																						
Section	F _y (ksi)	Spans	4 psf					6 psf					13 psf *					15 psf *				
			Channel Spacing (in) on center					Channel Spacing (in) on center					Channel Spacing (in) on center					Channel Spacing (in) on center				
			24	36	48	60	72	24	36	48	60	72	24	36	48	60	72	24	36	48	60	72
75U050-54	33	Single	3' 11"	3' 5"	3' 1"	2' 10"	2' 8"	3' 5"	3' 0"	2' 8"	2' 6"	2' 4"	2' 7"	2' 4"	2' 1"	1' 11"	1' 9"	2' 6"	2' 2"	2' 0"	1' 10"	1' 8"
		Multiple	4' 10"	4' 2"	3' 10"	3' 7"	3' 4"	4' 2"	3' 8"	3' 4"	3' 1"	2' 10"	3' 3"	2' 9"	2' 4"	2' 1"	1' 11"	3' 1"	2' 7"	2' 2"	2' 0"	1' 9"
150U050-54	33	Single	5' 6"	4' 10"	4' 5"	4' 1"	3' 10"	4' 10"	4' 3"	3' 10"	3' 7"	3' 5"	3' 9"	3' 3"	3' 0"	2' 9"	2' 7"	3' 7"	3' 2"	2' 10"	2' 7"	2' 5"
		Multiple	7' 1"	6' 2"	5' 8"	5' 3"	4' 11"	6' 2"	5' 5"	4' 11"	4' 7"	4' 4"	4' 10"	4' 2"	3' 9"	3' 4"	3' 0"	4' 7"	4' 0"	3' 6"	3' 1"	2' 9"
200U050-54	33	Single	5' 10"	5' 1"	4' 8"	4' 4"	4' 1"	5' 1"	4' 6"	4' 1"	3' 10"	3' 7"	4' 0"	3' 6"	3' 2"	3' 0"	2' 10"	3' 10"	3' 4"	3' 1"	2' 10"	2' 8"
		Multiple	7' 5"	6' 6"	5' 11"	5' 6"	5' 2"	6' 6"	5' 8"	5' 2"	4' 10"	4' 7"	5' 1"	4' 5"	4' 0"	3' 9"	3' 6"	4' 10"	4' 3"	3' 10"	3' 7"	3' 2"
250U050-54	33	Single	6' 1"	5' 4"	4' 10"	4' 6"	4' 3"	5' 4"	4' 8"	4' 3"	4' 0"	3' 9"	4' 2"	3' 8"	3' 4"	3' 1"	2' 11"	4' 0"	3' 6"	3' 2"	3' 0"	2' 10"
		Multiple	7' 9"	6' 9"	6' 2"	5' 9"	5' 5"	6' 9"	5' 11"	5' 5"	5' 0"	4' 9"	5' 3"	4' 7"	4' 3"	3' 11"	3' 9"	5' 0"	4' 5"	4' 0"	3' 9"	3' 7"

*Loads that exceed 10 psf limit require an approved CP60 coating.

Allowable Ceiling Spans (U-Sections) - L/360																						
Section	F _y (ksi)	Spans	4 psf					6 psf					13 psf *					15 psf *				
			Spacing (in) on center					Spacing (in) on center					Spacing (in) on center					Spacing (in) on center				
			24	36	48	60	72	24	36	48	60	72	24	36	48	60	72	24	36	48	60	72
75U050-54	33	Single	3' 5"	3' 0"	2' 8"	2' 6"	2' 4"	3' 0"	2' 7"	2' 4"	2' 2"	2' 1"	2' 4"	2' 0"	1' 10"	1' 8"	1' 7"	2' 2"	1' 11"	1' 9"	1' 7"	1' 6"
		Multiple	4' 2"	3' 8"	3' 4"	3' 1"	2' 11"	3' 8"	3' 2"	2' 11"	2' 8"	2' 7"	2' 10"	2' 6"	2' 3"	2' 1"	1' 11"	2' 8"	2' 4"	2' 2"	2' 0"	1' 9"
150U050-54	33	Single	5' 6"	4' 10"	4' 5"	4' 1"	3' 10"	4' 10"	4' 3"	3' 10"	3' 7"	3' 5"	3' 9"	3' 3"	3' 0"	2' 9"	2' 7"	3' 7"	3' 2"	2' 10"	2' 7"	2' 5"
		Multiple	7' 1"	6' 2"	5' 8"	5' 3"	4' 11"	6' 2"	5' 5"	4' 11"	4' 7"	4' 4"	4' 10"	4' 2"	3' 9"	3' 4"	3' 0"	4' 7"	4' 0"	3' 6"	3' 1"	2' 9"
200U050-54	33	Single	5' 10"	5' 1"	4' 8"	4' 4"	4' 1"	5' 1"	4' 6"	4' 1"	3' 10"	3' 7"	4' 0"	3' 6"	3' 2"	3' 0"	2' 10"	3' 10"	3' 4"	3' 1"	2' 10"	2' 8"
		Multiple	7' 5"	6' 6"	5' 11"	5' 6"	5' 2"	6' 6"	5' 8"	5' 2"	4' 10"	4' 7"	5' 1"	4' 5"	4' 0"	3' 9"	3' 6"	4' 10"	4' 3"	3' 10"	3' 7"	3' 2"
250U050-54	33	Single	6' 1"	5' 4"	4' 10"	4' 6"	4' 3"	5' 4"	4' 8"	4' 3"	4' 0"	3' 9"	4' 2"	3' 8"	3' 4"	3' 1"	2' 11"	4' 0"	3' 6"	3' 2"	3' 0"	2' 10"
		Multiple	7' 9"	6' 9"	6' 2"	5' 9"	5' 5"	6' 9"	5' 11"	5' 5"	5' 0"	4' 9"	5' 3"	4' 7"	4' 3"	3' 11"	3' 9"	5' 0"	4' 5"	4' 0"	3' 9"	3' 7"

*Loads that exceed 10 psf limit require an approved CP60 coating.

Screw Capacities

Table Notes

- Capacities based on AISI S100 Section E4.
- When connecting materials of different steel thicknesses or tensile strengths, use the lowest values. Tabulated values assume two sheets of equal thickness are connected.
- Capacities are based on Allowable Strength Design (ASD) and include safety factor of 3.0.
- Where multiple fasteners are used, screws are assumed to have a center-to-center spacing of at least 3 times the nominal diameter (d).
- Screws are assumed to have a center-of-screw to edge-of-steel dimension of at least 1.5 times the nominal diameter (d) of the screw.
- Pull-out capacity is based on the lesser of pull-out capacity in sheet closest to screw tip or tension strength of screw.
- Pull-over capacity is based on the lesser of pull-over capacity for sheet closest to screw header or tension strength of screw.
- Values are for pure shear or tension loads. See AISI Section E4.5 for combined shear and pull-over.
- Screw Shear (Pss), tension (Pts), diameter, and head diameter are from CFSEI Tech Note (F701-12).
- Screw shear strength is the average value, and tension strength is the lowest value listed in CFSEI Tech Note (F701-12).
- Higher values for screw strength (Pss, Pts), may be obtained by specifying screws from a specific manufacturer.

Allowable Screw Connection Capacity (lbs)

Thickness (Mils)	Design Thickness	Fy Yield (ksi)	Fu Tensile (ksi)	#6 Screw (Pss = 643 lbs, Pts = 419 lbs)			#8 Screw (Pss = 1278 lbs, Pts = 586 lbs)			#10 Screw (Pss = 1644 lbs, Pts = 1158 lbs)			#12 Screw (Pss = 2330 lbs, Pts = 2325 lbs)			¼" Screw (Pss = 3048 lbs, Pts = 3201 lbs)		
				0.138" dia, 0.272" Head			0.164" dia, 0.272" Head			0.190" dia, 0.340" Head			0.216" dia, 0.340" Head			0.250" dia, 0.409" Head		
				Shear	Pull-Out	Pull-Over	Shear	Pull-Out	Pull-Over	Shear	Pull-Out	Pull-Over	Shear	Pull-Out	Pull-Over	Shear	Pull-Out	Pull-Over
18	0.0188	33	33	44	24	84	48	29	84	52	33	105	55	38	105	60	44	127
27	0.0283	33	33	82	37	127	89	43	127	96	50	159	102	57	159	110	66	191
30	0.0312	33	33	95	40	140	103	48	140	111	55	175	118	63	175	127	73	211
33	0.0346	33	45	151	61	140	164	72	195	177	84	265	188	95	265	203	110	318
43	0.0451	33	45	214	79	140	244	94	195	263	109	345	280	124	345	302	144	415
54	0.0566	33	45	214	100	140	344	118	195	370	137	386	394	156	433	424	180	521
68	0.0713	33	45	214	125	140	426	149	195	523	173	386	557	196	545	600	227	656
97	0.1017	33	45	214	140	140	426	195	195	548	246	386	777	280	775	1,016	324	936
118	0.1242	33	45	214	140	140	426	195	195	548	301	386	777	342	775	1,016	396	1,067
54	0.0566	50	65	214	140	140	426	171	195	534	198	386	569	225	625	613	261	752
68	0.0713	50	65	214	140	140	426	195	195	548	249	386	777	284	775	866	328	948
97	0.1017	50	65	214	140	140	426	195	195	548	356	386	777	405	775	1,016	468	1,067
118	0.1242	50	65	214	140	140	426	195	195	548	386	386	777	494	775	1,016	572	1,067

Weld Capacities

Table Notes

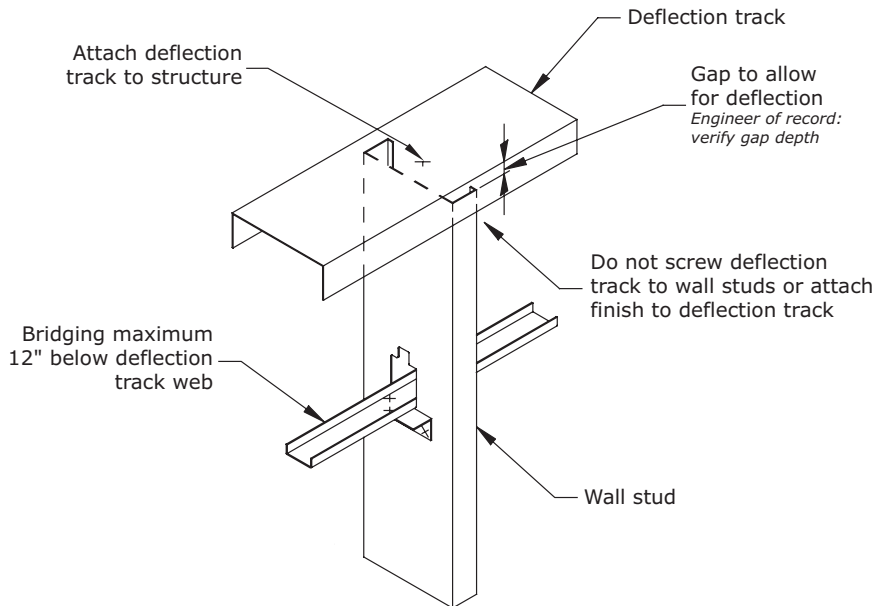
- Capacities based on the AISI S100 Specification Sections E2.4 for fillet welds and E2.5 for flare groove welds.
- When connecting materials of different steel thicknesses or tensile strengths, use the lowest values.
- Capacities are based on Allowable Strength Design (ASD).
- Weld capacities are based on E60 electrodes. For material thinner than 68 mil, 0.030" to 0.035" diameter wire electrodes may provide best results.
- Longitudinal capacity is considered to be loading in the direction of the length of the weld.
- Transverse capacity is loading in perpendicular direction of the length of the weld.
- For flare groove welds, the effective throat of weld is conservatively assumed to be less than 2t.
- For longitudinal fillet welds, a minimum value of EQ E2.4-1, E2.4-2, and E2.4-4 was used.
- For transverse fillet welds, a minimum value of EQ E2.4-3 and E2.4-4 was used.
- For longitudinal flare groove welds, a minimum value of EQ E2.5-2 and E2.5-3 was used.

Allowable Weld Capacity (lbs / in)

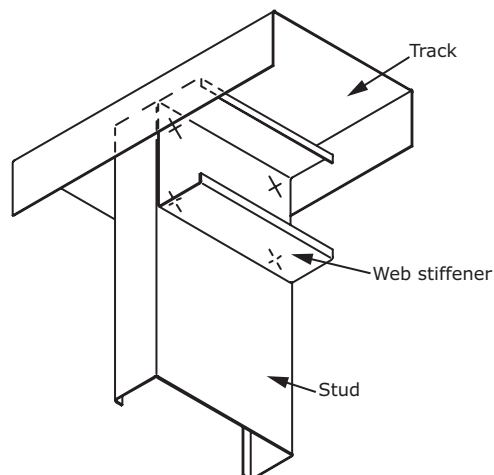
Thickness (Mils)	Design Thickness	Fy Yield (ksi)	Fu Tensile (ksi)	Fillet Welds		Flare Groove Welds	
				Longitudinal	Transverse	Longitudinal	Transverse
43	0.0451	33	45	499	864	544	663
54	0.0566	33	45	626	1084	682	832
68	0.0713	33	45	789	1365	859	1048
97	0.1017	33	45	1125	1269	- ¹	- ¹
54	0.0566	50	65	905	1566	985	1202
68	0.0713	50	65	1140	1972	1241	1514
97	0.1017	50	65	1269	1269	- ¹	- ¹

¹Weld capacity for material thickness greater than 0.10" requires engineering judgment to determine leg of welds, W1 and W2.

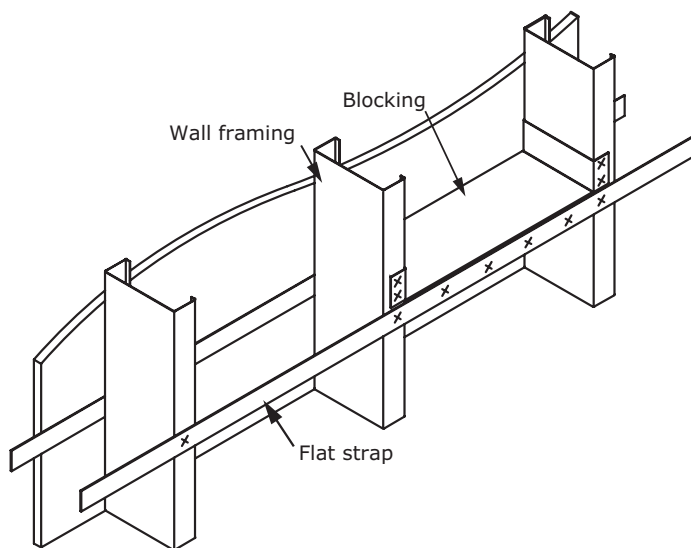
Deflection Track



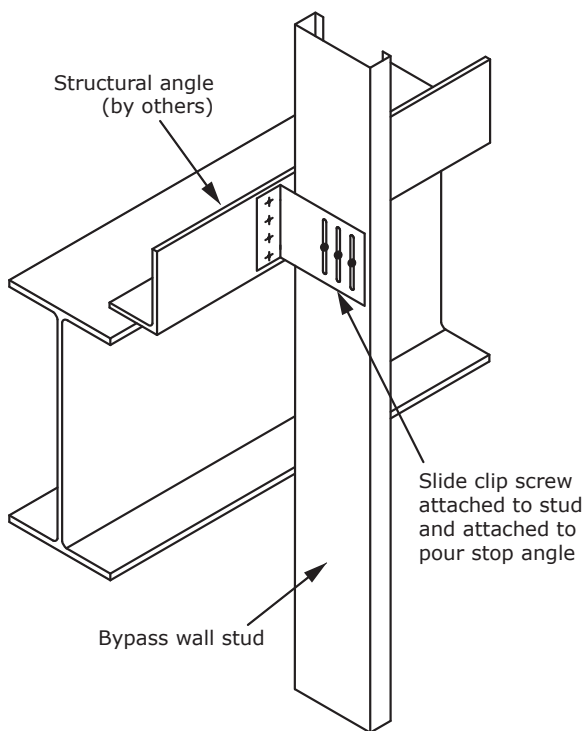
Wall Stud Web Stiffener



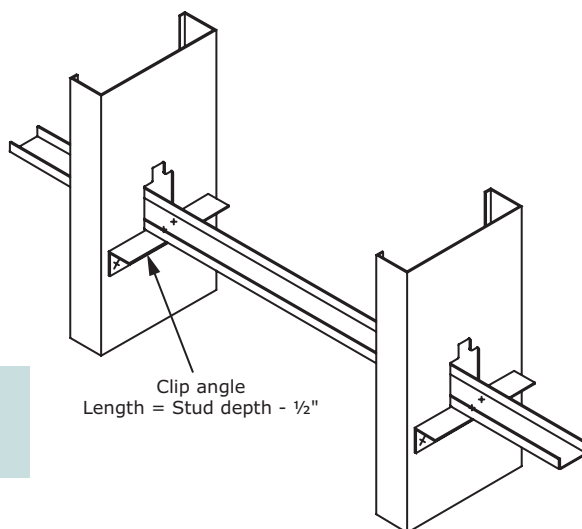
Flat Strap Lateral Bracing



Slide Clip Attachment



U-Channel Lateral Bracing

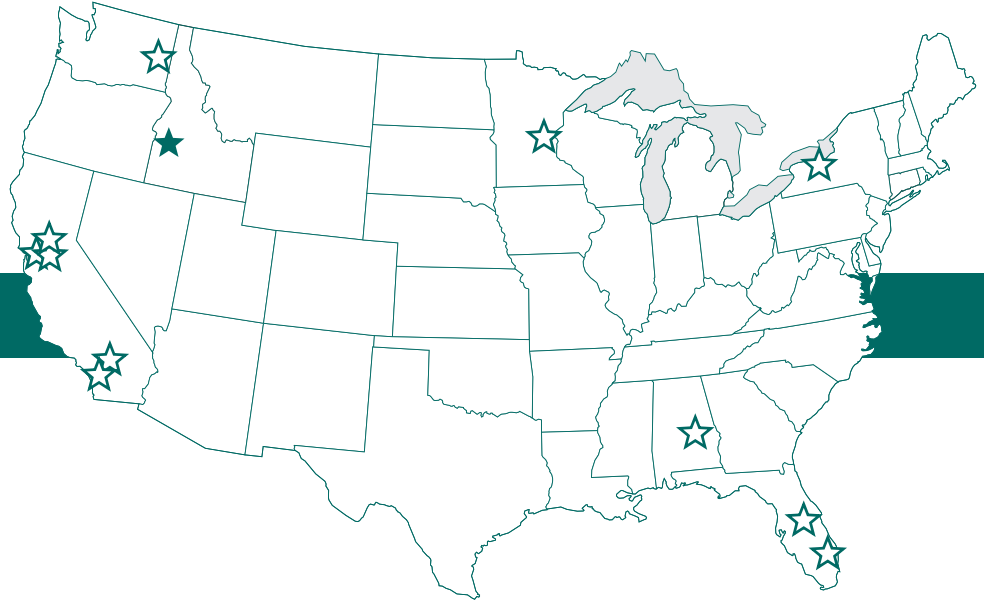


General Note:
All connections should be designed by a licensed design professional.



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