

Product Technical Guide



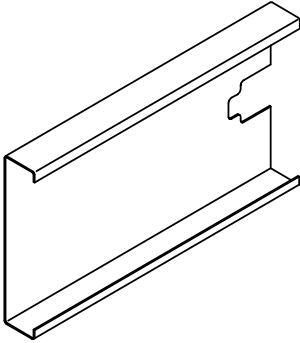
Complies with NBCC
National Build Code of Canada



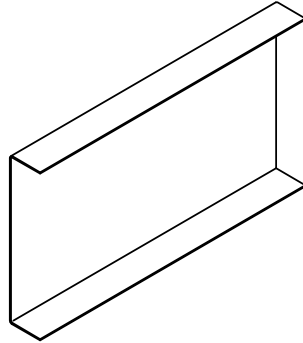
Prime Mill Certified Steel
100% Galvanized Coating

Note:

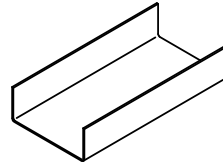
* For "S" members, see table on page 5 for stiffening lip length.



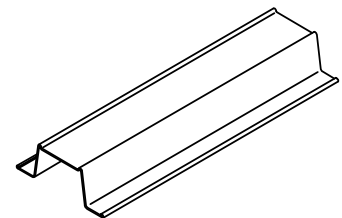
**"S" - C-STUD/JOIST
S-SECTIONS**



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



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



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

Nomenclature Example:

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

Member Web Depth:

(Example: 6" = **600** × $\frac{1}{100}$ inch)

All member depths are taken in $\frac{1}{100}$ inch.

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

Flange Width:

(Example: $1\frac{5}{8}$ " = 1.625" ≈ **162** × $\frac{1}{100}$ inch)

All flange widths are taken in $\frac{1}{100}$ inch.

600 S 162 - 54

Style:

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

The four alpha characters utilized by the designator system are:

S = Stud or Joist Sections

T = Track Sections

U = Channel Sections

F = Furring Channel Sections

Mil Thickness:

(Example: 0.054 in. = **54** mils; 1 mil = $\frac{1}{1000}$ inch)

Mil thickness is the minimum base steel thickness in mils. Minimum base steel thickness represents 95% of the design thickness.

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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 benefits the environment, contractor, designer, and developer.)

Steel is not only a recyclable product, but also a stronger product that allows for longer clear-spans. Cold-formed steel is lighter providing ease of handling. It 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 job site. The structural shapes manufactured are easily used for nonstructural and structural wall assemblies, floor and ceiling joist assemblies, trusses, and panelized systems.

SCAFCO in collaboration with AISI have developed and adopted a standard designator system for identifying cold-formed steel framing members. Using a standard designator system will overcome the varied designators that are produced by each individual manufacturer.

Technical Assistance

Professional assistance is available through SCAFCO's technical department by calling 509-343-9000.

Code Approval

SCAFCO as a SSMA producer member demonstrate code compliance through their participation in a third party Code Compliance Certification program for structural and nonstructural products, administered by Architectural Testing, Inc. (ATI). Look for products and bundles marked with the SSMA and ATI label or logo stating "CERTIFIED CODE COMPLIANT". See back cover of this catalog for additional information on code compliancy. SSMA maintains an Evaluation Service Report through International Code Council Evaluation Service (ICC-ES). For details on all programs, as well as a listing of manufacturing facilities participating in each program, visit www.SSMA.com.

Material Specifications

SCAFCO's structural and nonstructural members meet or exceed the minimum code requirements below. Higher corrosion protection coatings such as G90 are available upon request. Products manufactured by SCAFCO are cold-formed from 100% galvanized steel.

Product Type	Material Specifications	Min Yield	Min Tensile	Minimum Metallic Coating Designation ¹
Nonstructural Products ASTM C645	ASTM A653, SS Grade 33	33 ksi	45 ksi	G40
Structural Products ASTM C955	ASTM A653, SS Grade 33	33 ksi	45 ksi	G60
	ASTM A653, SS Grade 50 Class 1	50 ksi	65 ksi	G60
	ASTM A1003, Grade 33 Type H (ST33H)	33 ksi	45 ksi	G60
	ASTM A1003, Grade 50 Type H (ST50H)	50 ksi	65 ksi	G60

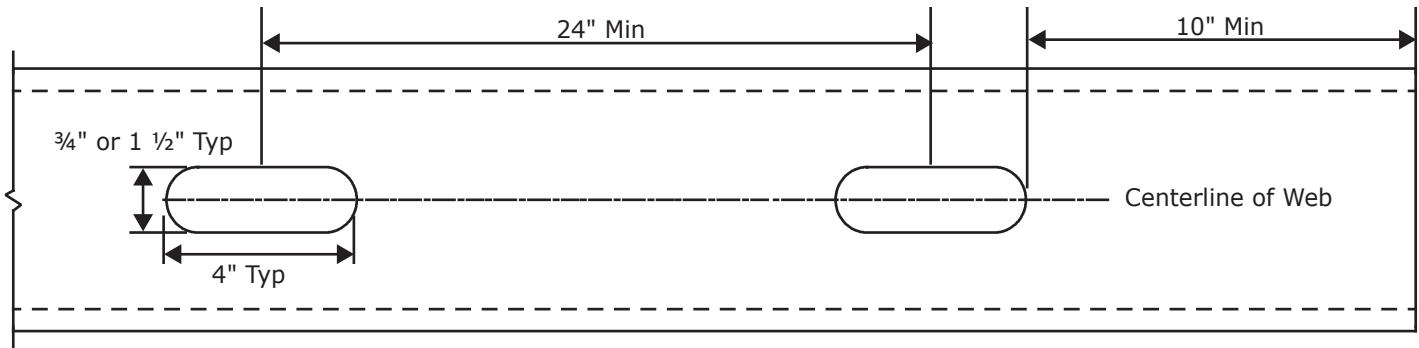
¹ A653 Standard for steel sheet, zinc coated (galvanized) by the hot-dip process

Disclaimer

All data, specifications, and details contained in this publication are intended as a general guide for using SCAFCO's 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. SCAFCO assumes 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. SCAFCO reserves the right to make modifications and/or change materials of any of their products without prior notice or obligation. Please contact SCAFCO to verify product availability.

General Notes for All Tables

- Where 'NASPEC' is referenced, it is the "North American Specification for the Design of Cold-Formed Steel Structural Members", 2007 edition, including Supplement No. 2 (S100-07/S2-10).
- The strength increase from cold work of forming has been incorporated for flexural strength per NASPEC A7.2, where applicable.
- When provided, factory punchouts will be located along the centerline of the webs of the members and will have a minimum center-to-center spacing of 24 inches. Punchouts for members > 2 1/2" deep are a maximum of 1 1/2" wide x 4" long. Members with depths 2 1/2" and smaller are maximum 3/4" wide x 4" long.



Steel Thickness Table

Designation Thickness (mils)	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

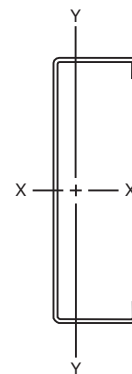
Member	Flange Width	Stiffening Lip Length (in)
S125	1 1/4"	0.188
S137	1 3/8"	0.375
S162	1 5/8"	0.500
S200	2"	0.625
S250	2 1/2"	0.625
S300	3"	0.625
S350	3 1/2"	1.000

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

² The tables in this catalog are calculated based on inside corner radii listed in this table. The inside corner radius is the maximum of $\frac{3}{16} - t/2$ 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 gross section about the X-X axis (strong axis).
 S_x : Section modulus of the gross section about the X-X axis (strong axis).
 R_x : Radius of gyration of the gross section about the X-X axis (strong axis).
 I_y : Moment of inertia of the gross section about the Y-Y axis (weak axis).
 R_y : Radius of gyration of the gross section about the Y-Y axis (weak axis).



Effective Properties

- I_{xe} : Effective Moment of inertia about the X-X axis (strong axis).
 S_{xe} : Effective Section modulus about the X-X axis (strong axis) at yield stress.
 M_{r-L} : Fully braced factored resisting moment about the X-X axis (strong axis), including the resistance factor, $\phi = 0.90$.
 M_{r-D} : Distortional buckling factored resisting moment about the X-X (strong axis), including a resistance factor, $\phi = 0.85$.
 M_r : Factored resisting moment for track and channel members with a resistance factor, $\phi = 0.90$.
 V_{rg} : Factored shear resistance of the unpunched web with a resistance factor, $\phi = 0.80$.
 V_{rnet} : Factored shear resistance of the punched web with a resistance factor, $\phi = 0.80$.

Torsional and Other Properties

- J : St. Venant torsional constant.
 C_w : Torsional warping constant.
 X_o : Distance from 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 : The longest weak axis (L_y) and torsional (L_t) unbraced length at which lateral-torsional buckling is restrained in accordance with NASPEC C3.1.2.1

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

¹ h/t exceeds 200

² h 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.

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

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

Table Notes

1. Web depth for track sections equals nominal depth plus 2 x design thickness plus bend radius.
2. Hems on non-structural track sections are ignored.
3. Effective properties include the strength increase from cold-work of forming per NASPEC section A7.2 where applicable. Where Allowable Local Buckling Moment, M_{L} is followed by '2', a stress increase from cold-work of forming has been applied.
4. For deflection determination, use the effective moment of inertia. Effective moment of inertia is based on Procedure 1 of the NASPEC at a stress = $0.6F_y$
5. Tabulated gross properties are based on the full, unreduced section away from punchouts.
6. Effective properties of all 'S' sections based on punched sections. Track sections are considered unpunched.
7. Where effective properties are not listed for a section at 33, 50 ksi yield, web depth-to-thickness or flange width-to-thickness limits from the NASPEC are exceeded. Only gross properties are available.
8. See page 5 for additional table notes.

Section	Design Thickness (in)	Fy (ksi)	Gross Properties							Effective Properties						Torsional Properties						Lu (in)
			Area (in²)	Weight (lb/ft)	Ix (in⁴)	Sx (in³)	Rx (in)	Iy (in⁴)	Ry (in)	Ixe (in⁴)	Sxe (in³)	Mr-L (in-k)	Mr-D (in-k)	Vrg (lb)	Vrnet (lb)	Jx1000 (in⁴)	Cw (in⁶)	Xo (in)	m (in)	Ro (in)	β	
162S125-18	0.0188	33	0.080	0.27	0.038	0.046	0.686	0.016	0.447	0.033	0.031	0.91	0.93	387	127	0.009	0.009	-1.029	0.594	1.315	0.388	29.0
162S125-27	0.0283	33	0.120	0.41	0.056	0.068	0.682	0.023	0.443	0.053	0.053	1.57	1.61	632	136	0.032	0.013	-1.017	0.587	1.302	0.390	29.1
162S125-30	0.0312	33	0.131	0.45	0.061	0.075	0.681	0.026	0.441	0.060	0.060	1.79	1.84	695	135	0.043	0.014	-1.014	0.585	1.298	0.390	29.2
162S125-33	0.0346	33	0.145	0.49	0.067	0.083	0.679	0.028	0.440	0.066	0.069	2.06	2.10	769	134	0.058	0.016	-1.010	0.583	1.294	0.391	29.2
250S125-18	0.0188	33	0.097	0.33	0.099	0.079	1.014	0.019	0.439	0.088	0.059	1.77	1.46	330	251	0.011	0.023	-0.904	0.543	1.427	0.599	29.0
250S125-27	0.0283	33	0.144	0.49	0.147	0.118	1.009	0.027	0.434	0.141	0.097	2.89	2.59	877	440	0.039	0.034	-0.893	0.536	1.416	0.602	28.9
250S125-30	0.0312	33	0.159	0.54	0.161	0.129	1.008	0.030	0.433	0.158	0.110	3.27	2.96	1065	484	0.052	0.037	-0.889	0.534	1.412	0.603	28.9
250S125-33	0.0346	33	0.176	0.60	0.178	0.142	1.006	0.033	0.431	0.175	0.125	3.72	3.41	1248	510	0.070	0.040	-0.885	0.532	1.408	0.605	28.9
250S125-43	0.0451	33	0.227	0.77	0.228	0.182	1.001	0.041	0.426	0.225	0.177	5.25	4.87	1620	505	0.154	0.050	-0.873	0.525	1.396	0.608	28.9
250S125-54	0.0566	50	0.280	0.95	0.277	0.222	0.994	0.049	0.419	0.274	0.209	9.39	8.75	3012	723	0.299	0.060	-0.859	0.518	1.379	0.612	23.3
250S125-68	0.0713	50	0.345	1.18	0.334	0.267	0.984	0.057	0.408	0.334	0.262	11.78	11.36	3668	664	0.585	0.072	-0.839	0.508	1.356	0.617	23.3
350S125-18	0.0188	33	0.115	0.39	0.215	0.123	1.366	0.021	0.423	0.193	0.072	2.14	2.08	230	203	0.014	0.050	-0.797	0.495	1.637	0.763	28.8
350S125-27	0.0283	33	0.173	0.59	0.320	0.183	1.361	0.030	0.418	0.307	0.130	3.86	3.76	786	459	0.046	0.072	-0.787	0.489	1.627	0.766	28.7
350S125-30	0.0312	33	0.190	0.65	0.351	0.201	1.359	0.033	0.417	0.344	0.150	4.45	4.32	1054	557	0.062	0.079	-0.784	0.487	1.624	0.767	28.6
350S125-33	0.0346	33	0.210	0.72	0.387	0.221	1.358	0.036	0.415	0.381	0.175	5.19	5.01	1310	623	0.084	0.087	-0.780	0.485	1.620	0.768	28.6
350S125-43	0.0451	33	0.272	0.93	0.498	0.284	1.352	0.046	0.410	0.493	0.258	7.66	7.26	2226	808	0.184	0.109	-0.769	0.479	1.609	0.771	28.4
350S125-54	0.0566	50	0.337	1.15	0.608	0.348	1.344	0.055	0.402	0.603	0.308	13.85	13.14	4316	1212	0.360	0.131	-0.755	0.471	1.593	0.775	22.9
350S125-68	0.0713	50	0.417	1.42	0.739	0.422	1.332	0.064	0.391	0.737	0.400	17.99	17.80	5379	1148	0.706	0.156	-0.737	0.462	1.571	0.780	22.8
362S125-18	0.0188	33	0.118	0.40	0.234	0.129	1.409	0.021	0.421	0.210	0.075	2.22	2.16	221	209	0.014	0.054	-0.786	0.490	1.667	0.778	28.8
362S125-27	0.0283	33	0.176	0.60	0.347	0.192	1.404	0.031	0.416	0.334	0.135	4.01	3.91	757	473	0.047	0.079	-0.776	0.484	1.657	0.781	28.6
362S125-30	0.0312	33	0.194	0.66	0.381	0.210	1.402	0.033	0.415	0.373	0.156	4.63	4.49	1016	575	0.063	0.086	-0.773	0.482	1.654	0.782	28.6
362S125-33	0.0346	33	0.215	0.73	0.421	0.232	1.400	0.037	0.413	0.414	0.182	5.40	5.21	1310	667	0.086	0.094	-0.769	0.480	1.650	0.783	28.5
362S125-43	0.0451	33	0.278	0.95	0.540	0.298	1.395	0.046	0.408	0.535	0.269	7.98	7.57	2226	865	0.188	0.118	-0.758	0.473	1.639	0.786	28.4
362S125-54	0.0566	50	0.344	1.17	0.661	0.365	1.386	0.055	0.400	0.655	0.321	14.45	13.70	4316	1300	0.367	0.142	-0.744	0.466	1.623	0.790	22.8
362S125-68	0.0713	50	0.426	1.45	0.803	0.443	1.374	0.065	0.389	0.802	0.418	18.82	18.61	5593	1285	0.721	0.169	-0.726	0.457	1.602	0.795	22.7
400S125-18¹	0.0188	33	0.125	0.42	0.294	0.147	1.536	0.021	0.414	0.264	0.083	2.46	2.39	200	200	0.015	0.068	-0.754	0.475	1.760	0.816	28.7
400S125-27	0.0283	33	0.187	0.64	0.438	0.219	1.531	0.031	0.410	0.421	0.151	4.47	4.35	682	510	0.050	0.098	-0.744	0.469	1.751	0.819	28.5
400S125-30	0.0312	33	0.206	0.70	0.481	0.240	1.529	0.034	0.408	0.471	0.174	5.17	5.01	915	620	0.067	0.107	-0.741	0.467	1.748	0.820	28.5
400S125-33	0.0346	33	0.228	0.77	0.531	0.265	1.527	0.038	0.407	0.522	0.203	6.03	5.82	1249	761	0.091	0.118	-0.738	0.465	1.744	0.821	28.4
400S125-43	0.0451	33	0.295	1.00	0.682	0.341	1.521	0.048	0.402	0.675	0.301	8.95	8.50	2226	1036	0.200	0.148	-0.727	0.459	1.733	0.824	28.2
400S125-54	0.0566	50	0.365	1.24	0.835	0.418	1.512	0.057	0.394	0.828	0.361	16.25	15.43	4316	1565	0.390	0.178	-0.713	0.451	1.718	0.828	22.7
400S125-68	0.0713	50	0.452	1.54	1.017	0.509	1.499	0.066	0.383	1.015	0.474	21.32	21.07	6235	1736	0.767	0.213	-0.695	0.442	1.696	0.832	22.5
550S125-18¹	0.0188	33	0.153	0.52	0.630	0.229	2.029	0.023	0.390	-	-	-	-	-	-	0.018	0.140	-0.651	0.423	2.166	0.910	-
550S125-27	0.0283	33	0.229	0.78	0.938	0.341	2.023	0.034	0.385	0.864	0.246	7.31	6.05	489	489	0.061	0.205	-0.641	0.417	2.157	0.912	27.9
550S125-30	0.0312	33	0.252	0.86	1.031	0.375	2.021	0.037	0.384	0.980	0.286	8.49	7.02	655	655	0.082	0.224	-0.639	0.415	2.154	0.912	27.9
550S125-33	0.0346	33	0.279	0.95	1.139	0.414	2.019	0.041	0.382	1.100	0.335	9.95	8.21	894	894	0.112	0.246	-0.635	0.413	2.151	0.913	27.8
550S125-43	0.0451	33	0.362	1.23	1.468	0.534	2.013	0.052	0.377	1.455	0.500	14.85	12.23	1984	1535	0.246	0.309	-0.625	0.407	2.141	0.915	27.6
550S125-54	0.0566	50	0.450	1.53	1.805	0.656	2.002	0.061	0.369	1.789	0.606	27.26	22.37	3960	2408	0.481	0.374	-0.613	0.401	2.126	0.917	22.1
550S125-68	0.0713	50	0.559	1.90	2.209	0.803	1.987	0.072	0.358	2.205	0.791	35.59	31.20	6848	3240	0.948	0.448	-0.597	0.392	2.106	0.920	21.8
600S125-18¹	0.0188	33	0.162	0.55	0.778	0.259	2.189	0.024	0.382	-	-	-	-	-	-	0.019	0.172	-0.623	0.408	2.308	0.927	-
600S125-27¹	0.0283	33	0.243	0.83	1.160	0.387	2.183	0.035	0.377	1.053	0.271	8.04	6.58	446	446	0.065	0.251	-0.614	0.402	2.299	0.929	27.7
600S125-30	0.0312	33	0.268	0.91	1.275	0.425	2.181	0.038	0.376	1.196	0.315	9.35	7.65	598	598	0.087	0.274	-0.611	0.401	2.296	0.929	27.6
600S125-33	0.0346	33	0.297	1.01	1.409	0.470	2.179	0.042	0.374	1.345	0.369	10.97	8.96	817	817	0.118	0.300	-0.608	0.399	2.293	0.930	27.6
600S125-43	0.0451	33	0.385	1.31	1.817	0.606	2.173	0.053	0.369	1.794	0.555	16.47	13.43	1812	1588	0.261	0.378	-0.598	0.393	2.284	0.931	27.3
600S125-54	0.0566	50	0.479	1.63	2.236	0.745	2.161	0.063	0.362	2.216	0.673	30.28	24.62	3613	2493	0.511	0.457	-0.586	0.386	2.269	0.933	21.9
600S125-68	0.0713	50	0.595	2.02	2.740	0.913	2.146	0.073	0.351	2.735	0.898	40.39	34.55	6848	3685	1.008	0.548	-0.570	0.378	2.248	0.936	21.6
800S125-18¹	0.0188	33																				

Section	Design Thickness (in)	Fy (ksi)	Gross Properties							Effective Properties						Torsional Properties							Lu (in)
			Area (in²)	Weight (lb/ft)	Ix (in⁴)	Sx (in³)	Rx (in)	Iy (in⁴)	Ry (in)	Ixe (in⁴)	Sxe (in³)	Mr-L (in-k)	Mr-D (in-k)	Vrg (lb)	Vrnet (lb)	Jx1000 (in⁴)	Cw (in⁶)	Xo (in)	m (in)	Ro (in)	β		
250S137-33	0.0346	33	0.197	0.67	0.203	0.163	1.015	0.052	0.515	0.203	0.158	4.68	4.39	1248	510	0.079	0.076	-1.141	0.677	1.612	0.499	35.6	
250S137-43	0.0451	33	0.255	0.87	0.261	0.208	1.010	0.067	0.511	0.261	0.205	6.81 ²	6.53	1620	505	0.173	0.096	-1.129	0.670	1.599	0.501	33.6	
250S137-54	0.0566	50	0.316	1.07	0.318	0.255	1.004	0.080	0.504	0.318	0.244	12.35 ²	11.84	3012	723	0.337	0.115	-1.115	0.663	1.583	0.504	27.1	
250S137-68	0.0713	50	0.390	1.33	0.386	0.309	0.994	0.095	0.495	0.386	0.308	16.01 ²	15.15	3668	664	0.661	0.138	-1.096	0.653	1.561	0.507	26.8	
250S162-33	0.0346	33	0.223	0.76	0.235	0.188	1.027	0.087	0.624	0.235	0.180	5.34	5.06	1248	510	0.089	0.146	-1.470	0.859	1.898	0.401	44.1	
250S162-43	0.0451	33	0.289	0.98	0.302	0.242	1.022	0.111	0.620	0.302	0.240	7.85 ²	7.46	1620	505	0.196	0.184	-1.457	0.852	1.885	0.402	42.1	
250S162-54	0.0566	50	0.358	1.22	0.370	0.296	1.016	0.135	0.613	0.370	0.284	14.15 ²	13.43	3012	723	0.383	0.223	-1.443	0.845	1.868	0.403	33.9	
250S162-68	0.0713	50	0.443	1.51	0.450	0.360	1.007	0.162	0.605	0.450	0.357	18.20 ²	17.33	3668	664	0.752	0.268	-1.424	0.835	1.846	0.405	33.7	
350S162-33	0.0346	33	0.258	0.88	0.508	0.290	1.404	0.098	0.617	0.508	0.257	7.64	7.41	1310	623	0.103	0.277	-1.324	0.796	2.026	0.573	42.7	
350S162-43	0.0451	33	0.334	1.14	0.654	0.374	1.400	0.125	0.612	0.654	0.357	10.59	10.38	2226	808	0.227	0.350	-1.312	0.789	2.014	0.575	42.6	
350S162-54	0.0566	50	0.415	1.41	0.804	0.460	1.392	0.152	0.606	0.804	0.426	19.15	18.52	4316	1212	0.443	0.426	-1.298	0.782	1.998	0.578	34.5	
350S162-68	0.0713	50	0.515	1.75	0.985	0.563	1.383	0.184	0.597	0.985	0.549	24.71	23.91	5379	1148	0.872	0.514	-1.280	0.772	1.977	0.581	34.5	
350S300-54	0.0566	50	0.585	1.99	1.286	0.735	1.483	0.724	1.113	1.166	0.508	22.85	23.72	4316	1212	0.624	2.166	-2.682	1.531	3.261	0.323	60.4	
350S300-68	0.0713	50	0.729	2.48	1.586	0.906	1.475	0.888	1.104	1.501	0.687	30.90	32.00	5379	1148	1.235	2.649	-2.663	1.521	3.238	0.324	60.5	
362S137-33	0.0346	33	0.236	0.80	0.479	0.264	1.424	0.059	0.501	0.479	0.232	6.90	6.71	1310	667	0.094	0.165	-1.003	0.615	1.813	0.694	34.7	
362S137-43	0.0451	33	0.306	1.04	0.616	0.340	1.419	0.075	0.497	0.616	0.320	9.51	9.45	2226	865	0.207	0.208	-0.991	0.608	1.801	0.697	34.6	
362S137-54	0.0566	50	0.379	1.29	0.756	0.417	1.411	0.091	0.490	0.756	0.381	17.17	16.90	4316	1300	0.405	0.251	-0.978	0.601	1.785	0.700	27.9	
362S137-68	0.0713	50	0.470	1.60	0.922	0.509	1.401	0.109	0.480	0.922	0.493	22.19	21.63	5593	1285	0.797	0.302	-0.959	0.592	1.764	0.704	27.8	
362S162-33	0.0346	33	0.262	0.89	0.551	0.304	1.450	0.099	0.616	0.551	0.268	7.95	7.71	1310	667	0.105	0.297	-1.308	0.789	2.048	0.592	42.6	
362S162-43	0.0451	33	0.340	1.16	0.710	0.392	1.445	0.127	0.611	0.710	0.372	11.04	10.81	2226	865	0.230	0.376	-1.297	0.782	2.036	0.594	42.5	
362S162-54	0.0566	50	0.422	1.44	0.873	0.481	1.438	0.154	0.604	0.873	0.444	19.96	19.30	4316	1300	0.451	0.457	-1.283	0.774	2.020	0.597	34.4	
362S162-68	0.0713	50	0.524	1.78	1.069	0.590	1.429	0.186	0.596	1.069	0.574	25.82	25.06	5593	1285	0.887	0.552	-1.264	0.765	1.998	0.600	34.3	
362S200-33	0.0346	33	0.297	1.01	0.648	0.358	1.478	0.177	0.772	0.637	0.294	8.74	8.78	1310	667	0.118	0.577	-1.741	1.030	2.411	0.478	53.6	
362S200-43	0.0451	33	0.385	1.31	0.836	0.461	1.474	0.227	0.767	0.836	0.427	12.67	12.35	2226	865	0.261	0.734	-1.729	1.024	2.398	0.480	53.5	
362S200-54	0.0566	50	0.479	1.63	1.030	0.568	1.467	0.277	0.761	1.030	0.490	22.03	21.96	4316	1300	0.511	0.896	-1.715	1.016	2.382	0.482	43.3	
362S200-68	0.0713	50	0.595	2.02	1.265	0.698	1.458	0.337	0.753	1.265	0.666	29.98	29.11	5593	1285	1.008	1.089	-1.696	1.006	2.360	0.484	43.3	
362S300-54	0.0566	50	0.592	2.01	1.390	0.767	1.533	0.734	1.114	1.261	0.529	23.79	24.62	4316	1300	0.632	2.316	-2.659	1.522	3.265	0.337	60.2	
362S300-68	0.0713	50	0.738	2.51	1.716	0.947	1.525	0.900	1.105	1.623	0.716	32.23	33.24	5593	1285	1.250	2.833	-2.640	1.512	3.243	0.337	60.4	
400S137-33	0.0346	33	0.249	0.85	0.603	0.301	1.556	0.061	0.496	0.603	0.259	7.69	7.50	1249	761	0.099	0.204	-0.965	0.597	1.897	0.741	34.5	
400S137-43	0.0451	33	0.323	1.10	0.776	0.388	1.551	0.078	0.491	0.776	0.359	10.66	10.60	2226	1036	0.219	0.257	-0.954	0.591	1.885	0.744	34.3	
400S137-54	0.0566	50	0.401	1.36	0.953	0.477	1.542	0.094	0.484	0.953	0.428	19.27	18.99	4316	1565	0.428	0.311	-0.940	0.583	1.870	0.747	27.7	
400S137-68	0.0713	50	0.497	1.69	1.165	0.582	1.531	0.112	0.475	1.165	0.558	25.10	24.75	6235	1736	0.842	0.375	-0.922	0.574	1.849	0.751	27.6	
400S162-33	0.0346	33	0.275	0.94	0.692	0.346	1.586	0.103	0.611	0.692	0.299	8.88	8.61	1249	761	0.110	0.363	-1.263	0.768	2.118	0.644	42.3	
400S162-43	0.0451	33	0.357	1.21	0.892	0.446	1.581	0.131	0.606	0.892	0.417	12.37	12.13	2226	1036	0.242	0.460	-1.252	0.761	2.106	0.647	42.2	
400S162-54	0.0566	50	0.443	1.51	1.098	0.549	1.574	0.159	0.600	1.098	0.498	22.39	21.64	4316	1565	0.473	0.560	-1.238	0.754	2.090	0.649	34.1	
400S162-68	0.0713	50	0.550	1.87	1.346	0.673	1.564	0.192	0.591	1.346	0.648	29.17	28.60	6235	1736	0.933	0.677	-1.220	0.745	2.069	0.653	34.0	
400S200-33	0.0346	33	0.310	1.05	0.812	0.406	1.619	0.183	0.769	0.798	0.328	9.76	9.79	1249	761	0.124	0.697	-1.688	1.007	2.462	0.530	53.1	
400S200-43	0.0451	33	0.402	1.37	1.047	0.524	1.615	0.235	0.764	1.047	0.478	14.20	13.82	2226	1036	0.272	0.886	-1.676	1.000	2.449	0.532	53.0	
400S200-54	0.0566	50	0.500	1.70	1.292	0.646	1.608	0.287	0.758	1.292	0.549	24.69	24.58	4316	1565	0.534	1.083	-1.662	0.993	2.433	0.534	42.9	
400S200-68	0.0713	50	0.622	2.12	1.589	0.795	1.599	0.349	0.750	1.589	0.751	33.78	32.70	6235	1736	1.054	1.318	-1.643	0.983	2.412	0.536	42.9	
400S300-54	0.0566	50	0.613	2.09	1.732	0.866	1.681	0.760	1.114	1.572	0.592	26.63	27.32	4316	1565	0.655	2.802	-2.594	1.496	3.285	0.377	59.9	
400S300-68	0.0713	50	0.764	2.6																			

Structural (S) Section Properties

Section	Design Thickness (in)	Fy (ksi)	Gross Properties							Effective Properties						Torsional Properties						Lu (in)
			Area (in²)	Weight (lb/ft)	Ix (in⁴)	Sx (in³)	Rx (in)	Iy (in⁴)	Ry (in)	Ixe (in⁴)	Sxe (in³)	Mr-L (in-k)	Mr-D (in-k)	Vrg (lb)	Vrnet (lb)	Jx1000 (in⁴)	Cw (in⁶)	Xo (in)	m (in)	Ro (in)	β	
600S300-68	0.0713	50	0.907	3.09	5.354	1.785	2.430	1.075	1.089	5.064	1.446	65.07	57.53	6848	3685	1.537	7.937	-2.280	1.363	3.505	0.577	59.0
600S300-97	0.1017	50	1.271	4.32	7.381	2.460	2.410	1.454	1.070	7.251	2.247	101.12	91.80	13404	4871	4.381	10.776	-2.241	1.343	3.461	0.581	58.8
600S300-118	0.1242	50	1.531	5.21	8.785	2.928	2.395	1.704	1.055	8.691	2.797	141.64 ²	128.27	16034	4637	7.872	12.683	-2.212	1.328	3.427	0.583	55.3
600S350-54	0.0566	50	0.825	2.81	5.022	1.674	2.467	1.491	1.344	4.659	1.335	60.08	51.90	3613	2493	0.881	12.942	-3.037	1.787	4.137	0.461	74.4
600S350-68	0.0713	50	1.032	3.51	6.237	2.079	2.459	1.841	1.336	6.075	1.771	79.68	70.54	6848	3685	1.748	15.968	-3.018	1.777	4.115	0.462	74.4
600S350-97	0.1017	50	1.449	4.93	8.631	2.877	2.441	2.518	1.318	8.631	2.593	116.69	111.23	13404	4871	4.994	21.811	-2.979	1.757	4.071	0.464	74.4
600S350-118	0.1242	50	1.748	5.95	10.304	3.435	2.428	2.978	1.305	10.304	3.268	162.97 ²	152.82	16034	4637	8.990	25.791	-2.951	1.742	4.038	0.466	70.6
800S137-33 ¹	0.0346	33	0.388	1.32	3.198	0.799	2.873	0.073	0.435	2.972	0.622	18.48	15.21	607	607	0.155	0.957	-0.696	0.460	2.987	0.946	32.5
800S137-43	0.0451	33	0.503	1.71	4.134	1.033	2.866	0.093	0.430	3.981	0.896	26.60	22.39	1345	1345	0.341	1.214	-0.687	0.454	2.978	0.947	32.2
800S137-54	0.0566	50	0.627	2.13	5.110	1.277	2.855	0.112	0.423	4.940	1.083	48.73	40.41	2677	2677	0.670	1.478	-0.676	0.448	2.964	0.948	25.9
800S137-68	0.0713	50	0.782	2.66	6.303	1.576	2.839	0.134	0.414	6.265	1.468	66.08	56.17	5403	4310	1.325	1.789	-0.661	0.440	2.944	0.950	25.6
800S137-97	0.1017	50	1.093	3.72	8.597	2.149	2.805	0.169	0.394	8.597	2.149	96.72	90.72	13933	7600	3.767	2.349	-0.630	0.423	2.902	0.953	25.0
800S162-33 ¹	0.0346	33	0.413	1.41	3.582	0.896	2.943	0.125	0.550	3.361	0.710	21.08	17.90	607	607	0.165	1.630	-0.936	0.607	3.137	0.911	40.1
800S162-43	0.0451	33	0.537	1.83	4.633	1.158	2.937	0.160	0.546	4.483	1.019	30.27	26.02	1345	1345	0.364	2.076	-0.926	0.601	3.128	0.912	39.8
800S162-54	0.0566	50	0.670	2.28	5.736	1.434	2.927	0.194	0.539	5.568	1.229	55.30	46.58	2677	2677	0.715	2.539	-0.914	0.594	3.113	0.914	32.1
800S162-68	0.0713	50	0.836	2.84	7.089	1.772	2.913	0.235	0.530	7.052	1.663	74.85	64.03	5403	4310	1.416	3.093	-0.899	0.586	3.094	0.916	31.9
800S162-97	0.1017	50	1.169	3.98	9.713	2.428	2.883	0.305	0.510	9.713	2.428	109.27	102.11	13933	7600	4.030	4.114	-0.866	0.568	3.053	0.919	31.4
800S162-118	0.1242	50	1.407	4.79	11.504	2.876	2.860	0.345	0.496	11.504	2.876	158.16 ²	149.37	20780	9108	7.234	4.766	-0.842	0.556	3.022	0.922	28.0
800S200-33 ¹	0.0346	33	0.448	1.52	4.096	1.024	3.023	0.227	0.712	4.020	0.816	24.23	20.61	607	607	0.179	2.971	-1.288	0.817	3.363	0.853	50.6
800S200-43	0.0451	33	0.582	1.98	5.302	1.325	3.018	0.292	0.708	5.302	1.293	38.39	29.79	1345	1345	0.395	3.797	-1.277	0.811	3.353	0.855	50.3
800S200-54	0.0566	50	0.726	2.47	6.573	1.643	3.009	0.357	0.701	6.573	1.499	67.44	53.05	2677	2677	0.775	4.663	-1.265	0.804	3.338	0.856	40.7
800S200-68	0.0713	50	0.907	3.09	8.140	2.035	2.996	0.435	0.692	8.140	1.964	98.01 ²	77.65	5403	4310	1.537	5.712	-1.248	0.796	3.319	0.859	38.4
800S200-97	0.1017	50	1.271	4.32	11.203	2.801	2.969	0.576	0.673	11.203	2.801	145.23 ²	127.41	13933	7600	4.381	7.684	-1.214	0.777	3.278	0.863	37.2
800S200-118	0.1242	50	1.531	5.21	13.316	3.329	2.949	0.665	0.659	13.316	3.329	177.28 ²	166.86	20780	9108	7.872	8.981	-1.188	0.764	3.247	0.866	36.5
800S250-43	0.0451	33	0.627	2.13	6.015	1.504	3.097	0.500	0.893	5.979	1.313	39.01	31.31	1345	1345	0.425	6.374	-1.675	1.043	3.632	0.787	61.5
800S250-54	0.0566	50	0.783	2.66	7.465	1.866	3.088	0.614	0.886	7.172	1.525	68.62	55.54	2677	2677	0.836	7.850	-1.661	1.036	3.617	0.789	49.8
800S250-68	0.0713	50	0.978	3.33	9.261	2.315	3.077	0.752	0.877	9.142	2.059	92.66	76.30	5403	4310	1.658	9.652	-1.644	1.027	3.597	0.791	49.6
800S250-97	0.1017	50	1.372	4.67	12.789	3.197	3.053	1.009	0.857	12.789	3.054	154.35 ²	132.61	13933	7600	4.731	13.091	-1.607	1.008	3.555	0.796	46.4
800S250-118	0.1242	50	1.655	5.63	15.242	3.810	3.035	1.175	0.843	15.242	3.707	191.64 ²	174.48	20780	9108	8.511	15.395	-1.580	0.994	3.524	0.799	45.6
800S300-54	0.0566	50	0.839	2.86	8.358	2.090	3.156	0.960	1.069	7.666	1.535	69.08	57.10	2677	2677	0.896	12.076	-2.073	1.271	3.924	0.721	58.6
800S300-68	0.0713	50	1.050	3.57	10.382	2.595	3.145	1.179	1.060	9.843	2.145	96.51	78.74	5403	4310	1.779	14.888	-2.055	1.262	3.903	0.723	58.4
800S300-97	0.1017	50	1.474	5.02	14.375	3.594	3.123	1.595	1.040	14.121	3.304	148.67	127.59	13933	7600	5.082	20.304	-2.017	1.243	3.860	0.727	58.1
800S300-118	0.1242	50	1.779	6.05	17.167	4.292	3.106	1.871	1.025	16.981	4.108	208.03 ²	179.83	20780	9108	9.149	23.979	-1.989	1.229	3.828	0.730	54.5
800S350-54	0.0566	50	0.938	3.19	9.683	2.421	3.212	1.646	1.325	9.028	1.869	84.11	70.61	2677	2677	1.002	22.897	-2.766	1.668	4.441	0.612	73.1
800S350-68	0.0713	50	1.174	4.00	12.046	3.012	3.203	2.034	1.316	11.755	2.596	116.83	96.59	5403	4310	1.990	28.308	-2.748	1.658	4.421	0.614	72.9
800S350-97	0.1017	50	1.652	5.62	16.737	4.184	3.183	2.784	1.298	16.737	3.785	170.35	154.26	13933	7600	5.696	38.834	-2.710	1.639	4.377	0.617	72.7
800S350-118	0.1242	50	1.997	6.79	20.041	5.010	3.168	3.295	1.285	20.041	4.762	237.50 ²	213.45	20780	9108	10.267	46.068	-2.682	1.624	4.345	0.619	68.9
1000S162-43 ¹	0.0451	33	0.627	2.13	8.025	1.605	3.577	0.168	0.518	7.479	1.302	38.68	31.92	1070	1070	0.425	3.430	-0.823	0.545	3.707	0.951	38.8
1000S162-54	0.0566	50	0.783	2.66	9.950	1.990	3.565	0.204	0.511	9.310	1.572	70.74	57.30	2126	2126	0.836	4.198	-0.812	0.538	3.692	0.952	31.3
1000S162-68	0.0713	50	0.978	3.33	12.325	2.465	3.550	0.246	0.502	11.919	2.154	96.95	79.99	4282	4282	1.658	5.121	-0.798	0.531	3.673	0.953	31.0
1000S162-97	0.1017	50	1.372	4.67	16.967	3.393	3.5															

Section	Design Thickness (in)	Fy (ksi)	Gross Properties							Effective Properties						Torsional Properties						Lu (in)
			Area (in²)	Weight (lb/ft)	Ix (in⁴)	Sx (in³)	Rx (in)	Iy (in⁴)	Ry (in)	Ixe (in⁴)	Sxe (in³)	Mr-L (in-k)	Mr-D (in-k)	Vrg (lb)	Vrnet (lb)	Jx1000 (in⁴)	Cw (in⁶)	Xo (in)	m (in)	Ro (in)	β	
1200S250-118	0.1242	50	2.152	7.32	40.726	6.788	4.350	1.307	0.779	40.726	6.541	294.35	253.48	19181	14127	11.065	38.619	-1.305	0.854	4.608	0.920	47.1
1200S300-54¹	0.0566	50	1.066	3.63	21.699	3.617	4.512	1.074	1.004	18.841	2.272	102.26	86.10	1763	1763	1.138	30.051	-1.743	1.111	4.940	0.876	57.4
1200S300-68	0.0713	50	1.335	4.54	27.020	4.503	4.499	1.320	0.994	25.753	3.317	149.27	120.36	3547	3547	2.262	37.126	-1.726	1.103	4.921	0.877	57.2
1200S300-97	0.1017	50	1.881	6.40	37.616	6.269	4.472	1.786	0.974	36.986	5.831	262.38	200.22	10428	9486	6.484	50.853	-1.691	1.085	4.880	0.880	56.7
1200S300-118	0.1242	50	2.276	7.75	45.106	7.518	4.452	2.095	0.959	44.639	7.232	366.23²	286.28	19181	14127	11.704	60.251	-1.666	1.071	4.849	0.882	53.0
1200S350-54¹	0.0566	50	1.165	3.96	24.860	4.143	4.620	1.866	1.266	22.232	2.787	125.44	107.76	1763	1763	1.244	54.279	-2.363	1.478	5.341	0.804	71.4
1200S350-68	0.0713	50	1.460	4.97	30.996	5.166	4.608	2.306	1.257	30.331	4.061	182.75	148.90	3547	3547	2.473	67.251	-2.346	1.469	5.322	0.806	71.2
1200S350-97	0.1017	50	2.059	7.01	43.269	7.211	4.584	3.159	1.239	43.269	6.590	296.56	242.51	10428	9486	7.098	92.672	-2.310	1.450	5.281	0.809	70.8
1200S350-118	0.1242	50	2.494	8.48	51.992	8.665	4.566	3.741	1.225	51.992	8.260	411.92²	339.20	19181	14127	12.821	110.302	-2.284	1.436	5.250	0.811	66.9
1400S162-54¹	0.0566	50	1.009	3.43	23.302	3.329	4.805	0.218	0.464	20.091	2.256	101.51	74.00	1506	1506	1.078	8.980	-0.667	0.454	4.873	0.981	29.7
1400S162-68	0.0713	50	1.263	4.30	28.952	4.136	4.787	0.262	0.456	26.126	3.135	141.06	105.83	3027	3027	2.141	10.966	-0.654	0.447	4.853	0.982	29.4
1400S162-97	0.1017	50	1.779	6.05	40.115	5.731	4.748	0.340	0.437	38.614	4.915	221.15	181.64	8882	8882	6.134	14.651	-0.628	0.433	4.810	0.983	28.7
1400S162-118	0.1242	50	2.152	7.32	47.928	6.847	4.719	0.385	0.423	47.539	6.282	282.67	243.62	16314	14448	11.065	17.032	-0.609	0.422	4.777	0.984	28.1
1400S200-54¹	0.0566	50	1.066	3.63	25.951	3.707	4.935	0.406	0.617	22.812	2.440	109.80	87.54	1506	1506	1.138	16.355	-0.946	0.633	5.062	0.965	38.2
1400S200-68	0.0713	50	1.335	4.54	32.284	4.612	4.918	0.494	0.608	29.513	3.505	157.70	123.64	3027	3027	2.262	20.083	-0.932	0.625	5.043	0.966	37.9
1400S200-97	0.1017	50	1.881	6.40	44.853	6.408	4.883	0.655	0.590	43.370	5.580	251.10	208.63	8882	8882	6.484	27.156	-0.904	0.609	5.001	0.967	37.3
1400S200-118	0.1242	50	2.276	7.75	53.698	7.671	4.857	0.755	0.576	53.313	7.096	319.34	277.69	16314	14448	11.704	31.861	-0.883	0.598	4.970	0.968	36.8
1400S250-54¹	0.0566	50	1.122	3.82	28.702	4.100	5.057	0.707	0.794	24.331	2.527	113.70	94.51	1506	1506	1.198	27.675	-1.272	0.835	5.275	0.942	47.6
1400S250-68	0.0713	50	1.406	4.78	35.743	5.106	5.042	0.865	0.784	32.489	3.550	159.76	133.13	3027	3027	2.383	34.118	-1.257	0.827	5.255	0.943	47.3
1400S250-97	0.1017	50	1.983	6.75	49.764	7.109	5.010	1.160	0.765	48.298	6.010	270.47	224.19	8882	8882	6.835	46.520	-1.225	0.811	5.214	0.945	46.7
1400S250-118	0.1242	50	2.400	8.17	59.676	8.525	4.986	1.352	0.750	59.294	7.881	354.63	298.69	16314	14448	12.342	54.927	-1.203	0.798	5.184	0.946	46.2
1400S300-54¹	0.0566	50	1.179	4.01	31.453	4.493	5.165	1.115	0.972	25.547	2.580	116.11	99.11	1506	1506	1.259	42.690	-1.617	1.046	5.499	0.914	56.8
1400S300-68	0.0713	50	1.477	5.03	39.201	5.600	5.151	1.370	0.963	34.329	3.655	164.46	139.46	3027	3027	2.503	52.772	-1.601	1.038	5.480	0.915	56.5
1400S300-97	0.1017	50	2.084	7.09	54.675	7.811	5.122	1.854	0.943	52.222	6.372	286.75	234.85	8882	8882	7.186	72.365	-1.568	1.020	5.439	0.917	55.9
1400S300-118	0.1242	50	2.525	8.59	65.655	9.379	5.100	2.174	0.928	65.275	8.427	379.19	313.43	16314	14448	12.981	85.812	-1.544	1.008	5.408	0.919	55.5
1400S350-54¹	0.0566	50	1.278	4.35	35.830	5.119	5.295	1.947	1.234	30.913	3.249	146.20	125.27	1506	1506	1.365	76.252	-2.207	1.400	5.868	0.859	70.7
1400S350-68	0.0713	50	1.602	5.45	44.707	6.387	5.283	2.406	1.226	42.936	4.709	211.92	173.87	3027	3027	2.715	94.534	-2.190	1.391	5.848	0.860	70.4
1400S350-97	0.1017	50	2.262	7.70	62.507	8.930	5.257	3.296	1.207	62.507	8.189	368.50	285.68	8882	8882	7.799	130.430	-2.156	1.373	5.808	0.862	70.0
1400S350-118	0.1242	50	2.742	9.33	75.200	10.743	5.237	3.903	1.193	75.200	10.260	511.68²	401.50	16314	14448	14.099	155.387	-2.130	1.360	5.778	0.864	66.1
1600S162-68¹	0.0713	50	1.406	4.78	40.913	5.114	5.394	0.268	0.436	35.574	3.624	163.06	116.22	2640	2640	2.383	14.816	-0.601	0.415	5.445	0.988	28.6
1600S162-97	0.1017	50	1.983	6.75	56.824	7.103	5.354	0.347	0.418	53.195	5.738	258.21	202.71	7736	7736	6.835	19.807	-0.577	0.401	5.401	0.989	27.9
1600S162-118	0.1242	50	2.400	8.17	68.014	8.502	5.323	0.393	0.405	66.030	7.399	332.93	274.99	14192	14192	12.342	23.035	-0.559	0.391	5.368	0.989	27.3
1600S200-68¹	0.0713	50	1.477	5.03	45.291	5.661	5.537	0.506	0.585	40.060	4.045	182.02	136.66	2640	2640	2.503	27.155	-0.862	0.584	5.634	0.977	37.1
1600S200-97	0.1017	50	2.084	7.09	63.050	7.881	5.500	0.670	0.567	59.474	6.500	292.49	234.20	7736	7736	7.186	36.744	-0.835	0.569	5.592	0.978	36.4
1600S200-118	0.1242	50	2.525	8.59	75.601	9.450	5.472	0.773	0.553	73.638	8.331	374.90	314.93	14192	14192	12.981	43.132	-0.815	0.558	5.560	0.979	35.9
1600S250-68¹	0.0713	50	1.549	5.27	49.814	6.227	5.672	0.889	0.758	43.938	4.092	184.14	148.52	2640	2640	2.624	46.230	-1.167	0.778	5.840	0.960	46.5
1600S250-97	0.1017	50	2.186	7.44	69.476	8.685	5.638	1.192	0.738	65.947	6.983	314.22	253.53	7736	7736	7.536	63.082	-1.138	0.762	5.799	0.962	45.9
1600S250-118	0.1242	50	2.649	9.01	83.427	10.428	5.612	1.389	0.724	81.483	9.222	415.00	340.78	14192	14192	13.620	74.524	-1.116	0.750	5.768	0.963	45.4
1600S300-68¹	0.0713	50	1.620	5.51	54.336	6.792	5.792	1.411	0.933	46.266	4.210	189.43	156.91	2640	2640	2.745	71.608	-1.494	0.981	6.054	0.939	55.8
1600S300-97	0.1017	50	2.288	7.78	75.903	9.488	5.760	1.909	0.914	71.018	7.391	332.59	267.32	7736	7736	7.887	98.275	-1.463	0.964	6.013	0.941	55.1
1600S300-118	0.1242	50	2.773	9.44	91.253	11.407	5.737	2.239	0.899	89.326	9.835	442.60	359.48	14192	14192	14.258	116.606	-1.439	0.951	5.982	0.942	54.7
1600S350-68¹	0.0713	50	1.745	5.94	61.622	7.703	5.943	2.490	1.195	55.181	5.180	233.09	197.30	2640	2640	2.957	127.370	-2.055	1.322	6.401	0.897	69.7
1600S350-97	0.1017	50	2.466	8.39	86.270	10.784	5.915	3.410	1.176	82.844	8.382	377.19	326.95	7736	7736	8.501	175.896	-2.022	1.304	6.361	0.899	69.1
1600S350-118	0.1242	50	2.990	10.18	103.892	12.987	5.894	4.038	1.162	101.990	11.305	508.72	432.34	14192	14192	15.376	209.692	-1.998	1.291	6.331	0.900	68.8

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

² Allowable moment includes cold work of forming.

See Table Notes on page 7.

Track (T) Section Properties

Section	Design Thickness (in)	Fy (ksi)	Gross Properties								Effective Properties				Torsional Properties					
			Area (in²)	Weight (lb/ft)	Ix (in⁴)	Sx (in³)	Rx (in)	Iy (in⁴)	Ry (in)	Ixe (in⁴)	Sxe (in³)	Ma (in-k)	Vrg (lb)	Jx1000 (in⁴)	Cw (in⁶)	Xo (in)	m (in)	Ro (in)	β	
162T125-18	0.0188	30	0.077	0.26	0.041	0.047	0.733	0.013	0.411	0.029	0.025	0.76	387	0.009	0.007	-0.878	0.503	1.215	0.478	
162T125-27	0.0283	30	0.117	0.40	0.063	0.072	0.735	0.020	0.410	0.050	0.044	1.31	693	0.031	0.010	-0.872	0.501	1.211	0.482	
162T125-30	0.0312	30	0.129	0.44	0.070	0.079	0.735	0.022	0.409	0.056	0.050	1.50	764	0.042	0.012	-0.870	0.500	1.210	0.483	
162T125-33	0.0346	30	0.143	0.49	0.077	0.087	0.736	0.024	0.408	0.064	0.058	1.73	849	0.057	0.013	-0.868	0.499	1.209	0.484	
250T125-18	0.0188	30	0.094	0.32	0.103	0.079	1.051	0.015	0.400	0.077	0.045	1.35	319	0.011	0.018	-0.769	0.460	1.362	0.681	
250T125-27	0.0283	30	0.141	0.48	0.157	0.119	1.053	0.022	0.398	0.127	0.079	2.34	877	0.038	0.027	-0.763	0.457	1.360	0.685	
250T125-30	0.0312	30	0.156	0.53	0.173	0.131	1.053	0.025	0.397	0.144	0.090	2.66	1065	0.051	0.030	-0.762	0.456	1.359	0.686	
250T125-33	0.0346	30	0.173	0.59	0.192	0.145	1.054	0.027	0.397	0.163	0.103	3.06	1310	0.069	0.033	-0.760	0.456	1.358	0.687	
250T125-43	0.0451	30	0.225	0.77	0.250	0.188	1.055	0.035	0.395	0.228	0.147	4.37	1735	0.153	0.042	-0.755	0.453	1.356	0.690	
250T125-54	0.0566	50	0.282	0.96	0.318	0.236	1.062	0.043	0.392	0.293	0.188	8.48	3281	0.301	0.054	-0.749	0.449	1.357	0.696	
250T125-68	0.0713	50	0.355	1.21	0.408	0.297	1.072	0.054	0.389	0.398	0.262	11.79	4095	0.602	0.069	-0.740	0.444	1.360	0.704	
250T150-27	0.0283	30	0.156	0.53	0.181	0.137	1.078	0.037	0.486	0.137	0.082	2.42	877	0.042	0.044	-0.976	0.575	1.534	0.595	
250T150-30	0.0312	30	0.172	0.58	0.199	0.151	1.078	0.040	0.486	0.155	0.093	2.76	1065	0.056	0.049	-0.975	0.574	1.533	0.595	
250T150-33	0.0346	30	0.190	0.65	0.221	0.167	1.079	0.045	0.485	0.177	0.107	3.17	1310	0.076	0.054	-0.973	0.573	1.532	0.596	
250T150-43	0.0451	30	0.248	0.84	0.289	0.217	1.080	0.058	0.483	0.248	0.154	4.56	1735	0.168	0.070	-0.968	0.570	1.529	0.599	
250T150-54	0.0566	50	0.311	1.06	0.368	0.273	1.088	0.072	0.481	0.319	0.197	8.85	3281	0.332	0.089	-0.961	0.566	1.529	0.605	
250T150-68	0.0713	50	0.391	1.33	0.472	0.344	1.099	0.089	0.478	0.439	0.276	12.43	4095	0.663	0.114	-0.953	0.561	1.531	0.613	
250T200-33	0.0346	30	0.225	0.76	0.280	0.212	1.117	0.097	0.658	0.199	0.112	3.34	1310	0.090	0.118	-1.418	0.813	1.921	0.455	
250T200-43	0.0451	30	0.293	1.00	0.366	0.275	1.118	0.126	0.657	0.282	0.163	4.83	1735	0.198	0.153	-1.413	0.810	1.918	0.457	
250T200-54	0.0566	50	0.367	1.25	0.466	0.346	1.127	0.157	0.654	0.364	0.209	9.40	3281	0.392	0.195	-1.405	0.806	1.917	0.462	
250T200-68	0.0713	50	0.462	1.57	0.600	0.437	1.139	0.196	0.652	0.506	0.296	13.32	4095	0.783	0.251	-1.396	0.800	1.916	0.469	
350T125-18	0.0188	30	0.113	0.38	0.219	0.121	1.394	0.016	0.383	0.166	0.063	1.88	224	0.013	0.038	-0.675	0.418	1.595	0.821	
350T125-27	0.0283	30	0.170	0.58	0.331	0.182	1.396	0.025	0.381	0.275	0.128	3.80	755	0.045	0.057	-0.670	0.416	1.595	0.823	
350T125-30	0.0312	30	0.187	0.64	0.365	0.200	1.396	0.027	0.380	0.310	0.145	4.30	1011	0.061	0.063	-0.669	0.415	1.594	0.824	
350T125-33	0.0346	30	0.207	0.71	0.405	0.222	1.397	0.030	0.379	0.351	0.165	4.91	1310	0.083	0.070	-0.668	0.414	1.594	0.824	
350T125-43	0.0451	30	0.270	0.92	0.528	0.288	1.397	0.038	0.377	0.485	0.233	6.92	2226	0.183	0.090	-0.663	0.412	1.592	0.826	
350T125-54	0.0566	50	0.339	1.15	0.668	0.361	1.404	0.048	0.375	0.620	0.297	13.37	4316	0.362	0.114	-0.658	0.408	1.595	0.830	
350T125-68	0.0713	50	0.427	1.45	0.851	0.454	1.412	0.059	0.372	0.832	0.407	18.31	5806	0.723	0.144	-0.650	0.403	1.599	0.835	
350T150-27	0.0283	30	0.184	0.63	0.377	0.207	1.431	0.041	0.470	0.295	0.132	3.93	755	0.049	0.094	-0.869	0.529	1.739	0.750	
350T150-30	0.0312	30	0.203	0.69	0.416	0.228	1.432	0.045	0.469	0.332	0.150	4.46	1011	0.066	0.103	-0.867	0.528	1.739	0.751	
350T150-33	0.0346	30	0.225	0.76	0.461	0.253	1.432	0.049	0.469	0.377	0.171	5.09	1310	0.090	0.114	-0.866	0.527	1.738	0.752	
350T150-43	0.0451	30	0.293	1.00	0.601	0.328	1.433	0.064	0.467	0.524	0.243	7.21	2226	0.198	0.148	-0.861	0.525	1.736	0.754	
350T150-54	0.0566	50	0.367	1.25	0.761	0.412	1.440	0.079	0.465	0.671	0.310	13.95	4316	0.392	0.187	-0.855	0.521	1.738	0.758	
350T150-68	0.0713	50	0.462	1.57	0.972	0.518	1.450	0.099	0.462	0.909	0.428	19.25	5806	0.783	0.238	-0.847	0.516	1.741	0.763	
350T200-33	0.0346	30	0.259	0.88	0.574	0.315	1.487	0.108	0.647	0.423	0.181	5.37	1310	0.103	0.249	-1.285	0.761	2.069	0.614	
350T200-43	0.0451	30	0.338	1.15	0.749	0.409	1.489	0.140	0.645	0.591	0.257	7.64	2226	0.229	0.323	-1.280	0.758	2.066	0.616	
350T200-54	0.0566	50	0.424	1.44	0.949	0.513	1.496	0.175	0.642	0.758	0.329	14.80	4316	0.453	0.409	-1.273	0.754	2.067	0.621	
350T200-68	0.0713	50	0.534	1.82	1.213	0.647	1.508	0.218	0.639	1.037	0.458	20.61	5806	0.904	0.522	-1.264	0.749	2.069	0.626	
362T125-18	0.0188	30	0.115	0.39	0.237	0.126	1.435	0.017	0.380	0.178	0.065	1.94	216	0.014	0.042	-0.665	0.413	1.627	0.833	
362T125-27	0.0283	30	0.173	0.59	0.358	0.191	1.438	0.025	0.378	0.299	0.135	4.00	728	0.046	0.062	-0.661	0.411	1.627	0.835	
362T125-30	0.0312	30	0.191	0.65	0.395	0.210	1.438	0.027	0.378	0.336	0.152	4.53	976	0.062	0.068	-0.659	0.410	1.626	0.836	
362T125-33	0.0346	30	0.212	0.72	0.438	0.232	1.438	0.030	0.377	0.381	0.174	5.17	1310	0.085	0.076	-0.658	0.409	1.626	0.836	
362T125-43	0.0451	30	0.276	0.94	0.571	0.302	1.439	0.039	0.375	0.526	0.245	7.27	2226	0.187	0.098	-0.654	0.407	1.625	0.838	
362T125-54	0.0566	50	0.346	1.18	0.723	0.378	1.445	0.048	0.373	0.671	0.312	14.04	4316	0.369	0.123	-0.648	0.404	1.627	0.841	
362T125-68	0.0713	50	0.436	1.48	0.921	0.475	1.454	0.060	0.370	0.901	0.427	19.20	6020	0.738	0.156	-0.641	0.399	1.631	0.846	
362T150-27	0.0283	30	0.187	0.64	0.408	0.217	1.475	0.041	0.468	0.320	0.140	4.14	728	0.050	0.102	-0.857	0.524	1.769	0.765	
362T150-30	0.0312	30	0.207	0.70	0.449	0.239	1.475	0.045	0.467	0.360	0.158	4.69	976	0.067	0.112	-0.856	0.523	1.768	0.766	
36																				

Section	Design Thickness (in)	Fy (ksi)	Gross Properties							Effective Properties				Torsional Properties					
			Area (in²)	Weight (lb/ft)	Ix (in⁴)	Sx (in³)	Rx (in)	Iy (in⁴)	Ry (in)	Ixe (in⁴)	Sxe (in³)	Ma (in-k)	Vrg (lb)	Jx1000 (in⁴)	Cw (in⁶)	Xo (in)	m (in)	Ro (in)	β
550T125-27	0.0283	30	0.226	0.77	0.948	0.336	2.046	0.027	0.348	0.745	0.192	5.69	476	0.060	0.160	-0.543	0.352	2.145	0.936
550T125-30	0.0312	30	0.250	0.85	1.045	0.370	2.046	0.030	0.347	0.855	0.226	6.72	638	0.081	0.176	-0.542	0.351	2.145	0.936
550T125-33	0.0346	30	0.277	0.94	1.159	0.410	2.046	0.033	0.346	0.987	0.270	8.01	870	0.110	0.195	-0.541	0.350	2.145	0.936
550T125-43	0.0451	30	0.360	1.23	1.510	0.533	2.047	0.043	0.344	1.406	0.416	12.37	1925	0.244	0.252	-0.537	0.348	2.144	0.937
550T125-54	0.0566	50	0.452	1.54	1.903	0.668	2.052	0.053	0.342	1.789	0.535	24.06	3815	0.483	0.315	-0.532	0.345	2.147	0.939
550T125-68	0.0713	30	0.569	1.94	2.412	0.839	2.058	0.066	0.339	2.368	0.769	34.59	6848	0.965	0.397	-0.526	0.341	2.152	0.940
550T150-27	0.0283	30	0.241	0.82	1.059	0.376	2.098	0.046	0.436	0.847	0.207	6.16	476	0.064	0.263	-0.716	0.456	2.259	0.900
550T150-30	0.0312	30	0.265	0.90	1.168	0.414	2.098	0.050	0.435	0.972	0.251	7.46	638	0.086	0.289	-0.715	0.455	2.259	0.900
550T150-33	0.0346	30	0.294	1.00	1.295	0.459	2.099	0.055	0.434	1.098	0.310	9.20	870	0.117	0.320	-0.714	0.455	2.259	0.900
550T150-43	0.0451	30	0.383	1.30	1.688	0.596	2.099	0.072	0.432	1.504	0.468	13.90	1925	0.260	0.414	-0.709	0.452	2.258	0.901
550T150-54	0.0566	50	0.480	1.63	2.128	0.747	2.105	0.089	0.430	1.914	0.595	26.76	3815	0.513	0.519	-0.704	0.449	2.261	0.903
550T150-68	0.0713	50	0.605	2.06	2.699	0.939	2.112	0.110	0.427	2.551	0.804	36.18	6848	1.025	0.655	-0.698	0.445	2.265	0.905
550T200-33	0.0346	30	0.329	1.12	1.567	0.555	2.184	0.123	0.613	1.215	0.307	9.11	870	0.131	0.694	-1.088	0.674	2.516	0.813
550T200-43	0.0451	30	0.428	1.46	2.043	0.722	2.185	0.160	0.611	1.674	0.495	14.71	1925	0.290	0.900	-1.083	0.671	2.514	0.814
550T200-54	0.0566	50	0.537	1.83	2.578	0.905	2.191	0.199	0.609	2.132	0.630	28.34	3815	0.573	1.133	-1.077	0.668	2.517	0.817
550T200-68	0.0713	50	0.676	2.30	3.274	1.139	2.200	0.248	0.606	2.865	0.857	38.58	6848	1.146	1.434	-1.070	0.663	2.521	0.820
600T125-27¹	0.0283	30	0.241	0.82	1.168	0.381	2.204	0.028	0.340	0.904	0.210	6.25	436	0.064	0.196	-0.519	0.339	2.290	0.949
600T125-30	0.0312	30	0.265	0.90	1.288	0.419	2.204	0.031	0.340	1.039	0.249	7.39	584	0.086	0.215	-0.518	0.338	2.289	0.949
600T125-33	0.0346	30	0.294	1.00	1.428	0.465	2.204	0.034	0.339	1.202	0.297	8.82	797	0.117	0.238	-0.516	0.337	2.289	0.949
600T125-43	0.0451	30	0.383	1.30	1.861	0.604	2.205	0.044	0.337	1.719	0.461	13.70	1763	0.260	0.307	-0.513	0.335	2.288	0.950
600T125-54	0.0566	50	0.480	1.63	2.344	0.756	2.209	0.054	0.335	2.192	0.592	26.66	3492	0.513	0.384	-0.508	0.332	2.291	0.951
600T125-68	0.0713	50	0.605	2.06	2.969	0.950	2.215	0.067	0.332	2.916	0.858	38.62	6848	1.025	0.483	-0.503	0.329	2.296	0.952
600T125-97	0.1017	50	0.862	2.93	4.281	1.347	2.228	0.092	0.326	4.281	1.347	60.62	13933	2.973	0.685	-0.491	0.321	2.305	0.955
600T150-27¹	0.0283	30	0.255	0.87	1.300	0.424	2.260	0.047	0.427	0.949	0.214	6.35	436	0.068	0.320	-0.686	0.441	2.400	0.918
600T150-30	0.0312	30	0.281	0.96	1.434	0.467	2.260	0.051	0.427	1.093	0.253	7.53	584	0.091	0.352	-0.685	0.440	2.400	0.918
600T150-33	0.0346	30	0.311	1.06	1.590	0.517	2.260	0.057	0.426	1.268	0.303	9.00	797	0.124	0.390	-0.684	0.439	2.399	0.919
600T150-43	0.0451	30	0.405	1.38	2.072	0.673	2.261	0.073	0.424	1.827	0.474	14.07	1763	0.275	0.504	-0.680	0.437	2.398	0.920
600T150-54	0.0566	50	0.509	1.73	2.611	0.843	2.266	0.091	0.422	2.331	0.609	27.41	3492	0.543	0.632	-0.675	0.434	2.401	0.921
600T150-68	0.0713	50	0.641	2.18	3.309	1.059	2.273	0.113	0.419	3.133	0.891	40.09	6848	1.086	0.797	-0.669	0.430	2.406	0.923
600T150-97	0.1017	50	0.913	3.11	4.778	1.504	2.288	0.156	0.413	4.778	1.444	64.98	13933	3.148	1.138	-0.656	0.421	2.415	0.926
600T200-33	0.0346	30	0.346	1.18	1.913	0.622	2.352	0.126	0.604	1.498	0.333	9.90	797	0.138	0.847	-1.048	0.655	2.645	0.843
600T200-43	0.0451	30	0.451	1.53	2.494	0.809	2.353	0.163	0.602	2.058	0.565	16.77	1763	0.305	1.098	-1.044	0.652	2.643	0.844
600T200-54	0.0566	50	0.565	1.92	3.145	1.015	2.359	0.203	0.600	2.619	0.717	32.28	3492	0.604	1.381	-1.038	0.649	2.646	0.846
600T200-68	0.0713	50	0.712	2.42	3.990	1.277	2.367	0.254	0.597	3.507	0.973	43.77	6848	1.206	1.746	-1.031	0.644	2.650	0.849
600T200-97	0.1017	50	1.015	3.45	5.773	1.816	2.385	0.354	0.591	5.512	1.568	70.56	13933	3.499	2.510	-1.016	0.635	2.659	0.854
800T125-33¹	0.0346	30	0.363	1.24	2.895	0.711	2.824	0.036	0.313	2.301	0.407	12.07	596	0.145	0.456	-0.439	0.294	2.875	0.977
800T125-43	0.0451	30	0.473	1.61	3.773	0.924	2.824	0.046	0.311	3.343	0.640	19.02	1318	0.321	0.589	-0.436	0.292	2.874	0.977
800T125-54	0.0566	50	0.594	2.02	4.745	1.158	2.827	0.057	0.309	4.262	0.824	37.07	2610	0.634	0.735	-0.432	0.289	2.877	0.977
800T125-68	0.0713	50	0.748	2.54	5.998	1.454	2.833	0.070	0.306	5.832	1.216	54.70	5232	1.267	0.920	-0.427	0.286	2.881	0.978
800T125-97	0.1017	50	1.066	3.63	8.613	2.062	2.843	0.096	0.301	8.613	2.062	92.77	13933	3.674	1.296	-0.417	0.279	2.889	0.979
800T150-33¹	0.0346	30	0.380	1.29	3.180	0.781	2.891	0.060	0.397	2.408	0.414	12.29	596	0.152	0.751	-0.588	0.388	2.977	0.961¹
800T150-43	0.0451	30	0.496	1.69	4.144	1.015	2.891	0.077	0.395	3.519	0.655	19.46	1318	0.336	0.972	-0.584	0.386	2.976	0.961
800T150-54	0.0566	50	0.622	2.12	5.214	1.272	2.896	0.096	0.393	4.492	0.844	37.97	2610	0.664	1.215	-0.580	0.383	2.979	0.962
800T150-68	0.0713	50	0.783	2.67	6.594	1.599	2.902	0.119	0.390	6.194	1.255	56.49	5232	1.327	1.526	-0.575	0.379	2.984	0.963
800T150-97	0.1017	50	1.116	3.80	9.479	2.269	2.914	0.165	0.384	9.479	2.192	98.63	13933	3.849	2.162	-0.564	0.372	2.993	0.965
800T200-33¹	0.0346	30	0.415	1.41	3.749	0.921	3.005	0.135	0.571	2.589	0.424	12.58	596	0.166	1.638	-0.917	0.589	3.194	0.918
800T200-43	0.0451	30	0.541	1.84	4.887	1.197	3.006	0.175	0.569	3.821	0.676	20.07	1318	0.367	2.124	-0.913	0.587	3.193	0.918
800T200-54	0.0566	50	0.679	2.31	6.152	1.501	3.011	0.218	0.567	4.885	0.871	39.22	2610	0.725	2.664	-0.908	0.584	3.196	0.919
800T200-68	0.0713	50	0.854	2.91	7.786	1.888	3.019	0.27											

Track (T) Section Properties

Section	Design Thickness (in)	Fy (ksi)	Gross Properties							Effective Properties				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)	M _a (in-k)	V _{rg} (lb)	J _x 1000 (in ⁴)	C _w (in ⁶)	X _o (in)	m (in)	R _o (in)	β
1200T125-54 ¹	0.0566	50	0.820	2.79	13.335	2.186	4.033	0.060	0.271	10.826	1.286	57.88	1734	0.876	1.820	-0.333	0.230	4.055	0.993
1200T125-68	0.0713	50	1.033	3.51	16.826	2.747	4.036	0.074	0.268	15.107	1.934	87.02	3472	1.750	2.270	-0.329	0.227	4.059	0.993
1200T125-97	0.1017	50	1.472	5.01	24.078	3.897	4.044	0.102	0.263	23.569	3.442	154.90	10115	5.076	3.171	-0.322	0.222	4.065	0.994
1200T150-54 ¹	0.0566	50	0.848	2.89	14.378	2.357	4.117	0.103	0.348	11.285	1.313	59.09	1734	0.906	3.033	-0.454	0.310	4.156	0.988
1200T150-68	0.0713	50	1.068	3.64	18.148	2.963	4.121	0.127	0.345	15.851	1.987	89.40	3472	1.810	3.795	-0.450	0.307	4.160	0.988
1200T150-97	0.1017	50	1.523	5.18	25.987	4.206	4.130	0.176	0.340	25.482	3.616	162.72	10115	5.252	5.335	-0.441	0.301	4.168	0.989
1200T200-54 ¹	0.0566	50	0.905	3.08	16.464	2.699	4.265	0.236	0.510	12.057	1.350	60.74	1734	0.966	6.714	-0.730	0.487	4.357	0.972
1200T200-68	0.0713	50	1.140	3.88	20.791	3.395	4.271	0.294	0.508	17.085	2.058	92.62	3472	1.931	8.431	-0.725	0.483	4.362	0.972
1200T200-97	0.1017	50	1.625	5.53	29.805	4.824	4.283	0.410	0.502	28.204	3.819	171.86	10115	5.602	11.945	-0.714	0.476	4.371	0.973
1400T125-54 ¹	0.0566	50	0.933	3.18	19.977	2.814	4.627	0.061	0.256	15.383	1.517	68.27	1485	0.997	2.559	-0.299	0.209	4.643	0.996
1400T125-68	0.0713	50	1.175	4.00	25.196	3.536	4.630	0.076	0.254	21.629	2.293	103.17	2972	1.992	3.189	-0.296	0.206	4.646	0.996
1400T125-97	0.1017	50	1.676	5.70	36.024	5.019	4.636	0.104	0.249	34.186	4.134	186.02	8654	5.778	4.445	-0.289	0.201	4.652	0.996
1400T150-54 ¹	0.0566	50	0.962	3.27	21.392	3.013	4.717	0.105	0.330	15.980	1.547	69.63	1485	1.027	4.280	-0.410	0.283	4.746	0.993
1400T150-68	0.0713	50	1.211	4.12	26.987	3.788	4.721	0.130	0.327	22.607	2.352	105.84	2972	2.052	5.349	-0.407	0.280	4.749	0.993
1400T150-97	0.1017	50	1.727	5.88	38.607	5.379	4.729	0.180	0.322	36.784	4.332	194.92	8654	5.953	7.503	-0.399	0.275	4.756	0.993
1400T200-54 ¹	0.0566	50	1.018	3.46	24.221	3.412	4.878	0.242	0.487	16.976	1.589	71.49	1485	1.087	9.520	-0.665	0.449	4.947	0.982
1400T200-68	0.0713	50	1.282	4.36	30.571	4.291	4.883	0.301	0.485	24.212	2.432	109.44	2972	2.173	11.942	-0.661	0.446	4.951	0.982
1400T200-97	0.1017	50	1.828	6.22	43.773	6.098	4.893	0.420	0.479	40.405	4.559	205.14	8654	6.304	16.883	-0.651	0.439	4.959	0.983
1600T125-68 ¹	0.0713	50	1.318	4.48	35.916	4.421	5.220	0.077	0.241	29.461	2.651	119.30	2598	2.233	4.273	-0.268	0.189	5.233	0.997
1600T125-97	0.1017	50	1.879	6.39	51.322	6.276	5.226	0.105	0.237	47.086	4.825	217.14	7562	6.479	5.945	-0.262	0.184	5.238	0.997
1600T150-68 ¹	0.0713	50	1.354	4.61	38.249	4.708	5.316	0.132	0.312	30.703	2.717	122.26	2598	2.294	7.188	-0.371	0.258	5.338	0.995
1600T150-97	0.1017	50	1.930	6.57	54.681	6.686	5.323	0.182	0.307	50.484	5.047	227.12	7562	6.654	10.066	-0.363	0.253	5.344	0.995
1600T200-68 ¹	0.0713	50	1.425	4.85	42.914	5.282	5.488	0.307	0.464	32.717	2.805	126.24	2598	2.415	16.123	-0.607	0.414	5.541	0.988
1600T200-97	0.1017	50	2.032	6.91	61.398	7.508	5.497	0.428	0.459	55.124	5.298	238.41	7562	7.005	22.755	-0.598	0.408	5.549	0.988

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

See Table Notes on page 7.

Table Notes

1. Listed pressures are nominal (unfactored). A load factor of 1.4 has been applied for strength checks.
2. Lateral loads have not been modified for deflection determination.
3. Flexural strength taken as the minimum of local buckling and distortional buckling allowable moments.
4. For distortional buckling moment, $K\phi = 0$.
5. Limiting heights based on continuous support of each flange over the full length of the stud.
6. Limiting heights are based on steel properties only (non-composite).
7. Web crippling check based on 1" end bearing. Where listed limiting heights are followed by "e", web stiffeners are required.
8. Shear and web crippling capacity have not been reduced for punchouts.
9. See page 5 for additional table notes.

Section	F _y (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	9' 4"	7' 7"	6' 7"	7' 7"	6' 7"	5' 9"	6' 7"	6' 0"	5' 3"
		16	8' 1"	6' 10"	6' 0"	6' 7"	6' 0"	5' 3"	5' 9"	5' 5"	4' 9"
		24	6' 7"	6' 0"	5' 3"	5' 5"	5' 3"	4' 7"	4' 8"	4' 8"	4' 2"
162S125-27	33	12	11' 2"	8' 10"	7' 9"	9' 9"	7' 9"	6' 9"	8' 8"	7' 0"	6' 2"
		16	10' 2"	8' 1"	7' 0"	8' 8"	7' 0"	6' 2"	7' 6"	6' 5"	5' 7"
		24	8' 8"	7' 0"	6' 2"	7' 1"	6' 2"	5' 4"	6' 1"	5' 7"	4' 11"
162S125-30	33	12	11' 7"	9' 3"	8' 1"	10' 2"	8' 1"	7' 0"	9' 3"	7' 4"	6' 5"
		16	10' 7"	8' 4"	7' 4"	9' 3"	7' 4"	6' 5"	8' 0"	6' 8"	5' 10"
		24	9' 3"	7' 4"	6' 5"	7' 6"	6' 5"	5' 7"	6' 6"	5' 10"	5' 1"
162S125-33	33	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' 7"	6' 10"	6' 0"
		24	9' 6"	7' 7"	6' 7"	8' 1"	6' 7"	5' 9"	7' 0"	6' 0"	5' 3"
250S125-18	33	12	11' 9"	10' 6"	9' 2"	9' 7"	9' 2"	8' 0"	8' 4"	8' 4"	7' 3"
		16	10' 2"	9' 6"	8' 4"	8' 4"	8' 4"	7' 3"	7' 3"	7' 3"	6' 7"
		24	8' 4"	8' 4"	7' 3"	6' 10"e	6' 10"e	6' 4"	5' 11"e	5' 11"e	5' 9"e
250S125-27	33	12	15' 6"	12' 3"	10' 9"	12' 10"	10' 9"	9' 4"	11' 1"	9' 9"	8' 6"
		16	13' 7"	11' 2"	9' 9"	11' 1"	9' 9"	8' 6"	9' 7"	8' 10"	7' 9"
		24	11' 1"	9' 9"	8' 6"	9' 1"	8' 6"	7' 5"	7' 10"	7' 9"	6' 9"
250S125-30	33	12	16' 1"	12' 9"	11' 2"	13' 9"	11' 2"	9' 9"	11' 11"	10' 1"	8' 10"
		16	14' 7"	11' 7"	10' 1"	11' 11"	10' 1"	8' 10"	10' 3"	9' 2"	8' 0"
		24	11' 11"	10' 1"	8' 10"	9' 8"	8' 10"	7' 9"	8' 5"	8' 0"	7' 0"
250S125-33	33	12	16' 7"	13' 2"	11' 6"	14' 6"	11' 6"	10' 1"	12' 9"	10' 6"	9' 2"
		16	15' 1"	12' 0"	10' 6"	12' 9"	10' 6"	9' 2"	11' 1"	9' 6"	8' 4"
		24	12' 9"	10' 6"	9' 2"	10' 5"	9' 2"	8' 0"	9' 0"	8' 4"	7' 3"
250S125-43	33	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' 5"	9' 11"	8' 8"	10' 9"	9' 0"	7' 11"
350S125-18	33	12	14' 1"	13' 8"	11' 11"	11' 6"	11' 6"	10' 5"	10' 0"e	10' 0"e	9' 5"e
		16	12' 2"	12' 2"	10' 10"	10' 0"e	10' 0"e	9' 5"e	8' 7"e	8' 7"e	8' 7"e
		24	10' 0"e	10' 0"e	9' 5"e	8' 2"e	8' 2"e	8' 2"e	7' 0"e	7' 0"e	7' 0"e
350S125-27	33	12	18' 11"	15' 11"	13' 11"	15' 5"	13' 11"	12' 2"	13' 5"	12' 8"	11' 0"
		16	16' 5"	14' 5"	12' 8"	13' 5"	12' 8"	11' 0"	11' 7"	11' 6"	10' 0"
		24	13' 5"	12' 8"	11' 0"	10' 11"	10' 11"	9' 8"	9' 6"	9' 6"	8' 9"
350S125-30	33	12	20' 3"	16' 6"	14' 5"	16' 7"	14' 5"	12' 7"	14' 4"	13' 1"	11' 5"
		16	17' 7"	15' 0"	13' 1"	14' 4"	13' 1"	11' 5"	12' 5"	11' 11"	10' 5"
		24	14' 4"	13' 1"	11' 5"	11' 9"	11' 5"	10' 0"	10' 2"	10' 2"	9' 1"
350S125-33	33	12	21' 7"	17' 1"	14' 11"	17' 10"	14' 11"	13' 1"	15' 5"	13' 7"	11' 10"
		16	18' 11"	15' 6"	13' 7"	15' 5"	13' 7"	11' 10"	13' 4"	12' 4"	10' 9"
		24	15' 5"	13' 7"	11' 10"	12' 7"	11' 10"	10' 4"	10' 11"	10' 9"	9' 5"
350S125-43	33	12	23' 6"	18' 7"	16' 3"	20' 6"	16' 3"	14' 3"	18' 7"	14' 9"	12' 11"
		16	21' 4"	16' 11"	14' 9"	18' 7"	14' 9"	12' 11"	16' 1"	13' 5"	11' 9"
		24	18' 7"	14' 9"	12' 11"	15' 2"	12' 11"	11' 3"	13' 2"	11' 9"	10' 3"
350S125-54	50	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	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	12	14' 4"	14' 0"	12' 3"	11' 9"	11' 9"	10' 8"	10' 2"e	10' 2"e	9' 9"e
		16	12' 5"	12' 5"	11' 1"	10' 2"e	10' 2"e	9' 9"e	8' 9"e	8' 9"e	8' 9"e
		24	10' 2"e	10' 2"e	9' 9"e	8' 3"e	8' 3"e	8' 3"e	7' 2"e	7' 2"e	7' 2"e
362S125-27	33	12	19' 3"	16' 4"	14' 3"	15' 9"	14' 3"	12' 6"	13' 8"	13' 0"	11' 4"
		16	16' 8"	14' 10"	13' 0"	13' 8"	13' 0"	11' 4"	11' 10"	11' 10"	10' 4"
		24	13' 8"	13' 0"	11' 4"	11' 2"	11' 2"	9' 11"	9' 8"	9' 8"	9' 0"
362S125-30	33	12	20' 8"	17' 0"	14' 10"	16' 11"	14' 10"	13' 0"	14' 8"	13' 6"	11' 9"
		16	17' 11"	15' 5"	13' 6"	14' 8"	13' 6"	11' 9"	12' 8"	12' 3"	10' 8"
		24	14' 8"	13' 6"	11' 9"	11' 11"	11' 9"	10' 3"	10' 4"	10' 4"	9' 4"
362S125-33	33	12	22' 2"	17' 7"	15' 4"	18' 2"	15' 4"	13' 5"	15' 9"	13' 11"	12' 2"
		16	19' 3"	16' 0"	13' 11"	15' 9"	13' 11"	12' 2"	13' 8"	12' 8"	11' 1"
		24	15' 9"	13' 11"	12' 2"	12' 10"	12' 2"	10' 8"	11' 2"	11' 1"	9' 8"
362S125-43	33	12	24' 1"	19' 2"	16' 9"	21' 1"	16' 9"	14' 7"	19' 0"	15' 2"	13' 3"
		16	21' 11"	17' 5"	15' 2"	19' 0"	15' 2"	13' 3"	16' 5"	13' 10"	12' 1"
		24	19' 0"	15' 2"	13' 3"	15' 6"	13' 3"	11' 7"	13' 5"	12' 1"	10' 6"

"e" web stiffeners required at ends.

Interior Wall Limiting Heights - Non-Composite

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
362S125-54	50	12	25' 10"	20' 6"	17' 11"	22' 6"	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	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	33	12	15' 1'e	15' 1'e	13' 3'e	12' 4'e	12' 4'e	11' 7'e	10' 8'e	10' 8'e	10' 6'e
		16	13' 1'e	13' 1'e	12' 0'e	10' 8'e	10' 8'e	10' 6'e	9' 3'e	9' 3'e	9' 3'e
		24	10' 8'e	10' 8'e	10' 6'e	8' 9'e	8' 9'e	8' 9'e	7' 7'e	7' 7'e	7' 7'e
400S125-27	33	12	20' 4"	17' 8"	15' 5"	16' 7"	15' 5"	13' 6"	14' 5"	14' 0"	12' 3"
		16	17' 8"	16' 1"	14' 0"	14' 5"	14' 0"	12' 3"	12' 6"	12' 6"	11' 2"
		24	14' 5"	14' 0"	12' 3"	11' 9"	11' 9"	10' 8"	10' 2"	10' 2"	9' 9"
400S125-30	33	12	21' 10"	18' 4"	16' 0"	17' 10"	16' 0"	14' 0"	15' 5"	14' 7"	12' 9"
		16	18' 11"	16' 8"	14' 7"	15' 5"	14' 7"	12' 9"	13' 5"	13' 3"	11' 7"
		24	15' 5"	14' 7"	12' 9"	12' 7"	12' 7"	11' 1"	10' 11"	10' 11"	10' 1"
400S125-33	33	12	23' 7"	19' 0"	16' 7"	19' 3"	16' 7"	14' 6"	16' 8"	15' 1"	13' 2"
		16	20' 5"	17' 3"	15' 1"	16' 8"	15' 1"	13' 2"	14' 5"	13' 8"	12' 0"
		24	16' 8"	15' 1"	13' 2"	13' 7"	13' 2"	11' 6"	11' 9"	11' 9"	10' 5"
400S125-43	33	12	26' 1"	20' 8"	18' 1"	22' 9"	18' 1"	15' 9"	20' 1"	16' 5"	14' 4"
		16	23' 8"	18' 10"	16' 5"	20' 1"	16' 5"	14' 4"	17' 5"	14' 11"	13' 0"
		24	20' 1"	16' 5"	14' 4"	16' 5"	14' 4"	12' 6"	14' 3"	13' 0"	11' 5"
400S125-54	50	12	27' 11"	22' 2"	19' 4"	24' 4"	19' 4"	16' 11"	22' 2"	17' 7"	15' 4"
		16	25' 4"	20' 1"	17' 7"	22' 2"	17' 7"	15' 4"	20' 1"	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	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	33	12	24' 0"	22' 6"	19' 7"	19' 7"	19' 7"	17' 2"	17' 0"	17' 0"	15' 7"
		16	20' 10"	20' 5"	17' 10"	17' 0"	17' 0"	15' 7"	14' 8'e	14' 8'e	14' 2"
		24	17' 0"	17' 0"	15' 7"	13' 10'e	13' 10'e	13' 7'e	12' 0'e	12' 0'e	12' 0'e
550S125-30	33	12	25' 10"	23' 5"	20' 6"	21' 1"	20' 6"	17' 10"	18' 3"	18' 3"	16' 3"
		16	22' 5"	21' 3"	18' 7"	18' 3"	18' 3"	16' 3"	15' 10"	15' 10"	14' 9"
		24	18' 3"	18' 3"	16' 3"	14' 11"	14' 11"	14' 2"	12' 11'e	12' 11'e	12' 11'e
550S125-33	33	12	28' 0"	24' 4"	21' 3"	22' 10"	21' 3"	18' 7"	19' 9"	19' 4"	16' 11"
		16	24' 3"	22' 1"	19' 4"	19' 9"	19' 4"	16' 11"	17' 1"	17' 1"	15' 4"
		24	19' 9"	19' 4"	16' 11"	16' 2"	16' 2"	14' 9"	14' 0"	14' 0"	13' 5"
550S125-43	33	12	33' 8"	26' 9"	23' 4"	27' 10"	23' 4"	20' 5"	24' 2"	21' 2"	18' 6"
		16	29' 7"	24' 3"	21' 2"	24' 2"	21' 2"	18' 6"	20' 11"	19' 3"	16' 10"
		24	24' 2"	21' 2"	18' 6"	19' 8"	18' 6"	16' 2"	17' 1"	16' 10"	14' 8"
550S125-54	50	12	36' 1"	28' 8"	25' 0"	31' 6"	25' 0"	21' 10"	28' 8"	22' 9"	19' 10"
		16	32' 9"	26' 0"	22' 9"	28' 8"	22' 9"	19' 10"	26' 0"	20' 8"	18' 0"
		24	28' 8"	22' 9"	19' 10"	25' 0"	19' 10"	17' 4"	22' 9"	18' 0"	15' 9"
550S125-68	50	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	33	12	25' 0'e	24' 0'e	20' 11'e	20' 5'e	20' 5'e	18' 4'e	17' 8'e	17' 8'e	16' 8'e
		16	21' 8'e	21' 8'e	19' 0'e	17' 8'e	17' 8'e	16' 8'e	15' 4'e	15' 4'e	15' 1'e
		24	17' 8'e	17' 8'e	16' 8'e	14' 5'e	14' 5'e	14' 5'e	12' 6'e	12' 6'e	12' 6'e
600S125-30	33	12	27' 0"	25' 0"	21' 10"	22' 0"	21' 10"	19' 1"	19' 1"	19' 1"	17' 4"
		16	23' 4"	22' 9"	19' 10"	19' 1"	19' 1"	17' 4"	16' 6"	16' 6"	15' 9"
		24	19' 1"	19' 1"	17' 4"	15' 7'e	15' 7'e	15' 2"	13' 6'e	13' 6'e	13' 6'e
600S125-33	33	12	29' 3"	26' 0"	22' 9"	23' 10"	22' 9"	19' 10"	20' 8"	20' 8"	18' 1"
		16	25' 4"	23' 8"	20' 8"	20' 8"	20' 8"	18' 1"	17' 11"	17' 11"	16' 5"
		24	20' 8"	20' 8"	18' 1"	16' 10"	16' 10"	15' 9"	14' 7'e	14' 7'e	14' 4"
600S125-43	33	12	35' 9"	28' 8"	25' 0"	29' 2"	25' 0"	21' 10"	25' 3"	22' 9"	19' 10"
		16	31' 0"	26' 0"	22' 9"	25' 3"	22' 9"	19' 10"	21' 11"	20' 8"	18' 1"
		24	25' 3"	22' 9"	19' 10"	20' 8"	19' 10"	17' 4"	17' 11"	17' 11"	15' 9"
600S125-54	50	12	38' 9"	30' 9"	26' 10"	33' 10"	26' 10"	23' 6"	30' 9"	24' 5"	21' 4"
		16	35' 2"	27' 11"	24' 5"	30' 9"	24' 5"	21' 4"	27' 11"	22' 2"	19' 4"
		24	30' 9"	24' 5"	21' 4"	26' 10"	21' 4"	18' 7"	24' 3"	19' 4"	16' 11"
600S125-68	50	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' 9"	26' 2"	20' 9"	18' 2"
800S125-43	33	12	41' 2"	35' 11"	31' 4"	33' 8"	31' 4"	27' 5"	29' 2"	28' 6"	24' 11"
		16	35' 8"	32' 8"	28' 6"	29' 2"	28' 6"	24' 11"	25' 3"	25' 3"	22' 7"
		24	29' 2"	28' 6"	24' 11"	23' 9"	23' 9"	21' 9"	20' 7"	20' 7"	19' 9"
800S125-54	50	12	48' 7"	38' 7"	33' 8"	42' 6"	33' 8"	29' 5"	38' 7"	30' 8"	26' 9"
		16	44' 2"	35' 1"	30' 8"	38' 7"	30' 8"	26' 9"	34' 3"	27' 10"	24' 4"
		24	38' 7"	30' 8"	26' 9"	32' 4"	26' 9"	23' 4"	28' 0"	24' 4"	21' 3"
800S125-68	50	12	52' 9"	41' 11"	36' 7"	46' 1"	36' 7"	32' 0"	41' 11"	33' 3"	29' 1"
		16	47' 11"	38' 1"	33' 3"	41' 11"	33' 3"	29' 1"	38' 1"	30' 2"	26' 5"
		24	41' 11"	33' 3"	29' 1"	36' 7"	29' 1"	25' 4"	33' 3"	26' 5"	23' 1"

"e" web stiffeners required at ends.

See Table Notes on page 14.

Table Notes

- Listed pressures are nominal (unfactored). A load factor of 1.4 has been applied for strength checks.
- Lateral loads > 5 psf have been multiplied by 0.75 for deflection determination.
- Flexural strength taken as the minimum of local buckling and distortional buckling allowable moments.
- For distortional buckling moment, $K\phi = 0$.
- Limiting heights based on continuous support of each flange over the full length of the stud.
- Limiting heights are based on steel properties only (non-composite).
- Web crippling check based on 1" end bearing. Where listed limiting heights are followed by "e", web stiffeners are required.
- Shear and web crippling capacity have not been reduced for punchouts.
- See page 5 for additional table notes.

Section	Fy Spacing (ksi) (in) o.c.	5 psf			15 psf			20 psf			25 psf			30 psf			35 psf			40 psf			50 psf		
		L/120	L/240	L/360	L/240	L/360	L/600	L/240	L/360	L/600	L/240	L/360	L/600	L/240	L/360	L/600	L/240	L/360	L/600	L/240	L/360	L/600	L/240	L/360	L/600
350S162-33	12	23' 9"	18' 10"	16' 5"	14' 4"	12' 7"	10' 7"	13' 1"	11' 5"	9' 7"	11' 11"	10' 7"	8' 11"	10' 10"	9' 11"	8' 5"	10' 0"	9' 6"	8' 0"	9' 5"	9' 1"	7' 8"	8' 5"	8' 5"	7' 1"
	16	21' 7"	17' 1"	14' 11"	13' 1"	11' 5"	9' 7"	11' 6"	10' 4"	8' 9"	10' 3"	9' 7"	8' 1"	9' 5"	9' 1"	7' 8"	8' 8"	8' 7"	7' 3"	8' 2"	8' 2"	6' 11"	7' 3"	7' 3"	6' 5"
	24	18' 9"	14' 11"	13' 1"	10' 10"	9' 11"	8' 5"	9' 5"	9' 1"	7' 8"	8' 5"	8' 5"	7' 1"	7' 8"	7' 8"	6' 8"	7' 1"	7' 1"	6' 4"	6' 8"	6' 8"	6' 1"	5' 11"	5' 11"	5' 7"
350S162-43	12	25' 10"	20' 6"	17' 11"	15' 7"	13' 8"	11' 6"	14' 2"	12' 5"	10' 6"	13' 2"	11' 6"	9' 9"	12' 5"	10' 10"	9' 2"	11' 9"	10' 3"	8' 8"	11' 1"	9' 10"	8' 4"	9' 11"	9' 2"	7' 8"
	16	23' 5"	18' 7"	16' 3"	14' 2"	12' 5"	10' 6"	12' 11"	11' 3"	9' 6"	12' 0"	10' 6"	8' 10"	11' 1"	9' 10"	8' 4"	10' 4"	9' 4"	7' 11"	9' 8"	8' 11"	7' 7"	8' 7"	8' 4"	7' 0"
	24	20' 6"	16' 3"	14' 2"	12' 5"	10' 10"	9' 2"	11' 1"	9' 10"	8' 4"	9' 11"	9' 2"	7' 8"	9' 1"	8' 7"	7' 3"	8' 5"	8' 2"	6' 11"	7' 10"	7' 10"	6' 7"	7' 0"	7' 0"	6' 1"
350S162-54	12	27' 8"	21' 11"	19' 2"	16' 9"	14' 7"	12' 4"	15' 2"	13' 3"	11' 2"	14' 1"	12' 4"	10' 5"	13' 3"	11' 7"	9' 9"	12' 7"	11' 0"	9' 4"	12' 1"	10' 7"	8' 11"	11' 2"	9' 9"	8' 3"
	16	25' 1"	19' 11"	17' 5"	15' 2"	13' 3"	11' 2"	13' 10"	12' 1"	10' 2"	12' 10"	11' 2"	9' 5"	12' 1"	10' 7"	8' 11"	11' 6"	10' 0"	8' 5"	11' 0"	9' 7"	8' 1"	10' 2"	8' 11"	7' 6"
	24	21' 11"	17' 5"	15' 2"	13' 3"	11' 7"	9' 9"	12' 1"	10' 7"	8' 11"	11' 2"	9' 9"	8' 3"	10' 7"	9' 3"	7' 9"	10' 0"	8' 9"	7' 5"	9' 7"	8' 4"	7' 1"	8' 11"	7' 9"	6' 7"
350S16																									

Curtain Wall Limiting Heights - Single Span

Section	Fy	Spacing (ksi) (in) o.c.	5 psf			15 psf			20 psf			25 psf			30 psf			35 psf			40 psf			50 psf		
			L/120	L/240	L/360	L/240	L/360	L/600	L/240	L/360	L/600	L/240	L/360	L/600	L/240	L/360	L/600	L/240	L/360	L/600	L/240	L/360	L/600	L/240	L/360	L/600
400S200-33	33	12	27' 7"	21' 10"	19' 1"	16' 8"	14' 7"	12' 4"	15' 2"	13' 3"	11' 2"	13' 8"	12' 4"	10' 4"	12' 5"	11' 7"	9' 9"	11' 6"	11' 0"	9' 3"	10' 9"	10' 6"	8' 10"	9' 8"	9' 8"	8' 3"
		16	25' 0"	19' 10"	17' 4"	15' 2"	13' 3"	11' 2"	13' 2"	12' 0"	10' 2"	11' 10"	11' 2"	9' 5"	10' 9"	10' 6"	8' 10"	10' 0"	10' 0"	8' 5"	9' 4"	9' 4"	8' 1"	8' 4"	8' 4"	7' 6"
		24	21' 7"	17' 4"	15' 2"	12' 5"	11' 7"	9' 9"	10' 9"	10' 6"	8' 10"	9' 8"	9' 8"	8' 3"	8' 10"	8' 10"	7' 9"	8' 2"	8' 2"	7' 4"	7' 7"	7' 7"	7' 0"	6' 10"	6' 10"	6' 6"
400S137-43	33	12	27' 4"	21' 8"	18' 11"	16' 6"	14' 5"	12' 2"	15' 0"	13' 2"	11' 1"	13' 11"	12' 2"	10' 3"	13' 0"	11' 6"	9' 8"	12' 0"	10' 11"	9' 2"	11' 3"	10' 5"	8' 9"	10' 1"	9' 8"	8' 2"
		16	24' 10"	19' 8"	17' 2"	15' 0"	13' 2"	11' 1"	13' 8"	11' 11"	10' 1"	12' 4"	11' 1"	9' 4"	11' 3"	10' 5"	8' 9"	10' 5"	9' 11"	8' 4"	9' 9"	9' 6"	8' 0"	8' 8"	8' 8"	7' 5"
		24	21' 8"	17' 2"	15' 0"	13' 0"	11' 6"	9' 8"	11' 3"	10' 5"	8' 9"	10' 1"	9' 8"	8' 2"	9' 2"	9' 1"	7' 8"	8' 6"	8' 6"	7' 3"	7' 11"	7' 11"	7' 0"	7' 1"	7' 1"	6' 6"
400S162-43	33	12	28' 7"	22' 8"	19' 10"	17' 4"	15' 2"	12' 9"	15' 9"	13' 9"	11' 7"	14' 7"	12' 9"	10' 9"	13' 9"	12' 0"	10' 2"	12' 10"	11' 5"	9' 7"	12' 0"	10' 11"	9' 2"	10' 9"	10' 2"	8' 7"
		16	26' 0"	20' 7"	18' 0"	15' 9"	13' 9"	11' 7"	14' 4"	12' 6"	10' 6"	13' 2"	11' 7"	9' 9"	12' 0"	10' 11"	9' 2"	11' 1"	10' 4"	8' 9"	10' 5"	9' 11"	8' 4"	9' 4"	9' 2"	7' 9"
		24	22' 8"	18' 0"	15' 9"	13' 9"	12' 0"	10' 2"	12' 0"	10' 11"	9' 2"	10' 9"	10' 2"	8' 7"	9' 10"	9' 6"	8' 0"	9' 1"	9' 1"	7' 8"	8' 6"	8' 6"	7' 4"	7' 7"	7' 7"	6' 9"
400S200-43	33	12	30' 2"	23' 11"	20' 11"	18' 3"	16' 0"	13' 6"	16' 7"	14' 6"	12' 3"	15' 5"	13' 6"	11' 4"	14' 6"	12' 8"	10' 8"	13' 9"	12' 0"	10' 2"	12' 10"	11' 6"	9' 9"	11' 6"	10'	

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

Table Notes

1. Listed Dead and Live loads are nominal (unfactored). A DL load factor of 1.25 and LL load factor of 1.5 have been applied for strength checks.
2. Listed loads have not been modified for deflection calculations.
3. Spans are based on continuous support of each flange over the full length of the joist.
4. For two, equal spans listed span is the distance from either end to the center support, with the joist continuous over the center support.
5. Joists must be braced against rotation at all supports.
6. End shear and web crippling capacity have not been reduced for punchouts.
7. End web crippling check based on 3.5 inch end bearing. Where listed allowable spans are followed by "e", web stiffeners are required at ends.
8. Mid-Span supports not checked for web crippling. Web stiffeners required at mid-span supports.
9. Shear capacity at mid-span support has been reduced for the presence of punchouts adjacent to the support.
10. Total load deflection limited to $L/240$. Live load deflection limit as noted.
11. Alternate span live loading has been considered for two, equal span condition.
12. For distortional buckling moment, $K\phi = 0$.
13. Vibration has not been considered. Where required, the designer must do a separate vibration analysis.
14. Listed spans are based on uniform loads only. Where concentrated loads are required by code, the designer must do a separate analysis.
15. See page 5 for additional table notes.

Floor Joist Bridging and Bracing Requirements

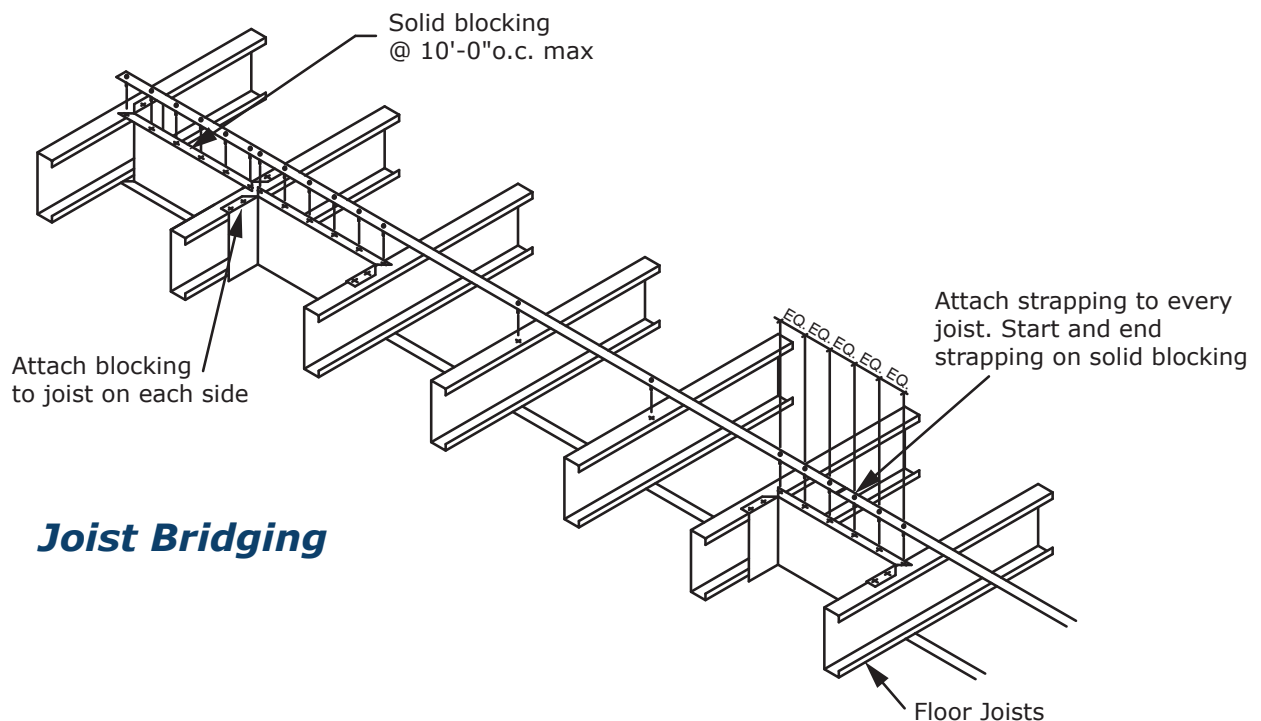
Floor joist bridging may be spaced as indicated below, except where member design requires an alternate spacing.

Span	Minimum Number of Rows
Up to 14	1 at mid span
14 to 20	2 at $\frac{1}{2}$ point
20 to 26	3 at $\frac{1}{4}$ point

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

Blocking Note;

Place solid blocking adjacent to all openings and (2) bays at ends of joist system



Joist Bridging

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			Two Equal Spans			Single Span			Two Equal Spans		
		Spacing (in) o.c.			Spacing (in) o.c.			Spacing (in) o.c.			Spacing (in) o.c.		
		12	16	24	12	16	24	12	16	24	12	16	24
600S162-33	33	12' 0"	10' 5"	8' 6"	11' 1"	9' 3"	7' 0"	11' 4"	10' 3"	8' 6"	11' 1"	9' 3"	7' 0"
600S200-33	33	12' 10"	11' 2"	9' 1"	11' 5"	9' 6"	7' 2"	11' 10"	10' 9"	9' 1"	11' 5"	9' 6"	7' 2"
600S162-43	33	13' 7"	12' 4"	10' 1"	14' 3"	12' 4"	9' 9"	12' 4"	11' 2"	9' 9"	13' 10"	12' 4"	9' 9"
600S200-43	33	14' 3"	12' 9"	10' 5"	14' 8"	12' 6"	9' 10"	13' 0"	11' 9"	10' 3"	14' 7"	12' 6"	9' 10"
600S250-43	33	14' 11"	13' 2"	10' 9"	15' 0"	12' 9"	10' 1"	13' 7"	12' 4"	10' 9"	15' 0"	12' 9"	10' 1"
600S162-54	50	14' 7"	13' 3"	11' 7"	16' 4"	14' 10"	13' 0"	13' 3"	12' 0"	10' 6"	14' 10"	13' 6"	11' 10"
600S200-54	50	15' 4"	13' 11"	12' 2"	17' 3"	15' 8"	13' 6"	13' 11"	12' 8"	11' 0"	15' 8"	14' 2"	12' 5"
600S250-54	50	15' 10"	14' 5"	12' 7"	17' 9"	16' 2"	13' 9"	14' 5"	13' 1"	11' 5"	16' 2"	14' 8"	12' 10"
600S162-68	50	15' 8"	14' 2"	12' 5"	17' 7"	15' 11"	13' 11"	14' 2"	12' 11"	11' 3"	15' 11"	14' 6"	12' 8"
600S200-68	50	16' 5"	14' 11"	13' 1"	18' 6"	16' 9"	14' 8"	14' 11"	13' 7"	11' 10"	16' 9"	15' 3"	13' 4"
600S250-68	50	17' 2"	15' 7"	13' 7"	19' 3"	17' 6"	15' 4"	15' 7"	14' 2"	12' 4"	17' 6"	15' 11"	13' 11"
600S162-97	50	17' 4"	15' 9"	13' 9"	19' 6"	17' 8"	15' 5"	15' 9"	14' 4"	12' 6"	17' 8"	16' 1"	14' 0"
600S200-97	50	18' 3"	16' 7"	14' 6"	20' 6"	18' 8"	16' 3"	16' 7"	15' 1"	13' 2"	18' 8"	16' 11"	14' 9"
600S250-97	50	19' 2"	17' 5"	15' 3"	21' 6"	19' 7"	17' 1"	17' 5"	15' 10"	13' 10"	19' 7"	17' 9"	15' 6"
600S162-118	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"
600S200-118	50	19' 4"	17' 7"	15' 4"	21' 8"	19' 8"	17' 3"	17' 7"	15' 11"	13' 11"	19' 8"	17' 11"	15' 8"
600S250-118	50	20' 4"	18' 5"	16' 1"	22' 10"	20' 9"	18' 1"	18' 5"	16' 9"	14' 8"	20' 9"	18' 10"	16' 5"
800S162-33	33	13' 11"	12' 0"	8' 4"	10' 9"	8' 7"	6' 1"	13' 11"	12' 0"	8' 4"	10' 9"	8' 7"	6' 1"
800S200-33	33	14' 11"	12' 6"	8' 4"	11' 1"	8' 10"	6' 3"	14' 10"	12' 6"	8' 4"	11' 1"	8' 10"	6' 3"
800S162-43	33	16' 4"	14' 1"	11' 6"	15' 5"	13' 0"	10' 1"	15' 5"	14' 0"	11' 6"	15' 5"	13' 0"	10' 1"
800S200-43	33	17' 6"	15' 2"	12' 4"	17' 0"	14' 3"	10' 11"	16' 3"	14' 9"	12' 4"	17' 0"	14' 3"	10' 11"
800S250-43	33	18' 1"	15' 7"	12' 9"	17' 1"	14' 4"	10' 11"	16' 11"	15' 5"	12' 9"	17' 1"	14' 4"	10' 11"
800S162-54	50	18' 3"	16' 7"	14' 5"	20' 5"	18' 6"	14' 9"	16' 7"	15' 0"	13' 1"	18' 7"	16' 11"	14' 9"
800S200-54	50	19' 3"	17' 6"	15' 3"	21' 7"	19' 8"	16' 1"	17' 6"	15' 11"	13' 10"	19' 8"	17' 10"	15' 7"
800S250-54	50	19' 10"	18' 0"	15' 9"	22' 3"	20' 3"	16' 2"	18' 0"	16' 4"	14' 3"	20' 3"	18' 4"	16' 0"
800S162-68	50	19' 9"	17' 11"	15' 8"	22' 2"	20' 1"	17' 5"	17' 11"	16' 3"	14' 2"	20' 1"	18' 3"	15' 11"
800S200-68	50	20' 8"	18' 9"	16' 5"	23' 3"	21' 1"	18' 5"	18' 9"	17' 1"	14' 11"	21' 1"	19' 2"	16' 9"
800S250-68	50	21' 6"	19' 6"	17' 1"	24' 2"	21' 11"	19' 1"	19' 6"	17' 9"	15' 6"	21' 11"	19' 11"	17' 5"
800S162-97	50	21' 11"	19' 11"	17' 5"	24' 8"	22' 5"	19' 7"	19' 11"	18' 1"	15' 10"	22' 5"	20' 4"	17' 9"
800S200-97	50	23' 0"	20' 11"	18' 3"	25' 10"	23' 6"	20' 6"	20' 11"	19' 0"	16' 7"	23' 6"	21' 4"	18' 7"
800S250-97	50	24' 1"	21' 10"	19' 1"	27' 0"	24' 6"	21' 5"	21' 10"	19' 10"	17' 4"	24' 6"	22' 3"	19' 6"
800S162-118	50	23' 3"	21' 1"	18' 5"	26' 1"	23' 8"	20' 8"	21' 1"	19' 2"	16' 9"	23' 8"	21' 6"	18' 9"
800S200-118	50	24' 4"	22' 2"	19' 4"	27' 4"	24' 10"	21' 9"	22' 2"	20' 1"	17' 7"	24' 10"	22' 7"	19' 9"
800S250-118	50	25' 6"	23' 2"	20' 3"	28' 8"	26' 0"	22' 9"	23' 2"	21' 0"	18' 4"	26' 0"	23' 8"	20' 8"
1000S162-43	33	18' 4"	15' 10"	12' 11"	16' 1"	13' 3"	9' 10"	18' 3"	15' 10"	12' 11"	16' 1"	13' 3"	9' 10"
1000S200-43	33	19' 10"	17' 2"	14' 0"	16' 9"	13' 9"	10' 1"	19' 1"	17' 2"	14' 0"	16' 9"	13' 9"	10' 1"
1000S250-43	33	20' 6"	17' 9"	14' 5"	17' 3"	14' 1"	10' 4"	20' 3"	17' 9"	14' 5"	17' 3"	14' 1"	10' 4"
1000S162-54	50	21' 8"	19' 8"	16' 10"	23' 8"	20' 0"	15' 7"	19' 8"	17' 10"	15' 7"	22' 1"	20' 0"	15' 7"
1000S200-54	50	22' 7"	20' 7"	17' 11"	24' 6"	20' 8"	16' 0"	20' 7"	18' 8"	16' 4"	23' 1"	20' 8"	16' 0"
1000S250-54	50	23' 8"	21' 6"	18' 9"	25' 6"	21' 5"	16' 6"	21' 6"	19' 6"	17' 1"	24' 2"	21' 5"	16' 6"
1000S162-68	50	23' 6"	21' 4"	18' 8"	26' 4"	24' 0"	19' 7"	21' 4"	19' 5"	16' 11"	24' 0"	21' 9"	19' 0"
1000S200-68	50	24' 6"	22' 4"	19' 6"	27' 7"	25' 0"	21' 0"	22' 4"	20' 3"	17' 8"	25' 0"	22' 9"	19' 10"
1000S250-68	50	25' 8"	23' 4"	20' 4"	28' 10"	26' 2"	21' 7"	23' 4"	21' 2"	18' 6"	26' 2"	23' 9"	20' 9"
1000S162-97	50	26' 5"	24' 0"	21' 0"	29' 8"	26' 11"	23' 7"	24' 0"	21' 10"	19' 1"	26' 11"	24' 6"	21' 5"
1000S200-97	50	27' 7"	25' 1"	21' 11"	31' 0"	28' 2"	24' 7"	25' 1"	22' 9"	19' 11"	28' 2"	25' 7"	22' 4"
1000S250-97	50	28' 9"	26' 1"	22' 10"	32' 3"	29' 4"	25' 7"	26' 1"	23' 9"	20' 9"	29' 4"	26' 8"	23' 3"
1000S162-118	50	28' 0"	25' 5"	22' 3"	31' 5"	28' 7"	24' 11"	25' 5"	23' 1"	20' 2"	28' 7"	25' 11"	22' 8"
1000S200-118	50	29' 3"	26' 7"	23' 3"	32' 10"	29' 10"	26' 1"	26' 7"	24' 2"	21' 1"	29' 10"	27' 2"	23' 8"
1000S250-118	50	30' 6"	27' 9"	24' 2"	34' 3"	31' 1"	27' 2"	27' 9"	25' 2"	22' 0"	31' 1"	28' 3"	24' 8"

"e" web stiffeners required at ends.

Web stiffeners required at interior supports for 2-span conditions.

See Table Notes on page 19.

10 psf Dead Load and 40 psf Live Load

Section	Fy (ksi)	L/360 Live Load Deflection						L/480 Live Load Deflection					
		Single Span			Two Equal Spans			Single Span			Two Equal Spans		
		Spacing (in) o.c.			Spacing (in) o.c.			Spacing (in) o.c.			Spacing (in) o.c.		
		12	16	24	12	16	24	12	16	24	12	16	24
1200S162-54	50	24' 10"	22' 5"	18' 3"	24' 8"	20' 6"	15' 5"	22' 7"	20' 6"	17' 11"	24' 8"	20' 6"	15' 5"
1200S200-54	50	26' 0"	23' 7"	19' 11"	25' 5"	21' 1"	15' 9"	23' 7"	21' 5"	18' 9"	25' 5"	21' 1"	15' 9"
1200S250-54	50	26' 7"	24' 2"	20' 7"	25' 9"	21' 3"	15' 11"	24' 2"	21' 11"	19' 2"	25' 9"	21' 3"	15' 11"
1200S162-68	50	27' 1"	24' 7"	21' 3"	30' 2"	26' 1"	21' 3"	24' 7"	22' 4"	19' 6"	27' 7"	25' 1"	21' 3"
1200S200-68	50	28' 3"	25' 8"	22' 5"	31' 9"	28' 2"	22' 4"	25' 8"	23' 4"	20' 4"	28' 10"	26' 2"	22' 4"
1200S250-68	50	29' 3"	26' 6"	23' 2"	32' 10"	28' 6"	22' 6"	26' 6"	24' 1"	21' 1"	29' 10"	27' 1"	22' 6"
1200S162-97	50	30' 8"	27' 11"	24' 4"	34' 6"	31' 4"	27' 2"	27' 11"	25' 4"	22' 2"	31' 4"	28' 5"	24' 10"
1200S200-97	50	32' 0"	29' 1"	25' 5"	35' 11"	32' 8"	28' 6"	29' 1"	26' 5"	23' 1"	32' 8"	29' 8"	25' 11"
1200S250-97	50	33' 3"	30' 2"	26' 4"	37' 4"	33' 11"	29' 7"	30' 2"	27' 5"	23' 11"	33' 11"	30' 9"	26' 11"
1200S162-118	50	32' 8"	29' 9"	25' 11"	36' 9"	33' 4"	29' 2"	29' 9"	27' 0"	23' 7"	33' 4"	30' 4"	26' 6"
1200S200-118	50	34' 1"	30' 11"	27' 0"	38' 3"	34' 9"	30' 4"	30' 11"	28' 1"	24' 7"	34' 9"	31' 7"	27' 7"
1200S250-118	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"
1200S300-118	50	36' 6"	33' 2"	28' 11"	41' 0"	37' 3"	32' 6"	33' 2"	30' 1"	26' 4"	37' 3"	33' 10"	29' 6"
1200S350-118	50	38' 5"	34' 11"	30' 6"	43' 1"	39' 2"	34' 3"	34' 11"	31' 8"	27' 8"	39' 2"	35' 7"	31' 1"
1400S162-54	50	27' 7"	23' 10"	19' 5"	24' 10"	20' 2"	14' 8"	25' 5"	23' 1"	19' 5"	24' 10"	20' 2"	14' 8"
1400S200-54	50	29' 2"	26' 1"	20' 9"	25' 5"	20' 7"	14' 10"	26' 6"	24' 1"	20' 9"	25' 5"	20' 7"	14' 10"
1400S250-54	50	29' 10"	27' 1"	20' 9"	25' 8"	20' 9"	14' 11"	27' 1"	24' 7"	20' 9"	25' 8"	20' 9"	14' 11"
1400S300-54	50	30' 4"	27' 6"	20' 9"	25' 10"	20' 10"	15' 0"	27' 6"	25' 0"	20' 9"	25' 10"	20' 10"	15' 0"
1400S350-54	50	32' 3"	29' 4"	20' 9"	27' 5"	21' 10"	15' 6"	29' 4"	26' 8"	20' 9"	27' 5"	21' 10"	15' 6"
1400S162-68	50	30' 6"	27' 9"	22' 8"	32' 2"	27' 10"	22' 0"	27' 9"	25' 2"	22' 0"	31' 2"	27' 10"	22' 0"
1400S200-68	50	31' 9"	28' 11"	24' 7"	34' 11"	29' 7"	22' 11"	28' 11"	26' 3"	22' 11"	32' 5"	29' 5"	22' 11"
1400S250-68	50	32' 10"	29' 10"	25' 7"	35' 3"	29' 9"	23' 0"	29' 10"	27' 1"	23' 8"	33' 6"	29' 9"	23' 0"
1400S300-68	50	33' 5"	30' 4"	26' 3"	35' 8"	30' 1"	23' 3"	30' 4"	27' 7"	24' 1"	34' 1"	30' 1"	23' 3"
1400S350-68	50	36' 0"	32' 9"	28' 7"	39' 7"	33' 1"	25' 3"	32' 9"	29' 9"	26' 0"	36' 9"	33' 1"	25' 3"
1400S162-97	50	34' 9"	31' 7"	27' 7"	39' 1"	35' 6"	29' 2"	31' 7"	28' 8"	25' 1"	35' 6"	32' 3"	28' 2"
1400S200-97	50	36' 2"	32' 10"	28' 8"	40' 7"	36' 10"	31' 4"	32' 10"	29' 10"	26' 1"	36' 10"	33' 6"	29' 3"
1400S250-97	50	37' 6"	34' 0"	29' 9"	42' 1"	38' 3"	32' 6"	34' 0"	30' 11"	27' 0"	38' 3"	34' 9"	30' 4"
1400S300-97	50	38' 5"	34' 11"	30' 6"	43' 2"	39' 3"	33' 4"	34' 11"	31' 9"	27' 9"	39' 3"	35' 8"	31' 2"
1400S350-97	50	40' 10"	37' 1"	32' 5"	45' 10"	41' 8"	36' 5"	37' 1"	33' 8"	29' 5"	41' 8"	37' 10"	33' 1"
1400S162-118	50	37' 3"	33' 10"	29' 7"	41' 10"	38' 0"	33' 2"	33' 10"	30' 9"	26' 10"	38' 0"	34' 6"	30' 2"
1400S200-118	50	38' 9"	35' 2"	30' 9"	43' 6"	39' 6"	34' 6"	35' 2"	31' 11"	27' 11"	39' 6"	35' 11"	31' 4"
1400S250-118	50	40' 1"	36' 5"	31' 10"	45' 1"	40' 11"	35' 9"	36' 5"	33' 1"	28' 11"	40' 11"	37' 2"	32' 6"
1400S300-118	50	41' 5"	37' 8"	32' 10"	46' 6"	42' 3"	36' 11"	37' 8"	34' 2"	29' 10"	42' 3"	38' 5"	33' 6"
1400S350-118	50	43' 5"	39' 5"	34' 6"	48' 9"	44' 4"	38' 8"	39' 5"	35' 10"	31' 4"	44' 4"	40' 3"	35' 2"
1600S162-68	50	33' 10"	29' 3"	23' 10"	33' 10"	29' 0"	22' 1"	30' 9"	27' 11"	23' 10"	33' 10"	29' 0"	22' 1"
1600S200-68	50	35' 2"	31' 11"	26' 0"	36' 2"	30' 1"	22' 9"	32' 0"	29' 1"	25' 4"	35' 11"	30' 1"	22' 9"
1600S250-68	50	36' 4"	33' 0"	27' 2"	36' 4"	30' 3"	22' 10"	33' 0"	30' 0"	26' 2"	36' 4"	30' 3"	22' 10"
1600S300-68	50	36' 11"	33' 7"	28' 0"	36' 9"	30' 6"	23' 0"	33' 7"	30' 6"	26' 7"	36' 9"	30' 6"	23' 0"
1600S350-68	50	39' 2"	35' 7"	31' 1"	39' 7"	32' 8"	24' 3"	35' 7"	32' 4"	28' 3"	39' 7"	32' 8"	24' 3"
1600S162-97	50	38' 8"	35' 2"	30' 8"	43' 5"	37' 10"	30' 11"	35' 2"	31' 11"	27' 11"	39' 6"	35' 10"	30' 11"
1600S200-97	50	40' 2"	36' 6"	31' 10"	45' 1"	40' 9"	33' 3"	36' 6"	33' 2"	28' 11"	41' 0"	37' 3"	32' 6"
1600S250-97	50	41' 7"	37' 9"	33' 0"	46' 8"	42' 5"	34' 8"	37' 9"	34' 4"	30' 0"	42' 5"	38' 6"	33' 8"
1600S300-97	50	42' 7"	38' 9"	33' 10"	47' 10"	43' 6"	35' 8"	38' 9"	35' 2"	30' 9"	43' 6"	39' 6"	34' 6"
1600S350-97	50	44' 10"	40' 9"	35' 7"	50' 4"	45' 9"	39' 2"	40' 9"	37' 0"	32' 4"	45' 9"	41' 7"	36' 4"
1600S162-118	50	41' 7"	37' 9"	33' 0"	46' 8"	42' 5"	35' 9"	37' 9"	34' 4"	30' 0"	42' 5"	38' 6"	33' 8"
1600S200-118	50	43' 2"	39' 2"	34' 3"	48' 5"	44' 0"	38' 4"	39' 2"	35' 7"	31' 1"	44' 0"	40' 0"	34' 11"
1600S250-118	50	44' 7"	40' 6"	35' 5"	50' 1"	45' 6"	39' 9"	40' 6"	36' 10"	32' 2"	45' 6"	41' 4"	36' 1"
1600S300-118	50	46' 0"	41' 9"	36' 6"	51' 8"	46' 11"	41' 0"	41' 9"	38' 0"	33' 2"	46' 11"	42' 8"	37' 3"
1600S350-118	50	48' 1"	43' 8"	38' 2"	54' 0"	49' 1"	42' 10"	43' 8"	39' 8"	34' 8"	49' 1"	44' 7"	38' 11"

"e" web stiffeners required at ends.

Web stiffeners required at interior supports for 2-span conditions.

See Table Notes on page 19.

10 psf Dead Load and 50 psf Live Load

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

"e" web stiffeners required at ends.

Web stiffeners required at interior supports for 2-span conditions.

See Table Notes on page 19.

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			Two Equal Spans			Single Span			Two Equal Spans		
		Spacing (in) o.c.			Spacing (in) o.c.			Spacing (in) o.c.			Spacing (in) o.c.		
		12	16	24	12	16	24	12	16	24	12	16	24
1200S162-54	50	23' 1"	20' 5"	16' 8"	21' 11"	18' 0"	13' 5"	21' 0"	19' 1"	16' 8"	21' 11"	18' 0"	13' 5"
1200S200-54	50	24' 1"	21' 11"	18' 1"	22' 6"	18' 6"	13' 8"	21' 11"	19' 11"	17' 4"	22' 6"	18' 6"	13' 8"
1200S250-54	50	24' 8"	22' 5"	18' 9"	22' 9"	18' 8"	13' 9"	22' 5"	20' 4"	17' 9"	22' 9"	18' 8"	13' 9"
1200S162-68	50	25' 2"	22' 10"	19' 4"	27' 5"	23' 9"	19' 1"	22' 10"	20' 9"	18' 1"	25' 8"	23' 4"	19' 1"
1200S200-68	50	26' 3"	23' 10"	20' 10"	29' 5"	25' 5"	19' 11"	23' 10"	21' 8"	18' 11"	26' 9"	24' 4"	19' 11"
1200S250-68	50	27' 1"	24' 8"	21' 6"	30' 2"	25' 7"	20' 1"	24' 8"	22' 4"	19' 6"	27' 8"	25' 2"	20' 1"
1200S162-97	50	28' 6"	25' 11"	22' 7"	32' 0"	29' 1"	24' 9"	25' 11"	23' 6"	20' 7"	29' 1"	26' 5"	23' 1"
1200S200-97	50	29' 8"	27' 0"	23' 7"	33' 4"	30' 3"	26' 5"	27' 0"	24' 6"	21' 5"	30' 3"	27' 6"	24' 0"
1200S250-97	50	30' 10"	28' 0"	24' 6"	34' 7"	31' 5"	27' 4"	28' 0"	25' 5"	22' 3"	31' 5"	28' 7"	24' 11"
1200S162-118	50	30' 4"	27' 7"	24' 1"	34' 1"	31' 0"	27' 1"	27' 7"	25' 1"	21' 11"	31' 0"	28' 2"	24' 7"
1200S200-118	50	31' 8"	28' 9"	25' 1"	35' 6"	32' 3"	28' 2"	28' 9"	26' 1"	22' 10"	32' 3"	29' 4"	25' 7"
1200S250-118	50	32' 10"	29' 10"	26' 1"	36' 11"	33' 6"	29' 3"	29' 10"	27' 1"	23' 8"	33' 6"	30' 5"	26' 7"
1200S300-118	50	33' 11"	30' 9"	26' 11"	38' 0"	34' 7"	30' 2"	30' 9"	27' 11"	24' 5"	34' 7"	31' 5"	27' 5"
1200S350-118	50	35' 8"	32' 5"	28' 3"	40' 0"	36' 4"	31' 9"	32' 5"	29' 5"	25' 8"	36' 4"	33' 0"	28' 10"
1400S162-54	50	25' 1"	21' 8"	17' 2"	21' 9"	17' 6"	12' 6"	23' 7"	21' 5"	17' 2"	21' 9"	17' 6"	12' 6"
1400S200-54	50	27' 1"	23' 9"	17' 2"	22' 2"	17' 9"	12' 8"	24' 7"	22' 4"	17' 2"	22' 2"	17' 9"	12' 8"
1400S250-54	50	27' 8"	24' 9"	17' 2"	22' 5"	17' 11"	12' 9"	25' 2"	22' 10"	17' 2"	22' 5"	17' 11"	12' 9"
1400S300-54	50	28' 1"	25' 5"	17' 2"	22' 6"	18' 0"	12' 9"	25' 7"	23' 2"	17' 2"	22' 6"	18' 0"	12' 9"
1400S350-54	50	30' 0"	25' 9"	17' 2"	23' 8"	18' 8"	13' 1"	27' 3"	24' 9"	17' 2"	23' 8"	18' 8"	13' 1"
1400S162-68	50	28' 4"	25' 4"	20' 8"	29' 3"	25' 3"	19' 6"	25' 9"	23' 5"	20' 5"	28' 11"	25' 3"	19' 6"
1400S200-68	50	29' 6"	26' 10"	22' 5"	31' 5"	26' 4"	20' 2"	26' 10"	24' 4"	21' 3"	30' 1"	26' 4"	20' 2"
1400S250-68	50	30' 6"	27' 8"	23' 4"	31' 7"	26' 6"	20' 3"	27' 8"	25' 2"	22' 0"	31' 1"	26' 6"	20' 3"
1400S300-68	50	31' 0"	28' 2"	23' 11"	31' 11"	26' 9"	20' 6"	28' 2"	25' 7"	22' 4"	31' 8"	26' 9"	20' 6"
1400S350-68	50	33' 5"	30' 5"	26' 6"	35' 3"	29' 3"	22' 0"	30' 5"	27' 7"	24' 1"	34' 1"	29' 3"	22' 0"
1400S162-97	50	32' 3"	29' 4"	25' 7"	36' 3"	32' 7"	26' 7"	29' 4"	26' 8"	23' 3"	32' 11"	29' 11"	26' 1"
1400S200-97	50	33' 7"	30' 6"	26' 7"	37' 8"	34' 3"	28' 6"	30' 6"	27' 8"	24' 2"	34' 3"	31' 1"	27' 2"
1400S250-97	50	34' 9"	31' 7"	27' 7"	39' 1"	35' 6"	29' 7"	31' 7"	28' 8"	25' 1"	35' 6"	32' 3"	28' 2"
1400S300-97	50	35' 8"	32' 5"	28' 4"	40' 1"	36' 5"	30' 4"	32' 5"	29' 6"	25' 9"	36' 5"	33' 1"	28' 11"
1400S350-97	50	37' 11"	34' 5"	30' 1"	42' 7"	38' 8"	33' 6"	34' 5"	31' 3"	27' 4"	38' 8"	35' 2"	30' 8"
1400S162-118	50	34' 7"	31' 5"	27' 5"	38' 10"	35' 3"	30' 7"	31' 5"	28' 7"	24' 11"	35' 3"	32' 1"	28' 0"
1400S200-118	50	35' 11"	32' 8"	28' 6"	40' 4"	36' 8"	32' 0"	32' 8"	29' 8"	25' 11"	36' 8"	33' 4"	29' 1"
1400S250-118	50	37' 3"	33' 10"	29' 7"	41' 10"	38' 0"	33' 2"	33' 10"	30' 9"	26' 10"	38' 0"	34' 6"	30' 2"
1400S300-118	50	38' 5"	34' 11"	30' 6"	43' 2"	39' 3"	34' 3"	34' 11"	31' 9"	27' 9"	39' 3"	35' 8"	31' 2"
1400S350-118	50	40' 4"	36' 8"	32' 0"	45' 3"	41' 2"	35' 11"	36' 8"	33' 3"	29' 1"	41' 2"	37' 4"	32' 8"
1600S162-68	50	30' 9"	26' 7"	21' 8"	30' 9"	25' 7"	19' 3"	28' 6"	25' 11"	21' 8"	30' 9"	25' 7"	19' 3"
1600S200-68	50	32' 8"	29' 0"	23' 8"	32' 1"	26' 6"	19' 10"	29' 8"	27' 0"	23' 7"	32' 1"	26' 6"	19' 10"
1600S250-68	50	33' 8"	30' 4"	24' 9"	32' 3"	26' 8"	19' 10"	30' 7"	27' 10"	24' 3"	32' 3"	26' 8"	19' 10"
1600S300-68	50	34' 3"	31' 2"	25' 5"	32' 7"	26' 10"	20' 0"	31' 2"	28' 4"	24' 9"	32' 7"	26' 10"	20' 0"
1600S350-68	50	36' 4"	33' 0"	28' 8"	34' 11"	28' 7"	20' 11"	33' 0"	30' 0"	26' 2"	34' 11"	28' 7"	20' 11"
1600S162-97	50	35' 11"	32' 8"	28' 1"	39' 10"	34' 5"	28' 1"	32' 8"	29' 8"	25' 11"	36' 8"	33' 3"	28' 1"
1600S200-97	50	37' 3"	33' 10"	29' 7"	41' 10"	37' 1"	30' 3"	33' 10"	30' 9"	26' 10"	38' 0"	34' 7"	30' 2"
1600S250-97	50	38' 7"	35' 1"	30' 7"	43' 4"	38' 8"	31' 7"	35' 1"	31' 10"	27' 10"	39' 4"	35' 9"	31' 3"
1600S300-97	50	39' 7"	35' 11"	31' 5"	44' 5"	39' 9"	32' 5"	35' 11"	32' 8"	28' 6"	40' 4"	36' 8"	32' 0"
1600S350-97	50	41' 8"	37' 10"	33' 0"	46' 9"	42' 6"	35' 3"	37' 10"	34' 4"	30' 0"	42' 6"	38' 7"	33' 8"
1600S162-118	50	38' 7"	35' 1"	30' 8"	43' 4"	39' 5"	32' 7"	35' 1"	31' 10"	27' 10"	39' 5"	35' 9"	31' 3"
1600S200-118	50	40' 0"	36' 4"	31' 9"	44' 11"	40' 10"	34' 11"	36' 4"	33' 0"	28' 10"	40' 10"	37' 1"	32' 5"
1600S250-118	50	41' 5"	37' 7"	32' 10"	46' 6"	42' 3"	36' 4"	37' 7"	34' 2"	29' 10"	42' 3"	38' 5"	33' 6"
1600S300-118	50	42' 8"	38' 9"	33' 11"	47' 11"	43' 7"	37' 4"	38' 9"	35' 3"	30' 9"	43' 7"	39' 7"	34' 7"
1600S350-118	50	44' 8"	40' 7"	35' 5"	50' 1"	45' 6"	39' 9"	40' 7"	36' 10"	32' 2"	45' 6"	41' 4"	36' 2"

"e" web stiffeners required at ends.

Web stiffeners required at interior supports for 2-span conditions.

See Table Notes on page 19.

15 psf Dead Load and 100 psf Live Load

Section	F _y (ksi)	L/360 Live Load Deflection						L/480 Live Load Deflection					
		Single Span			Two Equal Spans			Single Span			Two Equal Spans		
		Spacing (in) o.c.			Spacing (in) o.c.			Spacing (in) o.c.			Spacing (in) o.c.		
		12	16	24	12	16	24	12	16	24	12	16	24
600S162-33	33	7' 10"	6' 10"	4' 10"	6' 3"	5' 0"	3' 6"	7' 10"	6' 10"	4' 10"	6' 3"	5' 0"	3' 6"
600S200-33	33	8' 5"	7' 3"	4' 10"	6' 4"	5' 1"	3' 7"	8' 5"	7' 3"	4' 10"	6' 4"	5' 1"	3' 7"
600S162-43	33	9' 4"	8' 1"	6' 7"	8' 11"	7' 5"	5' 8"	9' 1"	8' 1"	6' 7"	8' 11"	7' 5"	5' 8"
600S200-43	33	9' 8"	8' 4"	6' 10"	9' 0"	7' 6"	5' 8"	9' 6"	8' 4"	6' 10"	9' 0"	7' 6"	5' 8"
600S250-43	33	10' 0"	8' 7"	7' 0"	9' 2"	7' 8"	5' 10"	10' 0"	8' 7"	7' 0"	9' 2"	7' 8"	5' 10"
600S162-54	50	10' 9"	9' 9"	8' 6"	12' 1"	10' 5"	8' 1"	9' 9"	8' 10"	7' 9"	10' 11"	9' 11"	8' 1"
600S200-54	50	11' 3"	10' 3"	8' 11"	12' 4"	10' 5"	8' 1"	10' 3"	9' 4"	8' 1"	11' 6"	10' 5"	8' 1"
600S250-54	50	11' 8"	10' 7"	9' 2"	12' 7"	10' 8"	8' 2"	10' 7"	9' 7"	8' 5"	11' 11"	10' 8"	8' 2"
600S162-68	50	11' 6"	10' 5"	9' 1"	12' 11"	11' 9"	9' 10"	10' 5"	9' 6"	8' 3"	11' 9"	10' 8"	9' 4"
600S200-68	50	12' 1"	11' 0"	9' 7"	13' 7"	12' 4"	10' 3"	11' 0"	10' 0"	8' 9"	12' 4"	11' 3"	9' 10"
600S250-68	50	12' 8"	11' 6"	10' 0"	14' 2"	12' 8"	10' 0"	11' 6"	10' 5"	9' 1"	12' 11"	11' 9"	10' 0"
600S162-97	50	12' 9"	11' 7"	10' 1"	14' 4"	13' 0"	11' 4"	11' 7"	10' 6"	9' 2"	13' 0"	11' 10"	10' 4"
600S200-97	50	13' 5"	12' 3"	10' 8"	15' 1"	13' 9"	12' 0"	12' 3"	11' 1"	9' 8"	13' 9"	12' 5"	10' 11"
600S250-97	50	14' 1"	12' 10"	11' 2"	15' 10"	14' 5"	12' 7"	12' 10"	11' 8"	10' 2"	14' 5"	13' 1"	11' 5"
600S162-118	50	13' 6"	12' 3"	10' 8"	15' 2"	13' 9"	12' 0"	12' 3"	11' 1"	9' 8"	13' 9"	12' 6"	10' 11"
600S200-118	50	14' 3"	12' 11"	11' 3"	16' 0"	14' 6"	12' 8"	12' 11"	11' 9"	10' 3"	14' 6"	13' 2"	11' 6"
600S250-118	50	14' 11"	13' 7"	11' 10"	16' 10"	15' 3"	13' 4"	13' 7"	12' 4"	10' 9"	15' 3"	13' 10"	12' 1"
800S162-33	33	7' 2"	5' 4"	3' 7"	5' 4"	4' 1"	2' 9"	7' 2"	5' 4"	3' 7"	5' 4"	4' 1"	2' 9"
800S200-33	33	7' 2"	5' 4"	3' 7"	5' 5"	4' 2"	2' 10"	7' 2"	5' 4"	3' 7"	5' 5"	4' 2"	2' 10"
800S162-43	33	10' 8"	9' 3"	7' 6"	9' 1"	7' 5"	5' 6"	10' 8"	9' 3"	7' 6"	9' 1"	7' 5"	5' 6"
800S200-43	33	11' 6"	9' 11"	7' 11"	9' 9"	7' 11"	5' 8"	11' 6"	9' 11"	7' 11"	9' 9"	7' 11"	5' 8"
800S250-43	33	11' 10"	10' 3"	7' 11"	9' 10"	7' 11"	5' 9"	11' 10"	10' 3"	7' 11"	9' 10"	7' 11"	5' 9"
800S162-54	50	13' 5"	12' 1"	9' 10"	13' 7"	11' 5"	8' 10"	12' 2"	11' 1"	9' 8"	13' 7"	11' 5"	8' 10"
800S200-54	50	14' 2"	12' 10"	10' 7"	14' 8"	12' 4"	9' 5"	12' 10"	11' 8"	10' 3"	14' 6"	12' 4"	9' 5"
800S250-54	50	14' 7"	13' 3"	10' 10"	14' 9"	12' 4"	9' 5"	13' 3"	12' 0"	10' 6"	14' 9"	12' 4"	9' 5"
800S162-68	50	14' 6"	13' 2"	11' 5"	16' 2"	14' 0"	11' 1"	13' 2"	12' 0"	10' 5"	14' 10"	13' 5"	11' 1"
800S200-68	50	15' 3"	13' 10"	12' 1"	17' 1"	15' 5"	12' 4"	13' 10"	12' 7"	11' 0"	15' 6"	14' 1"	12' 4"
800S250-68	50	15' 10"	14' 5"	12' 6"	17' 9"	15' 4"	12' 1"	14' 5"	13' 1"	11' 5"	16' 2"	14' 8"	12' 1"
800S162-97	50	16' 2"	14' 8"	12' 10"	18' 2"	16' 6"	14' 1"	14' 8"	13' 4"	11' 8"	16' 6"	15' 0"	13' 1"
800S200-97	50	16' 11"	15' 5"	13' 5"	19' 0"	17' 3"	15' 1"	15' 5"	14' 0"	12' 2"	17' 3"	15' 8"	13' 8"
800S250-97	50	17' 8"	16' 1"	14' 1"	19' 11"	18' 1"	15' 9"	16' 1"	14' 7"	12' 9"	18' 1"	16' 5"	14' 4"
800S162-118	50	17' 1"	15' 6"	13' 7"	19' 2"	17' 5"	15' 3"	15' 6"	14' 1"	12' 4"	17' 5"	15' 10"	13' 10"
800S200-118	50	17' 11"	16' 4"	14' 3"	20' 2"	18' 4"	16' 0"	16' 4"	14' 10"	12' 11"	18' 4"	16' 8"	14' 6"
800S250-118	50	18' 9"	17' 1"	14' 11"	21' 1"	19' 2"	16' 9"	17' 1"	15' 6"	13' 6"	19' 2"	17' 5"	15' 2"
1000S162-43	33	12' 0"	9' 6"	6' 4"	8' 9"	6' 10"	4' 9"	12' 0"	9' 6"	6' 4"	8' 9"	6' 10"	4' 9"
1000S200-43	33	12' 8"	9' 6"	6' 4"	8' 11"	7' 0"	4' 10"	12' 8"	9' 6"	6' 4"	8' 11"	7' 0"	4' 10"
1000S250-43	33	12' 8"	9' 6"	6' 4"	9' 1"	7' 1"	4' 10"	12' 8"	9' 6"	6' 4"	9' 1"	7' 1"	4' 10"
1000S162-54	50	15' 8"	13' 7"	11' 0"	14' 1"	11' 7"	8' 6"	14' 6"	13' 2"	11' 0"	14' 1"	11' 7"	8' 6"
1000S200-54	50	16' 8"	14' 7"	11' 11"	14' 6"	11' 10"	8' 8"	15' 2"	13' 9"	11' 11"	14' 6"	11' 10"	8' 8"
1000S250-54	50	17' 5"	15' 1"	12' 3"	14' 11"	12' 2"	8' 10"	15' 10"	14' 5"	12' 3"	14' 11"	12' 2"	8' 10"
1000S162-68	50	17' 4"	15' 8"	12' 10"	18' 2"	15' 8"	12' 4"	15' 8"	14' 3"	12' 6"	17' 8"	15' 8"	12' 4"
1000S200-68	50	18' 1"	16' 5"	13' 9"	19' 5"	16' 5"	12' 10"	16' 5"	14' 11"	13' 0"	18' 5"	16' 5"	12' 10"
1000S250-68	50	18' 11"	17' 2"	14' 2"	20' 1"	17' 4"	13' 6"	17' 2"	15' 7"	13' 7"	19' 3"	17' 4"	13' 6"
1000S162-97	50	19' 6"	17' 8"	15' 5"	21' 10"	19' 10"	16' 2"	17' 8"	16' 1"	14' 0"	19' 10"	18' 0"	15' 9"
1000S200-97	50	20' 4"	18' 6"	16' 1"	22' 10"	20' 9"	17' 3"	18' 6"	16' 9"	14' 8"	20' 9"	18' 10"	16' 5"
1000S250-97	50	21' 2"	19' 3"	16' 9"	23' 9"	21' 7"	18' 6"	19' 3"	17' 6"	15' 3"	21' 7"	19' 7"	17' 2"
1000S162-118	50	20' 7"	18' 9"	16' 4"	23' 2"	21' 0"	18' 4"	18' 9"	17' 0"	14' 10"	21' 0"	19' 1"	16' 8"
1000S200-118	50	21' 7"	19' 7"	17' 1"	24' 2"	22' 0"	19' 2"	19' 7"	17' 9"	15' 6"	22' 0"	20' 0"	17' 5"
1000S250-118	50	22' 6"	20' 5"	17' 10"	25' 3"	22' 11"	20' 0"	20' 5"	18' 6"	16' 2"	22' 11"	20' 10"	18' 2"

"e" web stiffeners required at ends.

Web stiffeners required at interior supports for 2-span conditions.

See Table Notes on page 19.

15 psf Dead Load and 100 psf Live Load

Section	F _y (ksi)	L/360 Live Load Deflection						L/480 Live Load Deflection					
		Single Span			Two Equal Spans			Single Span			Two Equal Spans		
		Spacing (in) o.c.			Spacing (in) o.c.			Spacing (in) o.c.			Spacing (in) o.c.		
		12	16	24	12	16	24	12	16	24	12	16	24
1200S162-54	50	17' 0"	14' 8"	10' 5"	13' 9"	11' 0"	7' 9"	16' 8"	14' 8"	10' 5"	13' 9"	11' 0"	7' 9"
1200S200-54	50	18' 6"	15' 8"	10' 5"	14' 1"	11' 2"	7' 10"	17' 4"	15' 8"	10' 5"	14' 1"	11' 2"	7' 10"
1200S250-54	50	19' 1"	15' 8"	10' 5"	14' 2"	11' 2"	7' 10"	17' 9"	15' 8"	10' 5"	14' 2"	11' 2"	7' 10"
1200S162-68	50	19' 9"	17' 1"	13' 11"	19' 6"	16' 4"	12' 6"	18' 1"	16' 5"	13' 11"	19' 6"	16' 4"	12' 6"
1200S200-68	50	20' 10"	18' 5"	15' 0"	20' 5"	17' 0"	12' 11"	18' 11"	17' 2"	15' 0"	20' 5"	17' 0"	12' 11"
1200S250-68	50	21' 6"	19' 1"	15' 7"	20' 6"	17' 1"	13' 0"	19' 6"	17' 9"	15' 6"	20' 6"	17' 1"	13' 0"
1200S162-97	50	22' 7"	20' 7"	17' 10"	25' 2"	21' 10"	17' 10"	20' 7"	18' 8"	16' 4"	23' 1"	20' 11"	17' 10"
1200S200-97	50	23' 7"	21' 5"	18' 8"	26' 5"	23' 4"	19' 0"	21' 5"	19' 5"	17' 0"	24' 0"	21' 10"	19' 0"
1200S250-97	50	24' 6"	22' 3"	19' 5"	27' 6"	24' 2"	19' 8"	22' 3"	20' 2"	17' 8"	24' 11"	22' 8"	19' 8"
1200S162-118	50	24' 1"	21' 11"	19' 1"	27' 1"	24' 7"	20' 5"	21' 11"	19' 11"	17' 4"	24' 7"	22' 4"	19' 6"
1200S200-118	50	25' 1"	22' 10"	19' 11"	28' 2"	25' 7"	21' 9"	22' 10"	20' 9"	18' 1"	25' 7"	23' 3"	20' 4"
1200S250-118	50	26' 1"	23' 8"	20' 8"	29' 3"	26' 7"	22' 6"	23' 8"	21' 6"	18' 9"	26' 7"	24' 2"	21' 1"
1200S300-118	50	26' 11"	24' 5"	21' 4"	30' 2"	27' 5"	23' 11"	24' 5"	22' 2"	19' 4"	27' 5"	24' 11"	21' 9"
1200S350-118	50	28' 3"	25' 8"	22' 5"	31' 9"	28' 10"	25' 2"	25' 8"	23' 4"	20' 5"	28' 10"	26' 3"	22' 11"
1400S162-54	50	17' 10"	13' 4"	8' 11"	12' 11"	10' 0"	6' 11"	17' 10"	13' 4"	8' 11"	12' 11"	10' 0"	6' 11"
1400S200-54	50	17' 10"	13' 4"	8' 11"	13' 1"	10' 1"	6' 11"	17' 10"	13' 4"	8' 11"	13' 1"	10' 1"	6' 11"
1400S250-54	50	17' 10"	13' 4"	8' 11"	13' 2"	10' 2"	6' 11"	17' 10"	13' 4"	8' 11"	13' 2"	10' 2"	6' 11"
1400S300-54	50	17' 10"	13' 4"	8' 11"	13' 2"	10' 2"	6' 11"	17' 10"	13' 4"	8' 11"	13' 2"	10' 2"	6' 11"
1400S350-54	50	17' 10"	13' 4"	8' 11"	13' 6"	10' 4"	7' 0"	17' 10"	13' 4"	8' 11"	13' 6"	10' 4"	7' 0"
1400S162-68	50	21' 1"	18' 3"	14' 10"	19' 11"	16' 5"	12' 1"	20' 5"	18' 3"	14' 10"	19' 11"	16' 5"	12' 1"
1400S200-68	50	22' 10"	19' 9"	16' 1"	20' 8"	16' 11"	12' 5"	21' 3"	19' 4"	16' 1"	20' 8"	16' 11"	12' 5"
1400S250-68	50	23' 9"	20' 7"	16' 9"	20' 10"	17' 0"	12' 5"	22' 0"	19' 11"	16' 9"	20' 10"	17' 0"	12' 5"
1400S300-68	50	24' 4"	21' 1"	17' 2"	21' 0"	17' 1"	12' 6"	22' 4"	20' 4"	17' 2"	21' 0"	17' 1"	12' 6"
1400S350-68	50	26' 6"	23' 8"	17' 11"	22' 7"	18' 2"	13' 1"	24' 1"	21' 11"	17' 11"	22' 7"	18' 2"	13' 1"
1400S162-97	50	25' 7"	23' 3"	19' 1"	27' 1"	23' 5"	19' 1"	23' 3"	21' 2"	18' 5"	26' 1"	23' 5"	19' 1"
1400S200-97	50	26' 7"	24' 2"	20' 6"	29' 1"	25' 2"	20' 6"	24' 2"	22' 0"	19' 2"	27' 2"	24' 8"	20' 6"
1400S250-97	50	27' 7"	25' 1"	21' 4"	30' 2"	26' 1"	21' 4"	25' 1"	22' 9"	19' 11"	28' 2"	25' 7"	21' 4"
1400S300-97	50	28' 4"	25' 9"	21' 10"	30' 11"	26' 9"	21' 10"	25' 9"	23' 4"	20' 5"	28' 11"	26' 3"	21' 10"
1400S350-97	50	30' 1"	27' 4"	23' 10"	33' 9"	29' 7"	24' 2"	27' 4"	24' 10"	21' 8"	30' 8"	27' 10"	24' 2"
1400S162-118	50	27' 5"	24' 11"	21' 9"	30' 10"	27' 0"	22' 0"	24' 11"	22' 8"	19' 9"	28' 0"	25' 5"	22' 0"
1400S200-118	50	28' 6"	25' 11"	22' 8"	32' 0"	28' 11"	23' 7"	25' 11"	23' 6"	20' 7"	29' 1"	26' 5"	23' 1"
1400S250-118	50	29' 7"	26' 10"	23' 5"	33' 2"	30' 0"	24' 5"	26' 10"	24' 5"	21' 4"	30' 2"	27' 5"	23' 11"
1400S300-118	50	30' 6"	27' 9"	24' 3"	34' 3"	30' 9"	25' 1"	27' 9"	25' 2"	22' 0"	31' 2"	28' 3"	24' 8"
1400S350-118	50	32' 0"	29' 1"	25' 5"	35' 11"	32' 8"	28' 5"	29' 1"	26' 5"	23' 1"	32' 8"	29' 8"	25' 11"
1600S162-68	50	22' 2"	19' 2"	15' 7"	19' 9"	15' 11"	11' 5"	22' 2"	19' 2"	15' 7"	19' 9"	15' 11"	11' 5"
1600S200-68	50	24' 2"	20' 11"	15' 7"	20' 4"	16' 3"	11' 7"	23' 7"	20' 11"	15' 7"	20' 4"	16' 3"	11' 7"
1600S250-68	50	25' 3"	21' 10"	15' 7"	20' 5"	16' 4"	11' 7"	24' 3"	21' 10"	15' 7"	20' 5"	16' 4"	11' 7"
1600S300-68	50	26' 0"	22' 6"	15' 7"	20' 7"	16' 5"	11' 7"	24' 9"	22' 5"	15' 7"	20' 7"	16' 5"	11' 7"
1600S350-68	50	28' 10"	23' 5"	15' 7"	21' 7"	17' 0"	11' 10"	26' 2"	23' 5"	15' 7"	21' 7"	17' 0"	11' 10"
1600S162-97	50	28' 6"	24' 10"	20' 3"	28' 8"	24' 10"	20' 3"	25' 11"	23' 6"	20' 3"	28' 8"	24' 10"	20' 3"
1600S200-97	50	29' 7"	26' 9"	21' 10"	30' 10"	26' 9"	21' 7"	26' 10"	24' 5"	21' 4"	30' 2"	26' 9"	21' 7"
1600S250-97	50	30' 7"	27' 10"	22' 8"	32' 2"	27' 10"	22' 2"	27' 10"	25' 3"	22' 1"	31' 3"	27' 10"	22' 2"
1600S300-97	50	31' 5"	28' 6"	23' 4"	33' 1"	28' 7"	22' 8"	28' 6"	25' 11"	22' 7"	32' 0"	28' 7"	22' 8"
1600S350-97	50	33' 0"	30' 0"	25' 11"	36' 0"	30' 5"	23' 9"	30' 0"	27' 3"	23' 10"	33' 8"	30' 5"	23' 9"
1600S162-118	50	30' 8"	27' 10"	23' 5"	33' 2"	28' 9"	23' 5"	27' 10"	25' 3"	22' 1"	31' 3"	28' 5"	23' 5"
1600S200-118	50	31' 9"	28' 10"	25' 1"	35' 7"	30' 10"	25' 1"	28' 10"	26' 3"	22' 11"	32' 5"	29' 5"	25' 1"
1600S250-118	50	32' 10"	29' 10"	26' 1"	36' 11"	32' 1"	26' 2"	29' 10"	27' 1"	23' 8"	33' 6"	30' 5"	26' 2"
1600S300-118	50	33' 11"	30' 9"	26' 11"	38' 1"	33' 0"	26' 11"	30' 9"	28' 0"	24' 5"	34' 7"	31' 5"	26' 11"
1600S350-118	50	35' 5"	32' 2"	28' 1"	39' 9"	36' 2"	29' 7"	32' 2"	29' 3"	25' 6"	36' 2"	32' 10"	28' 8"

"e" web stiffeners required at ends.

Web stiffeners required at interior supports for 2-span conditions.

See Table Notes on page 19.

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			Two Equal Spans			Single Span			Two Equal Spans		
		Spacing (in) o.c.			Spacing (in) o.c.			Spacing (in) o.c.			Spacing (in) o.c.		
		12	16	24	12	16	24	12	16	24	12	16	24
600S162-33	33	7' 1"	5' 11"	3' 11"	5' 4"	4' 3"	2' 11"	7' 1"	5' 11"	3' 11"	5' 4"	4' 3"	2' 11"
600S200-33	33	7' 7"	5' 11"	3' 11"	5' 5"	4' 3"	3' 0"	7' 7"	5' 11"	3' 11"	5' 5"	4' 3"	3' 0"
600S162-43	33	8' 5"	7' 4"	5' 11"	7' 10"	6' 6"	4' 11"	8' 5"	7' 4"	5' 11"	7' 10"	6' 6"	4' 11"
600S200-43	33	8' 9"	7' 7"	6' 2"	7' 11"	6' 7"	4' 11"	8' 9"	7' 7"	6' 2"	7' 11"	6' 7"	4' 11"
600S250-43	33	9' 0"	7' 10"	6' 4"	8' 1"	6' 8"	5' 0"	9' 0"	7' 10"	6' 4"	8' 1"	6' 8"	5' 0"
600S162-54	50	10' 0"	9' 1"	7' 10"	11' 0"	9' 2"	7' 0"	9' 1"	8' 3"	7' 2"	10' 2"	9' 2"	7' 0"
600S200-54	50	10' 6"	9' 6"	8' 1"	11' 0"	9' 2"	7' 1"	9' 6"	8' 8"	7' 6"	10' 8"	9' 2"	7' 1"
600S250-54	50	10' 10"	9' 10"	8' 4"	11' 2"	9' 5"	7' 2"	9' 10"	8' 11"	7' 9"	11' 0"	9' 5"	7' 2"
600S162-68	50	10' 8"	9' 8"	8' 6"	12' 0"	10' 11"	8' 8"	9' 8"	8' 10"	7' 8"	10' 11"	9' 11"	8' 8"
600S200-68	50	11' 3"	10' 2"	8' 11"	12' 7"	11' 6"	9' 0"	10' 2"	9' 3"	8' 1"	11' 6"	10' 5"	9' 0"
600S250-68	50	11' 9"	10' 8"	9' 4"	13' 2"	11' 3"	8' 10"	10' 8"	9' 8"	8' 5"	12' 0"	10' 10"	8' 10"
600S162-97	50	11' 10"	10' 9"	9' 5"	13' 4"	12' 1"	10' 7"	10' 9"	9' 9"	8' 6"	12' 1"	11' 0"	9' 7"
600S200-97	50	12' 6"	11' 4"	9' 11"	14' 0"	12' 9"	11' 1"	11' 4"	10' 4"	9' 0"	12' 9"	11' 7"	10' 1"
600S250-97	50	13' 1"	11' 11"	10' 5"	14' 9"	13' 4"	11' 6"	11' 11"	10' 10"	9' 5"	13' 4"	12' 2"	10' 7"
600S162-118	50	12' 6"	11' 4"	9' 11"	14' 1"	12' 9"	11' 2"	11' 4"	10' 4"	9' 0"	12' 9"	11' 7"	10' 1"
600S200-118	50	13' 2"	12' 0"	10' 6"	14' 10"	13' 6"	11' 9"	12' 0"	10' 11"	9' 6"	13' 6"	12' 3"	10' 8"
600S250-118	50	13' 11"	12' 7"	11' 0"	15' 7"	14' 2"	12' 3"	12' 7"	11' 5"	10' 0"	14' 2"	12' 10"	11' 3"
800S162-33	33	5' 10"	4' 4"	2' 11"	4' 5"	3' 5"	2' 3"	5' 10"	4' 4"	2' 11"	4' 5"	3' 5"	2' 3"
800S200-33	33	5' 10"	4' 4"	2' 11"	4' 6"	3' 5"	2' 3"	5' 10"	4' 4"	2' 11"	4' 6"	3' 5"	2' 3"
800S162-43	33	9' 8"	8' 4"	6' 6"	7' 11"	6' 5"	4' 8"	9' 8"	8' 4"	6' 6"	7' 11"	6' 5"	4' 8"
800S200-43	33	10' 4"	9' 0"	6' 6"	8' 5"	6' 9"	4' 10"	10' 4"	9' 0"	6' 6"	8' 5"	6' 9"	4' 10"
800S250-43	33	10' 8"	9' 3"	6' 6"	8' 6"	6' 9"	4' 10"	10' 8"	9' 3"	6' 6"	8' 6"	6' 9"	4' 10"
800S162-54	50	12' 5"	10' 11"	8' 11"	12' 0"	10' 1"	7' 8"	11' 4"	10' 3"	8' 11"	12' 0"	10' 1"	7' 8"
800S200-54	50	13' 2"	11' 9"	9' 7"	13' 0"	10' 10"	8' 2"	11' 11"	10' 10"	9' 6"	13' 0"	10' 10"	8' 2"
800S250-54	50	13' 7"	12' 0"	9' 10"	13' 1"	10' 10"	8' 2"	12' 4"	11' 2"	9' 9"	13' 1"	10' 10"	8' 2"
800S162-68	50	13' 6"	12' 3"	10' 4"	14' 7"	12' 6"	9' 10"	12' 3"	11' 1"	9' 8"	13' 3"	12' 6"	9' 10"
800S200-68	50	14' 2"	12' 10"	11' 2"	15' 10"	14' 0"	10' 11"	12' 10"	11' 8"	10' 2"	14' 5"	13' 1"	10' 11"
800S250-68	50	14' 8"	13' 4"	11' 4"	16' 0"	13' 8"	10' 8"	13' 4"	12' 1"	10' 7"	15' 0"	13' 7"	10' 8"
800S162-97	50	15' 0"	13' 7"	11' 11"	16' 10"	15' 3"	12' 7"	13' 7"	12' 4"	10' 10"	15' 3"	13' 11"	12' 2"
800S200-97	50	15' 9"	14' 3"	12' 6"	17' 8"	16' 0"	14' 0"	14' 3"	13' 0"	11' 4"	16' 0"	14' 7"	12' 9"
800S250-97	50	16' 5"	14' 11"	13' 0"	18' 5"	16' 9"	14' 8"	14' 11"	13' 7"	11' 10"	16' 9"	15' 3"	13' 4"
800S162-118	50	15' 10"	14' 5"	12' 7"	17' 10"	16' 2"	14' 2"	14' 5"	13' 1"	11' 5"	16' 2"	14' 8"	12' 10"
800S200-118	50	16' 8"	15' 2"	13' 3"	18' 8"	17' 0"	14' 10"	15' 2"	13' 9"	12' 0"	17' 0"	15' 5"	13' 6"
800S250-118	50	17' 5"	15' 10"	13' 10"	19' 7"	17' 9"	15' 6"	15' 10"	14' 5"	12' 7"	17' 9"	16' 2"	14' 1"
1000S162-43	33	10' 4"	7' 9"	5' 2"	7' 5"	5' 9"	4' 0"	10' 4"	7' 9"	5' 2"	7' 5"	5' 9"	4' 0"
1000S200-43	33	10' 4"	7' 9"	5' 2"	7' 6"	5' 10"	4' 0"	10' 4"	7' 9"	5' 2"	7' 6"	5' 10"	4' 0"
1000S250-43	33	10' 4"	7' 9"	5' 2"	7' 8"	5' 11"	4' 0"	10' 4"	7' 9"	5' 2"	7' 8"	5' 11"	4' 0"
1000S162-54	50	14' 2"	12' 3"	10' 0"	12' 3"	10' 0"	7' 3"	13' 5"	12' 2"	10' 0"	12' 3"	10' 0"	7' 3"
1000S200-54	50	15' 3"	13' 3"	10' 3"	12' 7"	10' 2"	7' 4"	14' 0"	12' 9"	10' 3"	12' 7"	10' 2"	7' 4"
1000S250-54	50	15' 9"	13' 7"	10' 3"	12' 11"	10' 5"	7' 6"	14' 8"	13' 4"	10' 3"	12' 11"	10' 5"	7' 6"
1000S162-68	50	16' 1"	14' 2"	11' 7"	16' 5"	13' 11"	10' 10"	14' 7"	13' 3"	11' 7"	16' 4"	13' 11"	10' 10"
1000S200-68	50	16' 9"	15' 3"	12' 5"	17' 3"	14' 7"	11' 4"	15' 3"	13' 10"	12' 1"	17' 1"	14' 7"	11' 4"
1000S250-68	50	17' 7"	15' 8"	12' 9"	18' 2"	15' 4"	11' 10"	15' 11"	14' 6"	12' 8"	17' 11"	15' 4"	11' 10"
1000S162-97	50	18' 1"	16' 5"	14' 4"	20' 3"	17' 11"	14' 8"	16' 5"	14' 11"	13' 0"	18' 5"	16' 9"	14' 7"
1000S200-97	50	18' 10"	17' 2"	15' 0"	21' 2"	19' 2"	15' 7"	17' 2"	15' 7"	13' 7"	19' 3"	17' 6"	15' 3"
1000S250-97	50	19' 8"	17' 10"	15' 7"	22' 1"	20' 1"	16' 9"	17' 10"	16' 3"	14' 2"	20' 1"	18' 2"	15' 11"
1000S162-118	50	19' 2"	17' 5"	15' 2"	21' 6"	19' 6"	16' 6"	17' 5"	15' 9"	13' 9"	19' 6"	17' 9"	15' 6"
1000S200-118	50	20' 0"	18' 2"	15' 10"	22' 6"	20' 5"	17' 7"	18' 2"	16' 6"	14' 5"	20' 5"	18' 6"	16' 2"
1000S250-118	50	20' 10"	18' 11"	16' 6"	23' 5"	21' 3"	18' 7"	18' 11"	17' 2"	15' 0"	21' 3"	19' 4"	16' 10"

"e" web stiffeners required at ends.

Web stiffeners required at interior supports for 2-span conditions.

See Table Notes on page 19.

15 psf Dead Load and 125 psf Live Load

Section	Fy (ksi)	L/360 Live Load Deflection						L/480 Live Load Deflection					
		Single Span			Two Equal Spans			Single Span			Two Equal Spans		
		Spacing (in) o.c.			Spacing (in) o.c.			Spacing (in) o.c.			Spacing (in) o.c.		
		12	16	24	12	16	24	12	16	24	12	16	24
1200S162-54	50	15' 4"	12' 9"	8' 6"	11' 9"	9' 3"	6' 6"	15' 4"	12' 9"	8' 6"	11' 9"	9' 3"	6' 6"
1200S200-54	50	16' 8"	12' 9"	8' 6"	12' 0"	9' 5"	6' 6"	16' 1"	12' 9"	8' 6"	12' 0"	9' 5"	6' 6"
1200S250-54	50	17' 1"	12' 9"	8' 6"	12' 1"	9' 5"	6' 6"	16' 6"	12' 9"	8' 6"	12' 1"	9' 5"	6' 6"
1200S162-68	50	17' 10"	15' 5"	12' 7"	17' 3"	14' 4"	10' 10"	16' 10"	15' 3"	12' 7"	17' 3"	14' 4"	10' 10"
1200S200-68	50	19' 3"	16' 8"	13' 7"	18' 0"	14' 11"	11' 2"	17' 6"	15' 11"	13' 7"	18' 0"	14' 11"	11' 2"
1200S250-68	50	19' 11"	17' 3"	14' 1"	18' 1"	15' 0"	11' 2"	18' 2"	16' 6"	14' 1"	18' 1"	15' 0"	11' 2"
1200S162-97	50	21' 0"	19' 1"	16' 1"	22' 9"	19' 9"	16' 1"	19' 1"	17' 4"	15' 2"	21' 5"	19' 5"	16' 1"
1200S200-97	50	21' 10"	19' 10"	17' 3"	24' 5"	21' 1"	17' 3"	19' 10"	18' 0"	15' 9"	22' 4"	20' 3"	17' 3"
1200S250-97	50	22' 8"	20' 8"	17' 10"	25' 3"	21' 10"	17' 10"	20' 8"	18' 9"	16' 4"	23' 2"	21' 1"	17' 10"
1200S162-118	50	22' 4"	20' 4"	17' 9"	25' 1"	22' 7"	18' 5"	20' 4"	18' 5"	16' 1"	22' 10"	20' 9"	18' 1"
1200S200-118	50	23' 4"	21' 2"	18' 6"	26' 2"	23' 9"	19' 8"	21' 2"	19' 3"	16' 9"	23' 9"	21' 7"	18' 10"
1200S250-118	50	24' 2"	22' 0"	19' 2"	27' 2"	24' 8"	20' 4"	22' 0"	20' 0"	17' 5"	24' 8"	22' 5"	19' 7"
1200S300-118	50	24' 11"	22' 8"	19' 10"	28' 0"	25' 5"	21' 8"	22' 8"	20' 7"	18' 0"	25' 5"	23' 1"	20' 2"
1200S350-118	50	26' 3"	23' 10"	20' 10"	29' 6"	26' 9"	23' 5"	23' 10"	21' 8"	18' 11"	26' 9"	24' 4"	21' 3"
1400S162-54	50	14' 7"	10' 11"	7' 3"	10' 10"	8' 4"	5' 8"	14' 7"	10' 11"	7' 3"	10' 10"	8' 4"	5' 8"
1400S200-54	50	14' 7"	10' 11"	7' 3"	10' 11"	8' 5"	5' 8"	14' 7"	10' 11"	7' 3"	10' 11"	8' 5"	5' 8"
1400S250-54	50	14' 7"	10' 11"	7' 3"	11' 0"	8' 5"	5' 8"	14' 7"	10' 11"	7' 3"	11' 0"	8' 5"	5' 8"
1400S300-54	50	14' 7"	10' 11"	7' 3"	11' 0"	8' 5"	5' 8"	14' 7"	10' 11"	7' 3"	11' 0"	8' 5"	5' 8"
1400S350-54	50	14' 7"	10' 11"	7' 3"	11' 3"	8' 6"	5' 9"	14' 7"	10' 11"	7' 3"	11' 3"	8' 6"	5' 9"
1400S162-68	50	19' 0"	16' 6"	13' 5"	17' 5"	14' 2"	10' 4"	18' 11"	16' 6"	13' 5"	17' 5"	14' 2"	10' 4"
1400S200-68	50	20' 8"	17' 11"	14' 7"	18' 0"	14' 7"	10' 6"	19' 9"	17' 11"	14' 7"	18' 0"	14' 7"	10' 6"
1400S250-68	50	21' 6"	18' 7"	14' 8"	18' 1"	14' 7"	10' 6"	20' 5"	18' 6"	14' 8"	18' 1"	14' 7"	10' 6"
1400S300-68	50	22' 0"	19' 1"	14' 8"	18' 3"	14' 9"	10' 7"	20' 9"	18' 10"	14' 8"	18' 3"	14' 9"	10' 7"
1400S350-68	50	24' 8"	21' 4"	14' 8"	19' 6"	15' 6"	10' 11"	22' 4"	20' 4"	14' 8"	19' 6"	15' 6"	10' 11"
1400S162-97	50	23' 9"	21' 2"	17' 3"	24' 6"	21' 2"	17' 3"	21' 7"	19' 7"	17' 2"	24' 3"	21' 2"	17' 3"
1400S200-97	50	24' 9"	22' 5"	18' 7"	26' 4"	22' 9"	18' 6"	22' 5"	20' 5"	17' 10"	25' 2"	22' 9"	18' 6"
1400S250-97	50	25' 7"	23' 3"	19' 3"	27' 4"	23' 8"	19' 0"	23' 3"	21' 2"	18' 6"	26' 2"	23' 8"	19' 0"
1400S300-97	50	26' 3"	23' 11"	19' 9"	28' 0"	24' 3"	19' 6"	23' 11"	21' 8"	18' 11"	26' 10"	24' 3"	19' 6"
1400S350-97	50	27' 11"	25' 4"	21' 10"	30' 11"	26' 9"	21' 6"	25' 4"	23' 0"	20' 1"	28' 6"	25' 10"	21' 6"
1400S162-118	50	25' 6"	23' 2"	19' 11"	28' 3"	24' 5"	19' 11"	23' 2"	21' 0"	18' 4"	26' 0"	23' 7"	19' 11"
1400S200-118	50	26' 6"	24' 1"	21' 0"	29' 9"	26' 1"	21' 4"	24' 1"	21' 10"	19' 1"	27' 0"	24' 6"	21' 4"
1400S250-118	50	27' 5"	24' 11"	21' 9"	30' 10"	27' 1"	22' 1"	24' 11"	22' 8"	19' 9"	28' 0"	25' 5"	22' 1"
1400S300-118	50	28' 4"	25' 9"	22' 6"	31' 10"	27' 10"	22' 8"	25' 9"	23' 4"	20' 5"	28' 11"	26' 3"	22' 8"
1400S350-118	50	29' 8"	27' 0"	23' 7"	33' 4"	30' 3"	25' 9"	27' 0"	24' 6"	21' 5"	30' 3"	27' 6"	24' 0"
1600S162-68	50	20' 0"	17' 4"	12' 9"	17' 0"	13' 6"	9' 7"	20' 0"	17' 4"	12' 9"	17' 0"	13' 6"	9' 7"
1600S200-68	50	21' 10"	18' 11"	12' 9"	17' 5"	13' 10"	9' 8"	21' 10"	18' 11"	12' 9"	17' 5"	13' 10"	9' 8"
1600S250-68	50	22' 10"	19' 2"	12' 9"	17' 6"	13' 10"	9' 8"	22' 7"	19' 2"	12' 9"	17' 6"	13' 10"	9' 8"
1600S300-68	50	23' 6"	19' 2"	12' 9"	17' 7"	13' 11"	9' 8"	22' 11"	19' 2"	12' 9"	17' 7"	13' 11"	9' 8"
1600S350-68	50	25' 7"	19' 2"	12' 9"	18' 3"	14' 3"	9' 10"	24' 4"	19' 2"	12' 9"	18' 3"	14' 3"	9' 10"
1600S162-97	50	25' 11"	22' 5"	18' 4"	25' 11"	22' 5"	18' 2"	24' 0"	21' 10"	18' 4"	25' 11"	22' 5"	18' 2"
1600S200-97	50	27' 5"	24' 2"	19' 9"	27' 11"	24' 2"	19' 1"	24' 11"	22' 8"	19' 9"	27' 11"	24' 2"	19' 1"
1600S250-97	50	28' 5"	25' 2"	20' 6"	29' 1"	25' 1"	19' 7"	25' 10"	23' 5"	20' 6"	29' 0"	25' 1"	19' 7"
1600S300-97	50	29' 2"	25' 11"	21' 1"	29' 11"	25' 8"	20' 0"	26' 6"	24' 0"	21' 0"	29' 9"	25' 8"	20' 0"
1600S350-97	50	30' 8"	27' 10"	23' 5"	32' 1"	27' 0"	20' 10"	27' 10"	25' 4"	22' 1"	31' 3"	27' 0"	20' 10"
1600S162-118	50	28' 5"	25' 10"	21' 2"	30' 0"	26' 0"	21' 2"	25' 10"	23' 6"	20' 6"	29' 0"	26' 0"	21' 2"
1600S200-118	50	29' 6"	26' 9"	22' 9"	32' 2"	27' 10"	22' 9"	26' 9"	24' 4"	21' 3"	30' 1"	27' 4"	22' 9"
1600S250-118	50	30' 6"	27' 8"	23' 8"	33' 6"	29' 0"	23' 8"	27' 8"	25' 2"	22' 0"	31' 1"	28' 3"	23' 8"
1600S300-118	50	31' 5"	28' 7"	24' 4"	34' 5"	29' 10"	24' 4"	28' 7"	25' 11"	22' 8"	32' 1"	29' 2"	24' 4"
1600S350-118	50	32' 10"	29' 10"	26' 1"	36' 11"	32' 9"	26' 9"	29' 10"	27' 2"	23' 8"	33' 6"	30' 6"	26' 7"

"e" web stiffeners required at ends.

Web stiffeners required at interior supports for 2-span conditions.

See Table Notes on page 19.

40 psf Dead Load and 100 psf Live Load

Section	F _y (ksi)	L/360 Live Load Deflection						L/480 Live Load Deflection					
		Single Span			Two Equal Spans			Single Span			Two Equal Spans		
		Spacing (in) o.c.			Spacing (in) o.c.			Spacing (in) o.c.			Spacing (in) o.c.		
		12	16	24	12	16	24	12	16	24	12	16	24
600S162-33	33	7' 3"	6' 1"	4' 1"	5' 6"	4' 4"	3' 0"	7' 3"	6' 1"	4' 1"	5' 6"	4' 4"	3' 0"
600S200-33	33	7' 9"	6' 1"	4' 1"	5' 7"	4' 5"	3' 1"	7' 9"	6' 1"	4' 1"	5' 7"	4' 5"	3' 1"
600S162-43	33	8' 7"	7' 5"	6' 1"	8' 0"	6' 8"	5' 0"	8' 7"	7' 5"	6' 1"	8' 0"	6' 8"	5' 0"
600S200-43	33	8' 10"	7' 8"	6' 3"	8' 1"	6' 9"	5' 1"	8' 10"	7' 8"	6' 3"	8' 1"	6' 9"	5' 1"
600S250-43	33	9' 2"	7' 11"	6' 5"	8' 3"	6' 10"	5' 1"	9' 2"	7' 11"	6' 5"	8' 3"	6' 10"	5' 1"
600S162-54	50	10' 9"	9' 9"	8' 0"	11' 2"	9' 4"	7' 2"	9' 9"	8' 10"	7' 9"	10' 11"	9' 4"	7' 2"
600S200-54	50	11' 3"	10' 1"	8' 3"	11' 2"	9' 5"	7' 2"	10' 3"	9' 4"	8' 1"	11' 2"	9' 5"	7' 2"
600S250-54	50	11' 8"	10' 4"	8' 5"	11' 5"	9' 7"	7' 4"	10' 7"	9' 7"	8' 5"	11' 5"	9' 7"	7' 4"
600S162-68	50	11' 6"	10' 5"	9' 1"	12' 11"	11' 3"	8' 10"	10' 5"	9' 6"	8' 3"	11' 9"	10' 8"	8' 10"
600S200-68	50	12' 1"	11' 0"	9' 7"	13' 7"	11' 9"	9' 2"	11' 0"	10' 0"	8' 9"	12' 4"	11' 3"	9' 2"
600S250-68	50	12' 8"	11' 6"	9' 9"	13' 6"	11' 6"	9' 0"	11' 6"	10' 5"	9' 1"	12' 11"	11' 6"	9' 0"
600S162-97	50	12' 9"	11' 7"	10' 1"	14' 4"	13' 0"	10' 10"	11' 7"	10' 6"	9' 2"	13' 0"	11' 10"	10' 4"
600S200-97	50	13' 5"	12' 3"	10' 8"	15' 1"	13' 9"	11' 5"	12' 3"	11' 1"	9' 8"	13' 9"	12' 5"	10' 11"
600S250-97	50	14' 1"	12' 10"	11' 2"	15' 10"	14' 5"	11' 9"	12' 10"	11' 8"	10' 2"	14' 5"	13' 1"	11' 5"
600S162-118	50	13' 6"	12' 3"	10' 8"	15' 2"	13' 9"	11' 7"	12' 3"	11' 1"	9' 8"	13' 9"	12' 6"	10' 11"
600S200-118	50	14' 3"	12' 11"	11' 3"	16' 0"	14' 6"	12' 2"	12' 11"	11' 9"	10' 3"	14' 6"	13' 2"	11' 6"
600S250-118	50	14' 11"	13' 7"	11' 10"	16' 10"	15' 3"	12' 6"	13' 7"	12' 4"	10' 9"	15' 3"	13' 10"	12' 1"
800S162-33	33	6' 0"	4' 6"	3' 0"	4' 7"	3' 6"	2' 4"	6' 0"	4' 6"	3' 0"	4' 7"	3' 6"	2' 4"
800S200-33	33	6' 0"	4' 6"	3' 0"	4' 8"	3' 6"	2' 4"	6' 0"	4' 6"	3' 0"	4' 8"	3' 6"	2' 4"
800S162-43	33	9' 10"	8' 6"	6' 8"	8' 1"	6' 7"	4' 9"	9' 10"	8' 6"	6' 8"	8' 1"	6' 7"	4' 9"
800S200-43	33	10' 6"	9' 1"	6' 8"	8' 8"	6' 11"	4' 11"	10' 6"	9' 1"	6' 8"	8' 8"	6' 11"	4' 11"
800S250-43	33	10' 10"	9' 5"	6' 8"	8' 8"	6' 11"	4' 11"	10' 10"	9' 5"	6' 8"	8' 8"	6' 11"	4' 11"
800S162-54	50	12' 10"	11' 1"	9' 1"	12' 3"	10' 3"	7' 10"	12' 2"	11' 1"	9' 1"	12' 3"	10' 3"	7' 10"
800S200-54	50	13' 9"	11' 11"	9' 8"	13' 3"	11' 0"	8' 4"	12' 10"	11' 8"	9' 8"	13' 3"	11' 0"	8' 4"
800S250-54	50	14' 1"	12' 3"	9' 11"	13' 4"	11' 1"	8' 4"	13' 3"	12' 0"	9' 11"	13' 4"	11' 1"	8' 4"
800S162-68	50	14' 6"	12' 10"	10' 6"	14' 10"	12' 9"	10' 0"	13' 2"	12' 0"	10' 5"	14' 10"	12' 9"	10' 0"
800S200-68	50	15' 3"	13' 10"	11' 7"	16' 5"	14' 2"	11' 1"	13' 10"	12' 7"	11' 0"	15' 6"	14' 1"	11' 1"
800S250-68	50	15' 10"	14' 1"	11' 6"	16' 3"	13' 11"	10' 11"	14' 5"	13' 1"	11' 5"	16' 2"	13' 11"	10' 11"
800S162-97	50	16' 2"	14' 8"	12' 10"	18' 2"	15' 11"	12' 10"	14' 8"	13' 4"	11' 8"	16' 6"	15' 0"	12' 10"
800S200-97	50	16' 11"	15' 5"	13' 5"	16' 11"	15' 5"	13' 5"	15' 5"	14' 0"	12' 2"	17' 3"	15' 8"	13' 8"
800S250-97	50	17' 8"	16' 1"	14' 1"	19' 11"	18' 1"	14' 11"	16' 1"	14' 7"	12' 9"	18' 1"	16' 5"	14' 4"
800S162-118	50	17' 1"	15' 6"	13' 7"	19' 2"	17' 5"	15' 3"	15' 6"	14' 1"	12' 4"	17' 5"	15' 10"	13' 10"
800S200-118	50	17' 11"	16' 4"	14' 3"	20' 2"	18' 4"	16' 0"	16' 4"	14' 10"	12' 11"	18' 4"	16' 8"	14' 6"
800S250-118	50	18' 9"	17' 1"	14' 11"	21' 1"	19' 2"	16' 9"	17' 1"	15' 6"	13' 6"	19' 2"	17' 5"	15' 2"
1000S162-43	33	10' 8"	8' 0"	5' 4"	7' 7"	5' 11"	4' 1"	10' 8"	8' 0"	5' 4"	7' 7"	5' 11"	4' 1"
1000S200-43	33	10' 8"	8' 0"	5' 4"	7' 9"	6' 0"	4' 1"	10' 8"	8' 0"	5' 4"	7' 9"	6' 0"	4' 1"
1000S250-43	33	10' 8"	8' 0"	5' 4"	7' 10"	6' 1"	4' 2"	10' 8"	8' 0"	5' 4"	7' 10"	6' 1"	4' 2"
1000S162-54	50	14' 5"	12' 5"	10' 2"	12' 7"	10' 3"	7' 5"	14' 5"	12' 5"	10' 2"	12' 7"	10' 3"	7' 5"
1000S200-54	50	15' 6"	13' 5"	10' 7"	12' 10"	10' 5"	7' 7"	15' 2"	13' 5"	10' 7"	12' 10"	10' 5"	7' 7"
1000S250-54	50	16' 0"	13' 10"	10' 7"	13' 3"	10' 8"	7' 8"	15' 10"	13' 10"	10' 7"	13' 3"	10' 8"	7' 8"
1000S162-68	50	16' 8"	14' 5"	11' 9"	16' 8"	14' 2"	11' 1"	15' 8"	14' 3"	11' 9"	16' 8"	14' 2"	11' 1"
1000S200-68	50	17' 11"	15' 6"	12' 7"	17' 7"	14' 10"	11' 6"	16' 5"	14' 11"	12' 7"	17' 7"	14' 10"	11' 6"
1000S250-68	50	18' 5"	15' 11"	13' 0"	18' 5"	15' 8"	12' 1"	17' 2"	15' 7"	13' 0"	18' 5"	15' 8"	12' 1"
1000S162-97	50	19' 6"	17' 8"	14' 10"	21' 1"	18' 3"	14' 10"	17' 8"	16' 1"	14' 0"	19' 10"	18' 0"	14' 10"
1000S200-97	50	20' 4"	18' 6"	15' 10"	22' 5"	19' 5"	15' 10"	18' 6"	16' 9"	14' 8"	20' 9"	18' 10"	15' 10"
1000S250-97	50	21' 2"	19' 3"	16' 9"	23' 9"	20' 10"	17' 0"	19' 3"	17' 6"	15' 3"	21' 7"	19' 7"	17' 0"
1000S162-118	50	20' 7"	18' 9"	16' 4"	23' 2"	20' 8"	16' 10"	18' 9"	17' 0"	14' 10"	21' 0"	19' 1"	16' 8"
1000S200-118	50	21' 7"	19' 7"	17' 1"	24' 2"	22' 0"	17' 11"	19' 7"	17' 9"	15' 6"	22' 0"	20' 0"	17' 5"
1000S250-118	50	22' 6"	20' 5"	17' 10"	25' 3"	22' 11"	19' 6"	20' 5"	18' 6"	16' 2"	22' 11"	20' 10"	18' 2"

"e" web stiffeners required at ends.

Web stiffeners required at interior supports for 2-span conditions.

See Table Notes on page 19.

40 psf Dead Load and 100 psf Live Load

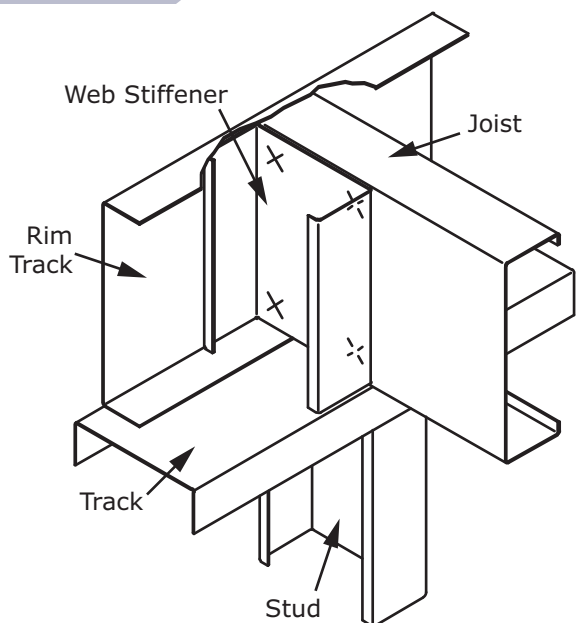
Section	F _y (ksi)	L/360 Live Load Deflection						L/480 Live Load Deflection					
		Single Span			Two Equal Spans			Single Span			Two Equal Spans		
		Spacing (in) o.c.			Spacing (in) o.c.			Spacing (in) o.c.			Spacing (in) o.c.		
		12	16	24	12	16	24	12	16	24	12	16	24
1200S162-54	50	15' 7"	13' 2"	8'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

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			Two Equal Spans			Single Span			Two Equal Spans		
		Spacing (in) o.c.			Spacing (in) o.c.			Spacing (in) o.c.			Spacing (in) o.c.		
		12	16	24	12	16	24	12	16	24	12	16	24
600S162-33	33	6' 7"	5' 1"	3' 5"	4' 9"	3' 9"	2' 7"	6' 7"	5' 1"	3' 5"	4' 9"	3' 9"	2' 7"
600S200-33	33	6' 10"	5' 1"	3' 5"	4' 10"	3' 9"	2' 7"	6' 10"	5' 1"	3' 5"	4' 10"	3' 9"	2' 7"
600S162-43	33	7' 11"	6' 10"	5' 7"	7' 2"	5' 11"	4' 5"	7' 11"	6' 10"	5' 7"	7' 2"	5' 11"	4' 5"
600S200-43	33	8' 2"	7' 0"	5' 9"	7' 3"	6' 0"	4' 5"	8' 2"	7' 0"	5' 9"	7' 3"	6' 0"	4' 5"
600S250-43	33	8' 5"	7' 3"	5' 11"	7' 5"	6' 1"	4' 6"	8' 5"	7' 3"	5' 11"	7' 5"	6' 1"	4' 6"
600S162-54	50	10' 0"	9' 0"	7' 4"	10' 1"	8' 5"	6' 5"	9' 1"	8' 3"	7' 2"	10' 1"	8' 5"	6' 5"
600S200-54	50	10' 6"	9' 3"	7' 7"	10' 1"	8' 5"	6' 5"	9' 6"	8' 8"	7' 6"	10' 1"	8' 5"	6' 5"
600S250-54	50	10' 10"	9' 6"	7' 9"	10' 3"	8' 7"	6' 6"	9' 10"	8' 11"	7' 9"	10' 3"	8' 7"	6' 6"
600S162-68	50	10' 8"	9' 8"	8' 6"	12' 0"	10' 2"	7' 11"	9' 8"	8' 10"	7' 8"	10' 11"	9' 11"	7' 11"
600S200-68	50	11' 3"	10' 2"	8' 11"	12' 7"	10' 7"	8' 3"	10' 2"	9' 3"	8' 1"	11' 6"	10' 5"	8' 3"
600S250-68	50	11' 9"	10' 8"	8' 11"	12' 3"	10' 5"	8' 1"	10' 8"	9' 8"	8' 5"	12' 0"	10' 5"	8' 1"
600S162-97	50	11' 10"	10' 9"	9' 5"	13' 4"	12' 1"	9' 9"	10' 9"	9' 9"	8' 6"	12' 1"	11' 0"	9' 7"
600S200-97	50	12' 6"	11' 4"	9' 11"	14' 0"	12' 9"	10' 3"	11' 4"	10' 4"	9' 0"	12' 9"	11' 7"	10' 1"
600S250-97	50	13' 1"	11' 11"	10' 5"	14' 9"	13' 4"	10' 6"	11' 11"	10' 10"	9' 5"	13' 4"	12' 2"	10' 6"
600S162-118	50	12' 6"	11' 4"	9' 11"	14' 1"	12' 9"	10' 4"	11' 4"	10' 4"	9' 0"	12' 9"	11' 7"	10' 1"
600S200-118	50	13' 2"	12' 0"	10' 6"	14' 10"	13' 6"	10' 10"	12' 0"	10' 11"	9' 6"	13' 6"	12' 3"	10' 8"
600S250-118	50	13' 11"	12' 7"	11' 0"	15' 7"	14' 2"	11' 2"	12' 7"	11' 5"	10' 0"	14' 2"	12' 10"	11' 2"
800S162-33	33	5' 1"	3' 9"	2' 6"	3' 11"	3' 0"	2' 0"	5' 1"	3' 9"	2' 6"	3' 11"	3' 0"	2' 0"
800S200-33	33	5' 1"	3' 9"	2' 6"	3' 11"	3' 0"	2' 0"	5' 1"	3' 9"	2' 6"	3' 11"	3' 0"	2' 0"
800S162-43	33	9' 0"	7' 9"	5' 7"	7' 2"	5' 9"	4' 1"	9' 0"	7' 9"	5' 7"	7' 2"	5' 9"	4' 1"
800S200-43	33	9' 8"	8' 4"	5' 7"	7' 7"	6' 0"	4' 3"	9' 8"	8' 4"	5' 7"	7' 7"	6' 0"	4' 3"
800S250-43	33	9' 11"	8' 5"	5' 7"	7' 7"	6' 0"	4' 3"	9' 11"	8' 5"	5' 7"	7' 7"	6' 0"	4' 3"
800S162-54	50	11' 9"	10' 2"	8' 4"	11' 0"	9' 2"	6' 11"	11' 4"	10' 2"	8' 4"	11' 0"	9' 2"	6' 11"
800S200-54	50	12' 7"	10' 11"	8' 11"	11' 11"	9' 10"	7' 4"	11' 11"	10' 10"	8' 11"	11' 11"	9' 10"	7' 4"
800S250-54	50	12' 11"	11' 2"	9' 2"	11' 11"	9' 10"	7' 4"	12' 4"	11' 2"	9' 2"	11' 11"	9' 10"	7' 4"
800S162-68	50	13' 6"	11' 9"	9' 7"	13' 7"	11' 6"	9' 0"	12' 3"	11' 1"	9' 7"	13' 7"	11' 6"	9' 0"
800S200-68	50	14' 2"	12' 10"	10' 7"	15' 0"	12' 10"	9' 11"	12' 10"	11' 8"	10' 2"	14' 5"	12' 10"	9' 11"
800S250-68	50	14' 8"	12' 11"	10' 6"	14' 11"	12' 7"	9' 9"	13' 4"	12' 1"	10' 6"	14' 11"	12' 7"	9' 9"
800S162-97	50	15' 0"	13' 7"	11' 11"	16' 10"	14' 7"	11' 8"	13' 7"	12' 4"	10' 10"	15' 3"	13' 11"	11' 8"
800S200-97	50	15' 9"	14' 3"	12' 6"	17' 8"	16' 0"	13' 2"	14' 3"	13' 0"	11' 4"	16' 0"	14' 7"	12' 9"
800S250-97	50	16' 5"	14' 11"	13' 0"	18' 5"	16' 9"	13' 6"	14' 11"	13' 7"	11' 10"	16' 9"	15' 3"	13' 4"
800S162-118	50	15' 10"	14' 5"	12' 7"	17' 10"	16' 2"	14' 0"	14' 5"	13' 1"	11' 5"	16' 2"	14' 8"	12' 10"
800S200-118	50	16' 8"	15' 2"	13' 3"	18' 8"	17' 0"	14' 9"	15' 2"	13' 9"	12' 0"	17' 0"	15' 5"	13' 6"
800S250-118	50	17' 5"	15' 10"	13' 10"	19' 7"	17' 9"	15' 3"	15' 10"	14' 5"	12' 7"	17' 9"	16' 2"	14' 1"
1000S162-43	33	9' 0"	6' 9"	4' 6"	6' 7"	5' 1"	3' 6"	9' 0"	6' 9"	4' 6"	6' 7"	5' 1"	3' 6"
1000S200-43	33	9' 0"	6' 9"	4' 6"	6' 8"	5' 2"	3' 6"	9' 0"	6' 9"	4' 6"	6' 8"	5' 2"	3' 6"
1000													

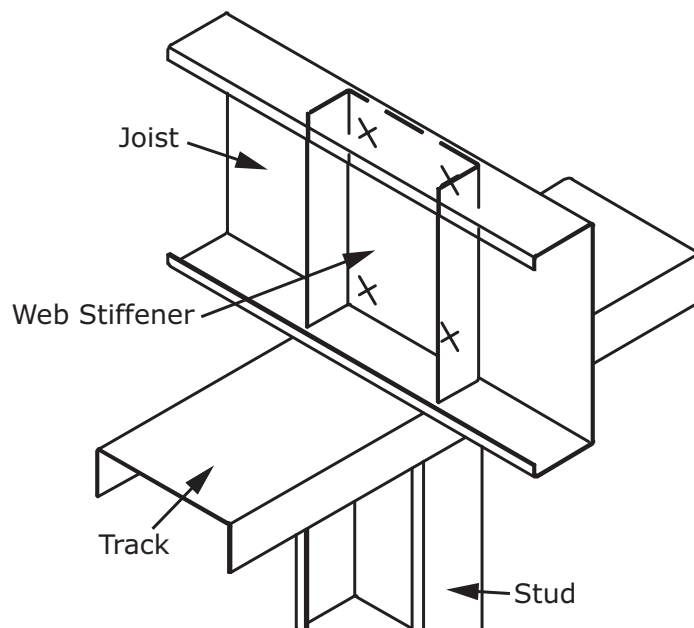
40 psf Dead Load and 125 psf Live Load

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

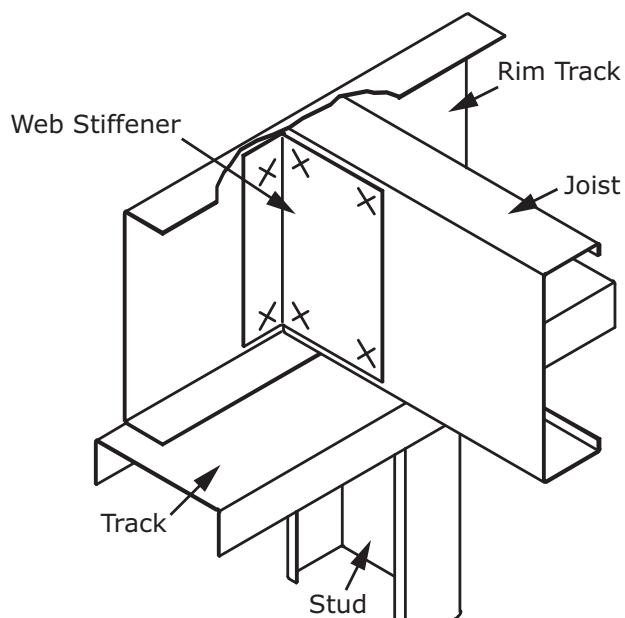


Stud Stiffener on Back of Joist

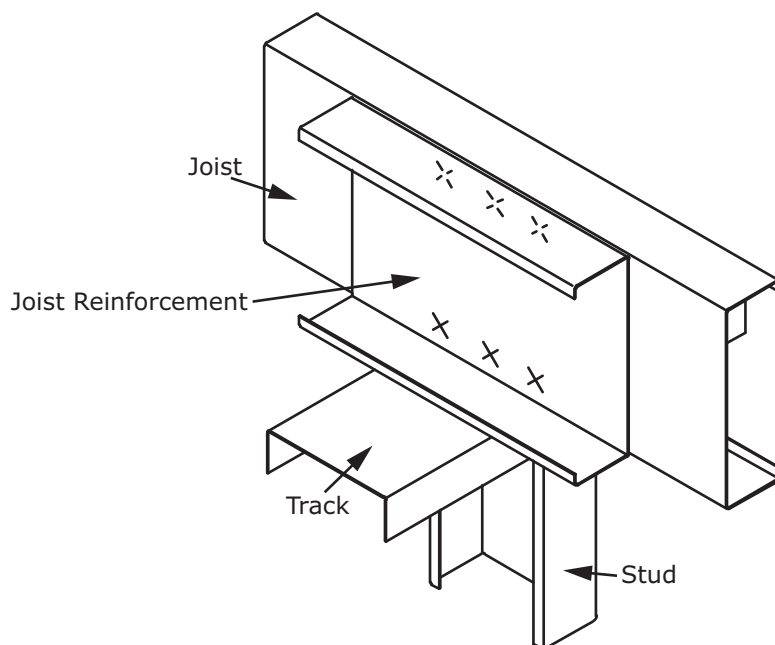
General Note:
All connections should be designed by a licensed design professional.



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

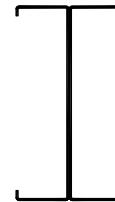
Bearing stiffeners must be designed in accordance with AISI S100 section C3.7.

Table Notes

1. Listed loads for Strength and Deflection (L/360) are unfactored.
2. Compare listed load for Strength with factored load effect, R_f (AISI Eq'n A6.1.1-1).
3. Overall load limit is the minimum of the listed load for strength or deflection.
4. For deflection limits other than L/360 listed load for L/360 may be multiplied by the ratio of 360 to the required deflection limit. For example, for a deflection limit of L/240, multiply the listed load for L/360 by 360/240.
5. Headers consist of two members, boxed or back-to-back.
6. Nominal resistance for moment, shear and web crippling as well as moment of inertia are based on twice the value for a single member
7. For distortional buckling moment, $K_p = 0$.
8. Web crippling check based on 1" end bearing. Where listed allowable loads are followed by "e" web stiffeners are required.
9. Web crippling and shear checks are based on unpunched webs. If web punchouts occur near supports members must be checked for reduced shear and web crippling in accordance with the NASPEC.
10. Members are assumed adequately braced to develop their full flexural strength.
11. Allowable loads are for simply supported headers with uniform bending loads only.
12. See page 5 for additional table notes.



Boxed Header



Back-to-Back Header

Header Uniform Loads (PLF)

Section	F _y (ksi)	Span											
		3 (ft)		4 (ft)		5 (ft)		6 (ft)		8 (ft)		10 (ft)	
		Strength	L/360	Strength	L/360	Strength	L/360	Strength	L/360	Strength	L/360	Strength	L/360
550S162-33	33	1192e	4722	894e	1992	653e	1020	454e	590	255e	249	163e	127
550S162-43	33	2645e	6096	1554e	2572	995e	1317	691e	762	389e	321	249e	165
550S162-54	50	4947e	7524	2782e	3174	1781e	1625	1237e	941	696e	397	445e	203
550S162-68	50	6789e	9263	3819e	3908	2444e	2001	1697e	1158	955e	488	611e	250
600S137-33	33	1089e	4986	817e	2104	620e	1077	430e	623	242e	263	155e	135
600S162-33	33	1089e	5804	817e	2449	653e	1254	498e	725	280e	306	179e	157
600S200-33	33	1089e	6615	817e	2791	653e	1429	544e	827	318e	349	204e	179
600S137-43	33	2416e	6592	1398e	2781	895e	1424	621e	824	350e	348	224e	178
600S162-43	33	2416e	7497	1711e	3163	1095e	1619	760e	937	428e	395	274e	202
600S200-43	33	2416e	8685	1812e	3664	1165e	1876	809e	1086	455e	458	291e	234
600S250-43	33	2416e	9914	1812e	4182	1227e	2141	852e	1239	479e	523	307e	268
600S137-54	50	4467e	8148	2513e	3438	1608e	1760	1117e	1019	628e	430	402e	220
600S162-54	50	4818e	9260	3064e	3907	1961e	2000	1362e	1157	766e	488	490e	250
600S200-54	50	4818e	10746	3239e	4533	2073e	2321	1440e	1343	810e	567	518e	290
600S250-54	50	4818e	11858	3396e	5002	2174e	2561	1510e	1482	849e	625	543e	320
600S137-68	50	6076e	10017	3418e	4226	2187e	2164	1519e	1252	854e	528	547e	270
600S162-68	50	7507e	11410	4223e	4814	2702e	2465	1877e	1426	1056e	602	676e	308
600S200-68	50	8347e	13275	4695e	5600	3005e	2867	2087e	1659	1174e	700	751e	358
600S250-68	50	8216e	15109	4622e	6374	2958e	3263	2054e	1889	1155e	797	739e	408
600S137-97	50	10684e	13558	6010e	5720	3846e	2929	2671e	1695	1502e	715	962e	366
600S162-97	50	11929e	15530	6710e	6552	4294e	3355	2982e	1941	1678e	819	1074e	419
600S200-97	50	13390e	18167	7532e	7664	4820e	3924	3347e	2271	1883e	958	1205e	491
600S250-97	50	14050e	21031	7903e	8872	5058e	4543	3513e	2629	1976e	1109	1265e	568
600S137-118	50	12972e	15903	7297e	6709	4670e	3435	3243e	1988	1824e	839	1168	429
600S162-118	50	14497e	18299	8155e	7720	5219e	3953	3624e	2287	2039e	965	1305	494
600S200-118	50	16495e	21499	9278e	9070	5938e	4644	4124e	2687	2320e	1134	1485e	580
600S250-118	50	18260e	24969	10271e	10534	6574e	5393	4565e	3121	2568e	1317	1643e	674
800S137-33	33	809e	9623	607e	4060	485e	2078	404e	1203	303e	507	203e	260
800S162-33	33	809e	10880	607e	4590	485e	2350	404e	1360	303e	574	239e	294
800S200-33	33	809e	13014	607e	5490	485e	2811	404e	1627	303e	686	243e	351
800S137-43	33	1794e	12888	1345e	5437	1076e	2784	829e	1611	467e	680	299e	348
800S162-43	33	1794e	14513	1345e	6123	1076e	3135	897e	1814	542e	765	347e	392

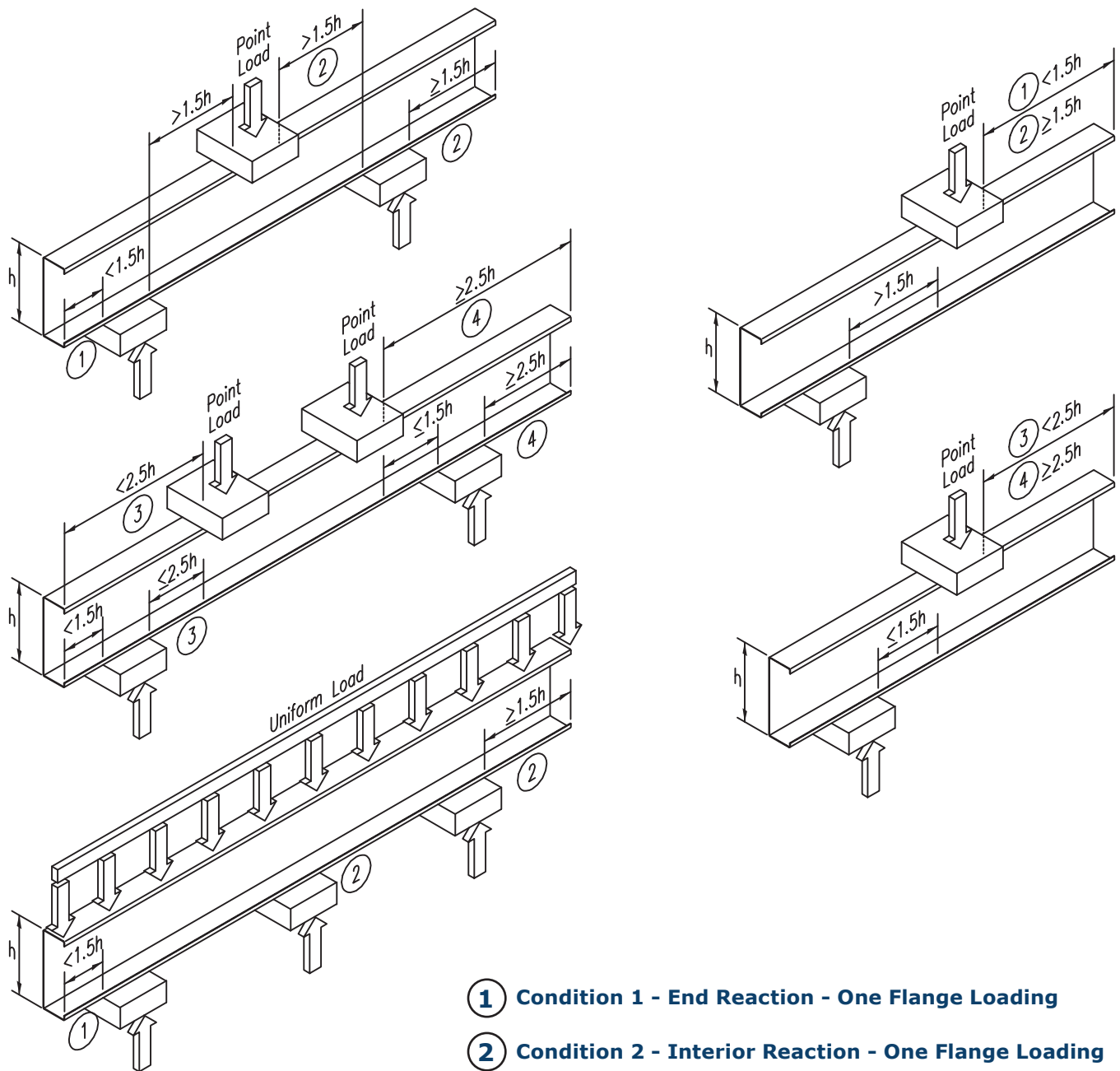
Header Uniform Loads (PLF)

Section	Fy (ksi)	Span													
		3 (ft)		4 (ft)		5 (ft)		6 (ft)		8 (ft)		10 (ft)		12 (ft)	
		Strength	L/360	Strength	L/360	Strength	L/360	Strength	L/360	Strength	L/360	Strength	L/360	Strength	L/360
800S200-118	50	24720e	43107	13905e	18186	8899e	9311	6180e	5388	3476e	2273	2225e	1164	1545e	674
800S250-118	50	25849e	49341	14540e	20816	9306e	10658	6462e	6168	3635e	2602	2326e	1332	1616e	771
1000S137-43	33	1427e	21612	1070e	9118	856e	4668	713e	2702	535e	1140	361e	584	251e	338
1000S162-43	33	1427e	24211	1070e	10214	856e	5230	713e	3026	535e	1277	426e	654	296e	378
1000S200-43	33	1427e	27678	1070e	11676	856e	5978	713e	3460	535e	1460	428e	747	344e	432
1000S250-43	33	1427e	32842	1070e	13855	856e	7094	713e	4105	535e	1732	428e	887	357e	513
1000S137-54	50	2835e	26887	2126e	11343	1701e	5808	1417e	3361	1024e	1418	655e	726	455e	420
1000S162-54	50	2835e	30141	2126e	12716	1701e	6510	1417e	3768	1063e	1589	764e	814	531e	471
1000S200-54	50	2835e	34480	2126e	14546	1701e	7448	1417e	4310	1063e	1818	850e	931	613e	539
1000S250-54	50	2835e	39504	2126e	16666	1701e	8533	1417e	4938	1063e	2083	850e	1067	646e	617
1000S137-68	50	5709e	34524	4282e	14565	3426e	7457	2574e	4316	1448e	1821	927e	932	644e	539
1000S162-68	50	5709e	38587	4282e	16279	3426e	8335	2855e	4823	1667e	2035	1067e	1042	741e	603
1000S200-68	50	5709e	44009	4282e	18566	3426e	9506	2855e	5501	1907e	2321	1221e	1188	848e	688
1000S250-68	50	5709e	50352	4282e	21242	3426e	10876	2855e	6294	2015e	2655	1289e	1360	895e	787
1000S137-97	50	16834e	49182	9676e	20749	6192e	10623	4300e	6148	2419e	2594	1548e	1328	1075e	768
1000S162-97	50	16834e	54928	10948e	23173	7007e	11864	4866e	6866	2737e	2897	1752e	1483	1216e	858
1000S200-97	50	16834e	62597	12389e	26408	7929e	13521	5506e	7825	3097e	3301	1982e	1690	1377e	978
1000S250-97	50	16834e	70661	12626e	29810	9095e	15263	6316e	8833	3553e	3726	2274e	1908	1579e	1104
1000S137-118	50	22506e	58300	12660e	24595	8102e	12593	5626e	7287	3165e	3074	2026e	1574	1407e	911
1000S162-118	50	25306e	65294	14235e	27546	9110e	14104	6327e	8162	3559e	3443	2278e	1763	1582e	1020
1000S200-118	50	27707e	74627	16058e	31483	10277e	16119	7137e	9328	4014e	3935	2569e	2015	1784e	1166
1000S250-118	50	27707e	84430	18902e	35619	12098e	18237	8401e	10554	4726e	4452	3024e	2280	2100e	1319
1200S137-54	50	2351e	40990	1763e	17292	1410e	8854	1175e	5124	882e	2162	705e	1107	522e	640
1200S162-54	50	2351e	45771	1763e	19310	1410e	9886	1175e	5721	882e	2414	705e	1236	588e	715
1200S200-54	50	2351e	52135	1763e	21995	1410e	11261	1175e	6517	882e	2749	705e	1408	588e	815
1200S250-54	50	2351e	55881	1763e	23575	1410e	12070	1175e	6985	88					

Table Notes

1. Listed factored resistance, ϕP_n , applies only to members with stiffened flanges (i.e. S-sections).
2. For back-to-back members, the listed factored resistance, ϕP_n , are for the entire two-member assembly.
3. Listed factored resistance, ϕP_n , 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 NASPEC.
4. For back-to-back members, the distance between the web connectors and the flange shall be kept to a minimum.
5. Listed factored resistance, ϕP_n , are for unpunched webs. Capacity reductions for end and interior one flange loading may be calculated per NASPEC section C3.4.2.
6. 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

Web Crippling Factored Resistance ϕP_n (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	72	117 ¹	147 ^{1,2}	115	165 ¹	199 ^{1,2}	59	84 ¹	100 ^{1,2}	160	211 ¹	244 ^{1,2}
162	0.0283	27	33	160	255 ¹	318 ^{1,2}	288	401 ¹	477 ^{1,2}	146	198 ¹	234 ^{1,2}	381	487 ¹	558 ^{1,2}
162	0.0312	30	33	194	306 ¹	381 ¹	355	492 ¹	583 ¹	180	243 ¹	285 ¹	467	593 ¹	677 ¹
162	0.0346	33	33	236	370 ¹	459 ¹	444	610 ¹	719 ¹	223	301 ¹	350 ¹	579	731 ¹	832 ¹
162	0.0451	43	33	391	602 ¹	743 ¹	777	1047 ¹	1226 ¹	390	512 ¹	593 ¹	1003	1242 ¹	1400 ¹
162	0.0566	54	50	889	1348 ¹	1654 ¹	1808	2392 ¹	2779 ¹	937	1210 ¹	1393 ¹	2393	2916 ¹	3264 ¹
162	0.0713	68	50	1337	1998 ¹	2436 ¹	2772	3602 ¹	4154 ¹	1491	1894 ¹	2160 ¹	3780	4539 ¹	5043 ¹
250	0.0188	18	33	68	110	139 ^{1,2}	112	161	194 ^{1,2}	49	67	80 ^{1,2}	143	190	221 ^{1,2}
250	0.0283	27	33	154	244	303 ^{1,2}	281	393	467 ^{1,2}	126	171	201 ^{1,2}	352	450	516 ^{1,2}
250	0.0312	30	33	185	293	364 ¹	348	482	572 ¹	156	211	248 ¹	433	551	629 ¹
250	0.0346	33	33	227	356	441 ¹	436	598	706 ¹	197	264	308 ¹	539	681	776 ¹
250	0.0451	43	33	377	581	718 ¹	766	1030	1205 ¹	350	461	534 ¹	945	1171	1320 ¹
250	0.0566	54	50	861	1307	1604 ¹	1782	2356	2739 ¹	856	1105	1271 ¹	2271	2768	3099 ¹
250	0.0713	68	50	1299	1943	2369 ¹	2736	3555	4100 ¹	1377	1750	1996 ¹	3609	4334	4816 ¹
350	0.0188	18	33	64	105	131 ²	110	157	189	37	53	63 ²	129	171	197 ²
350	0.0283	27	33	147	232	290 ²	276	385	458	106	146	171 ²	324	415	475 ²
350	0.0312	30	33	177	281	349	342	474	561	135	182	214	402	511	584
350	0.0346	33	33	218	341	424	428	587	694	172	230	269	504	635	723
350	0.0451	43	33	365	562	693	754	1014	1188	315	413	479	893	1105	1246
350	0.0566	54	50	836	1269	1557	1757	2325	2701	780	1008	1159	2159	2632	2947
350	0.0713	68	50	1267	1891	2307	2702	3511	4050	1273	1617	1845	3453	4146	4607
362	0.0188	18	33	64	104	130 ²	108	157	189 ²	35	51	60 ²	127	168	196 ²
362	0.0283	27	33	146	232	289 ²	276	384	457 ²	105	142	167 ²	322	411	471 ²
362	0.0312	30	33	177	280	348	341	473	560	133	179	210	399	507	579
362	0.0346	33	33	217	340	423	426	586	693	169	227	265	500	630	718
362	0.0451	43	33	364	560	690	752	1012	1185	310					

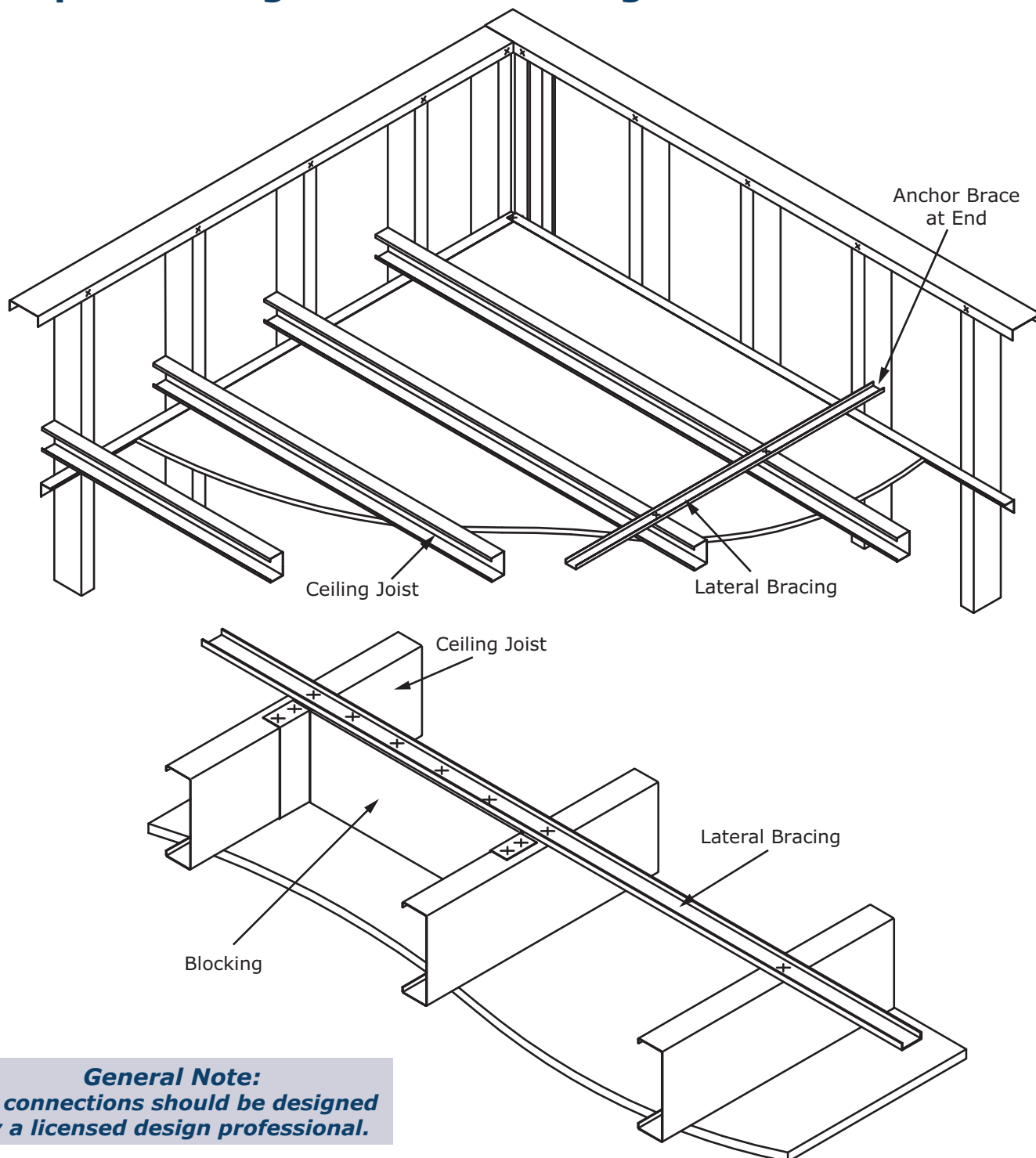
Web Crippling Factored Resistance ϕP_n (lbs) - Back-to-Back Members (S-Sections)

Section	Design Thickness (in)	Mil Thickness (mil)	Fy (ksi)	Condition 1 Fasten to Support			Condition 2 Fasten to Support			Condition 3 Unfasten to Support			Condition 4 Unfasten 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	297	470 ¹	586 ^{1,2}	410	569 ¹	675 ^{1,2}	197	260 ¹	302 ^{1,2}	397	524 ¹	609 ^{1,2}
162	0.0283	27	33	642	991 ¹	1223 ^{1,2}	954	1283 ¹	1501 ^{1,2}	479	613 ¹	703 ^{1,2}	1002	1284 ¹	1471 ^{1,2}
162	0.0312	30	33	771	1182 ¹	1455 ¹	1164	1553 ¹	1811 ¹	590	750 ¹	856 ¹	1244	1581 ¹	1806 ¹
162	0.0346	33	33	935	1424 ¹	1748 ¹	1436	1900 ¹	2209 ¹	735	927 ¹	1055 ¹	1561	1969 ¹	2241 ¹
162	0.0451	43	33	1530	2288 ¹	2792 ¹	2450	3178 ¹	3662 ¹	1284	1590 ¹	1794 ¹	2772	3432 ¹	3871 ¹
162	0.0566	54	50	3450	5074 ¹	6154 ¹	5675	7238 ¹	8276 ¹	3090	3767 ¹	4217 ¹	6683	8148 ¹	9121 ¹
162	0.0713	68	50	5155	7453 ¹	8980 ¹	8701	10912 ¹	12381 ¹	4923	5912 ¹	6569 ¹	10648	12786 ¹	14206 ¹
250	0.0188	18	33	296	469 ¹	584 ^{1,2}	409	568 ¹	673 ^{1,2}	168	222 ¹	258 ^{1,2}	339	448 ¹	521 ^{1,2}
250	0.0283	27	33	641	989 ¹	1221 ^{1,2}	952	1280 ¹	1498 ^{1,2}	427	547 ¹	627 ^{1,2}	895	1146 ¹	1313 ^{1,2}
250	0.0312	30	33	769	1180 ¹	1453 ¹	1162	1550 ¹	1808 ¹	531	675 ¹	770 ¹	1119	1422 ¹	1624 ¹
250	0.0346	33	33	933	1421 ¹	1745 ¹	1433	1897 ¹	2205 ¹	666	841 ¹	956 ¹	1414	1785 ¹	2031 ¹
250	0.0451	43	33	1528	2285 ¹	2788 ¹	2446	3173 ¹	3656 ¹	1183	1465 ¹	1652 ¹	2553	3162 ¹	3566 ¹
250	0.0566	54	50	3445	5067 ¹	6145 ¹	5667	7228 ¹	8265 ¹	2877	3507 ¹	3926 ¹	6222	7585 ¹	8491 ¹
250	0.0713	68	50	5149	7444 ¹	8969 ¹	8690	10898 ¹	12366 ¹	4624	5552 ¹	6169 ¹	10000	12007 ¹	13341 ¹
350	0.0188	18	33	296	468 ¹	583 ^{1,2}	408	566 ¹	672 ^{1,2}	142	187 ¹	217 ^{1,2}	286	378 ¹	439 ^{1,2}
350	0.0283	27	33	640	988 ¹	1219 ^{1,2}	951	1278 ¹	1495 ^{1,2}	380	486 ¹	557 ^{1,2}	795	1018 ¹	1166 ^{1,2}
350	0.0312	30	33	768	1178 ¹	1450 ¹	1160	1547 ¹	1805 ¹	476	605 ¹	691 ¹	1003	1275 ¹	1456 ¹
350	0.0346	33	33	931	1419 ¹	1743 ¹	1431	1894 ¹	2201 ¹	602	760 ¹	865 ¹	1279	1614 ¹	1836 ¹
350	0.0451	43	33	1526	2281 ¹	2784 ¹	2443	3169 ¹	3651 ¹	1089	1349 ¹	1521 ¹	2351	2911 ¹	3283 ¹
350	0.0566	54	50	3441	5061 ¹	6137 ¹	5660	7219 ¹	8254 ¹	2680	3268 ¹	3658 ¹	5797	7067 ¹	7911 ¹
350	0.0713	68	50	5143	7435 ¹	8959 ¹	8680	10886 ¹	12351 ¹	4350	5223 ¹	5803 ¹	9407	11296 ¹	12550 ¹
362	0.0188	18	33	295	468 ¹	583 ^{1,2}									

Table Notes

1. For unbraced sections, factored moment resistance, M_r , considers NASPEC section C3.1.2 with $K_y L_y = K_t L_t =$ listed span. For mid-span braced sections, M_r considers NASPEC C3.1.2 with $K_y L_y = K_t L_t = (\text{listed span})/2$.
2. For distortional buckling moment, $K_\phi = 0$.
3. Listed loads are nominal (unfactored). A load factor of 1.4 has been applied for strength checks.
4. For spans listed with "e", web stiffeners are required at end reactions.
5. Web crippling calculation based on bearing length = 1".
6. 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 AISI S100-07/2-10.
7. Values are for simple span conditions.
8. See page 5 for additional table notes.

Mid-Span Bracing Details for Ceilings



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

Ceiling Spans (S-Sections) - L/240

Section	F _y (ksi)	4 psf						6 psf						13 psf *					
		Lateral Support of Compression Flange						Lateral Support of Compression Flange						Lateral Support of Compression Flange					
		Unsupported			Midspan			Unsupported			Midspan			Unsupported			Midspan		
		Joist Spacing (in) o.c.			Joist Spacing (in) o.c.			Joist Spacing (in) o.c.			Joist Spacing (								

Allowable Ceiling Spans (S-Sections) - L/360

Section	Fy (ksi)	4 psf						6 psf						13 psf *					
		Lateral Support of Compression Flange						Lateral Support of Compression Flange						Lateral Support of Compression Flange					
		Unsupported			Midspan			Unsupported			Midspan			Unsupported			Midspan		
		Joist Spacing (in) o.c.			Joist Spacing (in) o.c.														

Table Notes

1. Hems and offset in flange, if present, 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	Design Thickness (in)	Fy (ksi)	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 _r (in-k)
087F125-18	0.0188	33	0.070	0.239	0.009	0.356	0.0354	0.710	0.0086	0.0160	39.69
087F125-27	0.0283	33	0.105	0.356	0						

Table Notes

1. Minimum deliverable base metal thickness is 95% of design thickness.
2. Inside bend radius taken as $\frac{3}{32}$ ".
3. For deflection calculations, use the effective moment of inertia.
4. See page 5 for additional table notes.

U-Channel Section Properties												
Section	Fy (ksi)	Design Thickness (in)	Gross Properties						Effective Properties			
			Area (in ²)	Weight (lb/ft)	Ix (in ⁴)	Rx (in)	Iy (in ⁴)	Ry (in)	Ix (in ⁴)	Sx (in ³)	Mr (in-k)	Vr (lb)
75U050-54	0.0566	50	0.087	0.30	0.007	0.288	0.002	0.155	0.007	0.019	1.01	610
150U050-54	0.0566	50	0.129	0.44	0.039	0.547	0.003	0.144	0.039			

Screw Capacities

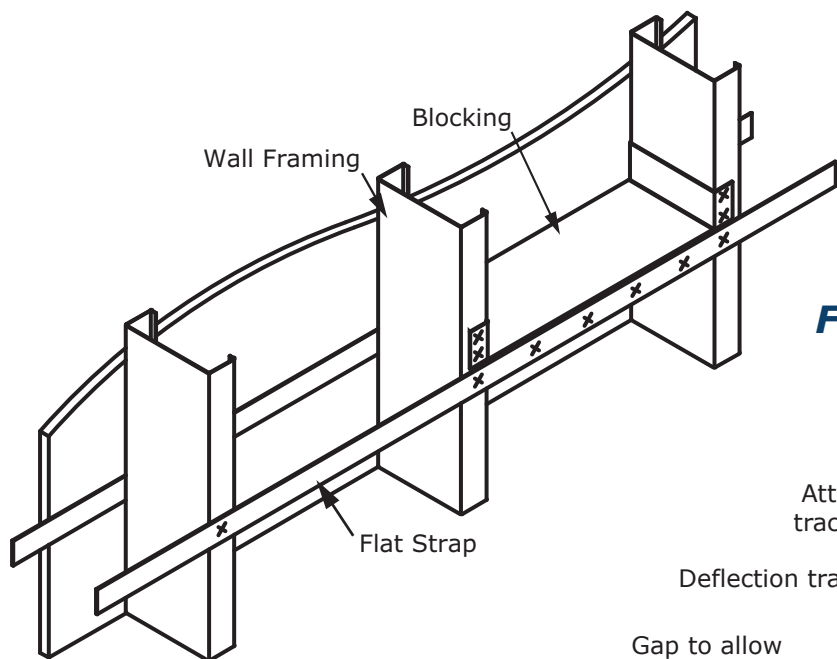
Table Notes

- Capacities based on section E4 of AISI S100-07/2-10 (2007 NASPEC with 2010 Supplement No. 2).
- 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 Limit States Design (LSD) and include the resistance factor, $\phi = 0.4$.
- Where multiple fasteners are used, screws are assumed to have a center-to-center spacing of at least 3 times the nominal screw diameter, d .
- Screws are assumed to have a center-of-screw to edge-of-steel dimension of at least 1.5 times the nominal screw diameter, d .
- Tension capacity is based on the lesser of pullout capacity in sheet closest to screw tip, or pullover capacity for sheet closest to the screw head (based on head diameter shown).
- Tension values shown in this table, pullover values have been reduced by 50% assuming eccentrically loaded connections producing a non-uniform pullover force on the fastener.
- Values are for pure shear or tension loads. See AISI section E4.5 for combined shear and pull-over.
- Higher values, especially for screw strength, may be obtained by specifying screws from a specific manufacturer. See manufacturer's data for specific values and installation instructions.
- Shear and tension data for screws was developed with the assistance of the Wei-Wen Yu Center for Cold-Formed Steel Structures (CCFSS), using manufacturers' data and evaluation reports available at the time of publication.

Screw Connection Factored Resistance ϕP_n (lbs)

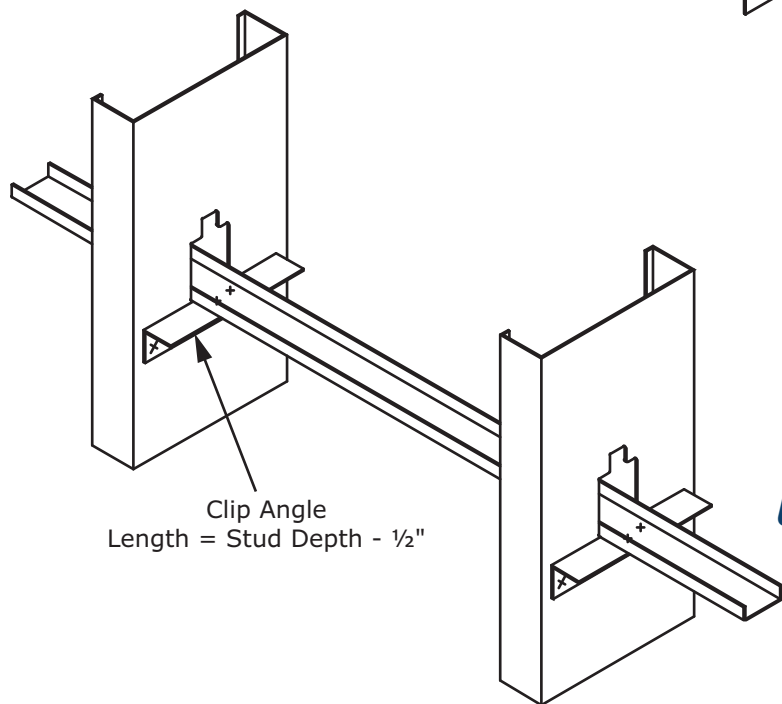
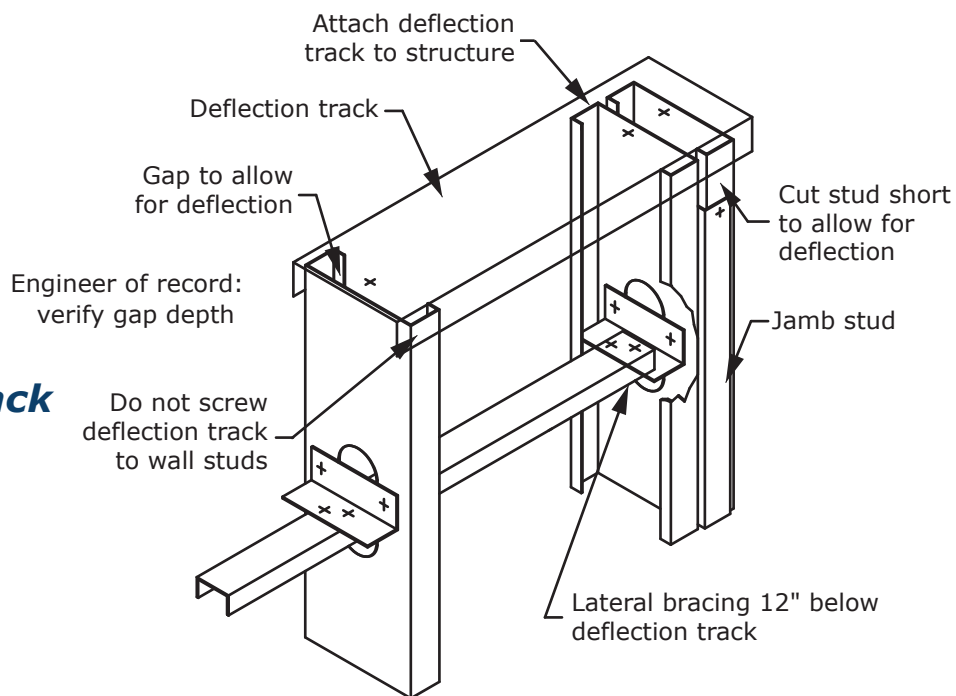
Thickness (Mils)	
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General Note:
All connections should be designed
by a licensed design professional.

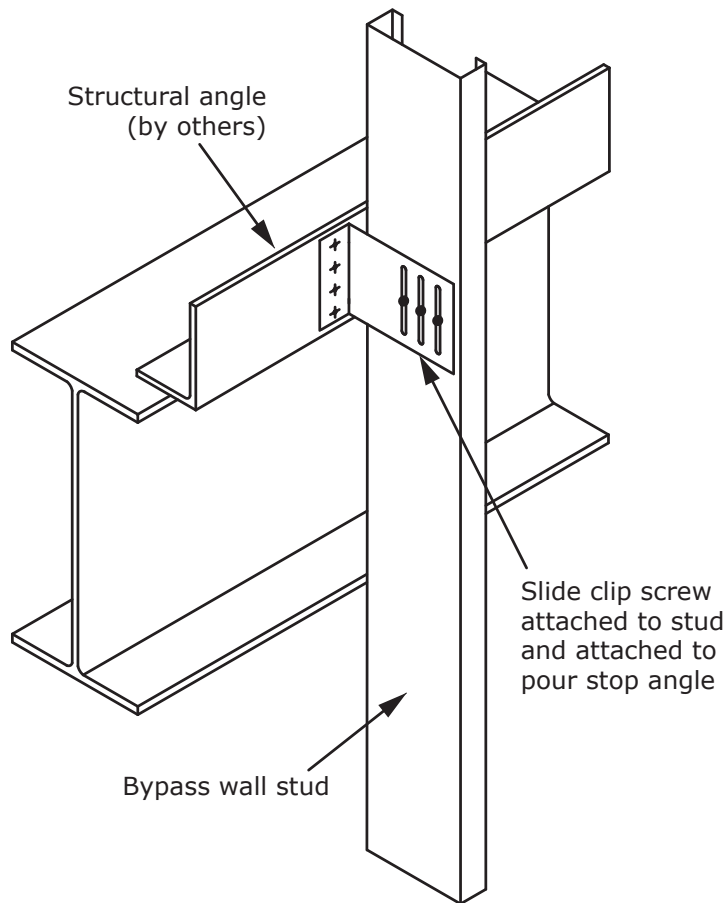


Flat Strap Lateral Bracing

Deflection Track

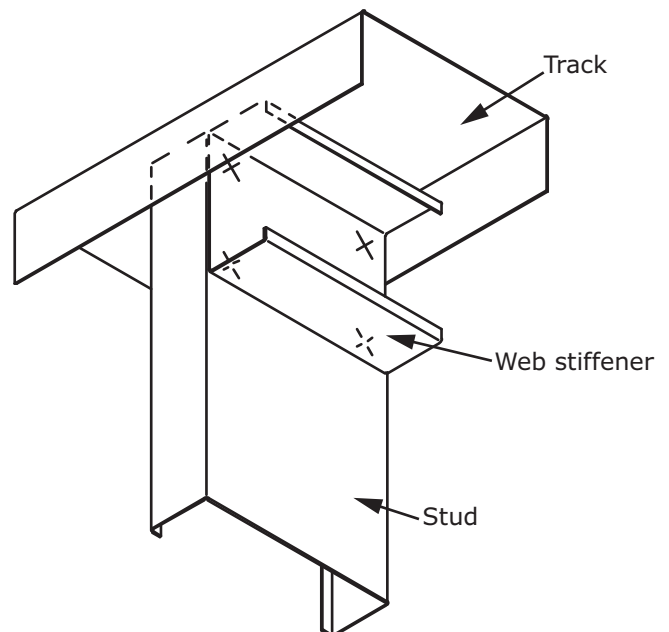


U-Channel Lateral Bracing



Slide Clip Attachment

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



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