Super Stud™ Building Products, Inc.

STRUCTURAL FRAMING

LOAD-BEARING & CURTAIN WALL

PRODUCT CATALOG

Proudly manufacturing the building industry's most diverse offerings of steel framing components and accessories since 1973.

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MADE IN THE USA

BUYSUPERSTUD.COM

AMERICAN OWNED & OPERATED SINCE 1973

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Need help with selecting the right products, ordering, deliveries, engineering or anything else?

Call us with any questions (732)-662-6200

Or get in touch via email at technical@buysuperstud.com

Additional information is available at www.buysuperstud.com

WARRANTY INFORMATION

DISCLAIMER:
All data, specifications, and details contained in this publication are intended as a general guide for using Super Stud 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. Super Stud assumes no liability for failure resulting from the use or misapplication of computations, detail drawings and specifications contained herein. This publication contains the latest information available at the time of printing. Super Stud reserves the right to make modifications and/or change materials of any of their products without prior notice or obligation. For the latest information regarding a particular manufacturer's products contact that manufacturer. Please contact Super Stud to verify product availability. The Design Professional is suggested to contact Super Stud to assure that there are no significant changes of information after the printing of this catalog.

The intent of this publication is to furnish the design professional with information allowing for the evaluation of a cold-formed steel framed assembly. Due to the variable nature of a structure, this publication serves only as a suggested guide to the use of our steel framing sections and accessories. As such, the user is cautioned to thoroughly evaluate any assembly for specific performance and installation requirements.

The drawings, specifications and technical tables are furnished to assist in the evaluation of these products by a qualified structural engineer or architect in their application or installation.

Super Stud makes no recommendations or representations as to their use or application other than that the products will comply with the specifications within industry tolerances.
Super Stud assumes no liability for damages resulting from improper application or installation.

WARRANTIES AND LIMITATIONS
All products presented herein are warranted to be free from manufacturing defects in material and workmanship. Damages for the breach of this warranty and buyers sole remedy shall be the return of the goods and the repayment of the price thereof or the replacement of such non-conforming goods at the sole option of the seller. Seller specifically excludes any liability for any consequential damages as a result of the non-conformance of the goods. The aforesaid warranty is exclusive to the direct purchaser from Super Stud and is not assignable or transferable to any third party. This warranty is in lieu of and EXCLUDES ALL OTHER WARRANTIES NOT EXPRESSLY SET FORTH HEREIN, whether express, implied or by operation of the law. Specifically EXCLUDED ARE ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE.

Super Stud denies any liability for damages resulting from the use of the details or specifications or improper application or installation of these products.

GOVERNING LAW
The parties hereby consent to the jurisdiction of the Superior Court of New Jersey, Middlesex County, as having sole jurisdiction over disputes arising out of this sales transaction, including, but not limited to, the non-payment for any sale made or claim of an alleged Breach of Warranty. It shall not be a defense to any action brought by the seller that the aforesaid Courts do not have jurisdiction over the purchaser.

New Jersey Law shall apply in all such actions. The Statute of Limitations for any such action based upon an alleged breach shall be one (1) year from the date of the alleged breach, and no action may be maintained if brought after the said one (1) year. The alleged breach shall be deemed to have occurred at the time of the delivery of merchandise.

A HISTORY OF EXCELLENCE

Since 1973, Super Stud Building Products, Inc. has been a proud manufacturer of the industry's most diverse offering of steel framing components and accessories for use in the construction of commercial, institutional and residential structures.

We have a serious commitment to providing quality products and services as we continue to expand our capabilities with new production facilities and manufacturing expertise.

Our in-house construction specialists are ready to assist in engineering your project from design to final delivery and installation of our products. Our mission is to provide quality service, timely deliveries, and competitive pricing. Our goal is customer satisfaction from start to finish on every project, regardless of size or scope.

Super Stud is constantly striving to create solutions for the cold-formed steel framing industry, such as our patented EDGE™ studs and other product innovations. We offer a wide variety of standard sections and complementary accessories to satisfy the requirements of any light structural application. Our Product Development Staff subjects each new product to both rigorous in-house and field-testing procedures to assure their load carrying capacities and compatibility for the intended use.

Super Stud interior drywall, exterior curtain wall, and load-bearing products are third-party inspected by Home Innovation Research Labs to assure conformance to American Iron and Steel Institute (AISI) steel specifications, building code standards, and proper product usage.

Home Innovation is recognized as a Global Certifications Agency www.homeinnovation.com

TECHNICAL SUPPORT & COLD-FORMED STEEL ENGINEERING

Super Stud Building Products' Technical Engineering Team is Your Single-Source Building Product Partner During the Design and Construction Process, Providing Comprehensive Architectural Design Support and Engineering Solutions.

Comprehensive Offerings that Help You Achieve Your Project Goals

- Architectural Design-Assist Support
- Engineering Support
- Materials Coordination & Support
- Distribution, Sales & Customer Service
- Specifications Review & Support
- Cold-Formed Steel Shop Drawings under P.E. Seal
- CFS Framing Specifications
- Metallurgical Quality Assurance
- Structural Load Analysis Data
- Construction Details & Section Properties
- Building Information Modeling (BIM)
- Comprehensive Engineering Services
- Panelization Capabilities
- Safety Training & Continuing Education

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Website Tools

www.BuySuperStud.com contains information on our company, our products, and our services. We also have detailed technical information including load tables for member sizes and configurations as well as limiting height data.

Engineering Support

We provide engineering and architectural support for the design professional and subcontractor from the planning stage through final detailing for general and specific building conditions.

We provide cold-formed steel shop drawings under P.E. engineers' seal in all 50 states.

Product Information

Our Technical Hotline provides rapid response to all framing-related questions or problems. Our in-house metallurgical lab is fully certified to ASTM standards and is available to provide product verification and testing should it be required at any point through the process.

Field Support

We can provide expert field support at your project site to assist the contractor complete the project successfully.

Architectural Specifications

Super Stud Building Products' Team is able to ensure that your project incorporates up-to-date design standards and specifications integrating the most cost-effective utilization of cold-formed products and systems. Architectural Specifications are available on our website at BuySuperStud.com

- Division 5: Structural Metal Framing – 054000
- Division 9: Nonstructural Metal Framing – 092216

SUPER STUD BUILDING PRODUCTS — LEED® INFORMATION

Super Stud supports the programs of multiple green building rating systems, including Leadership in Energy and Environmental Design (LEED), Green Globes, Living Building Challenge, the WELL Building Standard, and others. Most of our raw steel materials are brought in by rail directly to our building, for faster service and lower energy consumption. We do slitting on-site, have detailed waste-reduction and scrap recovery programs, and ALL unused and scrap steel is either reused or recycled. All Super Stud steel products have a minimum of 25% recycled content and are 100% recyclable.

LEED® V4 & LEED® V4.1

For Leadership in Energy and Environmental Design (LEED) Version 4: Super Stud has participated in the development of our industry-wide Environmental Product Declaration (EPD). Using steel-based products from Super Stud can contribute Materials and Resources (MR) credits in multiple LEED categories and systems.

- Up to one point is available in each of the LEED V4 MR credit under Building Product Disclosure and Optimization:
- Environmental Product Declarations: submit the Super Stud industry-wide EPD for all Super Stud steel products. The scope of this EPD is "cradle to gate," and the report conforms with International Organization for Standardization (ISO) standards ISO 14025, 14040, ISO 14044, and ISO 21930.
- Sourcing of Raw Materials: Super Stud tracks all of our steel materials from the coil source. We have worked with our material suppliers, and have secured traceability commitments from most of them. Before starting on a project seeking LEED certification, check with Super Stud to ensure that coil sourcing is from one of our traceable sources. This can provide up to one LEED V4 point.
- Material Ingredients: Super Stud can provide detailed information on all materials that go into our steel. This includes not only the base steel chemical composition but also coatings and treatments such as oil and chemicals for corrosion protection. Although we have not yet developed a Health Product Declaration (HPD), Super Stud does make material ingredient information available for all customers to make intelligent material choices.
- Up to two points are available in the LEED V4 MR credit under Construction and Demolition Waste Management. Since all Super Stud steel products are 100% recyclable, any steel construction wastes can and should be diverted from the waste stream and sold to a recycler. Fees from scrap sales not only add to the bottom line but also close the loop on material recycling and waste and energy reduction.
- LEED V4 innovation points are available in several areas. Examples include reducing the amount of steel required on a project by employing the EDGE drywall framing, which can reduce the amount of steel used by 30%, or by increasing stud spacing to 24" on center, reducing both steel and fastener weight.

Additional credits may be available from using safety programs like the prevention through design (PTD), where safety-enhancing products like the EDGE are used to make buildings safer for construction teams, maintenance personnel, and occupants. For more information on this PTD pilot credit, visit our website.

LEED 2009

With the sunsetting of LEED 2009 in 2015, most projects now need only comply with the LEED V4 requirements and points system as stated above. However, Super Stud can still provide recycled content documentation and local sourcing information for projects permitted under the 2009 version of LEED.

Living Building Challenge

The base steel and galvanized coating on all Super Stud metal products comply with all of the Living Building Challenge requirements. Super Stud is working with suppliers to provide acceptable alternatives to the chem-treat used on top of the zinc coating on some of our products. The current chemical treatment that most of our suppliers provide is not LBC compliant.

Green Globes

Green Globes rates buildings on a 1,000 point scale in 7 categories. Steel Framing from Super Stud can qualify users for points in the categories of Energy, Indoor Environment, Resources, Emissions, and Project/Environmental Management. Green Globes requires onsite verification by a Green Globes Assessor, to verify self-reported claims, allowing projects to qualify for one to four globes.

Company-Wide Environmental Stewardship

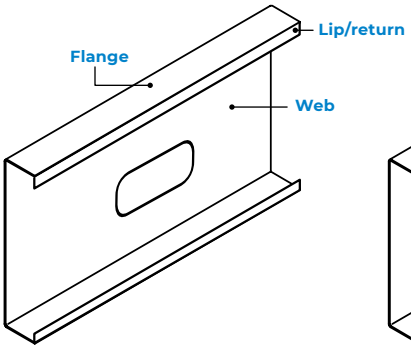
Super Stud is a longstanding member of the United States Green Building Council (USGBC) and employs a full-time LEED® Accredited Professional (A.P.) on staff.

Our primary manufacturing facility has in-house recycling of both manufacturing and office waste. We have waste reduction programs for both manufacturing and office supplies, and we work with some of our key customers to ensure the stewardship extends upstream to the materials we source.

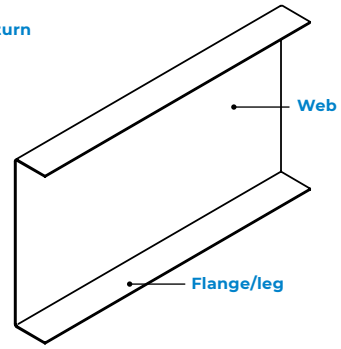
We encourage reduced-emissions commuting by being close to transit facilities and by having bicycle storage and shower facilities for non-motorized commuters. We have facilities for and encourage rail delivery of steel rather than trucked-in product for reduced transportation emissions, and we maintain our own fleet of trucks for efficient delivery of our finished products. Incentive programs are in place to encourage employees and customers to conserve energy and natural resources: at home, at work, and in our communities.

Super Stud Building Products, Inc. is an active member of the U.S. Green Building Council with LEED® Accredited Professionals on staff. Super Stud is committed to supplying quality products and continually looking for new ways to develop greener building products and sustainable business practices.

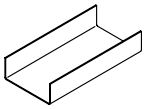
PRODUCT IDENTIFICATION GUIDE



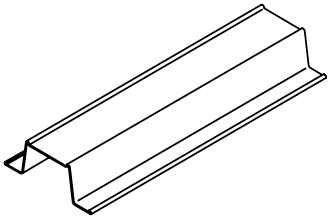
"S" - C-STUD/JOIST
S-SECTIONS*



“T” - TRACK
T-SECTIONS



“U” - CHANNEL
U - SECTIONS



“F” - FURRING CHANNEL
F-SECTIONS

**For “S” members, see table on page 8 for stiffening lip length.*

All Super Stud Building Products’ members and accessories have a four-part identification code that identifies the web depth, flange width, style, and mil thickness.

Web depths and flange widths are truncated after two decimal places.
Example: 1-5/8” = 1.625”; flange width is listed as 162 rather than 1625.

Member Web Depth
(Example: 3 5/8" = 362 × 1/100 inch)
All member depths are given in 1/100 inch.
For all "T" sections, member depth is the inside to inside dimension.

Flange Width
(Example: 2” = 200 × 1/100 inch)
All flange widths are given in 1/100 inch.

362 S 200 - 43

Style
(Example: Stud or Joist section = S)
Nomenclature uses the following four characters to designate the profile:
S = Stud or Joist Sections
T = Track Sections
U = Channel Sections
F = Furring Channel Sections
L = Angle

Mil Thickness
(Example: 0.043" = 43 mils; 1 mil = 1/1000 inch)
Mil thickness is the minimum base steel thickness measured in 1/1000 inch. Minimum base steel thickness represents 95 percent of the design thickness. Mil thicknesses are listed alongside design thickness and gauge thickness in the table on the next page.

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

PRODUCT IDENTIFICATION GUIDE

Mechanical Properties, Base Steel

Unless noted otherwise herein, structural framing components manufactured by Super Stud are formed from steel meeting the requirements of ASTM A1003 and the following specifications:

	ASTM A1003 (Fy(min) = 50 KSI)	ASTM A1003 (Fy(min) = 33 KSI)
Studs and Joists	118, 97, 68 & 54* mils	43 & 33 mils
Track & Accessories	118, 97* & 68* mils	54*, 43 & 33 mils

Fy = Minimum Yield Point
* Fy=33KSI, 50 KSI must be specified at time of order.

ASTM A1003, entitled Standard Specification for Steel Sheet, Zinc Coated (Galvanized) by the Hot-Dip Process, Structural (Physical) Quality, covers sheet steel of structural (physical) quality with zinc coating.

Identification

Super Stud identifications and markings conform to AISI-S200-07 and ASTM A1003 identification.

Galvanized Coating

Super Stud structural framing components are zinc coated (galvanized) in accordance with ASTM A653 and ASTM A1003. Super Stud can also fulfill requests for G-90 coatings which provides 50 percent more zinc protection than the standard G-60 coating.

Design Steel Thickness

The structural properties and load tables were prepared using the following design steel thicknesses:

- 20 gauge: 33 mils, 0.0346 inch
- 18 gauge: 43 mils, 0.0451 inch
- 16 gauge: 54 mils, 0.0566 inch
- 14 gauge: 68 mils, 0.0713 inch
- 12 gauge: 97 mils, 0.1017 inch

In accordance with the AISI S100-16 section B7.1, the uncoated minimum steel thickness as delivered to the job site shall not be less than 95% of the design thickness.

PRODUCT MATRIX

Studs & Tracks

Web Depths	AISI web
1-5/8"	162
2-1/2"	250
3-1/2"	350
3-5/8"	362
4"	400
5-1/2"	550
6"	600
7-1/4"	725
8"	800
9-1/4"	925
10"	1000
11-1/2"	1150
12"	1200
14"	1400
16"	1600
18"	1800

Flange width	AISI Flange	Super Stud Flange Stud	Super Stud Flange Track	Flange Notes
1"	T100			tracks only
1-1/4"	S125; T125	SSCW	TR	
1-3/8"	S137	SSC		studs only
1-1/2"	T150		TF	tracks only
1-5/8"	S162	SSJ		studs only
2"	S200; T200	SJW	TW	
2-1/2"	S250; T250	SSW	DT	
3"	S300; T300	SSX	TH	
3-1/2"	S350; T350	SSXW	TX	

Stud Example: 6SSJ18 = 600S162-43

Track Example: 3-5/8TR14 = 362T125-68

Thickness				
gauge	mil	min	design	notes
25EQ	15	0.0145	0.0153	The EDGE 25
25	18	0.0179	0.0188	DW19
20EQ	19	0.0179	0.0188	the EDGE Performance 20
20EQ	23	0.0220	0.0232	the EDGE Super 20
20 DW	30	0.0296	0.0312	
20 STR	33	0.0329	0.0346	
18	43	0.0428	0.0451	
16	54	0.0538	0.0566	
14	68	0.0677	0.0713	
12	97	0.0966	0.1017	
10	118	0.1180	0.1242	

Furring Channel

Web Depths	AISI web
7/8"	87
1-1/2"	150

Flange Width	AISI Flange
1-1/4"	F125

Cold-Rolled Channel (CRC)

Web Depths	AISI web
3/4"	75
1-1/2"	150
2"	200
2-1/2"	250

Flange Width	AISI Flange
1/2"	U050
Thickness	
gauge	mil
16	54

Shaft Wall Studs (CT)

Web Depths	AISI web
2-1/2"	200
4"	400
6"	600

Flange Width	New Flange
1-3/8" & 1-5/8"	CT137
Thickness	
gauge	mil
25	18
20 STR	33
18	43

Tracks: Tabbed (TT), J (JT), J Runner (JT)

Web Depths	AISI web
2-1/2"	200
4"	400
6"	600
Thickness	
gauge	mil
25	18
20 STR	33
18	43

Flange Width	New Flange	
1" & 2-1/4"	TT225	Tabbed Track
	JT225	J Track
1" & 3"	JT300	J Runner

Tabbed Track & J Track (both 1" & 2.25" leg: example 400TT225-33)
J Runner (both 1" & 3" leg: example 400JT300-33)

DIMENSIONAL PROPERTIES

Structural Cold-Formed Steel Thickness Table				
Designation Thickness (mil)	Minimum Thickness[1] (in)	Design Thickness[1] (in)	Design Inside Corner Radii [2] (in)	Gauge No. Reference Only
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

See product matrix on previous page for nonstructural products and their thicknesses.

Stiffening Lip Length Table		
Member Designation (Super Stud Legacy Nomenclature)	Flange Width	Stiffening Lip Length (in)
S125 (SSCW)	1 ¼"	0.188
S137 (SSC)	1 ⅜"	0.375
S162 (SSJ)	1 ⅝"	0.500
S200 (SJW)	2"	0.625
S250 (SSW)	2 ½"	0.625
S300 (SSX)	3"	0.625
S350 (SSXW)	3 ½"	1.000

1Minimum thickness represents 95% of the design thickness and is the minimum acceptable thickness delivered to the jobsite based on AISI S100-07 Section A2.4.
2The tables in this catalog are calculated based on inside corner radii listed in this table. The inside corner radius is the maximum of 3/32 – t/2 or 1.5t, truncated after the fourth decimal place (t = design thickness). Centerline bend radius is calculated by adding half of the design thickness to listed corner radius.

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 and joists) members only and do not apply to tracks and channels.

Studs

Studs serve as structural elements in the construction of exterior curtain walls, soffits, load-bearing walls and headers. They are also used in floor joist, roof rafter, and truss frame assemblies.

"C" studs are defined by three basic components: the web, flange, and lip. The flange serves to stiffen the web while the lip stabilizes the flange.

Punch pattern for all structural studs & Joists:
For all Super Stud structural framing 33 mil thick and greater, punchouts will be located as follows, unless special requests are made by the customer:

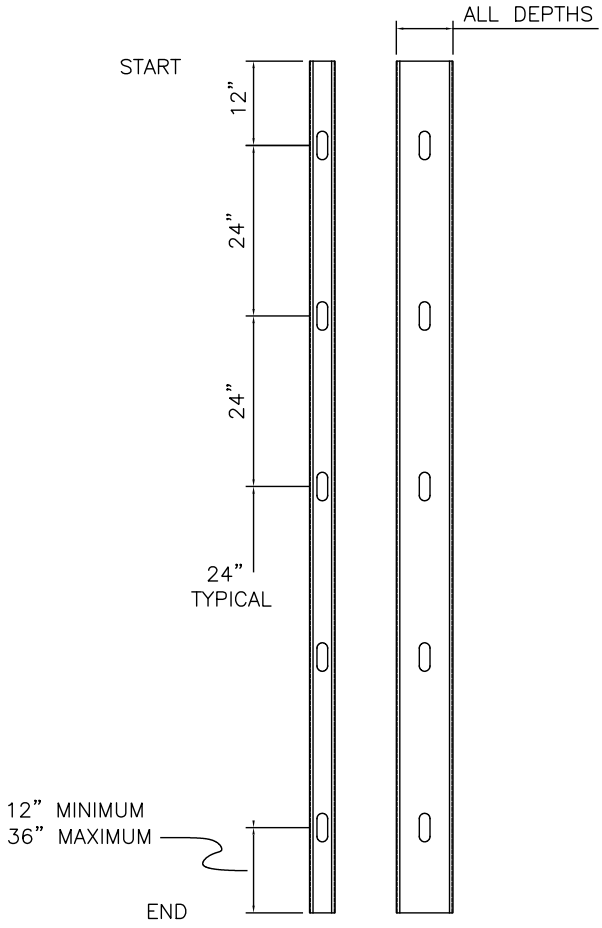
- Along the centerline of the member, within +/- 1/16 inch
- First punchout centered 1' from leading end (no less than 10" from end to edge of hole)
- All subsequent punchouts 2' on center (o.c.)
- Last punchout will be no less than centered 1' from trailing end (no less than 10" from end to edge of hole)

Punchout size:

For 2.5" deep members: 2" along the member long dimension; 3/4" across the web width

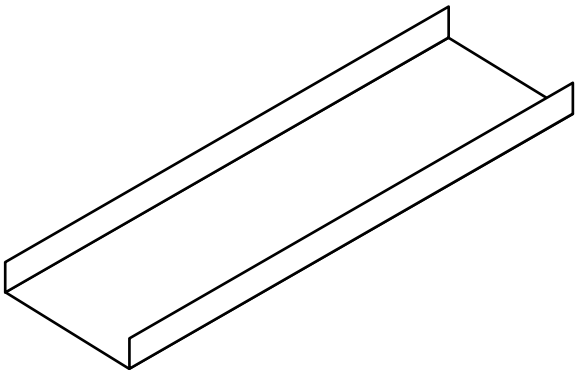
For all other members: 4" along the member long dimension; 1-1/2" across the web width

4" round holes available for 8" and deeper members if requested by customer



Track

Track is used as an enclosure for studs in the construction of wall and joist assemblies. Track also serves as a structural component in the design of sill, head and jamb assemblies of framed openings.



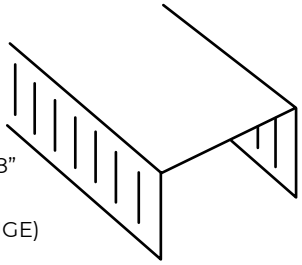
See table on page 7 for standard leg lengths up to 3-1/2 inches. Custom leg lengths available up to web depth.

Slotted Deflection / Slip Track

Slotted Deflection Track is a CFS top track manufactured to prevent cracking of finishes applied to interior partition framing resulting from deflection of structure above. This is achieved by fastening studs to top track through provided slots, allowing fastener vertical movement of up to 1 ½".

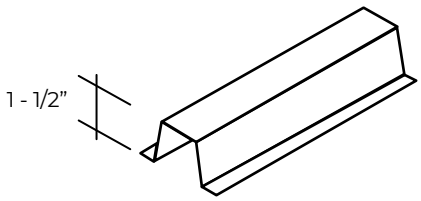
Slotted Deflection Track is available with galvanized coating in accordance with ASTM A653 & A1003: G40 for thicknesses up to 30 mil; G60 (standard) or (G90) for 33 mil and heavier. Requires one screw in each flange of each stud to attain full design capacity.

WEB DEPTHS: 2 1/2" , 3 5/8" , 6" AND 8"
LEG LENGTHS: 2 1/2" , 3" , 3 1/2"
THICKNESSES: 18 - 118MIL (25-10 GAUGE)



Structural Furring 'Hat' Channel

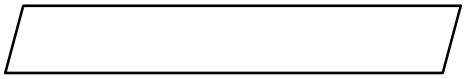
Structural Hat Channel is used to provide support for sheathing, siding and decking products in the construction of soffits, ceilings, roofs, and walls. The channel is compatible for use over any of a number of different support members.



Available Thicknesses			
Mils	Gauge	Minimum (inches)	Design Thickness (in.)
33	20	0.0329	0.0346
43	18	0.0428	0.0451
54	16	0.0538	0.0566

Tension Strap / Flat Strap

Tension Strap has a variety of uses some of which include wall and joist bridging, shear walls and backer plates to facilitate the installation of handrails and fixtures.



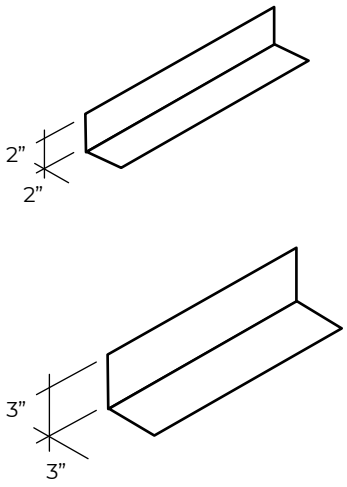
Available Thicknesses			
Mils	Gauge	Minimum (inches)	Design (inches)
33	20	0.0329	0.0346
43	18	0.0428	0.0451
54	16	0.0538	0.0566
68	14	0.0677	0.0713
97	12	0.0966	0.1017

Available Widths (in.)
1 - 12

Utility Angle

Utility Angles, furnished in standard 10-foot lengths, are typically installed at corner framing conditions to provide continuous support for sheathing products.

Utility Angles are available in standard 2” or 3” leg dimensions. Non-standard angles with varying leg dimensions are also available.



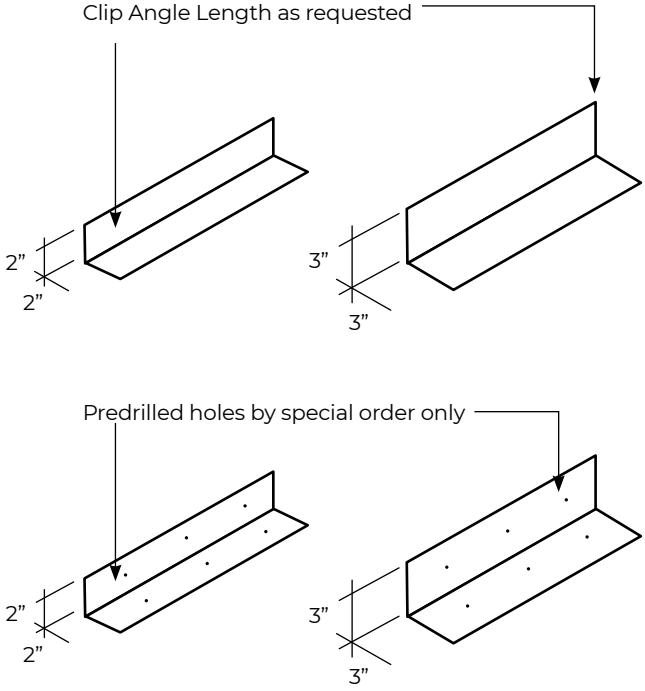
Available Thicknesses			
Mils	Gauge	Minimum (inches)	Design (inches)
33	20	0.0329	0.0346
43	18	0.0428	0.0451
54	16	0.0538	0.0566
68	14	0.0677	0.0713
97	12	0.0966	0.1017
118	10	0.1180	0.1242

Available Leg Lengths (in.)
2, 3, *(custom lengths available upon request)*

Standard Length (ft.)
10

Angle Clips

Angle Clips serve a variety of functions in the construction of a steel framing system. They may be used to make attachments between framing members or, in the case of curtain wall construction, to transfer gravity and lateral loads from a stud to the primary frame. Upon request, Angle Clips can be furnished pre-punched to facilitate screw attachments. Non-standard angles with varying leg dimensions are also available.



Available Thicknesses			
Mils	Gauge	Minimum (inches)	Design (inches)
33	20	0.0329	0.0346
43	18	0.0428	0.0451
54	16	0.0538	0.0566
68	14	0.0677	0.0713
97	12	0.0966	0.1017
118	10	0.1180	0.1242

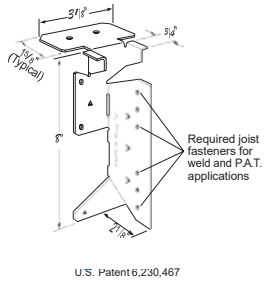
Available Leg Lengths (in.)
2, 3, *(custom lengths available upon request)*

Joist Hangers

Joist hangers are used in applications where vertical alignment of the joist and the support steel is desired. The hanger is available in single or double widths to accommodate single joists or header assemblies.

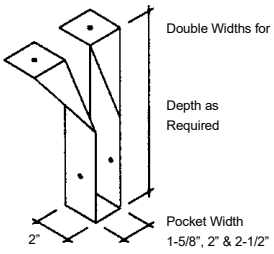
Notes:

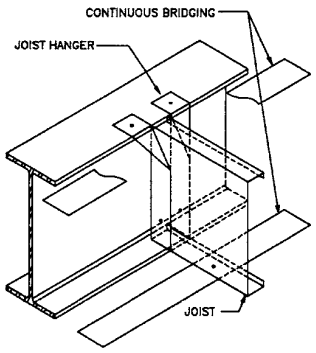
1. Joist web knockouts shall not occur within one foot of the Joist Hanger. The joist reaction shall not exceed the allowable capacity of the unstiffened web. A minimum joist end bearing width of two inches shall be provided.
2. The Joist Hanger shall be attached to the steel support. Acceptable fastening methods include:
   a. Two (2) 0.145" or 0.140" diameter knurl shanked powder actuated fasteners. The shank shall be of a length to assure tip penetration through the beam flange.
   b. Two (2) No. 12 diameter self-drilling screws. The cutting tip of the screw shall accommodate the combined thickness of the hanger and the beam flange.
   c. Four (4) 1" long welds (total), two (2) each side.



U.S. Patent 6,230,467

Simpson Strong-Tie S/HJCT
Steel-Joist skewable framing connectors





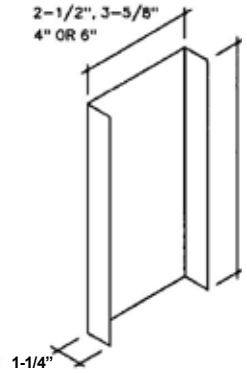
Bridle /Top-Mount Hangers
For attaching floor joists to structural beams or ledgers

See detail M, page 49, for additional information

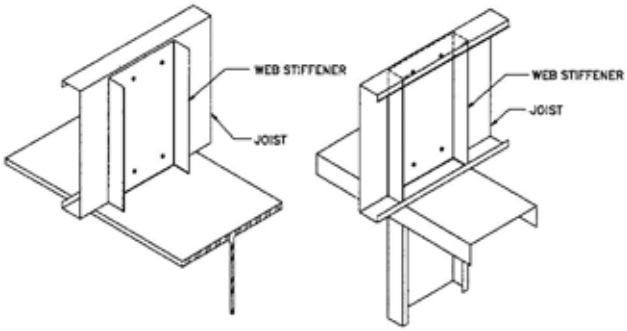
Available Thickness			
Mils	Gauge	Minimum (inches)	Design (inches)
97	12	0.0966	0.1017

Web Stiffener (WS)

Web Stiffeners provide web reinforcement for studs and joists at both end and intermediate support or concentrated load locations. The stiffener, placed either inside or outside the web, is manufactured on a custom order basis.
Standard Stiffener Sizing: 4" Web, 54 mil thickness



All web stiffeners have a standard length that is 1/4" less than joist depth. Example: web stiffeners for 12" joists will be 11-3/4" long. Other custom lengths are available.



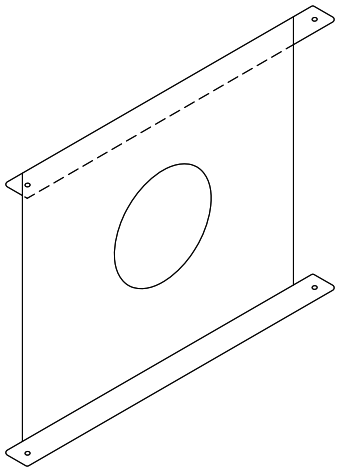
Available Thicknesses			
Mils	Gauge	Minimum (inches)	Design (inches)
43	18	0.0428	0.0451
54	16	0.0538	0.0566
68	14	0.0677	0.0713

Available Web Depth (in.)
4" (standard). Also available in 2-1/2", 3-5/8" and 6" depths

Flange (in.)
1-1/4"

Joist Web Blocking

Our web blocking attaches directly to the web of adjacent joists: preventing lumps at sheathing or ceiling attachment, and providing exact spacing for joist members at 12" or 16" on center. Super Stud Flange Blocking (right) attaches to the top and bottom flanges of joists, allowing easy connection from the top and bottom. Notches in the blocking allow for exact spacing of either 2" or 2 ½" flange joists.



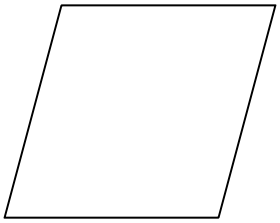
Joist Web Blocking

Joist Web Depth	Available Thickness	
	Mils	Gauge
8", 10", 12", 14"	43	18
16", 18"	54	16

Joist Web Blocking
Connection Tab Width
1 inch
Joist Sizes (All Available Web Depths)
8", 10", 12", 14", 16", 18"
Spacing
12" or 16" o.c.
Joist Flange Widths:
All, from 2" to 3-1/2"

Flat Unpunched Gusset Plates

Gusset plates are available in all structural thicknesses, widths, and lengths up to 10 feet. They may be used for truss construction, ends of diagonal strap X bracing, anchors at the base of walls, force transfer locations at floor-wall or floor-roof intersections, or other locations where flat steel is required.



Available Thicknesses			
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54	16	0.0538	0.0566
68	14	0.0677	0.0713
97	12	0.0966	0.1017
118	10	0.1180	0.1242

Available Widths (in.)
1 - 48

Available Lengths (in.)
1 - 120

CUSTOM MANUFACTURED PRODUCTS

Brake Formed Accessories

At Super Stud, if it's made from steel, we'll find a way to shear, brake, roll or punch it to satisfy any unique framing requirement.

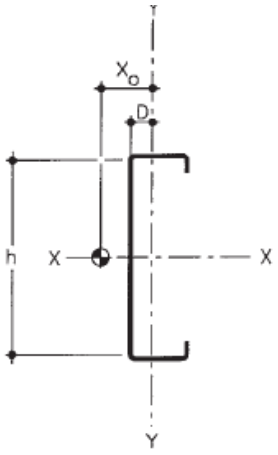
From custom brake formed closures to radius track, our sales, customer service, production, and technical representatives are available to discuss any of your framing needs.

Sheet Steel

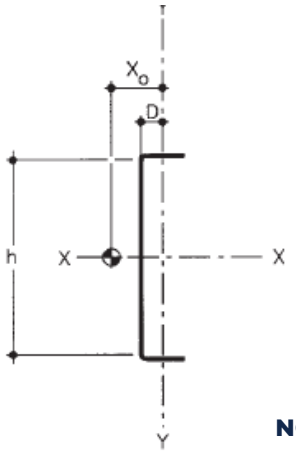
Super Stud can furnish de-coiled Sheet Steel in widths up to 48 inches. They may be used for a variety of applications including security shields between studs and facing material.

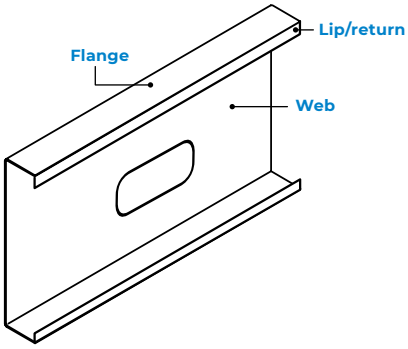
SECTION PROPERTIES

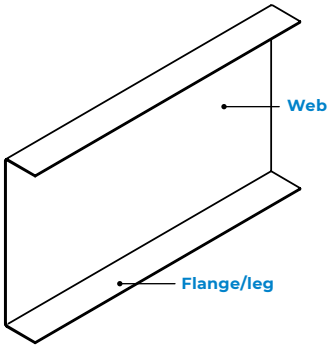
STUD



TRACK







Flange width	AISI Flange	Super Stud Flange Stud	Super Stud Flange Track	Flange Notes
1"	T100			tracks only
1-1/4"	S125; T125	SSCW	TR	
1-3/8"	S137	SSC		studs only
1-1/2"	T150		TF	tracks only
1-5/8"	S162	SSJ		studs only
2"	S200; T200	SJW	TW	
2-1/2"	S250; T250	SSW	DT	
3"	S300; T300	SSX	TH	
3-1/2"	S350; T350	SSXW	TX	

TERMS AND DEFINITIONS

Weight Pounds per linear foot, PLF

Ma Allowable bending moment of braced section, inch-kips

Va Allowable shear force through an unpunched web, kips (1000 pounds)

Area Cross-sectional area of gross section, $inch^2$

Ix, Iy Moment of inertia of gross section about applicable axis, $inch^4$

Sxe, Sye Section modulus of the effective section stressed at yield about the applicable axis, $inch^3$

Rx, Ry Radius of gyration of gross section about applicable axis, in

D Distance from the Y axis to outside of web, In

Jx 1000 St. Venant torsional constant, $inch^4$, multiplied by 1000

Cw Torsional warping constant, $inch^6$

Ro Polar radius of gyration about the shear center, in

Xo Distance from shear center to centroid along the principal axis, inch

Beta $1-(Xo/Ro)^2$

h/t Flat web to thickness ratio

NOTES:

1. Section properties were prepared in accordance with the North American Specification for the Design of Cold Formed Steel Structural Members, 2007 edition.

2. Allowable bending moment, Ma, was calculated in accordance with AISI Section C3.1, Procedure 1, based on the initiation of yield in the effective section.

3. Bearing stiffeners are required for all components where the h/t ratio exceeds 200.

4. Sxe and Sye are based on the effective section stressed at yield. Reference AISI Section B2.

5. Ma & Va are based on steel meeting the minimum requirements of the following specifications:

	ASTM A1003 (Fy(min)= 50 KSI)	*ASTM A1003 (Fy(min)= 33 KSI)*
Studs	97, 68 & 54* mils	43 & 33 mils
Track & Accs.	97* & 68* mils	54*, 43 & 33 mils

Fy = Minimum Yield Point

* Fy=33KSI, 50 KSI must be specified at time of order.

Upon request, Super Stud will fulfill requests for any of our components manufactured from steel meeting the minimum requirements of ASTM A1003, Grade B, Fy(min)=37 KSI and

Grade C, Fy(min)= 40 KSI.

6. The structural properties and load tables were prepared using the following base steel design thicknesses:

33 mils: 0.0346 inch

43 mils: 0.0451 inch

54 mils: 0.0566 inch

68 mils: 0.0713 inch

97 mils: 0.1017 inch

In conformance with the AISI Specification, the actual delivered base steel thickness, individual measurement, must not be less than 95 percent of the values listed above.

Super Stud also provides material in 118 mil (10 gauge) thickness, although not included in these tables.

SECTION PROPERTIES
2 1/2" - 4"
STRUCTURAL STUDS

AISI Designation	Legacy Designation	Weight lbs/ft	M_a K-in	V_a Kip	Area in^2	I_x in^4	Sx_e in^3	Rx in	Iy in^4	Sy_e in^3	Ry in	D in	JX1000 in^4	C_w in^6	R_o in	X_o in	Beta
250S137-33	2-1/2SSC20	0.689	3.263	1.037	0.202	0.208	0.165	1.013	0.056	0.060	0.526	0.501	0.081	0.086	1.666	-1.213	0.470
250S162-33	2-1/2SSJ20	0.762	3.557	1.037	0.224	0.237	0.188	1.028	0.088	0.082	0.625	0.628	0.089	0.145	1.920	-1.497	0.392
250S137-43	2-1/2SSC18	0.879	4.134	1.354	0.258	0.263	0.209	1.009	0.069	0.074	0.516	0.492	0.175	0.101	1.637	-1.181	0.480
250S132-43	2-1/2SSJ18	0.994	4.780	1.354	0.292	0.304	0.242	1.020	0.114	0.109	0.624	0.637	0.198	0.194	1.927	-1.511	0.385
250S137-54	2-1/2SSC16	1.099	7.694	2.510	0.323	0.323	0.257	1.001	0.085	0.093	0.514	0.500	0.345	0.130	1.643	-1.197	0.469
250S162-54	2-1/2SSJ16	1.243	8.897	2.510	0.365	0.373	0.297	1.011	0.141	0.137	0.622	0.645	0.390	0.250	1.935	-1.528	0.376
250S137-68	2-1/2SSC14	1.312	9.097	3.057	0.386	0.382	0.304	0.996	0.092	0.096	0.489	0.469	0.653	0.125	1.574	-1.117	0.497
250S162-68	2-1/2SSJ14	1.509	10.724	3.057	0.443	0.450	0.358	1.008	0.162	0.154	0.605	0.625	0.751	0.262	1.885	-1.474	0.389
350S137-33	3-1/2SSC20	0.806	4.992	1.046	0.237	0.452	0.253	1.381	0.063	0.060	0.515	0.431	0.095	0.168	1.827	-1.080	0.651
350S162-33	3-1/2SSJ20	0.880	5.424	1.046	0.259	0.511	0.286	1.406	0.099	0.082	0.618	0.547	0.103	0.273	2.043	-1.348	0.565
350S137-43	3-1/2SSC18	1.032	6.336	1.762	0.303	0.574	0.321	1.375	0.077	0.075	0.505	0.422	0.206	0.200	1.802	-1.050	0.661
350S162-43	3-1/2SSJ18	1.147	7.305	1.762	0.337	0.660	0.370	1.399	0.129	0.110	0.618	0.555	0.229	0.363	2.046	-1.360	0.558
350S137-54	3-1/2SSC16	1.291	11.856	3.417	0.379	0.709	0.396	1.367	0.096	0.094	0.503	0.429	0.405	0.254	1.803	-1.063	0.653
350S162-54	3-1/2SSJ16	1.436	13.670	3.417	0.422	0.815	0.457	1.390	0.160	0.139	0.616	0.563	0.451	0.463	2.050	-1.375	0.550
350S137-68	3-1/2SSC14	1.554	14.037	4.483	0.457	0.841	0.469	1.356	0.104	0.099	0.476	0.401	0.774	0.258	1.744	-0.988	0.679
350S162-68	3-1/2SSJ14	1.752	16.502	4.483	0.515	0.985	0.551	1.383	0.184	0.157	0.597	0.543	0.872	0.503	2.004	-1.321	0.565
362S125-33	3-5/8SSCW20	0.777	4.843	1.008	0.228	0.454	0.245	1.410	0.048	0.048	0.456	0.360	0.091	0.130	1.743	-0.916	0.723
362S137-33	3-5/8SSC20	0.821	5.240	1.008	0.241	0.490	0.265	1.426	0.064	0.060	0.514	0.423	0.096	0.180	1.853	-1.066	0.669
362S162-33	3-5/8SSJ20	0.895	5.691	1.008	0.263	0.554	0.300	1.452	0.100	0.082	0.617	0.538	0.105	0.293	2.064	-1.331	0.584
362S137-43	3-5/8SSC18	1.052	6.652	1.762	0.309	0.623	0.337	1.420	0.078	0.075	0.503	0.415	0.210	0.215	1.828	-1.035	0.679
362S162-43	3-5/8SSJ18	1.167	7.662	1.762	0.343	0.716	0.388	1.445	0.130	0.111	0.616	0.546	0.232	0.390	2.067	-1.344	0.577
362S200-43	3-5/8SJW18	1.311	8.715	1.762	0.385	0.837	0.455	1.474	0.227	0.163	0.768	0.728	0.261	0.726	2.418	-1.757	0.472
362S137-54	3-5/8SSC16	1.315	12.454	3.417	0.387	0.770	0.416	1.411	0.097	0.094	0.502	0.422	0.413	0.274	1.828	-1.049	0.671
362S162-54	3-5/8SSJ16	1.460	14.346	3.417	0.429	0.884	0.479	1.436	0.162	0.139	0.615	0.554	0.458	0.496	2.070	-1.358	0.570
362S200-54	3-5/8SJW16	1.676	16.415	3.417	0.493	1.048	0.569	1.459	0.299	0.221	0.778	0.763	0.526	1.063	2.473	-1.840	0.447
362S137-68	3-5/8SSC14	1.585	14.752	4.661	0.466	0.913	0.493	1.400	0.105	0.099	0.474	0.394	0.789	0.278	1.770	-0.974	0.697
362S162-68	3-5/8SSJ14	1.782	17.324	4.661	0.524	1.069	0.579	1.429	0.186	0.158	0.596	0.535	0.887	0.540	2.024	-1.305	0.585
362S200-68	3-5/8SJW14	2.055	20.770	4.661	0.604	1.277	0.694	1.454	0.351	0.259	0.762	0.744	1.023	1.175	2.427	-1.787	0.458
362S200-97	3-5/8SJW12	2.723	27.148	6.339	0.800	1.672	0.907	1.446	0.407	0.284	0.713	0.683	2.759	1.160	2.291	-1.628	0.495
400S125-33	4SSCW20	0.821	5.558	0.909	0.241	0.572	0.281	1.540	0.049	0.048	0.451	0.342	0.096	0.161	1.830	-0.880	0.769
400S137-33	4SSC20	0.865	6.003	0.909	0.254	0.617	0.304	1.558	0.066	0.060	0.508	0.403	0.101	0.222	1.933	-1.025	0.719
400S162-33	4SSJ20	0.939	6.510	0.909	0.276	0.696	0.343	1.588	0.103	0.083	0.612	0.513	0.110	0.359	2.132	-1.285	0.637
400S137-43	4SSC18	1.109	7.627	1.762	0.326	0.785	0.386	1.552	0.081	0.075	0.497	0.394	0.221	0.266	1.910	-0.996	0.728
400S162-43	4SSJ18	1.224	8.759	1.762	0.360	0.899	0.443	1.581	0.135	0.111	0.612	0.522	0.244	0.475	2.134	-1.297	0.631
400S200-43	4SJW18	1.368	9.940	1.762	0.402	1.049	0.518	1.615	0.235	0.164	0.765	0.698	0.273	0.877	2.468	-1.702	0.524
400S250-43	4SSW18	1.541	10.852	1.762	0.453	1.235	0.611	1.652	0.413	0.237	0.955	0.929	0.307	1.598	2.924	-2.215	0.426
400S137-54	4SSC16	1.387	14.299	3.417	0.408	0.971	0.478	1.543	0.100	0.095	0.496	0.402	0.435	0.337	1.909	-1.008	0.721
400S162-54	4SSJ16	1.532	16.423	3.417	0.450	1.113	0.549	1.572	0.168	0.140	0.610	0.529	0.481	0.603	2.136	-1.310	0.624
400S200-54	4SJW16	1.749	18.764	3.417	0.514	1.317	0.650	1.601	0.310	0.223	0.776	0.732	0.549	1.269	2.519	-1.783	0.499
400S250-54	4SSW16	1.977	20.506	3.417	0.581	1.552	0.766	1.634	0.548	0.326	0.971	0.975	0.621	2.396	3.004	-2.326	0.400
400S137-68	4SSC14	1.676	16.960	5.196	0.492	1.153	0.566	1.530	0.108	0.101	0.468	0.375	0.835	0.347	1.853	-0.935	0.746
400S162-68	4SSJ14	1.873	19.851	5.196	0.550	1.346	0.663	1.564	0.192	0.161	0.591	0.511	0.933	0.662	2.092	-1.258	0.639
400S200-68	4SJW14	2.146	23.733	5.196	0.631	1.606	0.793	1.596	0.364	0.263	0.759	0.714	1.069	1.412	2.473	-1.731	0.510
400S250-68	4SSW14	2.510	27.674	5.196	0.738	1.931	0.955	1.618	0.700	0.433	0.974	1.001	1.250	3.303	3.043	-2.386	0.385

Flange Width: SSCW=1-1/4", SSC=1-3/8", SSJ=1-5/8", SJW=2" and SSW=2-1/2"

SECTION PROPERTIES
4” - 8”
STRUCTURAL STUDS & JOISTS

AISI Designation	Legacy Designation	Weight lbs/ft	M_a K-in	V_a Kip	Area in^2	I_x in^4	Sx_e in^3	Rx in	Iy in^4	Sy_e in^3	Ry in	D in	JX1000 in^4	C_w in^6	R_o in	X_o in	Beta
400S200-97	4SJW12	2.853	31.051	7.102	0.838	2.103	1.037	1.584	0.421	0.292	0.709	0.655	2.890	1.427	2.342	-1.574	0.549
400S250-97	4SSW12	3.393	38.425	7.102	0.997	2.595	1.283	1.613	0.875	0.526	0.937	0.952	3.438	3.587	2.926	-2.255	0.406
550S137-33	5-1/2SSC20	1.042	9.365	0.652	0.306	1.313	0.474	2.071	0.072	0.061	0.485	0.337	0.122	0.443	2.307	-0.893	0.850
550S162-33	5-1/2SSJ20	1.115	10.104	0.652	0.328	1.465	0.529	2.114	0.114	0.083	0.590	0.435	0.131	0.705	2.469	-1.132	0.790
550S137-43	5-1/2SSC18	1.339	11.929	1.452	0.394	1.673	0.604	2.062	0.088	0.076	0.474	0.330	0.267	0.536	2.286	-0.866	0.857
550S162-43	5-1/2SSJ18	1.454	13.556	1.452	0.427	1.900	0.686	2.108	0.149	0.113	0.590	0.443	0.290	0.929	2.469	-1.142	0.786
550S137-54	5-1/2SSC16	1.676	22.448	2.902	0.493	2.078	0.750	2.054	0.110	0.096	0.473	0.337	0.526	0.678	2.282	-0.876	0.853
550S162-54	5-1/2SSJ16	1.821	25.510	2.902	0.535	2.360	0.852	2.100	0.185	0.142	0.589	0.450	0.571	1.174	2.467	-1.152	0.782
550S137-68	5-1/2SSC14	2.040	26.758	5.422	0.599	2.478	0.894	2.033	0.118	0.103	0.444	0.314	1.016	0.714	2.233	-0.809	0.869
550S162-68	5-1/2SSJ14	2.237	30.932	5.422	0.657	2.862	1.033	2.086	0.212	0.164	0.568	0.433	1.114	1.316	2.428	-1.103	0.794
600S137-33	6SSCW20	1.057	9.899	0.596	0.311	1.513	0.501	2.207	0.055	0.049	0.420	0.269	0.124	0.396	2.362	-0.729	0.905
600S137-33	6SSC20	1.101	10.598	0.596	0.323	1.619	0.536	2.237	0.074	0.061	0.478	0.320	0.129	0.537	2.443	-0.857	0.877
600S162-33	6SSJ20	1.174	11.415	0.596	0.345	1.801	0.597	2.284	0.117	0.084	0.582	0.414	0.138	0.853	2.597	-1.089	0.824
600S137-43	6SSC18	1.416	13.508	1.326	0.416	2.064	0.684	2.227	0.090	0.077	0.466	0.314	0.282	0.652	2.422	-0.830	0.882
600S162-43	6SSJ18	1.531	15.301	1.326	0.450	2.336	0.774	2.279	0.153	0.113	0.582	0.422	0.305	1.123	2.596	-1.099	0.821
600S200-43	6SJW18	1.675	17.174	1.326	0.492	2.686	0.891	2.336	0.269	0.167	0.739	0.575	0.334	2.013	2.855	-1.467	0.736
600S250-43	6SSW18	1.848	18.661	1.326	0.543	3.116	1.032	2.396	0.475	0.241	0.935	0.778	0.368	3.594	3.222	-1.941	0.637
600S137-54	6SSC16	1.773	25.440	2.648	0.521	2.566	0.850	2.219	0.113	0.096	0.465	0.320	0.556	0.823	2.418	-0.840	0.879
600S162-54	6SSJ16	1.917	28.817	2.648	0.563	2.904	0.963	2.270	0.190	0.142	0.581	0.428	0.602	1.418	2.593	-1.109	0.817
600S200-54	6SJW16	2.134	32.643	2.648	0.627	3.396	1.126	2.327	0.356	0.227	0.753	0.605	0.670	2.804	2.889	-1.538	0.717
600S250-54	6SSW16	2.362	35.484	2.648	0.694	3.947	1.305	2.384	0.632	0.332	0.954	0.821	0.741	5.132	3.280	-2.040	0.613
600S137-68	6SSC14	2.161	30.371	5.362	0.635	3.064	1.014	2.197	0.121	0.103	0.436	0.299	1.076	0.872	2.369	-0.774	0.893
600S162-68	6SSJ14	2.358	34.975	5.362	0.693	3.525	1.168	2.255	0.218	0.165	0.561	0.413	1.174	1.596	2.555	-1.061	0.828
600S200-68	6SJW14	2.631	41.211	5.362	0.773	4.150	1.376	2.317	0.417	0.269	0.734	0.589	1.310	3.202	2.850	-1.488	0.727
600S250-68	6SSW14	2.995	47.731	5.362	0.880	4.947	1.642	2.371	0.812	0.444	0.960	0.844	1.491	6.877	3.305	-2.093	0.599
600S200-97	6SJW12	3.545	54.215	11.030	1.042	5.462	1.811	2.290	0.481	0.309	0.679	0.537	3.592	3.466	2.740	-1.343	0.760
600S250-97	6SSW12	4.086	66.226	11.030	1.201	6.665	2.212	2.356	1.012	0.558	0.918	0.799	4.139	7.943	3.204	-1.967	0.623
725S162-43	7-1/4SSJ18	1.723	19.734	1.090	0.506	3.680	0.999	2.696	0.161	0.113	0.563	0.377	0.343	1.706	2.932	-1.006	0.882
725S200-43	7-1/4SJW18	1.867	22.027	1.090	0.549	4.197	1.141	2.766	0.284	0.167	0.720	0.518	0.372	3.031	3.162	-1.354	0.817
725S162-54	7-1/4SSJ16	2.158	37.221	2.173	0.634	4.581	1.243	2.688	0.200	0.143	0.562	0.384	0.677	2.151	2.927	-1.014	0.880
725S200-54	7-1/4SJW16	2.375	41.947	2.173	0.698	5.318	1.446	2.761	0.377	0.227	0.735	0.547	0.745	4.176	3.190	-1.420	0.802
725S162-68	7-1/4SSJ14	2.661	45.253	4.390	0.782	5.573	1.511	2.669	0.229	0.165	0.541	0.370	1.325	2.439	2.891	-0.969	0.888
725S200-68	7-1/4SJW14	2.934	52.973	4.390	0.862	6.508	1.769	2.747	0.441	0.269	0.715	0.532	1.461	4.808	3.153	-1.372	0.811
725S162-97	7-1/4SSJ12	3.588	58.558	11.030	1.054	7.224	1.956	2.617	0.240	0.172	0.477	0.326	3.635	2.556	2.789	-0.835	0.910
725S200-97	7-1/4SJW12	3.977	69.871	11.030	1.169	8.594	2.334	2.711	0.508	0.310	0.659	0.484	4.030	5.319	3.051	-1.234	0.836
800S162-43	8SSJ18	1.838	22.790	0.985	0.540	4.673	1.153	2.941	0.165	0.114	0.552	0.355	0.366	2.126	3.142	-0.958	0.907
800S200-43	8SJW18	1.982	25.181	0.985	0.582	5.307	1.312	3.019	0.292	0.167	0.708	0.489	0.395	3.764	3.360	-1.295	0.852
800S250-43	8SSW18	2.155	26.388	0.985	0.633	6.084	1.506	3.100	0.519	0.242	0.905	0.671	0.429	6.663	3.665	-1.734	0.776
800S162-54	8SSJ16	2.302	43.016	1.962	0.677	5.822	1.437	2.933	0.205	0.143	0.551	0.361	0.722	2.679	3.137	-0.966	0.905
800S200-54	8SJW16	2.519	48.314	1.962	0.740	6.729	1.663	3.015	0.387	0.227	0.723	0.517	0.790	5.162	3.385	-1.358	0.839
800S250-54	8SSW16	2.748	50.919	1.962	0.807	7.731	1.912	3.094	0.694	0.333	0.927	0.709	0.862	9.310	3.710	-1.824	0.758
800S162-68	8SSJ14	2.843	52.367	3.959	0.836	7.091	1.749	2.913	0.235	0.165	0.530	0.348	1.416	3.047	3.101	-0.921	0.912
800S200-68	8SJW14	3.116	60.981	3.959	0.916	8.242	2.037	3.000	0.454	0.270	0.704	0.503	1.552	5.964	3.349	-1.311	0.847
800S250-68	8SSW14	3.480	70.087	3.959	1.023	9.725	2.407	3.084	0.892	0.446	0.934	0.731	1.733	12.318	3.726	-1.872	0.748

Flange Width: SSCW=1-1/4”, SSC=1-3/8”, SSJ=1-5/8”, SJW=2” and SSW=2-1/2”

SECTION PROPERTIES
8” - 16”
STRUCTURAL STUDS & JOISTS

AISI Designation	Legacy Designation	Weight lbs/ft	M_a K-in	V_a Kip	Area in^2	I_x in^4	Sx_e in^3	Rx in	Iy in^4	Sy_e in^3	Ry in	D in	JX1000 in^4	C_w in^6	R_o in	X_o in	Beta
800S162-97	8SSJ12	3.848	68.023	11.030	1.131	9.223	2.272	2.856	0.246	0.173	0.466	0.307	3.898	3.218	3.000	-0.792	0.930
800S200-97	8SJW12	4.237	80.615	11.030	1.245	10.905	2.693	2.959	0.521	0.311	0.647	0.457	4.293	6.661	3.250	-1.178	0.869
800S250-97	8SSW12	4.778	97.324	11.030	1.404	13.137	3.251	3.059	1.110	0.562	0.889	0.691	4.841	14.658	3.636	-1.753	0.768
925S162-43	9-1/4SSJ18	2.030	25.485	0.849	0.597	6.672	1.429	3.344	0.170	0.114	0.534	0.324	0.404	2.946	3.501	-0.888	0.936
925S250-43	9-1/4SSW18	2.174	28.263	0.639	0.639	7.526	1.614	3.432	0.303	0.168	0.689	0.448	0.433	5.199	3.703	-1.208	0.894
925S162-54	9-1/4SSJ16	2.543	49.139	1.688	0.747	8.319	1.782	3.336	0.212	0.143	0.533	0.330	0.798	3.711	3.495	-0.895	0.934
925S200-54	9-1/4SJW16	2.760	54.733	1.688	0.811	9.551	2.048	3.432	0.403	0.228	0.705	0.474	0.866	7.090	3.726	-1.267	0.884
925S162-68	9-1/4SSJ14	3.147	65.089	3.403	0.925	10.151	2.174	3.313	0.243	0.166	0.512	0.318	1.567	4.237	3.459	-0.853	0.939
925S200-68	9-1/4SJW14	3.420	75.194	3.403	1.005	11.712	2.511	3.414	0.472	0.271	0.685	0.461	1.703	8.229	3.690	-1.223	0.890
925S162-97	9-1/4SSJ12	4.280	85.031	10.047	1.258	13.272	2.840	3.248	0.253	0.174	0.449	0.281	4.337	4.517	3.359	-0.730	0.953
925S200-97	9-1/4SJW12	4.670	99.757	10.047	1.372	15.547	3.332	3.366	0.540	0.313	0.627	0.420	4.731	9.295	3.595	-1.095	0.907
1000S162-54	10SSJ16	2.687	52.165	1.558	0.790	10.094	2.003	3.575	0.216	0.143	0.523	0.314	0.843	4.424	3.714	-0.858	0.947
1000S200-54	10SJW16	2.904	58.457	1.558	0.853	11.544	2.293	3.678	0.411	0.228	0.694	0.452	0.911	8.422	3.936	-1.219	0.904
1000S250-54	10SSW16	3.133	62.108	1.558	0.921	13.131	2.611	3.777	0.740	0.334	0.896	0.626	0.983	15.084	4.219	-1.654	0.846
1000S162-68	10SSJ14	3.329	73.245	3.138	0.978	12.329	2.446	3.550	0.247	0.166	0.502	0.303	1.658	5.060	3.677	-0.816	0.951
1000S200-68	10SJW14	3.602	84.246	3.138	1.058	14.166	2.814	3.658	0.481	0.272	0.674	0.440	1.794	9.795	3.901	-1.176	0.909
1000S250-68	10SSW14	3.965	96.031	3.138	1.165	16.549	3.290	3.768	0.952	0.448	0.904	0.646	1.975	19.827	4.231	-1.697	0.839
1000S162-97	10SSJ12	4.540	95.981	9.253	1.334	16.167	3.206	3.481	0.257	0.174	0.439	0.268	4.600	5.417	3.577	-0.698	0.962
1000S200-97	10SJW12	4.929	111.989	9.253	1.449	18.840	3.740	3.606	0.550	0.314	0.616	0.400	4.994	11.122	3.807	-1.051	0.924
1000S250-97	10SSW12	5.470	133.419	9.253	1.607	22.419	4.456	3.735	1.182	0.566	0.858	0.610	5.542	23.993	4.146	-1.585	0.854
1150S162-54	11-1/2SSJ16	2.976	58.517	1.350	0.875	14.323	2.477	4.047	0.222	0.144	0.504	0.286	0.934	6.066	4.154	-0.792	0.964
1150S250-54	11-1/2SSW16	3.422	70.614	1.350	1.006	18.377	3.182	4.275	0.767	0.335	0.874	0.575	1.074	20.531	4.630	-1.548	0.888
1150S162-68	11-1/2SSJ14	3.693	83.505	2.716	1.085	17.526	3.031	4.019	0.253	0.166	0.483	0.277	1.839	6.957	4.117	-0.753	0.967
1150S250-68	11-1/2SSW14	4.329	109.335	2.716	1.272	23.181	4.014	4.268	0.989	0.449	0.882	0.595	2.156	26.910	4.639	-1.588	0.883
1150S162-97	11-1/2SSJ12	5.059	119.570	7.990	1.487	23.105	3.994	3.942	0.264	0.175	0.421	0.246	5.126	7.493	4.016	-0.641	0.975
1150S250-97	11-1/2SSW12	5.989	163.121	7.990	1.760	31.468	5.448	4.228	1.226	0.568	0.835	0.561	6.068	32.829	4.557	-1.480	0.895
1200S162-54	12SSJ16	3.073	60.691	1.292	0.903	15.947	2.645	4.202	0.224	0.144	0.498	0.278	0.964	6.679	4.302	-0.773	0.968
1200S200-54	12SJW16	3.289	68.622	1.292	0.967	18.067	2.998	4.323	0.429	0.229	0.666	0.403	1.032	12.644	4.512	-1.108	0.940
1200S250-54	12SSW16	3.518	73.465	1.292	1.034	20.373	3.382	4.439	0.776	0.335	0.866	0.560	1.104	22.568	4.770	-1.516	0.899
1200S162-68	12SSJ14	3.814	86.019	2.599	1.121	19.524	3.237	4.174	0.255	0.167	0.477	0.269	1.899	7.665	4.265	-0.734	0.970
1200S200-68	12SJW14	4.087	103.953	2.599	1.201	22.208	3.685	4.300	0.501	0.272	0.646	0.392	2.035	14.762	4.477	-1.067	0.943
1200S250-68	12SSW14	4.451	113.355	2.599	1.308	25.704	4.267	4.433	1.000	0.449	0.874	0.580	2.216	29.557	4.779	-1.555	0.894
1200S162-97	12SSJ12	5.232	127.935	7.642	1.538	25.781	4.273	4.095	0.265	0.175	0.416	0.239	5.301	8.268	4.163	-0.624	0.978
1200S200-97	12SJW12	5.621	147.361	7.642	1.652	29.674	4.922	4.238	0.572	0.315	0.588	0.357	5.695	16.927	4.383	-0.950	0.953
1200S250-97	12SSW12	6.162	173.525	7.642	1.811	34.917	5.796	4.391	1.239	0.568	0.827	0.547	6.243	36.137	4.697	-1.449	0.905
1400S200-54	14SJW16	3.675	79.140	1.104	1.080	26.524	3.331	4.956	0.443	0.229	0.641	0.363	1.153	17.868	5.100	-1.017	0.960
1400S200-68	14SJW14	4.572	113.246	2.218	1.344	32.654	4.650	4.930	0.517	0.273	0.621	0.354	2.277	20.915	5.064	-0.978	0.963
1400S250-68	14SSW14	4.936	129.723	2.218	1.451	37.477	5.339	5.083	1.038	0.450	0.846	0.526	2.458	41.626	5.349	-1.437	0.928
1400S200-97	14SJW12	6.313	186.758	6.509	1.855	43.813	6.238	4.859	0.589	0.316	0.563	0.324	6.397	24.130	4.968	-0.868	0.970
1400S250-97	14SSW12	6.854	217.663	6.509	2.014	51.038	7.270	5.034	1.284	0.570	0.798	0.497	6.944	51.238	5.269	-1.335	0.936
1600S250-68	16SSW14	5.421	146.438	1.935	1.593	52.152	6.192	5.721	1.069	0.450	0.819	0.482	2.700	56.124	5.932	-1.336	0.949
1600S250-97	16SSW12	7.546	251.869	5.669	2.218	71.191	8.879	5.666	1.321	0.571	0.772	0.456	7.646	69.405	5.851	-1.240	0.955

Flange Width: SSJ=1-5/8”, SJW=2” and SSW=2-1/2”

SECTION PROPERTIES
STRUCTURAL TRACKS

	AISI Designation	Legacy Designation	Weight lbs/ft	M_a K-in	V_a Kip	Area in^2	I_x in^4	Sx_e in^3	Rx in	Iy in^4	Sy_e in^3	Ry in	D in	JX1000 in^4	C_w in^6	R_o in	X_o in	Beta
2-1/2" Track	250T125-33	2-1/2TR20	0.595	2.072	1.037	0.175	0.200	0.117	1.069	0.027	0.029	0.396	0.318	0.070	0.034	1.373	-0.764	0.690
	250T125-43	2-1/2TR18	0.770	2.947	1.466	0.226	0.256	0.168	1.064	0.035	0.038	0.394	0.323	0.153	0.043	1.368	-0.763	0.689
	250T125-54	2-1/2TR16	0.959	3.992	1.796	0.282	0.315	0.225	1.058	0.043	0.047	0.393	0.329	0.301	0.053	1.363	-0.764	0.686
	250T125-68	2-1/2TR14	1.194	7.604	3.324	0.351	0.387	0.281	1.050	0.054	0.059	0.390	0.336	0.595	0.065	1.357	-0.765	0.682
3-1/2" Track	350T125-33	3-1/2TR20	0.712	3.312	0.990	0.209	0.417	0.184	1.412	0.030	0.029	0.378	0.269	0.084	0.072	1.609	-0.672	0.826
	350T125-43	3-1/2TR18	0.924	4.651	1.762	0.271	0.537	0.259	1.407	0.039	0.038	0.377	0.273	0.184	0.092	1.603	-0.670	0.825
	350T125-54	3-1/2TR16	1.151	6.236	2.544	0.338	0.663	0.346	1.400	0.048	0.049	0.375	0.278	0.361	0.113	1.597	-0.670	0.824
	350T125-68	3-1/2TR14	1.437	11.895	4.750	0.422	0.818	0.434	1.392	0.059	0.061	0.373	0.285	0.716	0.139	1.589	-0.670	0.822
3-5/8" Track	362T125-33	3-5/8TR20	0.727	3.484	0.956	0.214	0.451	0.193	1.454	0.030	0.029	0.376	0.264	0.085	0.078	1.641	-0.662	0.837
	362T125-43	3-5/8TR18	0.943	4.885	1.762	0.277	0.581	0.272	1.448	0.039	0.038	0.375	0.268	0.188	0.099	1.635	-0.660	0.837
	362T125-54	3-5/8TR16	1.175	6.543	2.637	0.345	0.718	0.362	1.442	0.048	0.049	0.373	0.273	0.369	0.122	1.629	-0.660	0.836
	362T125-68	3-5/8TR14	1.467	12.482	4.928	0.431	0.886	0.454	1.433	0.059	0.061	0.371	0.280	0.731	0.150	1.621	-0.660	0.834
4" Track	400T125-33	4TR20	0.771	4.021	0.866	0.227	0.564	0.221	1.578	0.031	0.029	0.370	0.249	0.090	0.097	1.740	-0.634	0.867
	400T125-43	4TR18	1.001	5.617	1.762	0.294	0.727	0.311	1.572	0.040	0.038	0.368	0.254	0.199	0.124	1.734	-0.632	0.867
	400T125-54	4TR16	1.247	7.500	2.776	0.367	0.899	0.413	1.566	0.049	0.049	0.367	0.259	0.391	0.153	1.728	-0.632	0.866
	400T125-68	4TR14	1.558	14.311	5.422	0.458	1.110	0.518	1.557	0.061	0.061	0.365	0.266	0.776	0.188	1.719	-0.631	0.865
5-1/2" Track	550T125-33	5-1/2TR20	0.948	6.128	0.630	0.279	1.184	0.355	2.061	0.033	0.029	0.346	0.206	0.111	0.198	2.160	-0.544	0.937
	550T125-43	5-1/2TR18	1.231	8.968	1.402	0.362	1.529	0.488	2.056	0.043	0.039	0.344	0.211	0.245	0.255	2.154	-0.542	0.937
	550T125-54	5-1/2TR16	1.536	11.857	2.801	0.451	1.895	0.644	2.049	0.053	0.049	0.343	0.216	0.482	0.314	2.146	-0.541	0.937
	550T125-68	5-1/2TR14	1.922	22.637	5.422	0.565	2.349	0.809	2.039	0.065	0.061	0.340	0.222	0.957	0.387	2.137	-0.540	0.936
6" Track	600T125-33	6TR20	1.007	6.589	0.577	0.296	1.457	0.407	2.219	0.034	0.029	0.338	0.195	0.118	0.242	2.304	-0.519	0.949
	600T125-43	6TR18	1.307	10.235	1.285	0.384	1.883	0.555	2.213	0.044	0.039	0.337	0.200	0.261	0.310	2.298	-0.517	0.949
	600T125-54	6TR16	1.633	13.497	2.564	0.480	2.335	0.730	2.206	0.054	0.049	0.335	0.205	0.512	0.382	2.290	-0.516	0.949
	600T125-68	6TR14	2.043	25.770	5.190	0.601	2.897	0.918	2.196	0.067	0.062	0.333	0.211	1.018	0.471	2.280	-0.515	0.949
7-1/4" Track	725T125-33	7-1/4TR20	1.154	7.776	0.477	0.339	2.307	0.553	2.608	0.035	0.029	0.321	0.172	0.135	0.370	2.669	-0.467	0.969
	725T125-43	7-1/4TR18	1.499	13.561	1.062	0.441	2.984	0.739	2.602	0.045	0.039	0.320	0.177	0.299	0.475	2.663	-0.465	0.969
	725T125-54	7-1/4TR16	1.873	18.008	2.116	0.551	3.706	0.967	2.594	0.056	0.049	0.318	0.182	0.588	0.587	2.655	-0.464	0.969
	725T125-68	7-1/4TR14	2.347	34.385	4.274	0.690	4.605	1.215	2.584	0.069	0.062	0.316	0.188	1.169	0.724	2.644	-0.462	0.969
8" Track	800T125-33	8TR20	1.242	8.508	0.433	0.365	2.942	0.650	2.839	0.036	0.029	0.312	0.161	0.146	0.462	2.890	-0.441	0.977
	800T125-43	8TR18	1.614	14.618	0.962	0.474	3.807	0.868	2.833	0.046	0.039	0.311	0.166	0.322	0.593	2.883	-0.439	0.977
	800T125-54	8TR16	2.018	20.995	1.915	0.593	4.731	1.123	2.825	0.057	0.050	0.309	0.171	0.633	0.733	2.875	-0.438	0.977
	800T125-68	8TR14	2.529	40.089	3.864	0.743	5.885	1.411	2.814	0.070	0.062	0.307	0.177	1.259	0.904	2.864	-0.436	0.977
9-1/4" Track	925T125-43	9-1/4TR18	1.806	16.473	0.831	0.531	5.481	1.102	3.213	0.047	0.039	0.297	0.151	0.360	0.822	3.252	-0.402	0.985
	925T125-54	9-1/4TR16	2.259	26.440	1.654	0.664	6.817	1.406	3.205	0.058	0.050	0.296	0.156	0.709	1.016	3.243	-0.400	0.985
	925T125-68	9-1/4TR14	2.832	50.488	3.333	0.832	8.490	1.768	3.194	0.072	0.062	0.294	0.162	1.410	1.254	3.232	-0.398	0.985
10" Track	1000T125-43	10TR18	1.921	17.621	0.769	0.565	6.681	1.254	3.440	0.047	0.039	0.290	0.143	0.383	0.979	3.473	-0.382	0.988
	1000T125-54	10TR16	2.403	28.510	1.528	0.706	8.314	1.597	3.431	0.059	0.050	0.288	0.148	0.754	1.210	3.464	-0.380	0.988
	1000T125-68	10TR14	3.014	56.582	3.078	0.886	10.360	2.002	3.420	0.073	0.062	0.286	0.155	1.501	1.494	3.453	-0.379	0.988
	1000T125-97	10TR12	4.260	84.874	9.073	1.252	14.446	2.835	3.397	0.100	0.089	0.282	0.168	4.316	2.045	3.429	-0.375	0.988
11-1/2" Track	1150T125-54	11-1/2TR16	2.692	31.708	1.327	0.791	11.916	2.017	3.881	0.060	0.050	0.275	0.135	0.845	1.652	3.906	-0.347	0.992
	1150T125-68	11-1/2TR14	3.378	62.747	2.671	0.993	14.864	2.530	3.870	0.074	0.062	0.273	0.142	1.682	2.041	3.895	-0.345	0.992
	1150T125-97	11-1/2TR12	4.779	106.370	7.856	1.404	20.771	3.553	3.846	0.102	0.089	0.269	0.155	4.842	2.796	3.870	-0.341	0.992
12" Track	1200T125-54	12TR16	2.788	32.836	1.272	0.819	13.310	2.167	4.030	0.060	0.050	0.271	0.132	0.875	1.816	4.053	-0.337	0.993
	1200T125-68	12TR14	3.499	64.896	2.558	1.028	16.608	2.718	4.019	0.074	0.062	0.269	0.138	1.743	2.244	4.042	-0.335	0.993
	1200T125-97	12TR12	4.952	114.043	7.520	1.455	23.222	3.809	3.995	0.102	0.089	0.265	0.152	5.017	3.074	4.017	-0.331	0.993
14" Track	1400T125-68	14TR14	3.984	74.031	2.188	1.171	24.914	3.510	4.613	0.076	0.062	0.254	0.126	1.984	3.158	4.629	-0.300	0.996
	1400T125-97	14TR12	5.644	147.273	6.420	1.659	34.911	4.919	4.588	0.104	0.089	0.250	0.139	5.718	4.329	4.604	-0.296	0.996
16" Track	1600T125-68	16TR14	4.470	83.643	1.912	1.314	35.563	4.392	5.203	0.077	0.062	0.242	0.116	2.226	4.236	5.216	-0.272	0.997
	1600T125-97	16TR12	6.336	169.554	5.601	1.862	49.919	6.164	5.178	0.105	0.090	0.238	0.130	6.420	5.810	5.190	-0.268	0.997

Flange Width: TR Track = 1-1/4"

SUGGESTED DESIGN GUIDES
LIMITING HEIGHTS
CURTAIN WALL STUDS SUBJECTED TO LATERAL LOAD

USE:

Tables allow for the selection of an axially loaded stud in the absence or presence of bending due to lateral load. The values assume the studs are typically bridged at intervals not to exceed 48" on center with alternative labor saving values published for 9 and 10 foot high walls where a single row of bridging at mid-height of the wall would suffice.

Select a stud, based on applied lateral load, spacing and height providing an allowable axial load in excess of the applied load.

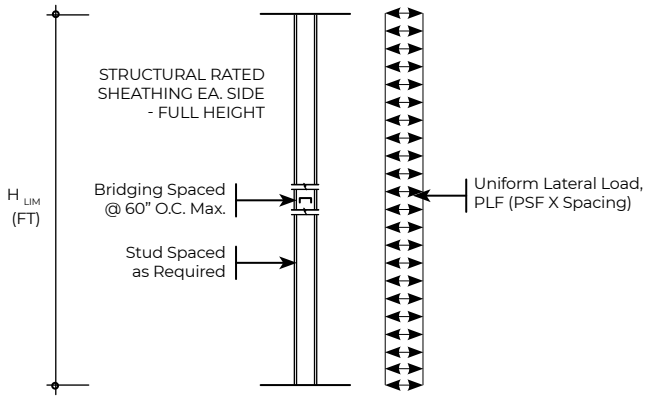
NOTES:

1. Values shown are limited to studs subjected to uniform loads in simply supported applications. Conditions requiring cantilevers, concentrated loads, eccentricities, multiple spans, etc. should be investigated separately.
2. Studs shall be braced against rotation by structural sheathing materials applied full height to each side of the wall. The installation of mechanical bridging spaced at intervals not to exceed 5'-0" on center provides adequate rotation restraint for walls under construction before the installation of sheathing materials.

   In applications where the wall is not sheathed full height or sheathed on one side only, continuous bridging spaced 4'-0" on center shall provide rotational support. Reductions in allowable bending capacity must be investigated separately.

   If sheathing products are considered as a method of bracing, they must maintain their integrity during the course of construction and the service life of the wall.

   Stud ends shall be restrained against rotation by means of a fixed attachment to each side of continuous tracks. An exception is made where the stud terminates at a deflection track in which case continuous bridging shall be provided below the track.
3. Deflections were calculated without regard to the composite contribution of collateral materials.
4. Contact Super Stud for limiting height values of sections not shown herein.



Note: All tables based on Fy=50 KSI for 54, 68, and 97 mil material, Fy=33 KSI for 33 and 43 mil material.

SUGGESTED DESIGN GUIDES
LIMITING HEIGHTS
(FEET & INCHES)

5 PSF LATERAL LOAD

		L/240			L/360			L/600			L/720		
AISI Designation	Legacy Designation	12"	16"	24"	12"	16"	24"	12"	16"	24"	12"	16"	24"
250S137-33	2-1/2SSC20	14' 0"	12' 8"	11' 1"	12' 2"	11' 1"	9' 8"	10' 4"	9' 4"	8' 5"	9' 8"	8' 10"	7' 8"
250S162-33	2-1/2SSJ20	14' 2"	13' 0"	11' 6"	12' 6"	11' 5"	10' 0"	10' 8"	9' 8"	8' 5"	10' 1"	9' 2"	8' 0"
250S137-43	2-1/2SSC18	15' 1"	13' 8"	12' 0"	13' 2"	12' 0"	10' 6"	11' 1"	10' 1"	8' 10"	10' 6"	9' 6"	8' 4"
250S162-43	2-1/2SSJ18	15' 7"	14' 1"	12' 2"	13' 8"	12' 5"	10' 10"	11' 6"	10' 5"	9' 0"	11' 0"	10' 0"	8' 8"
250S137-54	2-1/2SSC16	16' 2"	14' 8"	12' 10"	14' 1"	12' 10"	11' 2"	11' 11"	10' 10"	9' 6"	11' 2"	10' 2"	8' 11"
250S162-54	2-1/2SSJ16	16' 10"	15' 0"	13' 0"	14' 7"	13' 2"	11' 7"	12' 1"	11' 0"	9' 8"	11' 10"	10' 8"	9' 4"
250S137-68	2-1/2SSC14	17' 1"	15' 6"	13' 7"	14' 11"	13' 7"	11' 11"	12' 7"	11' 6"	10' 0"	11' 11"	10' 10"	9' 5"
250S162-68	2-1/2SSJ14	17' 11"	16' 0"	14' 0"	15' 8"	14' 0"	12' 5"	13' 2"	10' 8"	10' 7"	12' 6"	11' 5"	9' 11"
362S125-33	3-5/8SSCW20	17' 1"	15' 6"	13' 6"	15' 0"	13' 6"	12' 0"	13' 5"	12' 1"	10' 7"	12' 7"	11' 5"	10' 0"
362S137-33	3-5/8SSC20	18' 2"	16' 7"	14' 6"	16' 0"	14' 6"	12' 8"	13' 7"	12' 0"	10' 8"	12' 11"	11' 8"	10' 2"
362S162-33	3-5/8SSJ20	19' 1"	17' 5"	15' 1"	16' 10"	15' 1"	13' 2"	14' 0"	13' 0"	11' 1"	13' 1"	11' 11"	10' 5"
362S125-43	3-5/8SSCW18	19' 11"	18' 0"	15' 8"	17' 5"	15' 8"	13' 8"	14' 8"	13' 2"	11' 7"			
362S137-43	3-5/8SSC18	21' 0"	19' 0"	16' 7"	18' 1"	16' 8"	14' 6"	15' 5"	14' 0"	12' 1"	13' 7"	12' 4"	10' 10"
362S162-43	3-5/8SSJ18	21' 0"	19' 0"	16' 7"	18' 1"	16' 8"	14' 6"	15' 5"	14' 0"	12' 1"	14' 7"	13' 4"	11' 7"
362S137-54	3-5/8SSC16	21' 5"	19' 5"	17' 0"	18' 8"	17' 0"	14' 10"	15' 8"	14' 1"	12' 6"	14' 7"	13' 2"	11' 7"
362S162-54	3-5/8SSJ16	22' 5"	20' 4"	17' 10"	19' 7"	17' 10"	15' 6"	16' 6"	15' 0"	13' 0"	15' 8"	14' 4"	12' 6"
362S125-54	3-5/8SSW16	23' 8"	21' 7"	18' 11"	20' 10"	19' 0"	16' 6"	17' 7"	16' 0"	14' 0"	16' 7"	15' 1"	13' 2"
362S137-68	3-5/8SSC14	22' 11"	20' 8"	18' 0"	20' 0"	18' 0"	15' 10"	17' 0"	15' 0"	13' 4"	15' 5"	14' 0"	12' 2"
362S162-68	3-5/8SSJ14	24' 0"	22' 0"	19' 0"	21' 0"	19' 0"	16' 8"	17' 7"	16' 0"	14' 0"	16' 4"	14' 10"	12' 11"
362S200-68	3-5/8SJW14	23' 0"	21' 0"	18' 0"	20' 0"	18' 0"	16' 0"	18' 11"	17' 0"	15' 0"	17' 8"	16' 1"	14' 1"
400S125-33	4SSCW20	19' 7"	17' 10"	15' 6"	17' 1"	15' 6"	13' 7"	14' 5"	13' 1"	11' 5"	13' 7"	12' 4"	10' 10"
400S137-33	4SSC20	19' 8"	17' 11"	15' 7"	17' 0"	15' 7"	13' 8"	14' 6"	13' 0"	11' 6"	13' 11"	12' 7"	11' 0"
400S162-33	4SSJ20	20' 8"	18' 10"	16' 5"	18' 0"	16' 5"	14' 1"	15' 0"	13' 11"	12' 0"	14' 6"	13' 2"	11' 6"
400S137-43	4SSC18	21' 6"	19' 6"	17' 0"	18' 8"	17' 0"	15' 0"	16' 0"	14' 5"	12' 7"	15' 1"	13' 8"	12' 0"
400S162-43	4SSJ18	22' 6"	20' 6"	18' 0"	19' 8"	18' 0"	15' 8"	16' 7"	15' 0"	13' 0"	15' 10"	14' 4"	12' 6"
400S200-43	4SJW18	24' 0"	22' 0"	19' 0"	21' 0"	19' 0"	16' 7"	17' 8"	16' 0"	14' 0"	16' 7"	15' 1"	13' 2"
400S250-43	4SSW18	25' 4"	23' 0"	20' 1"	22' 1"	20' 1"	17' 6"	18' 7"	16' 11"	14' 10"	17' 6"	15' 11"	13' 11"
400S137-54	4SSC16	23' 0"	21' 0"	18' 5"	20' 1"	18' 4"	16' 0"	17' 0"	15' 5"	13' 6"	17' 1"	15' 7"	13' 7"
400S162-54	4SSJ16	24' 1"	22' 0"	19' 1"	21' 1"	19' 1"	16' 10"	17' 11"	16' 1"	14' 0"	16' 11"	15' 5"	13' 5"
400S200-54	4SJW16	25' 8"	23' 5"	20' 5"	22' 5"	20' 4"	17' 10"	19' 0"	17' 4"	15' 1"	17' 11"	16' 4"	14' 2"
400S162-54	4SSJ16	27' 4"	24' 10"	21' 8"	23' 10"	21' 8"	18' 11"	20' 1"	18' 4"	16' 0"	18' 11"	17' 2"	15' 0"
400S137-68	4SSC14	24' 10"	22' 6"	19' 7"	21' 7"	19' 7"	17' 0"	18' 1"	16' 6"	14' 5"	17' 1"	15' 7"	13' 7"
400S162-68	4SSJ14	26' 0"	23' 7"	20' 7"	22' 8"	20' 7"	18' 0"	19' 0"	17' 5"	15' 1"	18' 1"	16' 5"	14' 4"
400S200-68	4SJW14	27' 6"	25' 0"	21' 11"	24' 0"	21' 11"	19' 0"	20' 4"	18' 6"	16' 1"	19' 1"	17' 5"	15' 2"
400S250-68	4SSW14	29' 5"	26' 8"	23' 4"	25' 8"	23' 4"	20' 5"	21' 7"	19' 8"	17' 2"	20' 5"	18' 6"	16' 2"
400S200-97	4SJW12	30' 2"	27' 5"	24' 0"	26' 5"	24' 0"	20' 11"	22' 4"	20' 4"	19' 8"	20' 11"	19' 0"	16' 7"
400S250-97	4SSW12	32' 5"	29' 5"	25' 8"	28' 4"	25' 8"	22' 6"	23' 11"	21' 8"	18' 11"	22' 6"	20' 5"	17' 10"

		L/240			L/360			L/600			L/720		
AISI Designation	Legacy Designation	12"	16"	24"	12"	16"	24"	12"	16"	24"	12"	16"	24"
600S125-33	6SSCW20	27' 1"	24' 7"	21' 6"	23' 7"	21' 6"	18' 10"	19' 11"	18' 1"	15' 10"	18' 10"	17' 1"	14' 11"
600S137-33	6SSC20	27' 5"	25' 0"	21' 10"	24' 0"	21' 10"	19' 0"	20' 0"	18' 4"	16' 0"	19' 2"	17' 5"	15' 2"
600S162-33	6SSJ20	28' 7"	26' 0"	22' 8"	25' 0"	22' 8"	19' 11"	21' 0"	19' 0"	16' 10"	19' 11"	18' 1"	15' 10"
600S137-43	6SSC18	29' 11"	27' 0"	23' 7"	26' 0"	23' 8"	20' 8"	22' 0"	20' 0"	17' 5"	20' 10"	18' 11"	16' 6"
600S162-43	6SSJ18	31' 0"	28' 4"	24' 10"	27' 2"	24' 10"	21' 7"	23' 0"	20' 11"	18' 0"	21' 8"	19' 8"	17' 2"
600S200-43	6SJW18	32' 11"	27' 11"	26' 0"	28' 7"	26' 0"	22' 8"	22' 4"	20' 2"	18' 10"	20' 11"	19' 0"	16' 7"
600S137-54	6SSC16	32' 0"	29' 0"	25' 5"	28' 0"	25' 5"	22' 0"	23' 7"	21' 5"	18' 8"	22' 5"	20' 4"	17' 10"
600S162-54	6SSJ16	33' 5"	30' 4"	26' 6"	29' 0"	26' 6"	23' 0"	24' 7"	24' 4"	19' 6"	23' 4"	21' 2"	18' 6"
600S200-54	6SJW16	35' 0"	32' 0"	27' 0"	30' 11"	28' 0"	24' 5"	26' 1"	23' 8"	20' 8"	24' 7"	22' 4"	19' 6"
600S250-54	6SSW16	37' 4"	33' 11"	29' 7"	32' 7"	29' 7"	25' 10"	27' 6"	24' 11"	21' 10"	25' 10"	23' 6"	20' 6"
600S137-68	6SSC14	34' 2"	31' 0"	27' 1"	30' 0"	27' 1"	23' 10"	25' 1"	23' 0"	20' 0"	23' 8"	21' 7"	18' 10"
600S162-68	6SSJ14	35' 11"	32' 7"	28' 5"	31' 4"	28' 5"	24' 11"	26' 5"	24' 0"	21' 0"	24' 11"	22' 7"	19' 8"
600S200-68	6SJW14	37' 10"	34' 0"	30' 0"	33' 0"	30' 0"	26' 0"	27' 11"	25' 5"	22' 2"	26' 4"	23' 8"	20' 11"
600S250-68	6SSW14	40' 2"	36' 6"	31' 11"	35' 1"	31' 11"	27' 11"	29' 7"	26' 11"	23' 6"	27' 11"	25' 4"	22' 1"
600S200-97	6SJW12	42' 0"	38' 0"	33' 1"	36' 7"	33' 1"	29' 0"	30' 7"	27' 10"	24' 4"	28' 10"	26' 2"	22' 11"
600S250-97	6SSW12	44' 5"	40' 4"	35' 2"	35' 10"	35' 2"	30' 10"	32' 8"	29' 8"	25' 11"	31' 10"	28' 0"	24' 5"
800S162-43	8SSJ18	39' 1"	35' 8"	31' 0"	34' 4"	31' 0"	27' 1"	29' 0"	26' 1"	23' 0"	27' 4"	24' 10"	21' 8"
800200-43	8SJW18	41' 0"	37' 4"	32' 7"	36' 0"	32' 7"	28' 7"	30' 4"	27' 6"	24' 1"	28' 6"	25' 11"	22' 7"
800S250-43	8SSW18	43' 0"	39' 1"	34' 2"	37' 7"	34' 2"	29' 10"	31' 8"	28' 10"	25' 2"	29' 10"	27' 1"	23' 8"
800S162-54	8SSJ16	42' 1"	38' 1"	33' 6"	36' 11"	33' 6"	29' 1"	31' 0"	28' 0"	24' 8"	29' 11"	26' 8"	23' 4"
800S200-54	8SJW16	44' 1"	40' 0"	35' 0"	38' 7"	35' 0"	30' 7"	32' 10"	29' 10"	26' 0"	30' 11"	28' 0"	24' 6"
800S250-54	8SSW16	46' 7"	42' 5"	37' 0"	40' 8"	37' 0"	32' 4"	34' 5"	31' 2"	27' 4"	32' 4"	29' 5"	25' 8"
800S162-68	8SSJ14	45' 1"	41' 0"	36' 0"	39' 6"	36' 0"	31' 5"	33' 2"	30' 1"	26' 5"	31' 5"	28' 6"	24' 11"
800S200-68	8SJW14	47' 5"	43' 0"	37' 7"	41' 5"	37' 7"	32' 11"	35' 1"	31' 11"	27' 11"	33' 0"	30' 0"	26' 2"
800S250-68	8SSW14	50' 4"	45' 8"	39' 11"	44' 0"	40' 0"	35' 0"	37' 1"	33' 8"	29' 5"	34' 11"	31' 8"	23' 8"
800S162-97	8SSJ12	50' 1"	45' 7"	40' 0"	44' 0"	40' 0"	34' 11"	37' 0"	33' 8"	29' 5"	34' 4"	31' 1"	27' 2"
800S200-97	8SJW12	52' 10"	48' 0"	41' 11"	46' 0"	41' 11"	36' 7"	38' 6"	35' 0"	30' 7"	36' 4"	32' 11"	28' 10"
800S250-97	8SSW12	55' 7"	50' 6"	44' 2"	48' 7"	44' 2"	38' 7"	41' 0"	37' 2"	32' 6"	38' 7"	35' 0"	30' 7"
1000S162-54	10SSJ16	40' 1"	35' 0"	32' 0"	35' 0"	30' 7"	28' 0"	29' 7"	26' 0"	23' 6"	35' 4"	32' 0"	28' 0"
1000S200-54	10SJW16	53' 4"	48' 5"	42' 4"	46' 7"	42' 4"	36' 11"	39' 4"	35' 8"	31' 2"	36' 5"	33' 7"	29' 4"
1000S250-54	10SSW16	55' 7"	50' 6"	44' 2"	48' 7"	44' 2"	38' 7"	41' 0"	37' 2"	32' 6"	33' 7"	35' 0"	30' 7"
1000S162-68	10SSJ14	37' 10"	34' 2"	30' 0"	33' 0"	30' 0"	26' 0"	27' 10"	25' 1"	22' 0"	37' 10"	34' 4"	30' 0"
1000S200-68	10SJW14	57' 1"	51' 10"	45' 4"	49' 10"	45' 4"	39' 7"	42' 0"	38' 2"	31' 5"	39' 7"	35' 11"	31' 5"
1000S250-68	10SSW14	60' 1"	54' 7"	47' 8"	52' 6"	47' 1"	41' 8"	44' 4"	40' 2"	35' 1"	41' 8"	31' 11"	33' 1"
1000S162-97	10SSJ12	42' 0"	38' 0"	33' 2"	36' 8"	33' 4"	29' 0"	31' 0"	28' 0"	24' 6"	41' 4"	37' 7"	32' 10"
1000S200-97	10SJW12	62' 8"	57' 0"	49' 10"	54' 10"	49' 10"	43' 6"	46' 2"	42' 0"	36' 8"	43' 6"	39' 6"	34' 6"
1000S250-97	10SSW12	66' 6"	60' 5"	52' 10"	58' 1"	52' 10"	46' 1"	49' 0"	44' 6"	38' 11"	46' 1"	41' 11"	36' 7"

Flange Width: SSCW=1-1/4", SSC=1-3/8", SSJ=1-5/8", SJW=2" and SSW=2-1/2"

See page 20 for additional table notes.

SUGGESTED DESIGN GUIDES
LIMITING HEIGHTS
(FEET & INCHES)

15 PSF LATERAL LOAD

		L/240			L/360			L/600			L/720		
AISI Designation	Legacy Designation	12”	16”	24”	12”	16”	24”	12”	16”	24”	12”	16”	24”
250S137-33	2-1/2SSC20	14' 0"	12' 8"	11' 1"	12' 2"	11' 1"	9' 8"	10' 4"	9' 4"	8' 2"	9' 8"	8' 10"	7' 7"
250S162-33	2-1/2SSJ20	10' 0"	9' 0"	7' 10"	8' 8"	7' 11"	6' 11"	7' 4"	6' 8"	5' 10"	7' 0"	6' 5"	5' 7"
250S162-43	2-1/2SSJ18	10' 10"	9' 11"	8' 7"	9' 7"	8' 10"	7' 6"	8' 0"	7' 2"	6' 4"	11' 0"	10' 0"	8' 8"
250S137-54	2-1/2SSC16	16' 2"	14' 8"	12' 10"	14' 1"	12' 10"	11' 2"	11' 11"	10' 10"	9' 6"	11' 2"	10' 2"	8' 11"
250S162-54	2-1/2SSJ16	11' 7"	10' 6"	9' 0"	10' 0"	9' 0"	8' 0"	8' 6"	7' 11"	6' 10"	8' 2"	7' 5"	6' 6"
250S137-68	2-1/2SSC14	17' 1"	15' 6"	13' 7"	14' 11"	13' 7"	11' 11"	12' 7"	11' 6"	10' 0"	11' 11"	10' 10"	9' 0"
250S162-68	2-1/2SSJ14	12' 5"	11' 0"	9' 10"	10' 10"	9' 11"	8' 6"	9' 0"	8' 1"	7' 1"	8' 8"	7' 11"	6' 11"
362S125-33	3-5/8SSCW20	12' 7"	11' 10"	10' 0"	11' 0"	10' 0"	8' 8"	9' 4"	8' 5"	7' 4"	8' 8"	7' 11"	6' 11"
362S137-33	3-5/8SSC20	12' 7"	11' 6"	10' 0"	11' 0"	10' 0"	8' 10"	9' 5"	8' 5"	7' 4"	8' 8"	7' 11"	6' 11"
362S162-33	3-5/8SSJ20	13' 4"	12' 0"	10' 6"	11' 7"	10' 6"	9' 1"	9' 10"	8' 11"	7' 10"	9' 1"	8' 2"	7' 2"
362S137-43	3-5/8SSC18	13' 10"	12' 6"	11' 0"	12' 0"	11' 0"	9' 7"	10' 0"	9' 1"	8' 0"	13' 7"	12' 4"	10' 10"
362S162-43	3-5/8SSJ18	14' 6"	13' 0"	11' 6"	12' 8"	11' 6"	10' 0"	10' 8"	9' 8"	8' 5"	14' 2"	12' 11"	11' 4"
362S137-54	3-5/8SSC16	14' 11"	13' 5"	11' 10"	13' 0"	11' 10"	10' 2"	11' 0"	10' 0"	8' 8"	14' 7"	13' 2"	11' 7"
362S162-54	3-5/8SSJ16	15' 6"	14' 0"	12' 2"	13' 7"	12' 4"	10' 10"	11' 5"	10' 5"	9' 0"	15' 4"	13' 11"	12' 1"
362S200-54	3-5/8SJW16	16' 7"	15' 0"	13' 0"	14' 5"	13' 0"	11' 5"	12' 0"	11' 0"	9' 7"	16' 7"	15' 1"	13' 2"
362S137-68	3-5/8SSC14	15' 5"	14' 0"	12' 2"	13' 6"	12' 2"	10' 8"	11' 5"	10' 4"	9' 0"	10' 8"	9' 8"	8' 6"
362S162-68	3-5/8SSJ14	16' 10"	15' 1"	13' 2"	15' 6"	13' 1"	11' 6"	12' 2"	11' 0"	9' 10"	16' 4"	14' 4"	12' 7"
362S200-68	3-5/8SJW14	17' 10"	16' 0"	14' 0"	15' 5"	14' 0"	12' 0"	13' 0"	12' 0"	10' 4"	17' 1"	16' 1"	14' 1"
362S200-97	3-5/8SJW12	19' 5"	17' 7"	15' 5"	17' 0"	15' 5"	13' 6"	14' 4"	13' 0"	11' 1"	13' 6"	12' 2"	10' 8"
400S125-33	4SSCW20	13' 7"	12' 4"	10' 10"	11' 11"	10' 10"	9' 5"	10' 0"	9' 4"	7' 11"	9' 10"	8' 7"	7' 6"
400S137-33	4SSC20	13' 7"	12' 5"	10' 8"	12' 0"	11' 0"	9' 5"	10' 0"	9' 0"	8' 0"	9' 8"	8' 10"	7' 8"
400S162-33	4SSJ20	14' 4"	13' 0"	11' 2"	12' 6"	11' 4"	10' 0"	10' 6"	9' 7"	8' 4"	10' 0"	9' 1"	8' 0"
400S137-43	4SSC18	15' 0"	13' 6"	12' 0"	13' 0"	12' 0"	10' 2"	11' 0"	10' 0"	8' 8"	10' 6"	9' 6"	8' 4"
400S162-43	4SSJ18	15' 7"	14' 0"	12' 5"	13' 7"	12' 5"	10' 11"	11' 6"	10' 5"	9' 0"	10' 11"	9' 11"	8' 8"
400S200-43	4SJW18	16' 7"	15' 0"	13' 0"	14' 6"	13' 0"	11' 6"	12' 0"	11' 0"	9' 8"	11' 6"	10' 6"	9' 1"
400S250-43	4SSW18	17' 6"	15' 11"	13' 11"	15' 4"	13' 11"	12' 2"	12' 11"	11' 8"	10' 4"	12' 2"	11' 1"	9' 8"
400S137-54	4SSC16	16' 0"	14' 6"	12' 7"	14' 0"	12' 7"	11' 0"	11' 10"	10' 8"	9' 5"	11' 3"	10' 2"	8' 11"
400S162-54	4SSJ16	16' 10"	15' 2"	13' 4"	14' 8"	13' 2"	11' 7"	12' 4"	11' 2"	9' 11"	11' 8"	10' 8"	9' 4"
400S200-54	4SJW16	17' 10"	16' 0"	14' 0"	15' 6"	14' 0"	12' 4"	13' 0"	12' 0"	10' 4"	12' 5"	11' 4"	9' 11"
400S137-68	4SSC14	17' 1"	15' 7"	113' 7"	15' 0"	13' 7"	12' 0"	12' 7"	11' 5"	10' 0"	11' 11"	10' 10"	9' 5"
400S162-68	4SSJ14	18' 0"	16' 4"	14' 2"	15' 7"	14' 2"	12' 5"	13' 2"	12' 0"	10' 6"	12' 6"	11' 5"	9' 11"
400S200-68	4SJW14	19' 0"	17' 4"	15' 0"	16' 8"	15' 0"	13' 0"	14' 0"	12' 10"	11' 0"	13' 10"	12' 1"	10' 6"
400S250-68	4SSW14	20' 5"	18' 6"	16' 2"	17' 10"	16' 2"	14' 1"	15' 0"	13' 7"	11' 11"	14' 1"	12' 10"	11' 2"
400S200-97	4SJW12	20' 0"	18' 0"	15' 10"	17' 4"	15' 10"	13' 10"	14' 8"	13' 4"	11' 7"	14' 6"	13' 2"	11' 6"
400S250-97	4SSW12	22' 6"	20' 5"	17' 10"	19' 7"	17' 10"	15' 7"	16' 1"	15' 0"	13' 1"	15' 7"	14' 2"	12' 5"

		L/240			L/360			L/600			L/720		
AISI Designation	Legacy Designation	12”	16”	24”	12”	16”	24”	12”	16”	24”	12”	16”	24”
600S125-33	6SSCW20	18' 10"	17' 7"	14' 11"	16' 5"	14' 1"	13' 0"	13' 10"	12' 7"	11' 0"	13' 0"	11' 10"	10' 0"
600S137-33	6SSC20	19' 0"	17' 0"	15' 0"	16' 7"	15' 0"	13' 0"	14' 0"	12' 10"	11' 0"	13' 4"	12' 1"	10' 7"
600S162-33	6SSJ20	20' 0"	18' 0"	15' 10"	17' 2"	15' 10"	13' 10"	14' 7"	13' 1"	11' 7"	13' 10"	12' 6"	10' 11"
600S137-43	6SSC18	20' 7"	19' 0"	16' 5"	18' 0"	16' 5"	14' 4"	15' 2"	14' 0"	12' 0"	14' 5"	13' 1"	11' 4"
600S200-43	6SJW18	21' 7"	19' 7"	17' 0"	19' 0"	17' 0"	15' 0"	16' 0"	14' 5"	12' 7"	17' 0"	15' 6"	13' 6"
600S250-43	6SSW18	22' 8"	20' 7"	18' 0"	20' 0"	18' 0"	15' 10"	16' 8"	15' 0"	13' 1"	16' 7"	15' 0"	13' 1"
600S137-54	6SSC16	23' 10"	21' 7"	19' 0"	20' 8"	19' 0"	16' 6"	17' 6"	16' 0"	14' 0"	15' 6"	14' 1"	12' 4"
600S162-54	6SSJ16	23' 0"	21' 0"	18' 5"	20' 1"	18' 5"	16' 0"	17' 0"	15' 6"	13' 6"	16' 2"	14' 8"	12' 10"
600S200-54	6SJW16	24' 4"	22' 0"	19' 4"	21' 2"	19' 4"	17' 0"	18' 0"	16' 0"	14' 0"	17' 0"	15' 6"	13' 6"
600S250-54	6SSW16	23' 11"	21' 8"	13' 0"	20' 11"	19' 0"	16' 7"	17' 7"	16' 0"	14' 0"	16' 7"	15' 0"	13' 1"
600S137-68	6SSC14	23' 10"	21' 7"	19' 0"	20' 10"	19' 0"	16' 6"	17' 6"	16' 0"	14' 0"	16' 6"	15' 0"	13' 1"
600S162-68	6SSJ14	24' 11"	22' 7"	19' 8"	21' 7"	19' 8"	17' 1"	18' 1"	16' 7"	14' 6"	17' 4"	15' 8"	13' 8"
600S200-97	6SJW12	27' 6"	25' 0"	21' 11"	24' 0"	21' 11"	19' 0"	20' 1"	18' 5"	16' 0"	18' 2"	16' 7"	14' 6"
800S162-43	8SSJ18	26' 0"	24' 0"	20' 10"	23' 0"	20' 10"	18' 1"	19' 2"	17' 6"	15' 4"	19' 0"	17' 2"	15' 0"
800200-43	8SJW18	27' 1"	24' 10"	21' 7"	23' 10"	21' 7"	18' 11"	20' 0"	18' 0"	16' 0"	19' 10"	18' 0"	15' 8"
800S250-43	8SSW18	29' 10"	27' 1"	23' 8"	26' 1"	23' 8"	20' 8"	22' 0"	20' 0"	17' 6"	20' 8"	18' 10"	16' 5"
800S162-54	8SSJ16	28' 0"	25' 7"	22' 4"	24' 7"	22' 4"	19' 6"	20' 8"	19' 0"	16' 5"	20' 5"	18' 6"	16' 2"
800S200-54	8SJW16	30' 7"	27' 10"	24' 0"	26' 10"	24' 1"	21' 1"	22' 6"	20' 6"	18' 0"	21' 5"	19' 5"	17' 0"
800S250-54	8SSW16	32' 4"	29' 11"	25' 8"	28' 2"	25' 8"	22' 5"	23' 10"	21' 7"	18' 11"	22' 5"	20' 5"	17' 10"
800S162-68	8SSJ14	30' 1"	27' 5"	24' 0"	26' 4"	24' 0"	21' 0"	22' 1"	20' 1"	17' 7"	21' 10"	19' 10"	17' 4"
800S200-68	8SJW14	31' 4"	28' 6"	25' 0"	27' 5"	25' 0"	21' 10"	23' 0"	21' 0"	18' 4"	22' 6"	20' 10"	18' 2"
800S250-68	8SSW14	34' 11"	31' 8"	27' 8"	30' 6"	27' 8"	24' 2"	25' 8"	23' 0"	20' 5"	24' 2"	22' 0"	19' 2"
800S162-97	8SSJ12	35' 0"	31' 8"	27' 8"	30' 5"	27' 8"	24' 0"	25' 7"	23' 2"	20' 2"	23' 10"	21' 7"	18' 11"
20800S200-97	8SJW12	36' 4"	32' 11"	18' 10"	31' 8"	28' 10"	25' 1"	26' 8"	24' 4"	21' 2"	25' 1"	22' 6"	20' 0"
800S250-97	8SSW12	38' 7"	35' 0"	30' 7"	33' 8"	30' 7"	26' 8"	28' 5"	25' 10"	22' 7"	26' 8"	24' 4"	21' 2"
1000S162-54	10SSJ16	35' 0"	32' 0"	28' 0"	30' 8"	27' 10"	24' 4"	26' 0"	23' 2"	20' 4"	35' 4"	32' 1"	28' 0"
1000200-54	10SJW16	36' 11"	33' 7"	29' 4"	32' 4"	29' 4"	25' 7"	27' 2"	24' 2"	21' 7"	25' 7"	23' 4"	20' 2"
1000S250-54	10SSW16	38' 7"	35' 0"	30' 7"	33' 8"	30' 7"	26' 8"	28' 5"	25' 10"	22' 7"	26' 8"	24' 4"	21' 2"
1000S162-68	10SSJ14	37' 10"	34' 2"	30' 0"	33' 0"	30' 0"	26' 0"	27' 10"	25' 1"	22' 0"	37' 10"	34' 4"	30' 0"
1000S200-68	10SJW14	57' 1"	51' 10"	45' 4"	49' 10"	45' 4"	39' 7"	42' 0"	38' 2"	31' 5"	39' 7"	35' 11"	31' 5"
1000S250-68	10SSW14	60' 1"	54' 7"	47' 8"	52' 6"	47' 1"	41' 8"	44' 4"	40' 2"	35' 1"	41' 8"	31' 11"	33' 1"
1000S162-97	10SSJ12	42' 0"	38' 0"	33' 2"	36' 8"	33' 4"	29' 0"	31' 0"	28' 0"	24' 6"	41' 4"	37' 7"	32' 10"
1000S200-97	10SJW12	62' 8"	57' 0"	49' 10"	54' 10"	49' 10"	43' 6"	46' 2"	42' 0"	36' 8"	43' 6"	39' 6"	34' 6"
1000S250-97	10SSW12	66' 6"	60' 5"	52' 10"	58' 1"	52' 10"	46' 1"	49' 0"	44' 6"	38' 11"	46' 1"	41' 11"	36' 7"

Flange Width: SSCW=1-1/4”, SSC=1-3/8”, SSJ=1-5/8”, SJW=2” and SSW=2-1/2”

See page 20 for additional table notes.

SUGGESTED DESIGN GUIDES
LIMITING HEIGHTS
(FEET & INCHES)

20 PSF LATERAL LOAD

AISI Designation	Legacy Designation	L/240			L/360			L/600			L/720		
		12"	16"	24"	12"	16"	24"	12"	16"	24"	12"	16"	24"
250S137-33	2-1/2SSC20	8' 10"	8' 0"	7' 0"	7' 8"	7' 0"	6' 1"	6' 6"	5' 11"	5' 1"	6' 1"	5' 6"	4' 10"
250S162-33	2-1/2SSJ20	9' 2"	8' 4"	7' 4"	8' 0"	7' 4"	6' 5"	6' 10"	6' 1"	5' 5"	6' 5"	5' 10"	5' 1"
250S137-43	2-1/2SSC18	9' 6"	8' 7"	7' 7"	8' 4"	7' 7"	6' 7"	7' 0"	6' 5"	5' 7"	6' 7"	6' 0"	5' 2"
250S162-43	2-1/2SSJ18	10' 0"	9' 1"	7' 11"	8' 8"	7' 11"	6' 11"	7' 5"	6' 8"	5' 10"	6' 11"	6' 4"	5' 6"
250S137-54	2-1/2SSC16	10' 2"	9' 4"	8' 1"	8' 11"	8' 1"	7' 1"	7' 6"	6' 10"	6' 0"	7' 1"	6' 5"	5' 7"
250S162-54	2-1/2SSJ16	10' 8"	8' 1"	8' 6"	9' 4"	8' 6"	7' 5"	7' 11"	7' 2"	6' 4"	7' 5"	6' 8"	5' 11"
250S137-68	2-1/2SSC14	10' 10"	9' 10"	8' 7"	9' 5"	8' 7"	7' 6"	7' 11"	7' 2"	6' 4"	7' 6"	6' 10"	5' 11"
250S162-68	2-1/2SSJ14	11' 5"	10' 4"	9' 0"	9' 11"	9' 0"	7' 11"	8' 5"	7' 7"	6' 8"	7' 11"	7' 2"	6' 4"
362S125-33	3-5/8SSCW20	11' 5"	10' 5"	9' 1"	10' 0"	9' 1"	7' 11"	8' 5"	7' 7"	6' 8"	7' 11"	7' 2"	6' 4"
362S137-33	3-5/8SSC20	11' 8"	10' 7"	9' 4"	10' 2"	9' 4"	8' 1"	8' 7"	7' 10"	6' 11"	8' 1"	7' 5"	6' 5"
362S162-33	3-5/8SSJ20	12' 2"	11' 1"	9' 8"	10' 8"	9' 8"	8' 6"	9' 0"	8' 2"	7' 1"	8' 6"	7' 8"	6' 8"
362S137-43	3-5/8SSC18	12' 8"	11' 6"	10' 1"	11' 1"	10' 1"	8' 10"	9' 4"	8' 6"	7' 5"	8' 10"	8' 0"	7' 0"
362S162-43	3-5/8SSJ18	13' 4"	12' 1"	10' 6"	11' 7"	10' 6"	9' 2"	9' 10"	8' 11"	7' 10"	9' 2"	8' 5"	7' 4"
362S200-43	3-5/8SJW18	14' 0"	12' 8"	11' 1"	12' 2"	11' 1"	9' 8"	10' 4"	9' 5"	8' 2"	9' 8"	8' 10"	7' 8"
362S137-54	3-5/8SSC16	13' 7"	12' 5"	10' 10"	11' 11"	10' 10"	9' 5"	10' 0"	9' 1"	8' 0"	9' 5"	8' 7"	7' 6"
362S162-54	3-5/8SSJ16	14' 4"	13' 0"	11' 4"	12' 6"	11' 4"	9' 11"	10' 6"	9' 6"	8' 4"	9' 11"	9' 0"	7' 10"
362S200-54	3-5/8SJW16	15' 1"	13' 8"	12' 0"	13' 2"	12' 0"	10' 6"	11' 1"	10' 1"	8' 10"	10' 6"	9' 6"	8' 4"
362S137-68	3-5/8SSC14	14' 5"	13' 1"	11' 5"	12' 7"	11' 5"	10' 0"	10' 7"	9' 7"	8' 5"	10' 0"	9' 1"	7' 11"
362S162-68	3-5/8SSJ14	15' 2"	13' 10"	12' 1"	13' 4"	12' 1"	10' 6"	11' 2"	10' 2"	8' 11"	10' 6"	9' 7"	8' 5"
362S200-68	3-5/8SJW14	16' 1"	14' 7"	12' 10"	14' 1"	12' 10"	11' 2"	11' 11"	10' 10"	9' 5"	11' 2"	10' 2"	8' 11"
362S200-97	3-5/8SJW12	17' 7"	16' 0"	14' 0"	15' 5"	14' 0"	12' 2"	13' 0"	11' 10"	10' 4"	12' 2"	11' 1"	9' 8"
400S125-33	4SSCW20	12' 4"	11' 2"	9' 10"	10' 10"	9' 10"	8' 7"	9' 1"	8' 4"	7' 2"	8' 7"	7' 10"	6' 10"
400S137-33	4SSC20	12' 7"	11' 6"	10' 0"	11' 0"	10' 0"	8' 10"	9' 4"	8' 6"	7' 5"	8' 10"	8' 0"	7' 0"
400S162-33	4SSJ20	13' 2"	12' 0"	10' 5"	11' 6"	10' 5"	9' 1"	9' 8"	8' 10"	7' 8"	9' 1"	8' 4"	7' 2"
400S137-43	4SSC18	13' 8"	12' 5"	10' 11"	12' 0"	10' 11"	9' 6"	10' 1"	9' 2"	8' 0"	9' 6"	8' 7"	7' 6"
400S162-43	4SSJ18	14' 4"	13' 0"	11' 5"	12' 6"	11' 5"	9' 11"	10' 7"	9' 7"	8' 5"	9' 11"	9' 0"	7' 11"
400S200-43	4SJW18	15' 1"	13' 8"	12' 0"	13' 2"	12' 0"	10' 6"	11' 1"	10' 1"	8' 10"	10' 6"	9' 6"	8' 4"
400S250-43	4SSW18	159' 0"	14' 6"	12' 7"	13' 11"	12' 7"	11' 1"	11' 8"	10' 8"	9' 4"	11' 1"	10' 0"	8' 10"
400S137-54	4SSC16	14' 8"	13' 5"	11' 8"	12' 11"	11' 8"	10' 2"	10' 10"	9' 10"	8' 7"	10' 2"	9' 4"	8' 1"
400S162-54	4SSJ16	15' 5"	14' 0"	12' 2"	13' 5"	12' 2"	10' 8"	11' 4"	10' 4"	9' 0"	10' 8"	9' 8"	8' 6"
400S200-54	4SJW16	16' 4"	14' 10"	12' 11"	14' 2"	12' 11"	11' 4"	12' 0"	10' 11"	9' 6"	11' 4"	10' 4"	9' 0"
400S250-54	4SSW16	17' 2"	15' 7"	13' 7"	15' 0"	13' 7"	11' 11"	12' 8"	11' 6"	10' 1"	11' 11"	10' 10"	9' 6"
400S137-68	4SSC14	15' 7"	14' 2"	12' 5"	13' 7"	12' 5"	10' 10"	11' 6"	10' 5"	9' 1"	10' 10"	9' 10"	8' 7"
400S162-68	4SSJ14	16' 5"	14' 11"	13' 0"	14' 4"	13' 0"	11' 5"	12' 1"	11' 0"	9' 7"	11' 5"	10' 4"	9' 0"
400S200-68	4SJW14	17' 5"	15' 10"	13' 10"	15' 2"	13' 10"	12' 1"	12' 10"	11' 7"	10' 2"	12' 1"	11' 0"	9' 7"
400S250-68	4SSW14	18' 6"	16' 10"	14' 8"	16' 2"	14' 8"	12' 10"	13' 7"	12' 5"	10' 10"	12' 10"	11' 8"	10' 2"
400S200-97	4SJW12	19' 0"	17' 4"	15' 1"	16' 7"	15' 1"	13' 2"	14' 0"	12' 8"	11' 1"	13' 2"	12' 0"	10' 6"
400S250-97	4SSW12	20' 5"	18' 6"	16' 2"	17' 10"	16' 2"	14' 2"	15' 0"	13' 8"	11' 11"	14' 2"	12' 11"	11' 2"

AISI Designation	Legacy Designation	L/240			L/360			L/600			L/720		
		12"	16"	24"	12"	16"	24"	12"	16"	24"	12"	16"	24"
600S125-33	6SSCW20	17' 1"	15' 6"	13' 6"	14' 11"	13' 6"	11' 10"	12' 7"	11' 5"	10' 0"	11' 10"	10' 8"	9' 5"
600S137-33	6SSC20	17' 5"	15' 10"	13' 10"	15' 2"	13' 10"	12' 1"	12' 11"	11' 8"	10' 2"	12' 1"	11' 0"	9' 7"
600S162-33	6SSJ20	18' 1"	16' 5"	14' 4"	15' 10"	14' 4"	12' 6"	13' 4"	12' 1"	10' 7"	12' 6"	11' 5"	9' 11"
600S125-43	6SSCW18	18' 11"	17' 2"	15' 0"	16' 6"	15' 0"	13' 1"	13' 11"	12' 8"	11' 1"	13' 1"	11' 11"	10' 5"
600S137-43	6SSC18	19' 8"	17' 11"	15' 7"	17' 2"	15' 7"	13' 8"	4' 6"	13' 2"	11' 6"	13' 8"	12' 5"	10' 10"
600S200-43	6SJW18	20' 7"	18' 10"	16' 5"	18' 0"	16' 5"	14' 4"	15' 2"	13' 10"	12' 1"	14' 4"	13' 0"	11' 5"
600S250-43	6SSW18	21' 8"	19' 8"	17' 2"	19' 0"	17' 2"	15' 0"	16' 0"	14' 6"	12' 8"	14' 4"	13' 8"	11' 11"
600S137-54	6SSC16	20' 4"	18' 6"	16' 1"	17' 10"	16' 1"	14' 1"	15' 0"	13' 7"	11' 11"	14' 1"	12' 10"	11' 2"
600S162-54	6SSJ16	21' 2"	19' 4"	16' 10"	18' 6"	16' 10"	14' 8"	15' 7"	14' 2"	12' 5"	14' 8"	13' 5"	11' 8"
600S200-54	6SJW16	22' 4"	20' 4"	17' 8"	19' 6"	17' 8"	15' 6"	16' 5"	14' 11"	13' 1"	15' 6"	14' 1"	12' 4"
600S250-54	6SSW16	23' 6"	21' 4"	18' 7"	20' 6"	18' 7"	16' 4"	17' 4"	15' 8"	13' 8"	16' 4"	14' 10"	12' 11"
600S137-68	6SSC14	21' 7"	19' 7"	17' 1"	18' 10"	17' 1"	15' 0"	15' 11"	14' 5"	12' 7"	15' 0"	13' 7"	11' 11"
600S162-68	6SSJ14	22' 7"	20' 6"	17' 11"	19' 8"	17' 11"	15' 8"	16' 8"	15' 1"	13' 2"	15' 8"	14' 2"	12' 5"
600S200-68	6SJW14	23' 11"	21' 8"	18' 11"	20' 11"	18' 11"	16' 7"	17' 7"	16' 0"	14' 0"	16' 7"	15' 0"	13' 1"
600S250-68	6SSW14	25' 4"	23' 0"	20' 1"	22' 1"	20' 1"	17' 6"	18' 7"	16' 11"	14' 10"	17' 6"	15' 11"	13' 11"
600S200-97	6SJW12	26' 2"	23' 10"	20' 10"	22' 11"	20' 10"	18' 1"	19' 4"	17' 6"	15' 4"	18' 1"	16' 6"	14' 5"
600S250-97	6SSW12	28' 0"	25' 5"	22' 2"	24' 5"	22' 2"	19' 5"	20' 7"	18' 8"	16' 4"	19' 5"	17' 7"	15' 5"
800S162-43	8SSJ18	24' 10"	22' 7"	19' 8"	21' 8"	19' 8"	17' 2"	18' 4"	16' 7"	14' 6"	17' 2"	15' 7"	13' 8"
800200-43	8SJW18	25' 11"	23' 6"	20' 7"	22' 7"	20' 7"	20' 7"	19' 1"	17' 4"	15' 2"	18' 0"	16' 4"	14' 4"
800S250-43	8SSW18	27' 1"	24' 7"	21' 6"	23' 8"	21' 6"	21' 6"	20' 0"	18' 2"	15' 11"	18' 10"	17' 1"	14' 11"
800S162-54	8SSJ16	26' 8"	24' 4"	21' 2"	23' 4"	21' 2"	18' 6"	19' 8"	17' 11"	15' 7"	18' 6"	16' 10"	14' 8"
800S200-54	8SJW16	28' 0"	25' 6"	22' 4"	24' 6"	22' 4"	19' 5"	20' 8"	18' 10"	16' 5"	19' 5"	17' 8"	15' 5"
800S250-54	8SSW16	29' 5"	26' 8"	23' 4"	25' 8"	23' 4"	20' 5"	21' 7"	19' 8"	17' 2"	20' 5"	18' 6"	16' 2"
800S162-68	8SSJ14	28' 6"	25' 11"	22' 7"	24' 11"	22' 7"	19' 10"	21' 0"	19' 1"	16' 8"	19' 10"	18' 0"	15' 8"
800S200-68	8SJW14	30' 0"	27' 4"	23' 10"	26' 2"	23' 10"	20' 10"	22' 1"	20' 1"	17' 6"	20' 10"	18' 11"	16' 6"
800S250-68	8SSW14	31' 8"	28' 10"	25' 2"	27' 8"	25' 2"	22' 0"	23' 5"	21' 2"	18' 6"	22' 0"	20' 0"	17' 5"
800S162-97	8SSJ12	31' 1"	28' 4"	24' 8"	27' 2"	24' 8"	21' 7"	23' 0"	20' 11"	18' 2"	21' 7"	19' 7"	17' 1"
800S200-97	8SJW12	32' 11"	29' 11"	26' 1"	28' 10"	26' 1"	22' 10"	24' 4"	22' 1"	19' 2"	22' 10"	20' 10"	18' 1"
800S250-97	8SSW12	35' 0"	31' 10"	27' 10"	30' 7"	27' 10"	24' 4"	25' 10"	23' 6"	20' 6"	24' 4"	22' 1"	19' 4"
1000S162-54	10SSJ16	32' 1"	29' 2"	25' 6"	28' 0"	25' 6"	22' 4"	23' 8"	21' 6"	18' 10"	22' 4"	20' 2"	17' 8"
1000200-54	10SJW16	33' 7"	30' 6"	26' 7"	29' 4"	26' 7"	23' 4"	24' 8"	22' 6"	19' 7"	23' 4"	21' 1"	18' 6"
1000S250-54	10SSW16	35' 0"	31' 10"	27' 10"	30' 7"	27' 10"	24' 4"	25' 10"	23' 6"	20' 6"	24' 4"	22' 1"	19' 4"
1000S162-68	10SSJ14	34' 4"	31' 2"	27' 2"	30' 0"	27' 2"	23' 10"	25' 4"	23' 0"	20' 1"	23' 10"	21' 7"	18' 11"
1000S200-68	10SJW14	35' 11"	32' 8"	28' 6"	31' 5"	28' 6"	24' 11"	26' 6"	24' 1"	21' 0"	24' 11"	22' 7"	19' 10"
1000S250-68	10SSW14	37' 11"	34' 5"	30' 0"	33' 1"	30' 0"	26' 2"	27' 11"	25' 4"	22' 1"	26' 2"	23' 10"	20' 10"
1000S162-97	10SSJ12	37' 7"	34' 1"	29' 10"	32' 10"	29' 10"	26' 0"	27' 8"	25' 1"	22' 0"	26' 0"	23' 8"	20' 8"
1000S200-97	10SJW12	39' 6"	35' 11"	31' 5"	34' 6"	31' 5"	27' 5"	29' 1"	26' 1"	23' 1"	27' 5"	24' 11"	21' 10"
1000S250-97	10SSW12	41' 11"	38' 1"	33' 2"	36' 7"	33' 2"	29' 0"	30' 11"	28' 0"	24' 6"	29' 0"	26' 5"	23' 0"

Flange Width: SSCW=1-1/4", SSC=1-3/8", SSJ=1-5/8", SJW=2" and SSW=2-1/2"

See page 20 for additional table notes.

SUGGESTED DESIGN GUIDES
LIMITING HEIGHTS
(FEET & INCHES)

25 PSF LATERAL LOAD

		L/240			L/360			L/600			L/720		
AISI Designation	Legacy Designation	12"	16"	24"	12"	16"	24"	12"	16"	24"	12"	16"	24"
250S137-33	2-1/2SSC20	8' 2"	7' 5"	6' 6"	7' 1"	6' 6"	5' 8"	6' 0"	5' 6"	4' 10"	5' 8"	5' 1"	4' 6"
250S162-33	2-1/2SSJ20	8' 6"	7' 8"	6' 10"	7' 6"	6' 10"	5' 11"	6' 4"	5' 8"	5' 0"	5' 11"	5' 5"	4' 8"
250S137-43	2-1/2SSC18	8' 10"	8' 0"	7' 0"	7' 8"	7' 0"	6' 1"	6' 6"	5' 11"	5' 2"	6' 1"	5' 7"	4' 11"
250S162-43	2-1/2SSJ18	9' 4"	8' 5"	7' 5"	8' 1"	7' 5"	6' 5"	6' 10"	6' 2"	5' 5"	6' 5"	5' 10"	5' 1"
250S137-54	2-1/2SSC16	9' 6"	8' 7"	7' 6"	8' 4"	7' 6"	6' 7"	7' 0"	6' 4"	5' 6"	6' 7"	6' 0"	5' 2"
250S162-54	2-1/2SSJ16	9' 11"	9' 0"	7' 11"	8' 8"	7' 11"	6' 11"	7' 4"	6' 7"	5' 10"	6' 11"	6' 4"	5' 6"
250S137-68	2-1/2SSC14	10' 0"	9' 1"	7' 11"	8' 8"	7' 11"	6' 11"	7' 5"	6' 8"	5' 11"	6' 11"	6' 4"	5' 6"
250S162-68	2-1/2SSJ14	10' 7"	9' 7"	8' 5"	9' 2"	8' 5"	7' 4"	7' 10"	7' 1"	6' 2"	7' 4"	6' 8"	5' 10"
362S125-33	3-5/8SSCW20	10' 7"	9' 7"	8' 5"	9' 4"	8' 5"	7' 4"	7' 10"	7' 1"	6' 2"	7' 4"	6' 8"	5' 10"
362S137-33	3-5/8SSC20	10' 11"	9' 11"	8' 7"	9' 6"	8' 7"	7' 6"	8' 0"	7' 4"	6' 5"	7' 6"	6' 11"	6' 0"
362S162-33	3-5/8SSJ20	11' 4"	10' 4"	9' 0"	9' 11"	9' 0"	7' 11"	8' 4"	7' 7"	6' 7"	7' 11"	7' 1"	6' 2"
362S137-43	3-5/8SSC18	11' 10"	10' 8"	9' 4"	10' 4"	9' 4"	8' 2"	8' 8"	7' 11"	6' 11"	8' 2"	7' 5"	6' 6"
362S162-43	3-5/8SSJ18	12' 4"	11' 2"	9' 10"	10' 10"	9' 10"	8' 7"	9' 1"	8' 4"	7' 2"	8' 7"	7' 10"	6' 10"
362S200-43	3-5/8SJW18	13' 0"	11' 10"	10' 4"	11' 5"	10' 4"	9' 0"	9' 7"	8' 8"	7' 7"	9' 0"	8' 2"	7' 2"
362S137-54	3-5/8SSC16	12' 7"	11' 6"	10' 0"	11' 0"	10' 0"	8' 10"	9' 4"	8' 6"	7' 5"	8' 10"	8' 0"	7' 0"
362S162-54	3-5/8SSJ16	13' 2"	12' 0"	10' 6"	11' 7"	10' 6"	9' 2"	9' 10"	8' 11"	7' 8"	9' 2"	8' 4"	7' 4"
362S200-54	3-5/8SJW16	14' 0"	12' 8"	11' 1"	12' 2"	11' 1"	9' 8"	10' 4"	9' 5"	8' 2"	9' 8"	8' 10"	7' 8"
362S137-68	3-5/8SSC14	13' 5"	12' 2"	10' 7"	11' 8"	10' 7"	9' 4"	9' 11"	9' 0"	7' 10"	9' 4"	8' 5"	7' 5"
362S162-68	3-5/8SSJ14	14' 1"	12' 10"	11' 2"	12' 4"	11' 2"	9' 10"	10' 5"	9' 5"	8' 2"	9' 10"	8' 11"	7' 10"
362S200-68	3-5/8SJW14	15' 0"	13' 7"	11' 11"	13' 1"	11' 11"	10' 5"	11' 0"	10' 0"	8' 8"	10' 5"	9' 5"	8' 2"
362S200-97	3-5/8SJW12	16' 5"	14' 11"	13' 0"	14' 4"	13' 0"	11' 4"	12' 1"	11' 0"	9' 7"	11' 4"	10' 4"	9' 0"
400S125-33	4SSCW20	11' 5"	10' 5"	9' 1"	10' 0"	9' 1"	7' 11"	8' 5"	7' 8"	6' 8"	7' 11"	7' 2"	6' 4"
400S137-33	4SSC20	11' 8"	10' 8"	9' 4"	10' 4"	9' 4"	8' 1"	8' 8"	7' 11"	6' 11"	8' 1"	7' 5"	6' 6"
400S162-33	4SSJ20	12' 2"	11' 1"	9' 8"	10' 8"	9' 8"	8' 6"	9' 0"	8' 2"	7' 1"	8' 6"	7' 8"	6' 8"
400S137-43	4SSC18	12' 8"	11' 7"	10' 1"	11' 1"	10' 1"	8' 10"	9' 5"	8' 6"	7' 5"	8' 10"	8' 0"	7' 0"
400S162-43	4SSJ18	13' 4"	12' 1"	10' 7"	11' 7"	10' 7"	9' 2"	9' 10"	8' 11"	7' 10"	9' 2"	8' 5"	7' 4"
400S200-43	4SJW18	14' 0"	12' 8"	11' 1"	12' 2"	11' 1"	9' 8"	10' 4"	9' 5"	8' 2"	9' 8"	8' 10"	7' 8"
400S250-43	4SSW18	14' 10"	13' 5"	11' 8"	12' 11"	11' 8"	10' 4"	10' 11"	9' 11"	8' 8"	10' 4"	9' 4"	8' 1"
400S137-54	4SSC16	13' 8"	12' 5"	10' 10"	11' 11"	10' 10"	9' 6"	10' 1"	9' 1"	8' 0"	9' 6"	8' 7"	7' 6"
400S162-54	4SSJ16	14' 4"	13' 0"	11' 4"	12' 6"	11' 4"	9' 11"	10' 6"	9' 7"	8' 5"	9' 11"	9' 0"	7' 11"
400S200-54	4SJW16	15' 1"	13' 8"	12' 0"	13' 2"	12' 0"	10' 6"	11' 1"	10' 1"	8' 10"	10' 6"	9' 6"	8' 4"
400S250-54	4SSW16	16' 0"	14' 6"	12' 8"	13' 11"	12' 8"	11' 1"	11' 10"	10' 8"	9' 4"	11' 1"	10' 1"	8' 10"
400S137-68	4SSC14	14' 6"	13' 1"	11' 6"	12' 7"	11' 6"	10' 0"	10' 8"	9' 8"	8' 6"	10' 0"	9' 1"	8' 0"
400S162-68	4SSJ14	15' 2"	13' 10"	12' 1"	13' 4"	12' 1"	10' 7"	11' 2"	10' 2"	8' 11"	10' 7"	9' 7"	8' 5"
400S200-68	4SJW14	16' 1"	14' 8"	12' 10"	14' 1"	12' 10"	11' 2"	11' 11"	10' 10"	9' 5"	11' 2"	10' 2"	8' 11"
400S250-68	4SSW14	17' 2"	15' 7"	13' 7"	15' 0"	13' 7"	11' 11"	12' 8"	11' 6"	10' 0"	11' 11"	10' 10"	9' 5"
400S200-97	4SJW12	17' 8"	16' 1"	14' 0"	15' 5"	14' 0"	12' 2"	13' 0"	11' 10"	10' 4"	12' 2"	11' 1"	9' 8"
400S250-97	4SSW12	18' 11"	17' 2"	15' 0"	16' 7"	15' 0"	13' 1"	14' 0"	12' 8"	11' 1"	13' 1"	11' 11"	10' 5"

		L/240			L/360			L/600			L/720		
AISI Designation	Legacy Designation	12"	16"	24"	12"	16"	24"	12"	16"	24"	12"	16"	24"
600S125-33	6SSCW20	15' 10"	14' 5"	12' 7"	13' 10"	12' 7"	11' 0"	11' 8"	10' 7"	9' 4"	11' 0"	10' 0"	8' 8"
600S137-33	6SSC20	16' 2"	14' 8"	12' 11"	14' 1"	12' 11"	11' 2"	11' 11"	10' 10"	9' 6"	11' 2"	10' 2"	8' 11"
600S162-33	6SSJ20	16' 10"	15' 2"	13' 4"	14' 8"	13' 4"	11' 7"	12' 5"	11' 2"	9' 10"	11' 7"	10' 7"	9' 2"
600S137-43	6SSC18	17' 7"	16' 0"	13' 11"	15' 4"	13' 11"	12' 2"	12' 11"	11' 10"	10' 4"	12' 2"	11' 1"	9' 8"
600S162-43	6SSJ18	18' 4"	16' 7"	14' 6"	16' 0"	14' 6"	12' 8"	13' 6"	12' 2"	10' 8"	12' 8"	11' 6"	10' 1"
600S200-43	6SJW18	19' 2"	17' 5"	15' 2"	16' 8"	15' 2"	13' 4"	14' 1"	12' 10"	11' 2"	13' 4"	12' 1"	10' 6"
600S250-43	6SSW18	20' 1"	18' 4"	16' 0"	17' 7"	16' 0"	14' 0"	14' 10"	13' 6"	11' 10"	14' 0"	12' 8"	11' 1"
600S137-54	6SSC16	18' 11"	17' 2"	15' 0"	16' 6"	15' 0"	13' 1"	13' 11"	12' 7"	11' 0"	13' 1"	11' 11"	10' 5"
600S162-54	6SSJ16	19' 8"	17' 11"	15' 7"	17' 2"	15' 7"	13' 7"	14' 6"	13' 2"	11' 6"	13' 7"	12' 5"	10' 10"
600S200-54	6SJW16	20' 8"	18' 10"	16' 5"	18' 1"	16' 5"	14' 5"	15' 4"	13' 11"	12' 1"	14' 5"	13' 1"	11' 5"
600S250-54	6SSW16	21' 10"	19' 10"	17' 4"	19' 0"	17' 4"	15' 1"	16' 1"	14' 7"	12' 8"	15' 1"	13' 8"	12' 0"
600S137-68	6SSC14	20' 0"	18' 2"	15' 11"	17' 6"	15' 11"	13' 11"	14' 10"	13' 5"	11' 8"	13' 11"	12' 7"	11' 0"
600S162-68	6SSJ14	21' 0"	19' 1"	16' 8"	18' 4"	16' 8"	14' 7"	15' 6"	14' 0"	12' 4"	14' 7"	13' 2"	11' 6"
600S200-68	6SJW14	22' 2"	20' 1"	17' 7"	19' 5"	17' 7"	15' 5"	16' 4"	14' 10"	13' 0"	15' 5"	14' 0"	12' 2"
600S250-68	6SSW14	23' 6"	21' 4"	18' 7"	20' 6"	18' 7"	16' 4"	17' 4"	15' 8"	13' 8"	16' 4"	14' 10"	12' 11"
600S200-97	6SJW12	24' 4"	22' 1"	19' 4"	21' 2"	19' 4"	16' 10"	17' 11"	16' 4"	14' 2"	16' 10"	15' 4"	13' 5"
600S250-97	6SSW12	25' 11"	23' 7"	20' 7"	22' 8"	20' 7"	18' 0"	19' 1"	17' 5"	15' 2"	18' 0"	16' 4"	14' 4"
800S162-43	8SSJ18	23' 1"	20' 11"	18' 4"	20' 1"	18' 4"	16' 0"	17' 0"	15' 5"	13' 6"	16' 0"	14' 6"	12' 8"
800200-43	8SJW18	24' 1"	21' 11"	19' 1"	21' 0"	19' 1"	16' 8"	17' 8"	16' 1"	14' 1"	16' 8"	15' 2"	13' 2"
800S250-43	8SSW18	25' 2"	22' 11"	20' 0"	22' 0"	20' 0"	17' 6"	18' 6"	16' 11"	14' 8"	17' 6"	15' 11"	13' 11"
800S162-54	8SSJ16	24' 10"	22' 6"	19' 8"	21' 8"	19' 8"	17' 2"	18' 4"	16' 7"	14' 6"	17' 2"	15' 7"	13' 8"
800S200-54	8SJW16	26' 0"	23' 8"	20' 8"	22' 8"	20' 8"	18' 1"	19' 2"	17' 5"	15' 2"	18' 1"	16' 5"	14' 4"
800S250-54	8SSW16	27' 4"	24' 10"	21' 7"	23' 10"	21' 7"	18' 11"	20' 1"	18' 4"	15' 11"	18' 11"	17' 2"	15' 0"
800S162-68	8SSJ14	26' 6"	24' 1"	21' 0"	23' 1"	21' 0"	18' 5"	19' 6"	17' 8"	15' 6"	18' 5"	16' 8"	14' 7"
800S200-68	8SJW14	27' 11"	25' 4"	22' 1"	24' 4"	22' 1"	19' 4"	20' 6"	18' 7"	16' 4"	19' 4"	17' 6"	15' 4"
800S250-68	8SSW14	29' 5"	26' 8"	23' 5"	25' 8"	23' 5"	20' 5"	21' 8"	19' 8"	17' 2"	20' 5"	18' 6"	16' 2"
800S162-97	8SSJ12	28' 11"	26' 4"	23' 0"	25' 4"	23' 0"	20' 1"	21' 4"	19' 5"	16' 11"	20' 1"	18' 2"	15' 11"
800S200-97	8SJW12	30' 7"	27' 10"	24' 4"	26' 8"	24' 4"	21' 2"	22' 6"	20' 6"	17' 11"	21' 2"	19' 4"	16' 10"
800S250-97	8SSW12	32' 6"	29' 7"	25' 10"	28' 5"	25' 10"	22' 7"	24' 0"	21' 10"	19' 0"	22' 7"	20' 6"	17' 11"
1000S162-54	10SSJ16	29' 10"	27' 1"	23' 8"	26' 0"	23' 8"	20' 8"	22' 0"	19' 11"	17' 5"	20' 8"	18' 10"	16' 5"
1000200-54	10SJW16	31' 2"	28' 4"	24' 8"	27' 2"	24' 8"	21' 7"	23' 0"	20' 11"	18' 2"	21' 7"	19' 7"	17' 2"
1000S250-54	10SSW16	32' 6"	29' 7"	25' 10"	28' 5"	25' 10"	22' 7"	24' 0"	21' 10"	19' 0"	22' 7"	20' 6"	17' 11"
1000S162-68	10SSJ14	31' 11"	28' 11"	25' 4"	27' 10"	25' 4"	22' 1"	23' 6"	21' 4"	18' 7"	22' 1"	20' 1"	17' 6"
1000S200-68	10SJW14	33' 5"	30' 4"	26' 6"	29' 1"	26' 6"	23' 1"	24' 7"	22' 4"	19' 6"	23' 1"	21' 0"	18' 5"
1000S250-68	10SSW14	35' 1"	31' 11"	27' 11"	30' 8"	27' 11"	24' 5"	25' 11"	23' 6"	20' 6"	24' 5"	22' 1"	19' 4"
1000S162-97	10SSJ12	34' 11"	31' 8"	27' 8"	30' 6"	27' 8"	24' 2"	25' 8"	23' 4"	20' 5"	24' 2"	22' 0"	19' 2"
1000S200-97	10SJW12	36' 8"	33' 4"	29' 1"	32' 1"	29' 1"	25' 5"	27' 0"	24' 7"	21' 6"	25' 5"	23' 1"	20' 2"
1000S250-97	10SSW12	38' 11"	35' 4"	30' 11"	34' 0"	30' 11"	27' 0"	28' 7"	26' 0"	22' 8"	27' 0"	24' 6"	21' 5"

Flange Width: SSCW=1-1/4", SSC=1-3/8", SSJ=1-5/8", SJW=2" and SSW=2-1/2"

See page 20 for additional table notes.

SUGGESTED DESIGN GUIDES
LIMITING HEIGHTS
(FEET & INCHES)

30 PSF LATERAL LOAD

		L/240			L/360			L/600			L/720		
AISI Designation	Legacy Designation	12"	16"	24"	12"	16"	24"	12"	16"	24"	12"	16"	24"
250S137-33	2-1/2SSC20	7' 8"	7' 0"	6' 1"	6' 8"	6' 1"	5' 4"	5' 8"	5' 1"	4' 6"	5' 4"	4' 10"	4' 2"
250S162-33	2-1/2SSJ20	8' 0"	7' 4"	6' 5"	7' 0"	6' 5"	5' 7"	5' 11"	5' 5"	4' 8"	5' 7"	5' 1"	4' 5"
250S137-43	2-1/2SSC18	8' 4"	7' 7"	6' 7"	7' 4"	6' 7"	5' 10"	6' 1"	5' 7"	4' 11"	5' 10"	5' 2"	4' 7"
250S162-43	2-1/2SSJ18	8' 8"	7' 11"	6' 11"	7' 7"	6' 11"	6' 0"	6' 5"	5' 10"	5' 1"	6' 0"	5' 6"	4' 10"
250S137-54	2-1/2SSC16	8' 11"	8' 1"	7' 1"	7' 10"	71' 0"	6' 2"	6' 7"	6' 0"	5' 2"	6' 2"	5' 7"	4' 0"
250S162-54	2-1/2SSJ16	9' 4"	8' 6"	7' 5"	8' 2"	7' 5"	6' 6"	6' 11"	6' 4"	5' 6"	6' 6"	5' 11"	5' 1"
250S137-68	2-1/2SSC14	9' 5"	8' 7"	7' 6"	8' 2"	7' 6"	6' 6"	6' 11"	6' 4"	5' 6"	6' 6"	5' 11"	5' 2"
250S162-68	2-1/2SSJ14	9' 11"	9' 0"	7' 11"	8' 8"	7' 11"	6' 11"	7' 4"	6' 8"	5' 10"	6' 11"	6' 4"	5' 6"
362S125-33	3-5/8SSCW20	10' 0"	9' 1"	7' 11"	8' 8"	7' 11"	6' 11"	7' 4"	6' 8"	5' 10"	6' 11"	6' 4"	5' 6"
362S137-33	3-5/8SSC20	10' 2"	9' 4"	8' 1"	8' 11"	8' 1"	7' 1"	7' 6"	6' 11"	6' 0"	7' 1"	6' 5"	5' 7"
362S162-33	3-5/8SSJ20	10' 8"	9' 8"	8' 6"	9' 4"	8' 6"	7' 5"	7' 11"	7' 1"	6' 2"	7' 5"	6' 8"	5' 11"
362S137-43	3-5/8SSC18	11' 1"	10' 1"	8' 10"	9' 8"	8' 10"	7' 8"	8' 2"	7' 5"	6' 6"	7' 8"	7' 0"	6' 1"
362S162-43	3-5/8SSJ18	11' 7"	10' 6"	9' 2"	10' 1"	9' 2"	8' 0"	8' 7"	7' 10"	6' 10"	8' 0"	7' 4"	6' 5"
362S200-43	3-5/8SJW18	12' 2"	11' 1"	9' 8"	10' 8"	9' 8"	8' 6"	9' 0"	8' 2"	7' 2"	8' 6"	7' 8"	6' 8"
362S137-54	3-5/8SSC16	11' 11"	10' 10"	9' 5"	10' 5"	9' 5"	8' 2"	8' 10"	8' 0"	7' 0"	8' 2"	7' 6"	6' 6"
362S162-54	3-5/8SSJ16	12' 6"	11' 4"	9' 11"	10' 11"	9' 11"	8' 7"	9' 2"	8' 4"	7' 4"	8' 7"	7' 10"	6' 11"
362S200-54	3-5/8SJW16	13' 2"	12' 0"	10' 6"	11' 6"	10' 6"	9' 1"	9' 8"	8' 10"	7' 8"	9' 1"	8' 0"	7' 4"
362S137-68	3-5/8SSC14	12' 7"	11' 5"	10' 0"	11' 0"	10' 0"	8' 8"	9' 4"	8' 5"	7' 5"	8' 8"	7' 11"	6' 11"
362S162-68	3-5/8SSJ14	13' 4"	12' 1"	10' 6"	11' 7"	10' 6"	9' 2"	9' 10"	8' 11"	7' 10"	9' 2"	8' 5"	7' 4"
362S200-68	3-5/8SJW14	14' 1"	12' 10"	11' 2"	12' 4"	11' 2"	9' 10"	10' 5"	9' 5"	8' 2"	9' 10"	8' 11"	7' 8"
362S200-97	3-5/8SJW12	15' 5"	14' 0"	12' 2"	13' 6"	12' 2"	10' 8"	11' 4"	10' 4"	9' 0"	10' 8"	9' 8"	8' 6"
400S125-33	4SSCW20	10' 10"	9' 10"	8' 7"	9' 5"	8' 7"	7' 6"	7' 11"	7' 2"	6' 4"	7' 6"	6' 10"	5' 11"
400S137-33	4SSC20	11' 0"	10' 0"	8' 10"	9' 8"	8' 10"	7' 8"	8' 1"	7' 5"	6' 6"	7' 8"	7' 0"	6' 1"
400S162-33	4SSJ20	11' 6"	10' 5"	9' 1"	10' 0"	9' 1"	8' 0"	8' 6"	7' 8"	6' 8"	8' 0"	7' 2"	6' 4"
400S137-43	4SSC18	12' 0"	10' 11"	9' 6"	10' 6"	9' 6"	8' 4"	8' 10"	8' 0"	7' 0"	8' 4"	7' 6"	6' 7"
400S162-43	4SSJ18	12' 6"	11' 5"	9' 11"	10' 11"	9' 11"	8' 8"	9' 2"	8' 5"	7' 4"	8' 8"	7' 11"	6' 11"
400S200-43	4SJW18	13' 2"	12' 0"	10' 6"	11' 6"	10' 6"	9' 1"	9' 8"	8' 10"	7' 8"	9' 1"	8' 4"	7' 4"
400S250-43	4SSW18	13' 11"	12' 7"	11' 1"	12' 2"	11' 1"	9' 8"	10' 4"	9' 4"	8' 1"	9' 8"	8' 10"	7' 8"
400S137-54	4SSC16	12' 11"	11' 8"	10' 2"	11' 2"	10' 2"	8' 11"	9' 6"	8' 7"	7' 6"	8' 11"	8' 1"	7' 1"
400S162-54	4SSJ16	13' 5"	12' 2"	10' 8"	11' 8"	10' 8"	9' 4"	9' 11"	9' 0"	7' 11"	9' 4"	8' 6"	7' 5"
400S200-54	4SJW16	14' 2"	12' 11"	11' 4"	12' 5"	11' 4"	9' 11"	10' 6"	9' 6"	8' 4"	9' 11"	9' 0"	7' 10"
400S250-54	4SSW16	15' 0"	13' 7"	11' 11"	13' 1"	11' 11"	10' 5"	11' 1"	10' 1"	8' 10"	10' 5"	9' 6"	8' 4"
400S137-68	4SSC14	13' 7"	12' 5"	10' 10"	11' 11"	10' 10"	9' 5"	10' 0"	9' 1"	8' 0"	9' 5"	8' 7"	7' 6"
400S162-68	4SSJ14	14' 4"	13' 0"	11' 5"	12' 6"	11' 5"	9' 11"	10' 7"	9' 7"	8' 5"	9' 11"	9' 0"	7' 11"
400S200-68	4SJW14	15' 2"	13' 10"	12' 1"	13' 4"	12' 1"	10' 6"	11' 2"	10' 2"	8' 11"	10' 6"	9' 7"	8' 5"
400S250-68	4SSW14	16' 2"	14' 8"	12' 10"	14' 1"	12' 10"	11' 2"	11' 11"	10' 10"	9' 5"	11' 2"	10' 2"	8' 11"
400S200-97	4SJW12	16' 7"	15' 1"	13' 2"	14' 6"	13' 2"	11' 6"	12' 2"	11' 1"	9' 8"	11' 6"	10' 6"	9' 1"
400S250-97	4SSW12	17' 10"	16' 2"	14' 2"	156' 0"	14' 2"	12' 5"	13' 1"	11' 11"	10' 5"	12' 5"	11' 2"	9' 10"

		L/240			L/360			L/600			L/720		
SECTION		12"	16"	24"	12"	16"	24"	12"	16"	24"	12"	16"	24"
600S125-33	6SSCW20	14' 11"	13' 6"	1' 10"	13' 0"	11' 10"	10' 4"	11' 0"	10' 0"	8' 8"	10' 4"	9' 5"	8' 2"
600S137-33	6SSC20	15' 2"	13' 10"	12' 1"	13' 4"	12' 1"	10' 7"	11' 2"	10' 2"	8' 11"	10' 7"	9' 7"	8' 5"
600S162-33	6SSJ20	15' 10"	14' 4"	12' 6"	13' 10"	12' 6"	10' 11"	11' 7"	10' 7"	9' 2"	10' 11"	9' 11"	8' 8"
600S137-43	6SSC18	16' 6"	15' 0"	13' 1"	14' 5"	13' 1"	11' 6"	12' 2"	11' 1"	9' 8"	11' 6"	10' 5"	9' 1"
600S162-43	6SSJ18	17' 2"	15' 7"	13' 8"	15' 0"	13' 8"	11' 11"	12' 8"	11' 6"	10' 1"	11' 11"	10' 10"	9' 6"
600S200-43	6SJW18	18' 0"	16' 5"	14' 4"	15' 10"	14' 4"	12' 6"	13' 4"	12' 1"	10' 6"	12' 6"	11' 5"	9' 11"
600S250-43	6SSW18	19' 0"	17' 2"	15' 0"	16' 7"	15' 0"	13' 1"	14' 0"	12' 8"	11' 1"	13' 1"	11' 11"	10' 5"
600S137-54	6SSC16	17' 10"	16' 1"	14' 1"	15' 6"	14' 1"	12' 4"	13' 1"	11' 11"	10' 5"	12' 4"	11' 2"	9' 10"
600S162-54	6SSJ16	18' 6"	16' 10"	14' 8"	16' 2"	14' 8"	12' 10"	13' 7"	12' 5"	10' 10"	12' 10"	11' 8"	10' 2"
600S200-54	6SJW16	19' 6"	17' 8"	15' 6"	17' 0"	15' 6"	13' 6"	14' 5"	13' 1"	11' 5"	13' 6"	12' 4"	10' 8"
600S250-54	6SSW16	20' 6"	18' 7"	16' 4"	17' 11"	16' 4"	14' 2"	15' 1"	13' 8"	12' 0"	14' 2"	12' 11"	11' 4"
600S137-68	6SSC14	18' 10"	17' 1"	15' 0"	16' 6"	15' 0"	13' 1"	13' 11"	12' 7"	11' 0"	13' 1"	11' 11"	10' 5"
600S162-68	6SSJ14	19' 8"	17' 11"	15' 8"	17' 4"	15' 8"	13' 8"	14' 7"	13' 2"	11' 6"	13' 8"	12' 5"	10' 11"
600S200-68	6SJW14	20' 11"	18' 11"	16' 7"	18' 2"	16' 7"	14' 6"	15' 5"	14' 0"	12' 2"	14' 6"	13' 1"	11' 6"
600S250-68	6SSW14	22' 1"	20' 1"	17' 6"	19' 4"	17' 6"	15' 4"	16' 4"	14' 10"	12' 11"	15' 4"	13' 11"	12' 2"
600S200-97	6SJW12	22' 11"	20' 10"	18' 1"	20' 0"	18' 1"	15' 10"	16' 10"	15' 4"	13' 5"	15' 10"	14' 5"	12' 7"
600S250-97	6SSW12	24' 5"	22' 2"	19' 5"	21' 4"	19' 5"	16' 11"	18' 0"	16' 4"	14' 4"	16' 11"	15' 5"	13' 5"
800S162-43	8SSJ18	21' 8"	19' 8"	17' 2"	19' 0"	17' 2"	15' 0"	16' 0"	14' 6"	12' 8"	15' 0"	13' 8"	11' 11"
800200-43	8SJW18	22' 7"	20' 7"	18' 0"	19' 10"	18' 0"	15' 8"	16' 8"	15' 2"	13' 2"	15' 8"	14' 4"	12' 6"
800S250-43	8SSW18	23' 8"	21' 6"	18' 10"	20' 8"	18' 10"	16' 5"	17' 6"	15' 11"	13' 11"	16' 5"	14' 11"	13' 0"
800S162-54	8SSJ16	23' 4"	21' 2"	18' 6"	20' 5"	18' 6"	16' 2"	17' 2"	15' 7"	13' 8"	16' 2"	14' 8"	12' 10"
800S200-54	8SJW16	24' 6"	22' 4"	19' 5"	21' 5"	19' 5"	17' 0"	18' 1"	16' 5"	14' 4"	17' 0"	15' 5"	13' 6"
800S250-54	8SSW16	25' 8"	23' 4"	20' 5"	22' 5"	20' 5"	17' 10"	18' 11"	17' 2"	15' 0"	17' 10"	16' 2"	14' 1"
800S162-68	8SSJ14	24' 11"	22' 7"	19' 10"	21' 10"	19' 10"	17' 4"	18' 5"	16' 8"	14' 7"	17' 4"	15' 8"	13' 8"
800S200-68	8SJW14	26' 2"	23' 10"	20' 10"	22' 11"	20' 10"	18' 2"	19' 4"	17' 6"	15' 4"	18' 2"	16' 6"	14' 5"
800S250-68	8SSW14	27' 8"	25' 2"	22' 0"	24' 2"	22' 0"	19' 2"	20' 5"	18' 6"	16' 2"	19' 2"	17' 5"	15' 2"
800S162-97	8SSJ12	27' 2"	24' 8"	21' 7"	23' 10"	21' 7"	18' 11"	20' 1"	18' 2"	15' 11"	18' 11"	17' 1"	15' 0"
800S200-97	8SJW12	28' 10"	26' 1"	22' 10"	25' 1"	22' 10"	20' 0"	21' 2"	19' 4"	16' 10"	20' 0"	18' 1"	15' 10"
800S250-97	8SSW12	30' 7"	27' 10"	24' 4"	26' 8"	24' 4"	21' 2"	22' 7"	20' 6"	17' 11"	21' 2"	19' 4"	16' 10"
1000S162-54	10SSJ16	28' 0"	25' 6"	22' 4"	24' 6"	22' 4"	19' 5"	20' 8"	18' 10"	16' 5"	19' 5"	17' 8"	15' 5"
1000200-54	10SJW16	29' 4"	26' 7"	23' 4"	25' 7"	23' 4"	20' 4"	21' 7"	19' 7"	17' 2"	20' 4"	18' 6"	16' 1"
1000S250-54	10SSW16	30' 7"	27' 10"	24' 4"	26' 8"	24' 4"	21' 2"	22' 7"	20' 6"	17' 11"	21' 2"	19' 4"	16' 10"
1000S162-68	10SSJ14	30' 0"	27' 2"	23' 10"	26' 2"	23' 10"	20' 10"	22' 1"	20' 1"	17' 6"	20' 10"	18' 11"	16' 6"
1000S200-68	10SJW14	31' 5"	28' 6"	24' 11"	27' 5"	24' 11"	21' 10"	23' 1"	21' 0"	18' 5"	21' 10"	19' 10"	17' 4"
1000S250-68	10SSW14	33' 1"	30' 0"	26' 2"	28' 11"	26' 2"	22' 11"	24' 5"	22' 1"	19' 4"	22' 11"	20' 10"	18' 2"
1000S162-97	10SSJ12	32' 10"	29' 10"	26' 0"	28' 8"	26' 0"	22' 8"	24' 2"	22' 0"	19' 2"	22' 8"	20' 8"	18' 1"
1000S200-97	10SJW12	34' 6"	31' 5"	27' 5"	30' 2"	27' 5"	23' 11"	25' 5"	23' 1"	20' 2"	23' 11"	21' 10"	19' 0"
1000S250-97	10SSW12	36' 7"	33' 2"	29' 0"	32' 0"	29' 0"	32' 0"	27' 0"	24' 6"	21' 5"	25' 5"	23' 0"	20' 1"

Flange Width: SSCW=1-1/4", SSC=1-3/8", SSJ=1-5/8", SJW=2" and SSW=2-1/2"

See page 20 for additional table notes.

SUGGESTED DESIGN GUIDES
LIMITING HEIGHTS
$H_{LIM,}$ (FT)
LATERAL LOAD

40 PSF LATERAL LOAD

AISI Designation	Legacy Designation	L/240			L/360			L/600			L/720		
		12”	16”	24”	12”	16”	24”	12”	16”	24”	12”	16”	24”
250S137-33	2-1/2SSC20	7' 0"	6' 4"	5' 6"	6' 1"	5' 6"	4' 10"	5' 1"	4' 8"	4' 1"	4' 10"	4' 5"	3' 10"
250S162-33	2-1/2SSJ20	7' 4"	6' 7"	5' 10"	6' 5"	5' 10"	5' 1"	5' 5"	4' 11"	4' 4"	5' 1"	46' 0"	4' 0"
250S137-43	2-1/2SSC18	7' 7"	6' 11"	6' 0"	6' 7"	6' 0"	5' 2"	5' 7"	5' 1"	4' 5"	5' 2"	4' 10"	4' 2"
250S162-43	2-1/2SSJ18	7' 11"	7' 2"	6' 4"	6' 11"	6' 4"	5' 6"	5' 10"	5' 4"	4' 7"	5' 6"	5' 0"	4' 5"
250S137-54	2-1/2SSC16	8' 1"	7' 5"	6' 5"	7' 1"	6' 5"	5' 7"	6' 0"	5' 5"	4' 8"	5' 7"	5' 1"	4' 6"
250S162-54	2-1/2SSJ16	8' 6"	7' 8"	6' 8"	7' 5"	6' 8"	5' 11"	6' 4"	5' 8"	5' 0"	5' 11"	5' 4"	4' 8"
250S137-68	2-1/2SSC14	8' 7"	7' 10"	6' 10"	7' 6"	6' 10"	5' 11"	6' 4"	5' 8"	5' 0"	5' 11"	5' 5"	4' 8"
250S162-68	2-1/2SSJ14	9' 0"	8' 2"	7' 2"	7' 11"	7' 2"	6' 4"	6' 8"	6' 0"	5' 4"	6' 4"	5' 8"	5' 0"
362S125-33	3-5/8SSCW20	9' 1"	8' 2"	7' 2"	7' 11"	7' 2"	6' 4"	6' 8"	6' 1"	5' 4"	6' 4"	5' 8"	5' 0"
362S137-33	3-5/8SSC20	9' 4"	8' 5"	7' 5"	8' 1"	7' 5"	6' 5"	6' 11"	6' 2"	5' 5"	6' 5"	5' 11"	5' 1"
362S162-33	3-5/8SSJ20	9' 8"	8' 10"	7' 8"	8' 6"	7' 8"	6' 8"	7' 1"	6' 6"	5' 8"	6' 8"	6' 1"	5' 4"
362S137-43	3-5/8SSC18	10' 1"	9' 1"	8' 0"	8' 10"	8' 0"	7' 0"	7' 5"	6' 8"	5' 11"	7' 0"	6' 4"	5' 6"
362S162-43	3-5/8SSJ18	10' 6"	9' 7"	8' 5"	9' 2"	8' 5"	7' 4"	7' 10"	7' 1"	6' 2"	7' 4"	6' 7"	5' 10"
362S200-43	3-5/8SJW18	11' 1"	10' 1"	8' 10"	9' 8"	8' 10"	7' 8"	8' 2"	7' 5"	6' 6"	7' 8"	7' 0"	6' 1"
362S137-54	3-5/8SSC16	10' 10"	9' 10"	8' 7"	9' 5"	8' 7"	7' 6"	8' 0"	7' 2"	6' 4"	7' 6"	6' 10"	5' 11"
362S162-54	3-5/8SSJ16	11' 4"	10' 4"	9' 0"	9' 11"	9' 0"	7' 10"	8' 4"	7' 7"	6' 7"	7' 10"	7' 1"	6' 2"
362S200-54	3-5/8SJW16	12' 0"	10' 11"	9' 6"	10' 6"	9' 6"	8' 4"	8' 10"	8' 0"	7' 0"	8' 4"	7' 6"	6' 7"
362S137-68	3-5/8SSC14	11' 5"	10' 5"	9' 1"	10' 0"	9' 1"	7' 11"	8' 5"	7' 8"	6' 8"	7' 11"	7' 2"	6' 4"
362S162-68	3-5/8SSJ14	12' 1"	11' 0"	9' 7"	10' 6"	9' 7"	8' 5"	8' 11"	8' 1"	7' 0"	8' 5"	7' 7"	6' 7"
362S200-68	3-5/8SJW14	12' 10"	11' 7"	10' 2"	11' 2"	10' 2"	8' 11"	9' 5"	8' 7"	7' 6"	8' 11"	8' 1"	7' 0"
362S200-97	3-5/8SJW12	14' 0"	12' 8"	11' 1"	12' 2"	11' 1"	9' 8"	10' 4"	9' 5"	8' 2"	9' 8"	8' 10"	7' 8"
400S125-33	4SSCW20	9' 10"	8' 11"	7' 10"	8' 7"	7' 10"	6' 10"	7' 2"	6' 7"	5' 8"	6' 10"	6' 2"	5' 5"
400S137-33	4SSC20	10' 0"	9' 1"	8' 0"	8' 10"	8' 0"	7' 0"	7' 5"	6' 8"	5' 11"	7' 0"	6' 4"	5' 6"
400S162-33	4SSJ20	10' 5"	9' 6"	8' 4"	9' 1"	8' 4"	7' 2"	7' 8"	7' 0"	6' 1"	7' 2"	6' 7"	5' 8"
400S137-43	4SSC18	10' 11"	9' 11"	8' 7"	9' 6"	8' 7"	7' 6"	8' 0"	7' 4"	6' 5"	7' 6"	6' 11"	6' 0"
400S162-43	4SSJ18	11' 5"	10' 4"	9' 0"	9' 11"	9' 0"	7' 11"	8' 5"	7' 7"	6' 8"	7' 11"	7' 2"	6' 4"
400S200-43	4SJW18	12' 0"	10' 11"	9' 6"	10' 6"	9' 6"	8' 4"	8' 10"	8' 0"	7' 0"	8' 4"	7' 6"	6' 7"
400S250-43	4SSW18	12' 7"	11' 6"	10' 0"	11' 1"	10' 0"	8' 10"	9' 4"	8' 6"	7' 5"	8' 10"	8' 0"	7' 0"
400S137-54	4SSC16	11' 8"	10' 7"	9' 4"	10' 2"	9' 4"	8' 1"	8' 7"	7' 10"	6' 10"	8' 1"	74' 0"	6' 5"
400S162-54	4SSJ16	12' 2"	11' 1"	9' 8"	10' 8"	9' 8"	8' 6"	9' 0"	8' 2"	7' 1"	8' 6"	7' 8"	6' 8"
400S200-54	4SJW16	12' 11"	11' 8"	10' 4"	11' 4"	10' 4"	9' 0"	9' 6"	8' 8"	7' 7"	9' 0"	8' 1"	7' 1"
400S250-54	4SSW16	13' 7"	12' 5"	10' 10"	11' 11"	10' 10"	9' 6"	10' 1"	9' 1"	8' 0"	9' 6"	8' 7"	7' 6"
400S137-68	4SSC14	12' 5"	11' 2"	9' 10"	10' 10"	9' 10"	8' 7"	9' 1"	8' 4"	7' 2"	8' 7"	7' 10"	6' 10"
400S162-68	4SSJ14	13' 0"	11' 10"	10' 4"	11' 5"	10' 4"	9' 0"	9' 7"	8' 8"	7' 7"	9' 0"	8' 2"	7' 2"
400S200-68	4SJW14	13' 10"	12' 6"	11' 0"	12' 1"	11' 0"	9' 7"	10' 2"	9' 2"	8' 1"	9' 7"	8' 8"	7' 7"
400S250-68	4SSW14	14' 8"	13' 4"	11' 8"	12' 10"	11' 8"	10' 2"	10' 10"	9' 10"	8' 7"	10' 2"	9' 2"	8' 1"
400S200-97	4SJW12	15' 1"	13' 8"	12' 0"	13' 2"	12' 0"	10' 6"	11' 1"	10' 1"	8' 10"	10' 6"	9' 6"	8' 4"
400S250-97	4SSW12	16' 2"	14' 8"	12' 11"	14' 2"	12' 11"	11' 2"	11' 11"	10' 10"	9' 6"	11' 2"	10' 2"	8' 11"

AISI Designation	Legacy Designation	L/240			L/360			L/600			L/720		
		12”	16”	24”	12”	16”	24”	12”	16”	24”	12”	16”	24”
600S125-33	6SSCW20	13' 6"	12' 4"	10' 6"	11' 10"	10' 8"	9' 5"	10' 0"	9' 1"	7' 11"	9' 5"	8' 6"	7' 5"
600S137-33	6SSC20	13' 10"	12' 7"	10' 11"	12' 1"	11' 0"	9' 7"	10' 2"	9' 4"	8' 1"	9' 7"	8' 8"	7' 7"
600S162-33	6SSJ20	14' 4"	13' 0"	11' 4"	12' 6"	11' 5"	9' 11"	10' 7"	9' 7"	8' 5"	9' 11"	9' 0"	7' 11"
600S137-43	6SSC18	15' 0"	13' 7"	11' 11"	13' 1"	11' 11"	10' 5"	11' 1"	10' 0"	8' 10"	10' 5"	9' 6"	8' 4"
600S162-43	6SSJ18	15' 7"	14' 2"	12' 5"	13' 8"	12' 5"	10' 10"	11' 6"	10' 6"	9' 1"	10' 10"	9' 11"	8' 7"
600S200-43	6SJW18	16' 5"	14' 11"	13' 0"	14' 4"	13' 0"	11' 5"	12' 1"	11' 0"	9' 7"	11' 5"	10' 4"	9' 0"
600S250-43	6SSW18	17' 2"	15' 7"	13' 8"	15' 0"	13' 8"	11' 11"	12' 8"	11' 6"	10' 1"	11' 11"	10' 10"	9' 6"
600S137-54	6SSC16	16' 1"	14' 8"	12' 10"	14' 1"	12' 10"	11' 2"	11' 11"	10' 10"	9' 5"	11' 2"	10' 2"	8' 11"
600S162-54	6SSJ16	16' 10"	15' 4"	13' 5"	14' 8"	13' 5"	11' 8"	12' 5"	11' 4"	9' 10"	11' 8"	10' 7"	9' 4"
600S200-54	6SJW16	17' 8"	16' 1"	14' 1"	15' 6"	14' 1"	12' 4"	13' 1"	11' 11"	10' 5"	12' 4"	11' 2"	9' 10"
600S250-54	6SSW16	18' 7"	16' 11"	14' 10"	16' 4"	14' 10"	12' 11"	13' 8"	12' 6"	10' 11"	12' 11"	11' 8"	10' 4"
600S137-68	6SSC14	17' 1"	15' 7"	13' 7"	15' 0"	13' 7"	11' 11"	12' 7"	11' 6"	10' 0"	11' 11"	10' 10"	9' 5"
600S162-68	6SSJ14	17' 11"	16' 4"	14' 0"	15' 8"	14' 2"	12' 5"	13' 2"	12' 0"	10' 6"	12' 5"	11' 4"	9' 11"
600S200-68	6SJW14	18' 11"	17' 2"	15' 0"	16' 7"	15' 0"	13' 1"	14' 0"	12' 8"	11' 1"	13' 1"	11' 11"	10' 5"
600S250-68	6SSW14	20' 1"	18' 4"	15' 11"	17' 6"	15' 11"	13' 11"	14' 10"	13' 5"	11' 8"	13' 11"	12' 8"	11' 1"
600S200-97	6SJW12	20' 10"	18' 11"	16' 6"	18' 1"	16' 6"	14' 5"	15' 4"	13' 11"	12' 1"	14' 5"	13' 1"	11' 5"
600S250-97	6SSW12	22' 2"	20' 2"	17' 7"	19' 5"	17' 7"	15' 5"	16' 4"	14' 11"	13' 0"	15' 5"	14' 0"	12' 2"
800S162-43	8SSJ18	19' 8"	17' 11"	15' 7"	17' 2"	15' 7"	13' 8"	14' 6"	13' 2"	11' 6"	13' 8"	12' 5"	10' 10"
800200-43	8SJW18	20' 7"	18' 8"	16' 4"	18' 0"	16' 4"	14' 4"	15' 2"	13' 10"	12' 0"	14' 4"	13' 0"	11' 4"
800S250-43	8SSW18	21' 6"	19' 7"	17' 1"	18' 10"	17' 1"	14' 11"	15' 11"	14' 5"	12' 7"	14' 11"	13' 7"	11' 10"
800S162-54	8SSJ16	21' 2"	19' 4"	16' 10"	18' 6"	16' 10"	14' 8"	15' 7"	14' 2"	12' 5"	14' 8"	13' 5"	11' 8"
800S200-54	8SJW16	22' 4"	20' 2"	17' 8"	19' 5"	17' 8"	15' 5"	16' 5"	14' 11"	13' 0"	15' 5"	14' 0"	12' 2"
800S250-54	8SSW16	23' 4"	21' 2"	18' 6"	20' 5"	18' 6"	16' 2"	17' 2"	15' 7"	13' 7"	16' 2"	14' 8"	12' 10"
800S162-68	8SSJ14	22' 7"	20' 7"	18' 0"	19' 10"	18' 0"	15' 8"	16' 8"	15' 2"	13' 2"	15' 8"	14' 4"	12' 6"
800S200-68	8SJW14	23' 10"	21' 7"	18' 11"	20' 10"	18' 11"	16' 6"	17' 6"	15' 11"	13' 11"	16' 6"	15' 0"	13' 1"
800S250-68	8SSW14	25' 2"	22' 11"	20' 0"	22' 0"	20' 0"	17' 5"	18' 6"	16' 10"	14' 8"	17' 5"	15' 11"	13' 10"
800S162-97	8SSJ12	24' 8"	22' 6"	9' 7"	21' 7"	19' 7"	17' 1"	18' 2"	16' 7"	14' 6"	17' 1"	15' 7"	13' 7"
800S200-97	8SJW12	26' 1"	23' 10"	20' 10"	22' 10"	20' 10"	18' 1"	19' 4"	17' 6"	15' 4"	18' 1"	16' 6"	14' 5"
800S250-97	8SSW12	27' 10"	25' 4"	22' 1"	24' 4"	22' 1"	19' 4"	20' 6"	18' 7"	16' 4"	19' 4"	17' 6"	15' 4"
1000S162-54	10SSJ16	25' 6"	23' 1"	20' 2"	22' 4"	20' 2"	17' 8"	18' 10"	17' 1"	14' 11"	17' 8"	16' 1"	14' 0"
1000200-54	10SJW16	26' 7"	24' 2"	21' 1"	23' 4"	21' 1"	18' 6"	19' 7"	17' 10"	15' 7"	18' 6"	16' 10"	14' 8"
1000S250-54	10SSW16	27' 10"	25' 4"	22' 1"	24' 4"	22' 1"	19' 4"	20' 6"	18' 7"	16' 4"	19' 4"	17' 6"	15' 4"
1000S162-68	10SSJ14	27' 2"	24' 8"	21' 7"	23' 10"	21' 7"	18' 11"	20' 1"	18' 2"	15' 11"	18' 11"	17' 2"	15' 0"
1000S200-68	10SJW14	28' 6"	25' 11"	22' 7"	24' 11"	22' 7"	19' 10"	21' 0"	19' 1"	16' 8"	19' 10"	18' 0"	15' 8"
1000S250-68	10SSW14	30' 0"	27' 4"	23' 10"	26' 2"	23' 10"	20' 10"	22' 1"	20' 1"	17' 7"	20' 10"	18' 11"	16' 6"
1000S162-97	10SSJ12	29' 10"	27' 1"	23' 8"	26' 0"	23' 8"	20' 8"	22' 0"	20' 0"	17' 5"	20' 8"	18' 10"	16' 5"
1000S200-97	10SJW12	31' 5"	28' 6"	24' 11"	27' 5"	24' 11"	21' 10"	23' 1"	21' 0"	18' 4"	21' 10"	19' 10"	17' 4"
1000S250-97	10SSW12	33' 2"	30' 2"	26' 5"	29' 0"	26' 5"	23' 0"	24' 6"	22' 4"	19' 5"	23' 0"	20' 11"	18' 4"

Flange Width: SSCW=1-1/4”, SSC=1-3/8”, SSJ=1-5/8”, SJW=2” and SSW=2-1/2”

See page 20 for additional table notes.

SUPERMAXX STUD & JOIST SYSTEM
LONGER SPANS. BIGGER LOADS. STRONGER STEEL.

SUPERMAXX STUD & JOIST

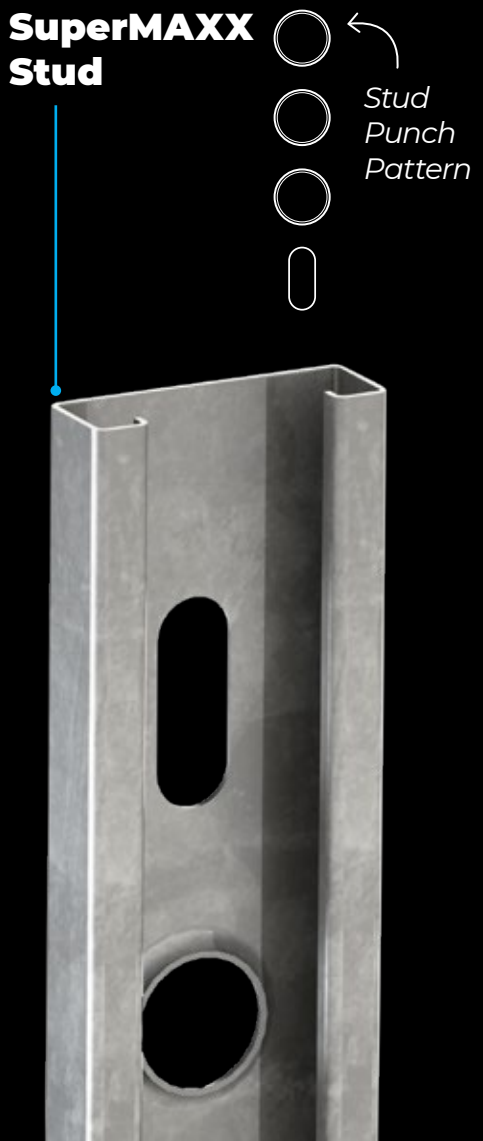
The SuperMAXX system has one of the highest strength-to-weight ratios of any cold-formed steel (CFS) assembly on the market today.

Large stiffened punchouts in both stud and joist members provide industry-best accessibility along the length of the web, accommodating all trade installations.

Both SuperMAXX Joists and SuperMAXX Studs have flanges with double returns for superior reinforcement that dramatically increase spans and capacities.

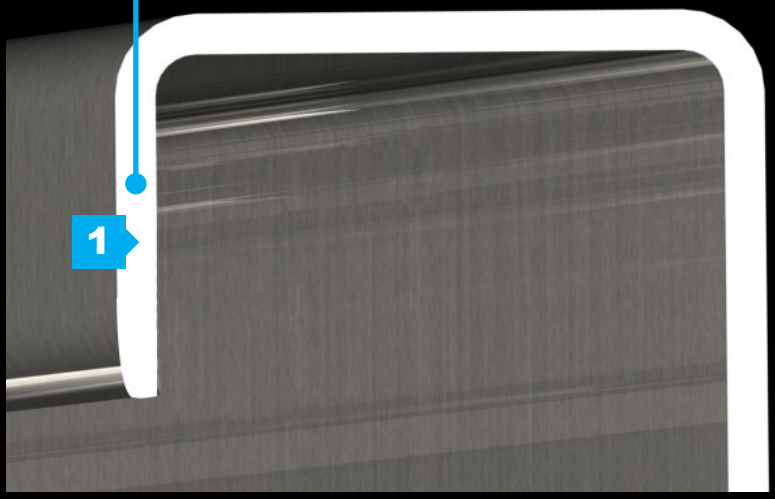
The SuperMAXX Joist features web depths from 8 inches to an industry-best 18 inches. The SuperMAXX Stud members have web depths starting at 6 inches.

While SuperMAXX was designed as a system, framers and designers can use the stud or joist applications independently. Member sizing for both the SuperMAXX Joist and Stud match standard flange widths and web depths as traditional stud and track members.



AVAILABLE WITH EITHER A SINGLE RETURN FLANGE OR A DOUBLE RETURN FLANGE FOR ADDED STRENGTH

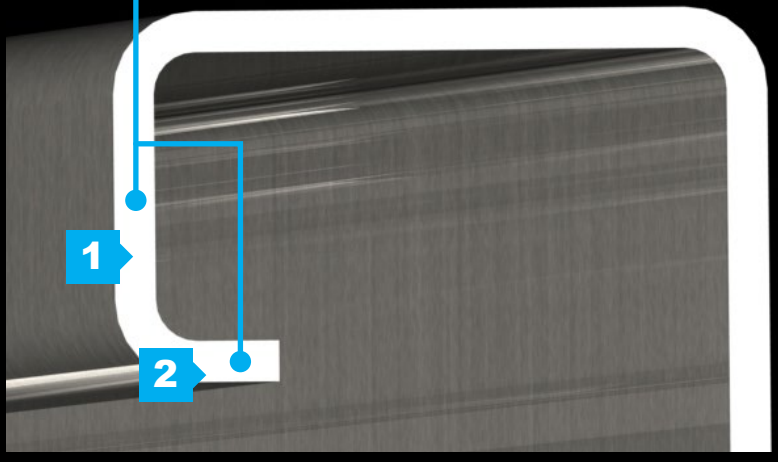
Single Return Flange



SUPER

INDICATES A SINGLE RETURN

Double Return Flange



SUPERMAXX

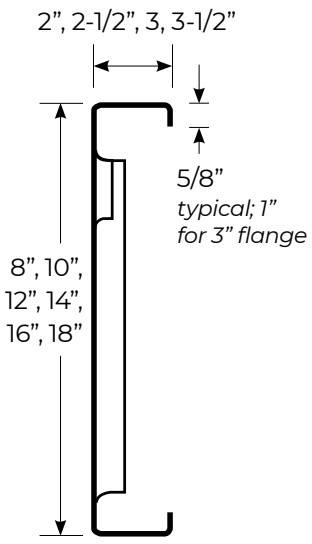
INDICATES A DOUBLE RETURN

For SuperMAXX Stud & Joist submittal packages and ordering information visit www.BuySuperStud.com

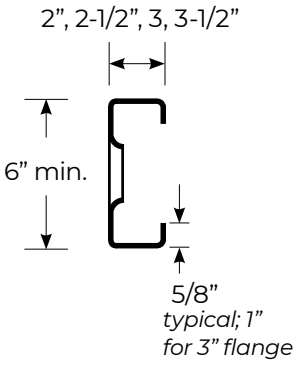
SUPERMAXX STUD & JOIST SYSTEM
MEMBER SIZING

SUPER

SUPER JOIST



SUPER STUD

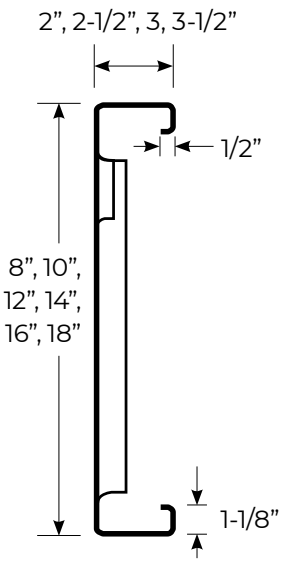


SINGLE RETURN LIP

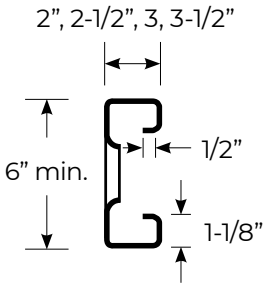
PRODUCT DESIGNATOR: **SJ**

SUPERMAXX

SUPERMAXX JOIST



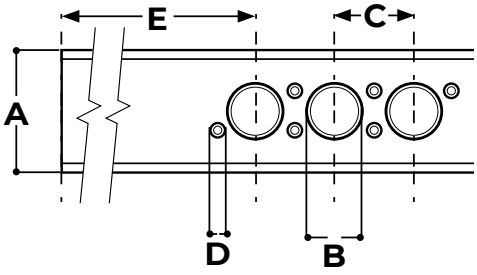
SUPERMAXX STUD



DOUBLE RETURN LIP

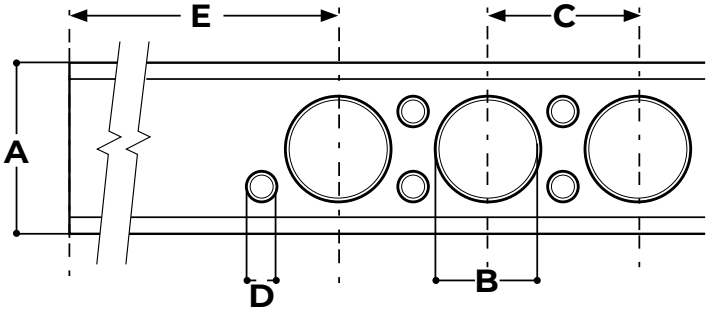
PRODUCT DESIGNATOR: **SMX**

SUPERMAXX STUD & JOIST SYSTEM
SUPER JOIST & SUPERMAXX JOIST HOLE SPACING

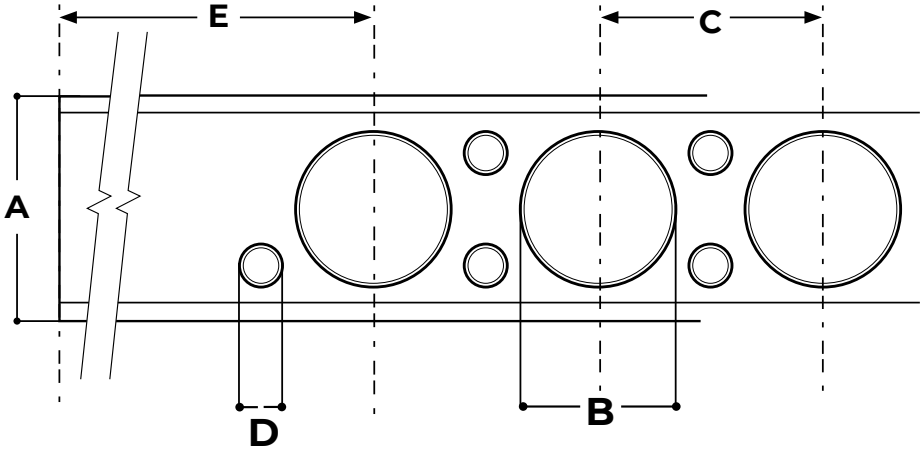


8” & 10”
WEB DEPTH

Note: **Both Super Joist & SuperMAXX Joist have identical punch patterns. The difference is the flange lip return.**



12” & 14”
WEB DEPTH



16” & 18”
WEB DEPTH

A	B	C	D	E
Section Web Depth	Large Hole Diameter	Large Hole Spacing (in. O.C.)	Small Hole Diameter	Min. Distance from end to center of First Large Hole
8”	4.25”	9”	1”	22”
10”	6.25”	12”	2.25”	22”
12”	8.25”	12”	2.25”	33”
14”	8.25”	12”	2.25”	33”
16”	12.25”	18”	3.25”	44”
18”	12.25”	18”	3.25”	44”

SUGGESTED DESIGN GUIDES
ALLOWABLE AXIAL LOAD CAPACITIES
BRACED STUDS SUBJECTED TO LATERAL LOAD
P_{ALLOW}, KIPS (1,000 LBS) PER STUD

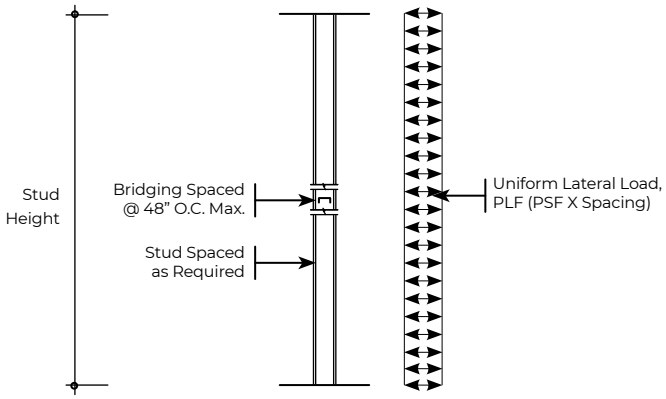
USE:

Tables allow for the selection of an axially loaded stud in the absence or presence of bending due to lateral load. The values assume the studs are typically bridged at intervals not to exceed 48" on center with alternative labor saving values published for 9 and 10 foot high walls where a single row of bridging at mid-height of the wall would suffice.

Select a stud, based on applied lateral load, spacing and height providing an allowable axial load in excess of the applied load.

NOTES:

1. The tabulated values represent the least allowable axial load of the stud in the presence of lateral load or in the absence of lateral load.
2. Values shown are limited to studs used in a simply supported application. Conditions involving cantilevers, concentrated loads, eccentricities, multiple spans, etc. should be investigated separately. The values assume the axial load is applied concentrically to the member.
3. Values are based on the installation of mechanical bridging spaced at intervals not to exceed 48" on center (columns denoted 48) with the exception of the columns entitled 9FT/MID and 10FT/MID where a single row of bridging may be installed at mid-height of the wall.
4. Stud ends shall be restrained against twisting (torsion) by means of a fixed attachment to each side of continuous track.



Deflections due to lateral load meet L/720 unless noted as follows:
a. values followed by the subscript 6 (x.xx6) meet L/600 deflection
b. values followed by the subscript 3 (x.xx3) meet L/360 deflection
c. values followed by the subscript 2 (x.xx2) meet L/240 deflection
d. values have been omitted where deflection exceeds L/240 deflection
Lateral load deflections were calculated without regard to the composite contribution of sheathing or finishes.

5. Contact Super Stud for axial load capacities of sections not shown herein.

Note: All tables based on Fy=50 KSI for 54, 68, and 97 mil material, Fy=33 KSI for 33 and 43 mil material.

SUGGESTED DESIGN GUIDES
ALLOWABLE AXIAL LOAD CAPACITIES
BRACED STUDS SUBJECTED TO LATERAL LOAD
KIPS (1,000 LBS) PER STUD

5 PSF

AISI Designation	Legacy Designation	BRIDGING SPACED 48" ON CENTER															
		8FT		9FT		10FT		11FT		12FT		14FT		16FT		18FT	
		16"	24"	16"	24"	16"	24"	16"	24"	16"	24"	16"	24"	16"	24"	16"	24"
350S137-33	3-1/2SSC20	1.85	1.85	1.79	1.72	1.72	1.49[c]	1.52	1.25[b]	1.30[c]	1.02[b]	0.90[b]	0.61[a]	0.59[a]			
350S162-33	3-1/2SSJ20	2.19	2.19	2.11	2.11	2.02	1.86	1.87	1.59[c]	1.61[c]	1.32[b]	1.14[b]	0.84[a]	0.78[a]			
350S137-43	3-1/2SSC18	2.49	2.49	2.42	2.42	2.32	2.19	2.19	1.88[c]	1.90	1.58[b]	1.37[b]	1.04[a]	0.94[a]			
350S162-43	3-1/2SSJ18	3.03	3.03	2.92	2.92	2.80	2.80	2.65	2.45	2.43	2.09[c]	1.78[b]	1.43[b]	1.26[b]	0.93[a]	0.88[a]	
350S137-54	3-1/2SSC16	3.67	3.67	3.45	3.45	3.20	3.20	2.94	2.94	2.69	2.56[c]	2.13[c]	1.83[b]	1.57[b]	1.28[a]	1.15[a]	
350S162-54	3-1/2SSJ16	4.60	4.60	4.27	4.27	3.93	3.93	3.57	3.57	3.23	3.23	2.64[c]	2.38[b]	2.01[b]	1.71[a]	1.51[a]	
350S137-68	3-1/2SSC14	4.41	4.41	4.13	4.13	3.83	3.83	3.52	3.52	3.21	3.19	2.64	2.32[b]	1.97[b]	1.65[a]	1.47[a]	
350S162-68	3-1/2SSJ14	5.61	5.61	5.19	5.19	4.74	4.74	4.30	4.30	3.90	3.90	3.18	3.04[b]	2.55[b]	2.23[b]	1.94[b]	1.64[a]
362S137-33	3-5/8SSC20	1.89	1.89	1.84	1.81	1.78	1.58	1.61	1.35[b]	1.40[c]	1.11[b]	0.99[b]	0.69[a]	0.66[a]			
362S162-33	3-5/8SSJ20	2.24	2.24	2.17	2.17	2.09	1.97	1.98	1.70[c]	1.73	1.43[b]	1.25	0.94[a]	0.87[a]			
362S137-43	3-5/8SSC18	2.56	2.56	2.49	2.49	2.40	2.32	2.30	2.02	2.05	1.72[b]	1.50[b]	1.16[a]	1.05[a]	0.72[a]		
362S162-43	3-5/8SSJ18	3.11	3.11	3.01	3.01	2.90	2.90	2.76	2.61	2.60	2.25[c]	1.94[c]	1.58[b]	1.40[b]	1.05[a]	0.99[a]	
362S200-43	3-5/8SJW18	3.74	3.74	3.62	3.62	3.47	3.47	3.31	3.30	3.12	2.89	2.48[c]	2.09[b]	1.82[b]	1.45[a]	1.33[a]	
362S137-54	3-5/8SSC16	3.84	3.84	3.63	3.63	3.40	3.40	3.16	3.16	2.91	2.81[c]	2.35[c]	2.03[b]	1.74[b]	1.43[a]	1.29[a]	
362S162-54	3-5/8SSJ16	4.81	4.81	4.51	4.51	4.17	4.17	3.83	3.83	3.50	3.50	2.87	2.62[b]	2.22[b]	1.90[a]	1.67[a]	
362S200-54	3-5/8SJW16	6.20	6.20	5.80	5.80	5.34	5.34	4.84	4.84	4.38	4.38	3.56	3.46[c]	2.88[c]	2.55[b]	2.20[b]	1.88[a]
362S137-68	3-5/8SSC14	4.68	4.68	4.41	4.41	4.10	4.10	3.79	3.79	3.47	3.47	2.88	2.56[b]	2.18[b]	1.84[a]	1.63[b]	1.31[a]
362S162-68	3-5/8SSJ14	5.97	5.97	5.57	5.57	5.11	5.11	4.65	4.65	4.22	4.22	3.46	3.35[c]	2.81[c]	2.47[b]	2.15[b]	1.82[a]
362S200-68	3-5/8SJW14	7.68	7.68	7.15	7.15	6.54	6.54	5.89	5.89	5.29	5.29	4.29	4.29	3.51	3.30[b]	2.83[b]	2.49[a]
362S200-97	3-5/8SJW12	9.81	9.81	9.13	9.13	8.34	8.34	7.53	7.53	6.79	6.79	5.52	5.52	4.51	4.51[c]	3.73[c]	3.50[b]
400S137-33	4SSC20	2.00	2.00	1.96	1.96	1.91	1.83	1.86	1.61	1.67	1.38[b]	1.26[b]	0.95[a]	0.89[a]	0.60[a]		
400S162-33	4SSJ20	2.36	2.36	2.31	2.31	2.25	2.25	2.18	2.01	2.05	1.75[c]	1.58[b]	1.25[b]	1.14[b]	0.81[a]	0.80[a]	
400S137-43	4SSC18	2.71	2.71	2.66	2.66	2.60	2.60	2.52	2.39	2.43	2.10[c]	1.90[c]	1.52[b]	1.39[b]	1.02[a]	0.99[a]	
400S162-43	4SSJ18	3.29	3.29	3.22	3.22	3.13	3.13	3.03	3.03	2.91	2.71	2.42	2.03[b]	1.82[b]	1.43[a]	1.33[b]	0.96[a]
400S200-43	4SJW18	3.96	3.96	3.86	3.86	3.75	3.75	3.62	3.62	3.47	3.42	3.05	2.64[c]	2.34[c]	1.92[b]	1.74[b]	1.34[a]
400S137-54	4SSC16	4.25	4.25	4.09	4.09	3.89	3.89	3.66	3.66	3.42	3.42	2.94	2.63[b]	2.30[b]	1.94[b]	1.74[b]	1.39[a]
400S162-54	4SSJ16	5.31	5.31	5.09	5.09	4.82	4.82	4.50	4.50	4.15	4.15	3.50	3.36[c]	2.88[c]	2.52[b]	2.22[b]	1.87[a]
400S200-54	4SJW16	6.80	6.80	6.49	6.49	6.13	6.13	5.70	5.70	5.22	5.22	4.33	4.33	3.60	3.32[b]	2.88[b]	2.51[a]
400S137-68	4SSC14	5.36	5.36	5.16	5.16	4.91	4.91	4.63	4.63	4.29	4.29	3.62	3.38[c]	2.88[c]	2.48[b]	2.19[b]	1.81[a]
400S162-68	4SSJ14	6.77	6.77	6.49	6.49	6.14	6.14	5.72	5.72	5.27	5.27	4.36	4.36	3.60	3.28[b]	2.84[b]	2.45 [b]
400S200-68	4SJW14	8.60	8.60	8.21	8.21	7.75	7.75	7.21	7.21	6.59	6.59	5.40	5.40	4.42	4.32[c]	3.66[c]	3.29[b]
400S200-97	4SJW12	11.37	11.37	10.81	10.81	10.14	10.14	9.37	9.37	8.51	8.51	6.96	6.96	5.71	5.71	4.73	4.60[b]
550S137-33	5-1/2SSC20	2.12	2.12	2.12	2.12	2.12	2.12	2.12	2.12	2.12	2.12	2.07	1.79	1.77	1.42[b]	1.43[b]	1.04[a]
550S162-33	5-1/2SSJ20	2.59	2.59	2.58	2.58	2.56	2.56	2.54	2.54	2.51	2.51	2.43	2.23	2.17	1.81[b]	1.79[b]	1.38[b]
550S137-43	5-1/2SSC18	2.87	2.87	2.87	2.87	2.87	2.87	2.87	2.87	2.87	2.87	2.84	2.69	2.63	2.22[c]	2.19[c]	1.73[b]
550S162-43	5-1/2SSJ18	3.67	3.67	3.64	3.64	3.61	3.61	3.57	3.57	3.53	3.53	3.40	3.40	3.22	2.87	2.77	2.30[b]
550S137-54	5-1/2SSC16	4.50	4.50	4.50	4.50	4.50	4.50	4.50	4.50	4.50	4.50	4.48	4.48	4.08	3.98	3.61	3.17[b]
550S162-54	5-1/2SSJ16	6.32	6.32	6.24	6.24	6.15	6.15	6.03	6.03	5.89	5.89	5.49	5.49	4.96	4.96	4.31	4.08[c]
550S137-68	5-1/2SSC14	5.32	5.32	5.32	5.32	5.32	5.32	5.32	5.32	5.32	5.32	5.32	5.32	5.25	5.25	4.66	4.24[c]
550S162-68	5-1/2SSJ14	8.07	8.07	8.07	8.07	7.97	7.97	7.82	7.82	7.63	7.63	7.13	7.13	6.44	6.44	5.61	5.52
600S137-33	6SSC20	2.10	2.10	2.10	2.10	2.10	2.10	2.10	2.10	2.10	2.10	2.10	1.95	1.98	1.65[c]	1.67[c]	1.29[b]
600S162-33	6SSJ20	2.61	2.61	2.61	2.61	2.61	2.61	2.59	2.59	2.57	2.57	2.51	2.45	2.42	2.07[c]	2.06	1.66[b]
600S137-43	6SSC18	2.85	2.85	2.85	2.85	2.85	2.85	2.85	2.85	2.85	2.85	2.85	2.85	2.85	2.52	2.52	2.07[b]
600S162-43	6SSJ18	3.69	3.69	3.69	3.69	3.69	3.69	3.66	3.66	3.62	3.62	3.53	3.53	3.39	3.23	3.16	2.70[c]
600S200-43	62JW18	4.48	4.48	4.45	4.45	4.42	4.42	4.39	4.39	4.34	4.34	4.20	4.20	4.02	4.02	3.80	3.43
600S137-54	6SSC16	4.42	4.42	4.42	4.42	4.42	4.42	4.42	4.42	4.42	4.42	4.42	4.42	4.42	4.42	4.07	3.80[c]
600S162-54	6SSJ16	6.31	6.31	6.31	6.31	6.31	6.31	6.27	6.27	6.16	6.16	5.87	5.87	5.45	5.45	4.91	4.89
600S200-54	6SJW16	8.28	8.28	8.18	8.18	8.07	8.07	7.92	7.92	7.75	7.75	7.31	7.31	6.75	6.75	6.07	6.07
600S137-68	6SSC14	5.23	5.23	5.23	5.23	5.23	5.23	5.23	5.23	5.23	5.23	5.23	5.23	5.23	5.23	5.23	5.05
600S162-68	6SSJ14	8.05	8.05	8.05	8.05	8.05	8.05	8.05	8.05	8.01	8.01	7.64	7.64	7.10	7.10	6.40	6.40
600S200-68	6SJW14	10.69	10.69	10.57	10.57	10.42	10.42	10.24	10.24	10.03	10.03	9.47	9.47	8.75	8.75	7.87	7.87
600S200-97	6SJW12	15.49	15.49	15.34	16.34	15.14	15.14	14.90	14.90	14.60	14.60	13.81	13.81	12.76	12.76	11.47	11.47
800S162-43	8SSJ18	3.62	3.62	3.62	3.62	3.62	3.62	3.62	3.62	3.62	3.62	3.62	3.62	3.62	3.62	3.62	3.62
800S200-43	8SJW18	4.56	4.56	4.56	4.56	4.56	4.56	4.56	4.56	4.56	4.56	4.52	4.52	4.45	4.45	4.35	4.35
800S162-54	8SSJ16	6.10	6.10	6.10	6.10	6.10	6.10	6.10	6.10	6.10	6.10	6.10	6.10	6.10	6.10	6.10	6.10
800S200-54	8SJW16	8.49	8.49	8.49	8.49	8.49	8.49	8.49	8.49	8.49	8.49	8.33	8.33	8.08	8.08	7.73	7.73
800S162-68	8SSJ14	7.76	7.76	7.76	7.76	7.76	7.76	7.76	7.76	7.76	7.76	7.76	7.76	7.76	7.76	7.76	7.76
800S200-68	8SJW14	10.95	10.95	10.95	10.95	10.95	10.95	10.95	10.95	10.95	10.95	10.81	10.81	10.48	10.48	10.05	10.05
800S162-97	8SSJ12	10.15	10.15	10.15	10.15	10.15	10.15	10.15	10.15	10.15	10.15	10.15	10.15	10.15	10.15	10.15	10.15
800S200-97	8SJW12	15.63	15.63	15.63	15.63	15.63	15.63	15.63	15.63	15.63	15.63	15.63	15.63	15.41	15.41	14.80	14.80

AISI Designation	Legacy Designation	BRIDGING AT MID-HEIGHT			
		9FT		10FT	
		16"	24"	16"	24"
350S137-33	3-1/2SSC20	1.61	1.54	1.36	1.15[c]
350S162-33	3-1/2SSJ20	1.94	1.94	1.66	1.53
350S137-43	3-1/2SSC18	2.19	2.19	1.86	1.73
350S162-43	3-1/2SSJ18	2.70	2.70	2.34	2.34
350S137-54	3-1/2SSC16	2.98	2.98	2.48	2.48
350S162-54	3-1/2SSJ16	3.74	3.74	3.08	3.08
350S137-68	3-1/2SSC14	3.63	3.63	3.07	3.07
350S162-68	3-1/2SSJ14	4.56	4.56	3.79	3.79
362S137-33	3-5/8SSC20	1.67	1.62	1.42	1.23
362S162-33	3-5/8SSJ20	2.00	2.00	1.74	1.63
362S137-43	3-5/8SSC18	2.26	2.26	1.94	1.84
362S162-43	3-5/8SSJ18	2.80	2.80	2.45	2.45
362S200-43	3-5/8SJW18	3.40	3.40	3.02	3.02
362S137-54	3-5/8SSC16	3.17	3.17	2.64	2.64
362S162-54	3-5/8SSJ16	3.96	3.96	3.30	3.30
362S200-54	3-5/8SJW16	5.21	5.21	4.32	4.32
362S137-68	3-5/8SSC14	3.85	3.85	3.25	3.25
362S162-68	3-5/8SSJ14	4.87	4.87	4.05	4.05
362S200-68	3-5/8SJW14	6.37	6.37	5.22	5.22
362S200-97	3-5/8SJW12	8.20	8.20	6.85	6.85
400S137-33	4SSC20	1.80	1.80	1.57	1.46
400S162-33	4SSJ20	2.16	2.16	1.93	1.91
400S137-43	4SSC18	2.45	2.45	2.15	2.15
400S162-43	4SSJ18	3.02	3.02	2.72	2.72
400S200-43	4SJW18	3.67	3.67	3.34	3.34
400S137-54	4SSC16	3.55	3.55	3.00	3.00
400S162-54	4SSJ16	4.53	4.53	3.80	3.80
400S200-54	4SJW16	5.95	5.95	5.02	5.02
400S137-68	4SSC14	4.40	4.40	3.56	3.56
400S162-68	4SSJ14	5.80	5.80	4.35	4.85
400S200-68	4SJW14	7.52	7.52	6.35	6.35
400S200-97	4SJW12	8.86	9.86	8.31	8.31
550S137-33	5-1/2SSC20	1.93	1.93	1.71	1.71
550S162-33	5-1/2SSJ20	2.47	2.47	2.30	2.30
550S137-43	5-1/2SSC18	2.60	2.60	2.29	2.29
550S162-43	5-1/2SSJ18	3.47	3.47	3.24	3.24
550S137-54	5-1/2SSC16	3.73	3.73	3.12	3.12
550S162-54	5-1/2SSJ16	5.75	5.75	5.08	5.08
550S137-68	5-1/2SSC14	4.38	4.38	3.67	3.67
550S162-68	5-1/2SSJ14	7.25	7.25	6.32	6.32
600S137-33	6SSC20	1.91	1.91	1.68	1.68
600S162-33	6SSJ20	2.49	2.49	2.32	2.32
600S137-43	6SSC18	2.57	2.57	2.25	2.25
600S162-43	6SSJ18	3.48	3.48	3.25	3.25
600S200-43	62JW18	4.32	4.32	4.12	4.12
600S137-54	6SSC16	3.65	3.65	3.07	3.07
600S162-54	6SSJ16	5.71	5.71	5.02	5.02
600S200-54	6SJW16	7.77	7.77	7.21	7.21
600S137-68	6SSC14	4.31	4.31	3.63	3.63
600S162-68	6SSJ14	7.20	7.20	6.24	6.24
600S200-68	6SJW14	10.03	10.03	9.31	9.31
600S200-97	6SJW12	14.53	14.53	13.49	13.49
800S162-43	8SSJ18	3.40	3.40	3.14	3.14
800S200-43	8SJW18	4.42	4.42	4.24	4.24
800S162-54	8SSJ16	5.42	5.42	4.65	4.65
800S200-54	8SJW16	8.03	8.03	7.51	7.51
800S162-68	8SSJ14	6.81	6.81	5.77	5.77
800S200-68	8SJW14	10.31	10.31	9.60	9.60
800S162-97	8SSJ12	8.44	8.44	7.11	7.11
800S200-97	8SJW12	14.54	14.54	13.31	13.31

Superscripts:
a meets L/240 deflection
b meets L/360 deflection
c meets L/600 deflection
No superscript: meets L/720 deflection

Flange Width: SSC=1 3/8", SSJ=1-5/8", SJW=2" and SSW=2-1/2"

See page 32 for additional table notes.

SUGGESTED DESIGN GUIDES
ALLOWABLE AXIAL LOAD CAPACITIES
BRACED STUDS SUBJECTED TO LATERAL LOAD
KIPS (1,000 LBS) PER STUD

20 PSF

AISI Designation	Legacy Designation	BRIDGING SPACED 48" ON CENTER															
		8FT		9FT		10FT		11FT		12FT		14FT		16FT		18FT	
		16"	24"	16"	24"	16"	24"	16"	24"	16"	24"	16"	24"	16"	24"	16"	24"
350S137-33	3-1/2SSC20	1.18[b]	0.65[a]	0.84[b]	0.25[a]	0.51[a]											
350S162-33	3-1/2SSJ20	1.58[b]	1.03[b]	1.20[b]	0.57[a]	0.83[a]											
350S137-43	3-1/2SSC18	1.90[c]	1.31[b]	1.48[b]	0.81[a]	1.07[a]	0.69[a]										
350S162-43	3-1/2SSJ18	2.59	1.97[b]	2.11[b]	1.40[a]	1.64[b]	0.88[a]	1.19[a]									
350S137-54	3-1/2SSC16	3.54	2.96[b]	2.96[b]	2.31[b]	2.39[b]	1.70[a]	1.88[a]	1.42[a]								
350S162-54	3-1/2SSJ16	4.60	4.13[c]	4.01[c]	3.33[b]	3.31[b]	2.58[a]	2.66[b]	1.92[a]	2.10[a]							
350S137-68	3-1/2SSC14	4.41	3.83[c]	3.77[c]	3.06[b]	3.11[b]	2.35[a]	2.49[b]	1.71[a]	1.95[a]							
350S162-68	3-1/2SSJ14	5.61	5.39	5.16	4.43[b]	4.31[b]	3.53[b]	3.54[b]	2.74[a]	2.86[a]							
362S137-33	3-5/8SSC20	1.27[b]	0.75[b]	0.93[b]	0.34[a]	0.60[a]											
362S162-33	3-5/8SSJ20	1.69[c]	1.14[b]	1.31[b]	0.68[a]	0.93[a]	0.59[a]										
362S137-43	3-5/8SSC18	2.03[c]	1.43[b]	1.61[b]	.93[a]	1.20[b]	0.46[a]	0.81[a]									
362S162-43	3-5/8SSJ18	2.73	2.12[b]	2.26[b]	1.56[b]	1.79[b]	1.02[a]	1.34[a]	0.93[a]								
362S200-43	3-5/8SJW18	3.54	2.90[c]	3.02[c]	2.28[b]	2.48[b]	1.67[a]	1.96[b]	1.10[a]	1.48[a]							
362S137-54	3-5/8SSC16	3.78	3.19[b]	3.20[c]	2.53[b]	2.63[b]	1.91[a]	2.10[a]	1.62[a]								
362S162-54	3-5/8SSJ16	4.81	4.42[c]	4.32[c]	3.62[b]	3.60[b]	2.85[a]	2.94[b]	2.17[a]	2.35[a]							
362S200-54	3-5/8SJW16	6.20	6.12	5.80	5.14[b]	4.98[c]	4.16[b]	4.11[b]	3.27[a]	3.35[a]							
362S137-68	3-5/8SSC14	4.68	4.16[c]	4.11	3.38[b]	3.42[b]	2.63[a]	2.77[b]	1.96[a]	2.19[a]							
362S162-68	3-5/8SSJ14	5.97	5.83	5.57	4.86[b]	4.73[c]	3.92[b]	3.91[b]	3.07[a]	3.19[b]	2.35[a]						
362S200-68	3-5/8SJW14	7.68	7.68	7.15	6.83[c]	6.51	5.64[b]	5.43[b]	4.54[b]	4.49[b]	3.60[a]	3.02[a]					
362S200-97	3-5/8SJW12	9.81	9.81	9.13	9.13	8.34	7.95[c]	7.53	6.58[b]	6.37[b]	5.38[b]	4.47[a]	3.10[a]				
400S137-33	4SSC20	1.52[c]	1.01[b]	1.19[b]	0.60[a]	0.86[b]	0.21[a]	0.54[a]									
400S162-33	4SSJ20	1.97	1.44[b]	1.61[b]	0.99[b]	1.24[b]	0.56[a]	0.88[a]									
400S137-43	4SSC18	2.35	1.78[c]	1.96[c]	1.29[b]	1.56[b]	0.81[a]	1.16[a]	0.78[a]								
400S162-43	4SSJ18	3.10	2.52[c]	2.67	1.98[b]	2.22[b]	1.44[a]	1.77[b]	0.93[a]	1.33[a]							
400S200-43	4SJW18	3.96	3.37	3.49	2.77[b]	2.98[c]	2.17[b]	2.47[b]	1.58[a]	1.97[a]							
400S137-54	4SSC16	4.25	3.82	3.86	3.18[b]	3.28[b]	2.53[b]	2.71[b]	1.91[a]	2.18[a]							
400S162-54	4SSJ16	5.31	5.19	5.09	4.44[c]	4.46[c]	3.67[b]	3.75[b]	2.91[a]	3.09[b]	2.23[a]						
400S200-54	4SJW16	6.80	6.80	6.49	6.15[c]	6.05	5.20[b]	5.18[b]	4.27[b]	4.33[b]	3.40[a]	2.92[a]					
400S137-68	4SSC14	5.36	5.07	5.08	4.31[c]	4.38[c]	3.52[b]	3.68[b]	2.76[a]	3.01[b]	2.07[a]	1.87[a]					
400S162-68	4SSJ14	6.77	6.77	6.49	6.05	5.99	5.10[b]	5.11[b]	4.17[b]	4.27[b]	3.31[a]	2.85[a]					
400S200-68	4SJW14	8.60	8.60	8.21	8.21	7.75	7.12[c]	6.98[c]	5.97[b]	5.91[b]	4.88[b]	4.09[a]					
400S200-97	4SJW12	11.37	11.37	10.81	10.81	10.14	10.12	9.37	8.63[c]	8.32[c]	7.19[b]	5.96[b]	4.85[a]	4.23[a]			
550S137-33	5-1/2SSC20	2.07	1.71	1.86	1.41[c]	1.63	1.08[b]	1.37[b]	0.74[b]	1.10[b]	0.39[a]	0.54[a]					
550S162-33	5-1/2SSJ20	2.59	2.27	2.42	1.93	2.15	1.57[b]	1.86[c]	1.19[b]	1.55[b]	0.80[a]	0.92[a]					
550S137-43	5-1/2SSC18	2.87	2.61	2.77	2.28	2.51	1.91[c]	2.22	1.52[b]	1.91[b]	1.11[b]	1.25[a]	0.59[a]				
550S162-43	5-1/2SSJ18	3.67	3.60	3.64	3.21	3.43	2.79	3.08	2.33[b]	2.71[c]	1.86[b]	1.93[b]	0.94[a]	1.18			
550S137-54	5-1/2SSC16	4.50	4.50	4.50	4.48	4.50	4.09	4.38	3.66[c]	4.04[c]	3.20[b]	3.25[b]	2.22[a]	2.28[a]			
550S162-54	5-1/2SSJ16	6.32	6.32	6.24	6.24	6.15	6.05	6.03	5.44[c]	5.70	4.79[b]	4.52[b]	3.45[a]	3.34[a]			
550S137-68	5-1/2SSC14	5.32	5.32	5.32	5.32	5.32	5.13	5.32	4.67	5.06	4.17[b]	4.22[b]	3.11[a]	3.27[a]	2.21[a]		
550S162-68	5-1/2SSJ14	8.07	8.07	8.07	8.07	7.97	7.97	7.82	7.51	7.63	6.72[c]	6.30[c]	5.07[b]	4.80[b]	3.51[a]	3.46[a]	
600S137-33	6SSC20	2.10	1.83	1.96	1.56	1.76	1.27[c]	1.53[c]	0.96[b]	1.29[b]	0.64[b]	0.78[a]					
600S162-33	6SSJ20	2.61	2.43	2.58	2.14	2.34	1.82[c]	2.08	1.46[b]	1.80[c]	1.10[b]	1.21[b]	0.36[a]	0.62[a]			
600S137-43	6SSC18	2.85	2.74	2.85	2.45	2.66	2.13	2.41	1.78[c]	2.14[c]	1.40[b]	1.54[b]	0.63[a]	0.92[a]			
600S162-43	6SSJ18	3.69	3.69	3.69	3.46	3.68	3.10	3.37	2.69[c]	3.04	2.25[b]	2.32[b]	1.35[a]	1.58[a]			
600S200-43	62JW18	4.48	4.48	4.45	4.44	4.42	4.04	4.31	3.60	3.95	3.12[c]	3.14[b]	2.13[b]	2.31[b]	1.17[a]	1.53[a]	
600S137-54	6SSC16	4.42	4.42	4.42	4.42	4.42	4.28	4.42	3.91	4.25	3.51[b]	3.58[b]	2.63[b]	2.84[b]	1.73[a]	1.97[a]	
600S162-54	6SSJ16	6.31	6.31	6.31	6.31	6.31	6.31	6.27	6.01	6.16	5.43[c]	5.22[c]	4.17[b]	4.09[b]	2.92[a]	3.00[a]	
600S200-54	6SJW16	8.28	8.28	8.18	8.18	8.07	8.07	7.92	7.92	7.75	7.42	7.03	5.92[b]	5.65[b]	4.42[a]	4.33[a]	
600S137-68	6SSC14	5.23	5.23	5.23	5.23	5.23	5.23	5.23	4.91	5.23	4.49[c]	4.55[c]	3.54[b]	3.75[b]	2.55[a]	2.91[a]	
600S162-68	6SSJ14	8.05	8.05	8.05	8.05	8.05	8.05	8.05	8.05	8.01	7.54	7.22	6.02[b]	5.80[b]	4.46[a]	4.41[a]	
600S200-68	6SJW14	10.69	10.69	10.57	10.57	10.42	10.42	10.24	10.24	10.03	10.03	9.47	8.37[b]	7.90[b]	6.50[b]	6.21[b]	4.77[a]
600S200-97	6SJW12	15.49	15.49	15.34	15.34	15.14	15.14	14.90	14.90	14.60	14.60	13.81	13.20	12.30	10.57[b]	9.87[b]	8.08[b]
800S162-43	8SSJ18	3.62	3.62	3.62	3.62	3.62	3.62	3.62	3.42	3.62	3.14	3.25	2.51[c]	2.74[c]	1.82[b]	2.18[b]	1.09[a]
800S200-43	8SJW18	4.56	4.56	4.56	4.56	4.56	4.56	4.56	4.56	4.56	4.25	4.32	3.53	3.71	2.73[b]	3.04[b]	1.88[a]
800S162-54	8SSJ16	6.10	6.10	6.10	6.10	6.10	6.10	6.10	6.10	6.10	6.10	6.10	5.74	5.93	4.95[b]	5.26[b]	4.07[b]
800S200-54	8SJW16	8.49	8.49	8.49	8.49	8.49	8.49	8.49	8.49	8.49	8.49	8.33	8.33	8.08	7.23[c]	7.25[c]	5.97[b]
800S162-68	8SSJ14	7.76	7.76	7.76	7.76	7.76	7.76	7.76	7.76	7.76	7.76	7.76	7.76	7.76	6.88[c]	7.20[c]	5.88[b]
800S200-68	8SJW14	10.95	10.95	10.95	10.95	10.95	10.95	10.95	10.95	10.95	10.95	10.81	10.81	10.48	10.10	10.01	8.59[b]
800S162-97	8SSJ12	10.15	10.15	10.15	10.15	10.15	10.15	10.15	10.15	10.15	10.15	10.15	10.15	10.15	9.78	10.11	8.64[c]
800S200-97	8SJW12	15.63	15.63	15.63	15.63	15.63	15.63	15.63	15.63	15.63	15.63	15.63	15.63	15.41	15.41	14.80	13.86

AISI Designation	Legacy Designation	BRIDGING AT MID-HEIGHT			
		9FT		10FT	
		16"	24"	16"	24"
350S137-33	3-1/2SSC20	0.71[b]	0.15[a]	0.30[a]	
350S162-33	3-1/2SSJ20	1.08[b]	0.49[a]	0.63[a]	
350S137-43	3-1/2SSC18	1.30[b]	0.65[a]	0.75[a]	
350S162-43	3-1/2SSJ18	1.93[b]	1.26[a]	1.32[a]	0.63[a]
350S137-54	3-1/2SSC16	2.52[b]	1.91[b]	1.72[b]	1.10[a]
350S162-54	3-1/2SSJ16	3.51[c]	2.89[b]	2.56[b]	1.94[a]
350S137-68	3-1/2SSC14	3.26[c]	2.60[b]	2.33[b]	1.63[a]
350S162-68	3-1/2SSJ14	4.53	3.87[b]	3.41[b]	2.74[b]
362S137-33	3-5/8SSC20	0.80[b]	0.23[a]	0.37[a]	
362S162-33	3-5/8SSJ20	1.18[b]	0.59[a]	0.73[a]	
362S137-43	3-5/8SSC18	1.42[b]	0.77[a]	0.86[b]	0.19[a]
362S162-43	3-5/8SSJ18	2.08[b]	1.40[b]	1.46[b]	0.76[a]
362S200-43	3-5/8SJW18	2.83[c]	2.12[b]	2.15[b]	1.41[a]
362S137-54	3-5/8SSC16	2.74[c]	2.12[b]	1.90[b]	1.25[a]
362S162-54	3-5/8SSJ16	3.79[c]	3.16[b]	2.81[b]	2.17[a]
362S200-54	3-5/8SJW16	5.21	4.64[b]	4.09[c]	3.40[b]
362S137-68	3-5/8SSC14	3.53	2.85[b]	2.55[b]	1.83[a]
362S162-68	3-5/8SSJ14	4.87	4.24[b]	3.72[c]	3.03[b]
362S200-68	3-5/8SJW14	6.37	6.12[c]	5.22	4.56
362S200-97	3-5/8SJW12	8.20	8.20	6.85	6.57[c]
400S137-33	4SSC20	1.04[b]	0.48[a]	0.59[b]	
400S162-33	4SSJ20	1.48[b]	0.89[b]	1.00[b]	0.38[a]
400S137-43	4SSC18	1.75[c]	1.11[b]	1.17[b]	0.48[a]
400S162-43	4SSJ18	2.48	1.81[b]	1.86[b]	1.14[a]
400S200-43	4SJW18	3.30	2.61[b]	2.64[c]	1.89[b]
400S137-54	4SSC16	3.28	2.66[b]	2.38[b]	1.70[b]
400S162-54	4SSJ16	4.53	3.91[c]	3.47[c]	2.79[b]
400S200-54	4SJW16	5.95	5.65[c]	5.01	4.29[b]
400S137-68	4SSC14	4.27	3.57[c]	3.03[c]	2.31[b]
400S162-68	4SSJ14	5.80	5.37	4.70	3.94[b]
400S200-68	4SJW14	7.52	7.52	6.35	5.87[c]
400S200-97	4SJW12	9.86	9.86	8.31	8.31
550S137-33	5-1/2SSC20	1.65	1.22[c]	1.22	0.73[b]
550S162-33	5-1/2SSJ20	2.28	1.81	1.86	1.31[b]
550S137-43	5-1/2SSC18	2.47	2.00	1.90	1.37[c]
550S162-43	5-1/2SSJ18	3.47	3.01	3.00	2.39
550S137-54	5-1/2SSC16	3.73	3.63	3.11	2.62
550S162-54	5-1/2SSJ16	5.75	5.75	5.08	4.85
550S137-68	5-1/2SSC14	4.38	4.38	3.67	3.28
550S162-68	5-1/2SSJ14	7.25	7.25	6.32	6.32
600S137-33	6SSC20	1.74	1.36	1.32	0.88[c]
600S162-33	6SSJ20	2.43	2.00	2.03	1.53[c]
600S137-43	6SSC18	2.57	2.15	2.01	1.54
600S162-43	6SSJ18	3.48	3.23	3.18	2.63
600S200-43	62JW18	4.32	4.29	4.12	3.71
600S137-54	6SSC16	3.65	3.65	3.07	2.75
600S162-54	6SSJ16	5.71	5.71	5.02	5.02
600S200-54	6SJW16	7.77	7.77	7.21	7.21
600S137-68	6SSC14	4.31	4.31	3.63	3.42
600S162-68	6SSJ14	7.20	7.20	6.24	6.24
600S200-68	6SJW14	10.03	10.03	9.31	9.31
600S200-97	6SJW12	14.53	14.53	13.49	13.49
800S162-43	8SSJ18	3.40	3.40	3.14	3.10
800S200-43	8SJW18	4.42	4.42	4.24	4.24
800S162-54	8SSJ16	5.42	5.42	4.65	4.65
800S200-54	8SJW16	8.03	8.03	7.51	7.51
800S162-68	8SSJ14	6.81	6.81	5.77	5.77
800S200-68	8SJW14	10.31	10.31	9.60	9.60
800S162-97	8SSJ12	8.44	8.44	7.11	7.11
800S200-97	8SJW12	14.54	14.54	13.31	13.31

Flange Width: SSC=1 3/8", SSJ=1-5/8", SJW=2" and SSW=2-1/2"

See page 32 for additional table notes.

Superscripts:
a meets L/240 deflection
b meets L/360 deflection
c meets L/600 deflection
No superscript: meets L/720 deflection

SUGGESTED DESIGN GUIDES
ALLOWABLE AXIAL LOAD CAPACITIES
BRACED STUDS SUBJECTED TO LATERAL LOAD
KIPS (1,000 LBS) PER STUD

25 PSF

AISI Designation	Legacy Designation	BRIDGING SPACED 48" ON CENTER															
		8FT		9FT		10FT		11FT		12FT		14FT		16FT		18FT	
		16"	24"	16"	24"	16"	24"	16"	24"	16"	24"	16"	24"	16"	24"	16"	24"
350S137-33	3-1/2SSC20	0.91[b]	0.29[a]	0.53[a]													
350S162-33	3-1/2SSJ20	1.30[b]	0.64[a]	0.88[a]	0.48[a]												
350S137-43	3-1/2SSC18	1.60[b]	0.89[a]	1.13[b]	0.35[a]	0.69[a]											
350S162-43	3-1/2SSJ18	2.27[c]	1.53[b]	1.75[b]	0.92[a]	1.24[a]											
350S137-54	3-1/2SSC16	3.24[c]	2.55[b]	2.63[b]	1.86[a]	2.03[a]	1.50[a]										
350S162-54	3-1/2SSJ16	4.42	3.70[b]	3.66[b]	2.86[a]	2.93[b]	2.09[a]	2.27[a]									
350S137-68	3-1/2SSC14	4.13	3.39[b]	3.41[b]	2.58[b]	2.72[b]	1.84[a]	2.09[a]									
350S162-68	3-1/2SSJ14	5.61	4.93[c]	4.78[c]	3.93[b]	3.91[b]	3.00[a]	3.12[a]	2.45[a]								
362S137-33	3-5/8SSC20	1.00[b]	0.38[a]	0.62[a]													
362S162-33	3-5/8SSJ20	1.41[b]	0.75[a]	0.99[a]	0.58[a]												
362S137-43	3-5/8SSC18	1.72[b]	1.02[b]	1.26[b]	0.47[a]	0.82[a]											
362S162-43	3-5/8SSJ18	2.42[c]	1.69[b]	1.90[b]	1.07[a]	1.39[a]	0.92[a]										
362S200-43	3-5/8SJW18	3.21	2.45[b]	2.64[b]	1.77[b]	2.06[b]	1.11[a]	1.51[a]									
362S137-54	3-5/8SSC16	3.48[c]	2.78[b]	2.86[b]	2.07[a]	2.26[b]	1.42[a]	1.71[a]									
362S162-54	3-5/8SSJ16	4.72	3.99[b]	3.96[b]	3.14[b]	3.21[b]	2.35[a]	2.54[a]	1.95[a]								
362S200-54	3-5/8SJW16	6.20	5.65[c]	5.51[c]	4.61[b]	4.56[b]	3.61[a]	3.68[b]	2.71[a]	2.92[a]							
362S137-68	3-5/8SSC14	4.47	3.71[b]	3.73[b]	2.88[b]	3.01[b]	2.10[a]	2.35[a]	1.77[a]								
362S162-68	3-5/8SSJ14	5.97	5.37[c]	5.23[c]	4.34[b]	4.31[b]	3.37[a]	3.48[b]	2.51[a]	2.75[a]							
362S200-68	3-5/8SJW14	7.68	7.53	7.15	6.28[b]	6.6[c]	5.05[b]	4.97[b]	3.94[a]	4.03[a]							
362S200-97	3-5/8SJW12	9.81	9.81	9.13	8.84	8.34	7.32[b]	7.05[b]	5.92[b]	5.86[b]	4.73[a]	3.97[a]					
400S137-33	4SSC20	1.26[b]	0.66[b]	0.89[b]	0.20[a]	0.52[a]											
400S162-33	4SSJ20	1.70[c]	1.07[b]	1.29[b]	0.57[a]	0.89[a]	0.50[a]										
400S137-43	4SSC18	2.06	1.38[b]	1.62[b]	.83[a]	1.17[b]	.30[a]	0.74[a]									
400S162-43	4SSJ18	2.81	2.11[b]	2.32[b]	1.51[b]	1.82[b]	.92[a]	1.33[a]	0.88[a]								
400S200-43	4SJW18	3.66	2.94[c]	3.12[c]	2.27[b]	2.56[b]	1.61[a]	2.01[b]	0.99[a]	1.49[a]							
400S137-54	4SSC16	4.10	3.41[b]	3.51[c]	2.70[b]	2.89[b]	2.01[a]	2.30[a]	1.75[a]								
400S162-54	4SSJ16	5.31	4.77[c]	4.78	3.95[b]	4.05[b]	3.12[a]	3.32[b]	2.35[a]	2.64[a]							
400S200-54	4SJW16	6.80	6.61	6.49	5.62[b]	5.61[c]	4.61[b]	4.71[b]	3.65[a]	3.85[a]							
400S137-68	4SSC14	5.36	4.61[c]	4.69	3.77[b]	3.94[b]	2.93[b]	3.21[b]	2.15[a]	2.52[a]							
400S162-68	4SSJ14	6.77	6.49	6.44	5.50[b]	5.54[c]	4.50[b]	4.62[b]	3.53[a]	3.77[b]	2.66[a]						
400S200-68	4SJW14	8.60	8.60	8.21	7.70[c]	7.58	6.48[b]	6.46[b]	5.30[b]	5.38[b]	4.20[a]	3.57[a]					
400S200-97	4SJW12	11.37	11.37	10.81	10.81	10.14	9.42[c]	9.16	7.88[b]	7.73[b]	6.43[b]	5.38[b]	4.11[a]	3.68[a]			
550S137-33	5-1/2SSC20	1.89	1.44	1.63	1.08[b]	1.35[c]	0.69[b]	1.05[b]	0.30[a]	0.74[a]							
550S162-33	5-1/2SSJ20	2.46	1.99	2.17	1.59[c]	1.85[c]	1.16[b]	1.52[b]	0.72[a]	1.16[b]	0.28[a]	0.47[a]					
550S137-43	5-1/2SSC18	2.81	2.32	2.52	1.92	2.21	1.48[b]	1.86[b]	1.02[b]	1.50[b]	0.55[a]	0.76[a]					
550S162-43	5-1/2SSJ18	3.67	3.29	3.47	2.83	3.10	2.33[b]	2.70[c]	1.80[b]	2.28[b]	1.27[a]	1.42[a]					
550S137-54	5-1/2SSC16	4.50	4.50	4.50	4.13	4.39	3.66[c]	4.02	3.15[b]	3.61[b]	2.62[b]	2.72[a]					
550S162-54	5-1/2SSJ16	6.32	6.32	6.24	6.19	6.15	5.56	5.83	4.87[b]	5.23[c]	4.15[b]	3.97[b]	2.73[a]	2.76[a]			
550S137-68	5-1/2SSC14	5.32	5.32	5.32	5.16	5.32	4.67	5.04	4.13[b]	4.61[c]	3.55[b]	3.65[b]	2.35[a]	2.62[a]			
550S162-68	5-1/2SSJ14	8.07	8.07	8.07	8.07	7.97	7.68	7.82	6.87[c]	7.23	6.00[b]	5.66[b]	4.25[a]	4.13[a]			
600S137-33	6SSC20	1.99	1.59	1.76	1.27[c]	1.51	0.92[b]	1.24[b]	0.55[b]	0.96[b]	0.18[a]	0.37[a]					
600S162-33	6SSJ20	2.60	2.18	2.36	1.83	2.08	1.44[b]	1.77[c]	1.02[b]	1.44[b]	0.60[a]	0.77[a]					
600S137-43	6SSC18	2.85	2.49	2.67	2.13	2.39	1.74[c]	2.09	1.32[b]	1.76[b]	0.89[b]	1.07[a]					
600S162-43	6SSJ18	3.69	3.50	3.69	3.11	3.39	2.68	3.03	2.19[b]	2.64[c]	1.69[b]	1.82[b]	0.68[a]	1.02[a]			
600S200-43	62JW18	4.48	4.48	4.45	4.08	4.34	3.61	3.95	3.09[c]	3.53	2.54[b]	2.62[b]	1.43[a]	1.72[a]			
600S137-54	6SSC16	4.42	4.42	4.42	4.30	4.42	3.90	4.22	3.45[c]	3.87[c]	2.98[b]	3.09[b]	1.98[a]	2.27[a]			
600S162-54	6SSJ16	6.31	6.31	6.31	6.31	6.31	6.06	6.27	5.48[c]	5.85	4.82[b]	4.68[b]	3.45[a]	3.49[a]			
600S200-54	6SJW16	8.28	8.28	8.18	8.18	8.07	8.07	7.92	7.56	7.75	6.78[c]	6.46[b]	5.15[b]	5.01[b]	3.59[a]	3.67[a]	
600S137-68	6SSC14	5.23	5.23	5.23	5.23	5.23	4.90	5.23	4.44	4.87	3.93[b]	4.04[b]	2.84[a]	3.13[a]	2.22[a]		
600S162-68	6SSJ14	8.05	8.05	8.05	8.05	8.05	8.05	8.05	7.56	8.01	6.86[c]	6.60[c]	5.19[b]	5.10[b]	3.56[a]	3.70[a]	
600S200-68	6SJW14	10.69	10.60	10.57	10.57	10.42	10.42	10.24	10.24	10.03	9.48	8.97[c]	7.51[b]	7.17[b]	5.56[a]	5.46[a]	
600S200-97	6SJW12	15.49	15.49	15.34	15.34	15.14	15.14	14.90	14.90	14.60	14.60	13.81	12.15[c]	11.40[c]	9.41[b]	8.94[b]	6.91[a]
800S162-43	8SSJ18	3.62	3.62	3.62	3.62	3.62	3.39	3.62	3.08	3.41	2.74	2.88	1.98[b]	2.27[b]	1.16[a]	1.62[b]	0.33[a]
800S200-43	8SJW18	4.56	4.56	4.56	4.56	4.56	4.53	4.56	4.19	4.55	3.82	3.92	2.96[c]	3.21[c]	2.03[b]	2.45[b]	1.08[a]
800S162-54	8SSJ16	6.10	6.10	6.10	6.10	6.10	6.10	6.10	6.10	6.10	6.01	6.10	5.19[c]	5.43[c]	4.25[b]	4.65[b]	3.24[a]
800S200-54	8SJW16	8.49	8.49	8.49	8.49	8.49	8.49	8.49	8.49	8.49	8.49	8.33	7.76	7.76	6.45[b]	6.59[b]	5.09[b]
800S162-68	8SSJ14	7.76	7.76	7.76	7.76	7.76	7.76	7.76	7.76	7.76	7.76	7.76	7.16	7.40	6.11[b]	6.52[b]	4.96[b]
800S200-68	8SJW14	10.95	10.95	10.95	10.95	10.95	10.95	10.95	10.95	10.95	10.95	10.81	10.78	10.48	9.25[c]	9.28[c]	7.60[b]
800S162-97	8SSJ12	10.15	10.15	10.15	10.15	10.15	10.15	10.15	10.15	10.15	10.15	10.15	10.11	10.15	8.93[c]	9.36	7.61[b]
800S200-97	8SJW12	15.63	15.63	15.63	15.63	15.63	15.63	15.63	15.63	15.63	15.63	15.63	15.63	15.41	14.87	14.71	12.64[b]

AISI Designation	Legacy Designation	BRIDGING AT MID-HEIGHT			
		9FT		10FT	
		16"	24"	16"	24"
350S137-33	3-1/2SSC20	0.42[a]			
350S162-33	3-1/2SSJ20	0.78[a]	0.32[a]		
350S137-43	3-1/2SSC18	0.96[b]	0.22[a]	0.41[a]	
350S162-43	3-1/2SSJ18	1.58[b]	0.80[a]	0.96[a]	
350S137-54	3-1/2SSC16	2.21[b]	1.50[a]	1.40[a]	
350S162-54	3-1/2SSJ16	3.19[b]	2.46[a]	2.24[b]	1.52[a]
350S137-68	3-1/2SSC14	2.92[b]	2.14[b]	1.97[b]	1.15[a]
350S162-68	3-1/2SSJ14	4.19[c]	3.41[b]	3.06[b]	2.28[a]
362S137-33	3-5/8SSC20	0.50[a]			
362S162-33	3-5/8SSJ20	0.88[a]	0.41[a]		
362S137-43	3-5/8SSC18	1.08[b]	0.33[a]	0.51[a]	
362S162-43	3-5/8SSJ18	1.73[b]	0.94[a]	1.10[a]	
362S200-43	3-5/8SJW18	2.47[b]	1.64[b]	1.77[b]	0.91[a]
362S137-54	3-5/8SSC16	2.42[b]	1.69[a]	1.56[b]	0.81[a]
362S162-54	3-5/8SSJ16	3.47[b]	2.72[b]	2.48[b]	1.72[a]
362S200-54	3-5/8SJW16	4.98[c]	4.16[b]	3.74[b]	2.93[a]
362S137-68	3-5/8SSC14	3.19[b]	2.38[b]	2.18[b]	1.33[a]
362S162-68	3-5/8SSJ14	4.57[c]	3.77[b]	3.36[b]	2.55[a]
362S200-68	3-5/8SJW14	6.37	5.62[b]	4.90[c]	4.06[b]
362S200-97	3-5/8SJW12	8.20	7.96	6.85	6.03[b]
400S137-33	4SSC20	.75[b]	0.09[a]	0.28[a]	
400S162-33	4SSJ20	1.17[b]	0.48[a]	0.68[a]	
400S137-43	4SSC18	1.42[b]	0.66[a]	0.81[b]	
400S162-43	4SSJ18	2.14[b]	1.35[b]	1.49[b]	0.65[a]
400S200-43	4SJW18	2.95[c]	2.13[b]	2.25[b]	1.37[a]
400S137-54	4SSC16	2.96[c]	2.22[b]	2.03[b]	1.23[a]
400S162-54	4SSJ16	4.23	3.46[b]	3.12[b]	2.32[a]
400S200-54	4SJW16	5.95	5.15[b]	4.64[c]	3.79[b]
400S137-68	4SSC14	3.91	3.08[b]	2.66[b]	1.80[b]
400S162-68	4SSJ14	5.72	4.86[b]	4.31[c]	3.42[b]
400S200-68	4SJW14	7.52	7.05[c]	6.25	5.32[b]
400S200-97	4SJW12	9.86	9.86	8.31	7.74[c]
550S137-33	5-1/2SSC20	1.43	0.91[b]	0.97[c]	0.37[b]
550S162-33	5-1/2SSJ20	2.04	1.47[c]	1.58[c]	0.92[b]
550S137-43	5-1/2SSC18	2.23	1.65	1.63	0.98[b]
550S162-43	5-1/2SSJ18	3.27	2.63	2.69	1.95[b]
550S137-54	5-1/2SSC16	3.73	3.31	2.86	2.26[c]
550S162-54	5-1/2SSJ16	5.75	5.62	5.08	4.40
550S137-68	5-1/2SSC14	4.38	4.12	3.54	2.90
550S162-68	5-1/2SSJ14	7.25	7.25	6.32	5.91
600S137-33	6SSC20	1.55	1.08[c]	1.10	0.57[b]
600S162-33	6SSJ20	2.21	1.69	1.78	1.17[b]
600S137-43	6SSC18	2.36	1.85	1.77	1.19[c]
600S162-43	6SSJ18	3.46	2.89	2.90	2.23
600S200-43	62JW18	4.32	3.93	3.99	3.29
600S137-54	6SSC16	3.65	3.44	2.97	2.43
600S162-54	6SSJ16	5.71	5.71	5.02	4.65
600S200-54	6SJW16	7.77	7.77	7.21	7.21
600S137-68	6SSC14	4.31	4.26	3.63	3.08
600S162-68	6SSJ14	7.20	7.20	6.24	6.16
600S200-68	6SJW14	10.03	10.03	9.31	9.31
600S200-97	6SJW12	14.53	14.53	13.49	13.49
800S162-43	8SSJ18	3.40	3.40	3.14	2.84
800S200-43	8SJW18	4.42	4.42	4.24	4.16
800S162-54	8SSJ16	5.42	5.42	4.65	4.65
800S200-54	8SJW16	8.03	8.03	7.51	7.51
800S162-68	8SSJ14	6.81	6.81	5.77	5.77
800S200-68	8SJW14	10.31	10.31	9.60	9.60
800S162-97	8SSJ12	8.44	8.44	7.11	7.11
800S200-97	8SJW12	14.54	14.54	13.31	13.31

Superscripts:
a meets L/240 deflection
b meets L/360 deflection
c meets L/600 deflection
No superscript: meets L/720 deflection

Flange Width: SSC=1 3/8", SSJ=1-5/8", SJW=2" and SSW=2-1/2"

See page 32 for additional table notes.

SUGGESTED DESIGN GUIDES
ALLOWABLE AXIAL LOAD CAPACITIES
BRACED STUDS SUBJECTED TO LATERAL LOAD
KIPS (1,000 LBS) PER STUD

30 PSF

AISI Designation	Legacy Designation	BRIDGING SPACED 48" ON CENTER															
		8FT		9FT		10FT		11FT		12FT		14FT		16FT		18FT	
		16"	24"	16"	24"	16"	24"	16"	24"	16"	24"	16"	24"	16"	24"	16"	24"
350S137-33	3-1/2SSC20	0.65[a]	0.25[a]														
350S162-33	3-1/2SSJ20	1.03[b]	0.28[a]	0.57[a]													
350S137-43	3-1/2SSC18	1.31[b]	0.50[a]	0.81[a]													
350S162-43	3-1/2SSJ18	1.97[b]	1.13[a]	1.40[a]	0.88[a]												
350S137-54	3-1/2SSC16	2.96[b]	2.17[b]	2.31[b]	1.44[a]	1.70[a]											
350S162-54	3-1/2SSJ16	4.13[c]	3.29[b]	3.33[b]	2.42[a]	2.58[a]	1.92[a]										
350S137-68	3-1/2SSC14	3.83[c]	2.97[b]	3.06[b]	2.12[a]	2.35[a]	1.71[a]										
350S162-68	3-1/2SSJ14	5.39	4.50[b]	4.43[b]	3.45[a]	3.53[b]	2.51[a]	2.74[a]									
362S137-33	3-5/8SSC20	0.75[b]	0.34[a]														
362S162-33	3-5/8SSJ20	1.14[b]	0.39[a]	0.68[a]													
362S137-43	3-5/8SSC18	1.43[b]	0.63[a]	0.93[a]	0.46[a]												
362S162-43	3-5/8SSJ18	2.12[b]	1.28[b]	1.56[b]	0.62[a]	1.02[a]											
362S200-43	3-5/8SJW18	2.90[c]	2.03[b]	2.28[b]	1.29[a]	1.67[a]	1.10[a]										
362S137-54	3-5/8SSC16	3.19[b]	2.39[b]	2.53[b]	1.64[a]	1.91[a]											
362S162-54	3-5/8SSJ16	4.42[c]	3.58[b]	3.62[b]	2.69[a]	2.85[a]	2.17[a]										
362S200-54	3-5/8SJW16	6.12	5.21[b]	5.14[b]	4.12[b]	4.16[b]	3.09[a]	3.27[a]									
362S137-68	3-5/8SSC14	4.16[c]	3.29[b]	3.38[b]	2.40[a]	2.63[a]	1.96[a]										
362S162-68	3-5/8SSJ14	5.83	4.92[b]	4.86[b]	3.85[b]	3.92[b]	2.85[a]	3.07[a]	2.35[a]								
362S200-68	3-5/8SJW14	7.68	7.06[c]	6.83[c]	5.75[b]	5.64[b]	4.49[a]	4.54[b]	3.38[a]	3.60[a]							
362S200-97	3-5/8SJW12	9.81	9.81	9.13	8.28[c]	7.95[c]	6.72[b]	6.58[b]	5.31[a]	5.38	4.12[a]						
400S137-33	4SSC20	1.01[b]	0.32[a]	0.60[a]	0.21[a]												
400S162-33	4SSJ20	1.44[b]	0.71[a]	0.99[b]	0.16[a]	0.56[a]											
400S137-43	4SSC18	1.78[c]	1.00[b]	1.29[b]	0.40[a]	0.81[a]											
400S162-43	4SSJ18	2.52[c]	1.72[b]	1.98[b]	1.05[a]	1.44[a]	0.93[a]										
400S200-43	4SJW18	3.37	2.53[b]	2.77[b]	1.80[b]	2.17[b]	1.09[a]	1.58[a]									
400S137-54	4SSC16	3.82	3.02[b]	3.18[b]	2.25[a]	2.53[b]	1.52[a]	1.91[a]									
400S162-54	4SSJ16	5.19	4.36[b]	4.44[c]	3.48[b]	3.67[b]	2.62[a]	2.91[a]	2.23[a]								
400S200-54	4SJW16	6.80	6.17[c]	6.15[c]	5.11[b]	5.20[b]	4.06[a]	4.27[b]	3.09[a]	3.40[a]							
400S137-68	4SSC14	5.07	4.17[c]	4.31[c]	3.26[b]	3.52[b]	2.38[a]	2.76[a]	2.07[a]								
400S162-68	4SSJ14	6.77	6.03[c]	6.05	4.98[b]	5.10[b]	3.93[a]	4.17[b]	2.94[a]	3.31[a]							
400S200-68	4SJW14	8.60	8.40	8.21	7.15[b]	7.12[c]	5.88[b]	5.97[b]	4.67[a]	4.88[b]	3.57[a]						
400S200-97	4SJW12	11.37	11.37	10.81	10.37	10.12	8.76[b]	8.63[c]	7.18[b]	7.19[b]	5.72[a]	4.85[a]					
550S137-33	5-1/2SSC20	1.71	1.18[c]	1.41[c]	0.76[b]	1.08[b]	0.32[a]	0.74[b]	0.39[a]								
550S162-33	5-1/2SSJ20	2.27	1.71	1.93	1.25[b]	1.57[b]	0.76[b]	1.19[b]	0.27[a]	0.80[a]							
550S137-43	5-1/2SSC18	2.61	2.04	2.28	1.57[c]	1.91[c]	1.06[b]	1.52[b]	0.54[a]	1.11[b]							
550S162-43	5-1/2SSJ18	3.60	2.98	3.21	2.45[c]	2.79	1.88[b]	2.33[b]	1.33[b]	1.86[b]	0.72[a]	0.94[a]					
550S137-54	5-1/2SSC16	4.50	4.26	4.48	3.78	4.09	3.24[b]	3.66[c]	2.66[b]	3.20[b]	2.06[a]	2.22[a]					
550S162-54	5-1/2SSJ16	6.32	6.32	6.24	5.80	6.05	5.08[c]	5.44[c]	4.32[b]	4.79[b]	3.55[a]	3.45[a]					
550S137-68	5-1/2SSC14	5.32	5.31	5.32	4.80	5.13	4.23[c]	4.67	3.61[b]	4.17[b]	2.96[b]	3.11[a]					
550S162-68	5-1/2SSJ14	8.07	8.07	8.07	7.97	7.97	7.15	7.51	6.25[b]	6.72[c]	5.31[b]	5.07[b]	3.48[a]	3.51[a]			
600S137-33	6SSC20	1.83	1.36	1.56	0.99[b]	1.27[c]	0.58[b]	0.96[b]	0.16[a]	0.64[b]							
600S162-33	6SSJ20	2.43	1.93	2.14	1.51[c]	1.82[c]	1.07[b]	1.46[b]	0.60[a]	1.10[b]	0.13[a]	0.36[a]					
600S137-43	6SSC18	2.74	2.24	2.45	1.82	2.13	1.36[c]	1.78[c]	.88[b]	1.40[b]	0.39[a]	0.63[a]					
600S162-43	6SSJ18	3.69	3.23	3.46	2.77	3.10	2.26[c]	2.69[c]	1.71[b]	2.25[b]	1.15[a]	1.35[a]					
600S200-43	62JW18	4.48	4.23	4.44	3.73	4.04	3.18[c]	3.60	2.59[b]	3.12[c]	1.98[b]	2.13[b]	0.78[a]	1.17[a]			
600S137-54	6SSC16	4.42	4.41	4.42	3.99	4.28	3.52[c]	3.91	3.01[b]	3.51[b]	2.47[b]	2.63[b]	1.36[a]	1.73[a]			
600S162-54	6SSJ16	6.31	6.31	6.31	6.20	6.31	5.63	6.01	4.97[b]	5.43[c]	4.24[b]	4.17[b]	2.77[a]	2.92[a]			
600S200-54	6SJW16	8.28	8.28	8.18	8.18	8.07	7.83	7.92	7.02[c]	7.42	6.17[b]	5.92[b]	4.43[a]	4.42[a]			
600S137-68	6SSC14	5.23	5.23	5.23	5.01	5.23	4.51	4.91	3.98[c]	4.49[c]	3.40[b]	3.54[b]	2.18[a]	2.55[a]			
600S162-68	6SSJ14	8.05	8.05	8.05	8.05	8.05	7.70	8.05	6.99[c]	7.54	6.20[b]	6.02[b]	4.41[a]	4.46[a]			
600S200-68	6SJW14	10.69	10.69	10.57	10.57	10.42	10.42	10.24	9.81	10.03	8.81[c]	8.37[b]	6.70[b]	6.50[b]	4.69[a]	4.77[a]	
600S200-97	6SJW12	15.49	15.49	15.34	15.34	15.14	15.14	14.90	14.90	14.60	14.00	13.20	11.16[b]	10.57[b]	8.34[a]	8.08[b]	5.84[a]
800S162-43	8SSJ18	3.62	3.62	3.62	3.44	3.62	3.11	3.42	2.74	3.14	2.34[c]	2.51[c]	1.47[b]	1.82[b]	0.54[a]	1.09[a]	
800S200-43	8SJW18	4.56	4.56	4.56	4.56	4.56	4.23	4.56	3.83	4.25	3.39	3.53	2.40[b]	2.73[b]	1.36[a]	1.88[a]	
800S162-54	8SSJ16	6.10	6.10	6.10	6.10	6.10	6.10	6.10	6.04	6.10	5.61	5.74	4.65[b]	4.95[b]	3.58[b]	4.07[b]	2.46[a]
800S200-54	8SJW16	8.49	8.49	8.49	8.49	8.49	8.49	8.49	8.49	8.49	8.43	8.33	7.15[c]	7.23[c]	5.71[b]	5.97[b]	4.25[a]
800S162-68	8SSJ14	7.76	7.76	7.76	7.76	7.76	7.76	7.76	7.76	7.76	7.64	7.76	6.58[c]	6.88[c]	5.37[b]	5.88[b]	4.09[a]
800S200-68	8SJW14	10.95	10.95	10.95	10.95	10.95	10.95	10.95	10.95	10.95	10.95	10.81	10.11	10.10	8.43[b]	8.59[b]	6.66[b]
800S162-97	8SSJ12	10.15	10.15	10.15	10.15	10.15	10.15	10.15	10.15	10.15	10.15	10.15	9.47	9.78	8.12[b]	8.64[c]	6.63[b]
800S200-97	8SJW12	15.63	15.63	15.63	15.63	15.63	15.63	15.63	15.63	15.63	15.63	15.63	15.63	15.41	13.88[c]	13.86	11.50[b]

AISI Designation	Legacy Designation	BRIDGING AT MID-HEIGHT			
		9FT		10FT	
		16"	24"	16"	24"
350S137-33	3-1/2SSC20	0.15[a]			
350S162-33	3-1/2SSJ20	0.49[a]			
350S137-43	3-1/2SSC18	0.65[a]			
350S162-43	3-1/2SSJ18	1.26[a]	0.63[a]		
350S137-54	3-1/2SSC16	1.91[b]	1.10[a]	1.10[a]	
350S162-54	3-1/2SSJ16	2.89[b]	2.06[a]	1.94[a]	
350S137-68	3-1/2SSC14	2.60[b]	1.71[a]	1.63[a]	
350S162-68	3-1/2SSJ14	3.87[b]	2.98[a]	2.74[b]	1.84[a]
362S137-33	3-5/8SSC20	0.23[a]			
362S162-33	3-5/8SSJ20	0.59[a]			
362S137-43	3-5/8SSC18	0.77[a]	0.19[a]		
362S162-43	3-5/8SSJ18	1.40[b]	0.50[a]	0.76[a]	
362S200-43	3-5/8SJW18	2.12[b]	1.18[a]	1.41[a]	
362S137-54	3-5/8SSC16	2.12[b]	1.29[a]	1.25[a]	
362S162-54	3-5/8SSJ16	3.16[b]	2.30[a]	2.17[a]	
362S200-54	3-5/8SJW16	4.64[b]	3.71[b]	3.40[b]	2.49[a]
362S137-68	3-5/8SSC14	2.85[b]	1.94[a]	1.83[a]	
362S162-68	3-5/8SSJ14	4.24[b]	3.32[b]	3.03[b]	2.10[a]
362S200-68	3-5/8SJW14	6.12[c]	5.14[b]	4.56[b]	3.59[a]
362S200-97	3-5/8SJW12	8.20	7.45[c]	6.57[c]	5.51[b]
400S137-33	4SSC20	0.48[a]			
400S162-33	4SSJ20	0.89[b]	0.09[a]	0.38[a]	
400S137-43	4SSC18	1.11[b]	0.24[a]	0.48[a]	
400S162-43	4SSJ18	1.81[b]	0.91[a]	1.14[a]	
400S200-43	4SJW18	2.61[b]	1.67[b]	1.89[b]	0.89[a]
400S137-54	4SSC16	2.66[b]	1.80[a]	1.70[b]	0.79[a]
400S162-54	4SSJ16	3.91[c]	3.02[b]	2.79[b]	1.88[a]
400S200-54	4SJW16	5.65[c]	4.68[b]	4.29[b]	3.32[a]
400S137-68	4SSC14	3.57[c]	2.61[b]	2.31[b]	1.33[a]
400S162-68	4SSJ14	5.37	4.38[b]	3.94[b]	2.92[a]
400S200-68	4SJW14	7.52	6.54[b]	5.87[c]	4.80[b]
400S200-97	4SJW12	9.86	9.46	8.31	7.18[b]
550S137-33	5-1/2SSC20	1.22[c]	0.60[b]	0.73[b]	
550S162-33	5-1/2SSJ20	1.81	1.13[b]	1.31[b]	0.54[b]
550S137-43	5-1/2SSC18	2.00	1.32[c]	1.37[c]	0.61[b]
550S162-43	5-1/2SSJ18	3.01	2.26[c]	2.39	1.52[b]
550S137-54	5-1/2SSC16	3.63	2.99	2.62	1.91[b]
550S162-54	5-1/2SSJ16	5.75	5.24	4.85	3.97[c]
550S137-68	5-1/2SSC14	4.38	3.79	3.28	2.53[c]
550S162-68	5-1/2SSJ14	7.25	7.06	6.32	5.44
600S137-33	6SSC20	1.36	0.81[b]	0.88[c]	0.26[b]
600S162-33	6SSJ20	2.00	1.39[c]	1.53[c]	0.81[b]
600S137-43	6SSC18	2.15	1.55	1.54	.85[b]
600S162-43	6SSJ18	3.23	2.55	2.63	1.84[c]
600S200-43	62JW18	4.29	3.59	3.71	2.88[c]
600S137-54	6SSC16	3.65	3.17	2.75	2.12[c]
600S162-54	6SSJ16	5.71	5.51	5.02	4.26
600S200-54	6SJW16	7.77	7.77	7.21	6.89
600S137-68	6SSC14	4.31	3.97	3.42	2.75
600S162-68	6SSJ14	7.20	7.20	6.24	5.75
600S200-68	6SJW14	10.03	10.03	9.31	9.31
600S200-97	6SJW12	14.53	14.53	13.49	13.49
800S162-43	8SSJ18	3.40	3.18	3.10	2.57
800S200-43	8SJW18	4.42	4.42	4.24	3.87
800S162-54	8SSJ16	5.42	5.42	4.65	4.65
800S200-54	8SJW16	8.03	8.03	7.51	7.51
800S162-68	8SSJ14	6.81	6.81	5.77	5.77
800S200-68	8SJW14	10.31	10.31	9.60	9.60
800S162-97	8SSJ12	8.44	8.44	7.11	7.11
800S200-97	8SJW12	14.54	14.54	13.31	13.31

Flange Width: SSC=1 3/8", SSJ=1-5/8", SJW=2" and SSW=2-1/2"

See page 32 for additional table notes.

Superscripts:
a meets L/240 deflection
b meets L/360 deflection
c meets L/600 deflection
No superscript: meets L/720 deflection

SUGGESTED DESIGN GUIDES
ALLOWABLE AXIAL LOAD CAPACITIES
BRACED STUDS SUBJECTED TO LATERAL LOAD
KIPS (1,000 LBS) PER STUD

35 PSF

AISI Designation	Legacy Designation	BRIDGING SPACED 48" ON CENTER															
		8FT		9FT		10FT		11FT		12FT		14FT		16FT		18FT	
		16"	24"	16"	24"	16"	24"	16"	24"	16"	24"	16"	24"	16"	24"	16"	24"
350S137-33	3-1/2SSC20	0.41[a]															
350S162-33	3-1/2SSJ20	0.77[a]															
350S137-43	3-1/2SSC18	1.03[b]	0.13[a]	.50[a]													
350S162-43	3-1/2SSJ18	1.68[b]	0.74[a]	1.08[a]													
350S137-54	3-1/2SSC16	2.69[b]	1.80[a]	2.01[a]													
350S162-54	3-1/2SSJ16	3.84[b]	2.91[a]	3.01[b]	2.00[a]	2.25[a]											
350S137-68	3-1/2SSC14	3.53[b]	2.57[b]	2.74[b]	1.69[a]	2.00[a]											
350S162-68	3-1/2SSJ14	5.08[c]	4.09[b]	4.09[b]	3.00[a]	3.17[a]	2.38[a]										
362S137-33	3-5/8SSC20	0.50[a]															
362S162-33	3-5/8SSJ20	0.88[b]	0.39[a]														
362S137-43	3-5/8SSC18	1.15[b]	0.25[a]	0.62[a]													
362S162-43	3-5/8SSJ18	1.83[b]	0.89[a]	1.23[a]	0.67[a]												
362S200-43	3-5/8SJW18	2.60[b]	1.62[b]	1.93[b]	0.83[a]	1.29[a]											
362S137-54	3-5/8SSC16	2.91[b]	2.01[a]	2.22[a]	1.58[a]												
362S162-54	3-5/8SSJ16	4.13[b]	3.19[b]	3.30[b]	2.26[a]	2.51[a]											
362S200-54	3-5/8SJW16	5.80[c]	4.78[b]	4.78[b]	3.65[a]	3.79[a]	2.89[a]										
362S137-68	3-5/8SSC14	3.86[c]	2.87[b]	3.04[b]	1.95[a]	2.27[a]											
362S162-68	3-5/8SSJ14	5.52[c]	4.50[b]	4.51[b]	3.38[a]	3.55[b]	2.37[a]	2.69[a]									
362S200-68	3-5/8SJW14	7.68	6.61[b]	6.46[b]	5.25[b]	5.24[b]	3.97[a]	4.13[a]	3.20[a]								
362S200-97	3-5/8SJW12	9.81	9.37	9.03	7.74[b]	7.52[b]	6.15[b]	6.14[b]	4.74[a]	4.94[a]							
400S137-33	4SSC20	0.77[b]	0.33[a]														
400S162-33	4SSJ20	1.19[b]	0.37[a]	0.71[a]													
400S137-43	4SSC18	1.52[b]	0.63[a]	0.98[b]	0.47[a]												
400S162-43	4SSJ18	2.25[b]	1.33[b]	1.66[b]	0.62[a]	1.09[a]											
400S200-43	4SJW18	3.08[c]	2.13[b]	2.44[b]	1.34[a]	1.79[a]	1.18[a]										
400S137-54	4SSC16	3.54[c]	2.64[b]	2.86[b]	1.83[a]	2.18[a]	1.54[a]										
400S162-54	4SSJ16	4.91	3.97[b]	4.11[b]	3.03[a]	3.30[b]	2.14[a]	2.53[a]									
400S200-54	4SJW16	6.75	5.75[b]	5.79[c]	4.63[b]	4.80[b]	3.55[a]	3.85[a]	2.98[a]								
400S137-68	4SSC14	4.77	3.74[b]	3.95[b]	2.78[a]	3.12[b]	1.86[a]	2.35[a]									
400S162-68	4SSJ14	6.64	5.60[b]	5.68[c]	4.48[b]	4.69[b]	3.39[a]	3.74[a]	2.87[a]								
400S200-68	4SJW14	8.60	7.95[c]	7.88	6.62[b]	6.69[b]	5.31[b]	5.52[b]	4.08[a]	4.42[a]							
400S200-97	4SJW12	11.37	11.37	10.81	9.79[c]	9.65[c]	8.13[b]	8.12[b]	6.52[a]	6.67	5.07[a]	4.35[a]					
550S137-33	5-1/2SSC20	1.53	0.93[b]	1.19[c]	0.45[b]	0.82[b]	0.44[a]	0.06[a]									
550S162-33	5-1/2SSJ20	2.08	1.43[c]	1.70[c]	0.92[b]	1.29[b]	0.38[a]	0.87[b]	0.45[a]								
550S137-43	5-1/2SSC18	2.42	1.76	2.04	1.22[b]	1.62[b]	0.66[b]	1.18[b]	0.09[a]	0.73[a]							
550S162-43	5-1/2SSJ18	3.39	2.68	2.96	2.09[b]	2.48[c]	1.45[b]	1.98[b]	0.81[a]	1.47[b]	0.19[a]						
550S137-54	5-1/2SSC16	4.50	3.99	4.24	3.43[c]	3.80[c]	2.83[b]	3.32[b]	2.19[a]	2.81[b]	1.54[a]	1.75[a]					
550S162-54	5-1/2SSJ16	6.32	6.13	6.24	5.41	5.72	4.62[b]	5.05[b]	3.80[b]	4.36[b]	2.97[a]	2.96[a]					
550S137-68	5-1/2SSC14	5.32	5.02	5.29	4.44	4.82	3.80[b]	4.31[c]	3.11[b]	3.76[b]	2.40[a]	2.60[a]					
550S162-68	5-1/2SSJ14	8.07	8.07	8.07	7.54	7.86	6.63[c]	7.08	5.66[b]	6.23[b]	4.66[b]	4.51[a]					
600S137-33	6SSC20	1.67	1.13[c]	1.37	0.70[b]	1.04[b]	0.25[b]	0.69[b]	0.33[a]								
600S162-33	6SSJ20	2.26	1.68	1.93	1.21[b]	1.56[c]	0.70[b]	1.17[b]	0.19[a]	0.76[a]							
600S137-43	6SSC18	2.57	1.99	2.24	1.51[c]	1.87[c]	1.00[b]	1.47[b]	.46[a]	1.06[b]	0.21[a]						
600S162-43	6SSJ18	3.60	2.96	3.23	2.44	2.82	1.86[b]	2.35[b]	1.25[b]	1.87[b]	0.64[a]	0.90[a]					
600S200-43	62JW18	4.48	3.95	4.20	3.39	3.75	2.77[c]	3.26[c]	2.11[b]	2.73[b]	1.45[a]	1.66[a]					
600S137-54	6SSC16	4.42	4.17	4.40	3.69	4.02	3.16[b]	3.60[c]	2.59[b]	3.15[b]	1.99[a]	2.19[a]					
600S162-54	6SSJ16	6.31	6.31	6.31	5.84	6.21	5.20[c]	5.66	4.47[b]	5.02[b]	3.68[b]	3.68[a]					
600S200-54	6SJW16	8.28	8.28	8.18	8.18	8.07	7.38	7.75	6.50[b]	6.99[c]	5.58[b]	5.40[b]	3.75[a]	3.85[a]			
600S137-68	6SSC14	5.23	5.19	5.23	4.69	5.03	4.13[c]	4.59	3.53[b]	4.11[b]	2.88[b]	3.07[b]	1.56[a]	2.00[a]			
600S162-68	6SSJ14	8.05	8.05	8.05	7.95	8.05	7.23	7.76	6.44[b]	7.08[c]	5.57[b]	5.46[b]	3.68[a]	3.85[a]			
600S200-68	6SJW14	10.69	10.69	10.57	10.57	10.42	10.25	10.24	9.24[c]	9.72	8.15[b]	7.79[b]	5.94[a]	5.86[a]			
600S200-97	6SJW12	15.49	15.49	15.344	15.34	15.14	15.14	14.90	14.63	14.60	13.21[c]	12.49[c]	10.22[b]	9.79[b]	7.34[a]	7.29[a]	
800S162-43	8SSJ18	3.62	3.56	3.62	3.22	3.48	2.83	3.19	2.41	2.87	1.95[c]	2.16[b]	0.97[b]	1.38[b]	0.58[a]		
800S200-43	8SJW18	4.56	4.56	4.56	4.35	4.56	3.93	4.31	3.47	3.96	2.97[c]	3.15[c]	1.87[b]	2.26[b]	0.72[a]	1.34[a]	
800S162-54	8SSJ16	6.10	6.10	6.10	6.10	6.10	6.10	6.10	5.70	6.10	5.21	5.37[c]	4.13[b]	4.48[b]	2.94[a]	3.51[a]	
800S200-54	8SJW16	8.49	8.49	8.49	8.49	8.49	8.49	8.49	8.49	8.49	7.97	7.97	6.56[b]	6.71[b]	5.00[b]	5.37[b]	3.46[a]
800S162-68	8SSJ14	7.76	7.76	7.76	7.76	7.76	7.76	7.76	7.74	7.76	7.21	7.36	6.00[b]	6.36[b]	4.67[b]	5.26[b]	3.27[a]
800S200-68	8SJW14	10.95	10.95	10.95	10.95	10.95	10.95	10.95	10.95	10.95	10.95	10.81	9.46[c]	9.53[c]	7.64[b]	7.92[b]	5.78[a]
800S162-97	8SSJ12	10.15	10.15	10.15	10.15	10.15	10.15	10.15	10.15	10.15	10.15	10.15	8.84	9.21	7.33[b]	7.95[b]	5.70[a]
800S200-97	8SJW12	15.63	15.63	15.63	15.63	15.63	15.63	15.63	15.63	15.63	15.63	15.63	15.08	15.20	12.92[b]	13.04[c]	10.41[b]

AISI Designation	Legacy Designation	BRIDGING AT MID-HEIGHT			
		9FT		10FT	
		16"	24"	16"	24"
350S137-33	3-1/2SSC20				
350S162-33	3-1/2SSJ20				
350S137-43	3-1/2SSC18	0.36[a]			
350S162-43	3-1/2SSJ18	0.95[a]			
350S137-54	3-1/2SSC16	1.63[a]			
350S162-54	3-1/2SSJ16	2.60[b]	1.67[a]	1.65[a]	
350S137-68	3-1/2SSC14	2.29[b]	1.30[a]	1.31[a]	
350S162-68	3-1/2SSJ14	3.56[b]	2.57[a]	2.43[a]	
362S137-33	3-5/8SSC20				
362S162-33	3-5/8SSJ20	0.31[a]			
362S137-43	3-5/8SSC18	0.47[a]			
362S162-43	3-5/8SSJ18	1.09[a]	0.44[a]		
362S200-43	3-5/8SJW18	1.80[b]	0.74[a]	1.07[a]	
362S137-54	3-5/8SSC16	1.83[a]	0.95[a]		
362S162-54	3-5/8SSJ16	2.86[b]	1.91[a]	1.87[a]	
362S200-54	3-5/8SJW16	4.32[b]	3.28[a]	3.09[a]	
362S137-68	3-5/8SSC14	2.54[b]	1.52[a]	1.49[a]	
362S162-68	3-5/8SSJ14	3.92[b]	2.89[a]	2.70[b]	1.67[a]
362S200-68	3-5/8SJW14	5.78[b]	4.68[b]	4.22[b]	3.15[a]
362S200-97	3-5/8SJW12	8.13	6.96[b]	6.20[b]	5.02[b]
400S137-33	4SSC20	0.21[a]			
400S162-33	4SSJ20	0.61[a]			
400S137-43	4SSC18	0.81[b]	0.16[a]		
400S162-43	4SSJ18	1.50[b]	0.49[a]	0.81[a]	
400S200-43	4SJW18	2.29[b]	1.23[a]	1.54[a]	
400S137-54	4SSC16	2.36[b]	1.40[a]	1.38[a]	
400S162-54	4SSJ16	3.61[b]	2.61[a]	2.48[b]	1.46[a]
400S200-54	4SJW16	5.32[c]	4.23[b]	3.95[b]	2.87[a]
400S137-68	4SSC14	3.24[b]	2.17[a]	1.97[b]	0.87[a]
400S162-68	4SSJ14	5.03[c]	3.91[b]	3.59[b]	2.45[a]
400S200-68	4SJW14	7.22	6.05[b]	5.50[b]	4.31[b]
400S200-97	4SJW12	9.86	8.93[c]	7.94[c]	6.64[b]
550S137-33	5-1/2SSC20	1.01[c]	0.30[b]	0.49[b]	
550S162-33	5-1/2SSJ20	1.58[c]	0.81[b]	1.05[b]	0.17[a]
550S137-43	5-1/2SSC18	1.77	0.99[b]	1.11[b]	0.24[b]
550S162-43	5-1/2SSJ18	2.76	1.90[b]	2.09[c]	1.11[b]
550S137-54	5-1/2SSC16	3.41	2.68[c]	2.38[c]	1.56[b]
550S162-54	5-1/2SSJ16	5.75	4.86	4.55	3.55[b]
550S137-68	5-1/2SSC14	4.23	3.47	3.02	2.16[b]
550S162-68	5-1/2SSJ14	7.25	6.66	6.06	4.99[c]
600S137-33	6SSC20	1.17	0.54[b]	0.67[b]	
600S162-33	6SSJ20	1.79	1.09[b]	1.29[c]	0.47[b]
600S137-43	6SSC18	1.95	1.25[c]	1.31[c]	0.52[b]
600S162-43	6SSJ18	3.00	2.23	2.36	1.46[b]
600S200-43	6SJW18	4.05	3.24	3.43	2.47[c]
600S137-54	6SSC16	3.53	2.90	2.54	1.81[b]
600S162-54	6SSJ16	5.71	5.18	4.78	3.89[c]
600S200-54	6SJW16	7.77	7.72	7.21	6.46
600S137-68	6SSC14	4.31	3.69	3.19	2.42[c]
600S162-68	6SSJ14	7.20	7.00	6.24	5.35
600S200-68	6SJW14	10.03	10.03	9.31	8.99
600S200-97	6SJW12	14.53	14.53	13.49	13.49
800S162-43	8SSJ18	3.40	2.96	2.92	2.31
800S200-43	8SJW18	4.42	4.18	4.24	3.58
800S162-54	8SSJ16	5.42	5.42	4.65	4.49
800S200-54	8SJW16	8.03	8.03	7.51	7.51
800S162-68	8SSJ14	6.81	6.81	5.77	5.77
800S200-68	8SJW14	10.31	10.31	9.60	9.60
800S162-97	8SSJ12	8.44	8.44	7.11	7.11
800S200-97	8SJW12	14.54	14.54	13.31	13.31

Superscripts:
a meets L/240 deflection
b meets L/360 deflection
c meets L/600 deflection
No superscript: meets L/720 deflection

Flange Width: SSC=1 3/8", SSJ=1-5/8", SJW=2" and SSW=2-1/2"

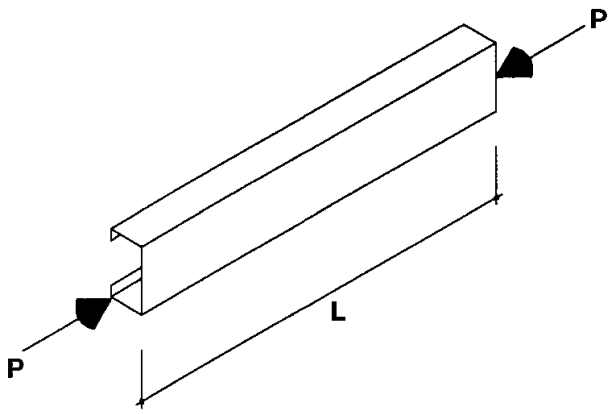
See page 32 for additional table notes.

SUGGESTED DESIGN GUIDES
ALLOWABLE AXIAL LOAD CAPACITIES
UNBRACED STUDS NOT SUBJECTED TO LATERAL LOAD
KIPS (1,000 LBS) PER STUD

TABLE ON FOLLOWING PAGE

USE:

The table is used to select an axially loaded unbraced stud not subjected to lateral load. (i.e. kickers, struts, etc.). Select a stud which provides an allowable axial load in excess of the applied load.

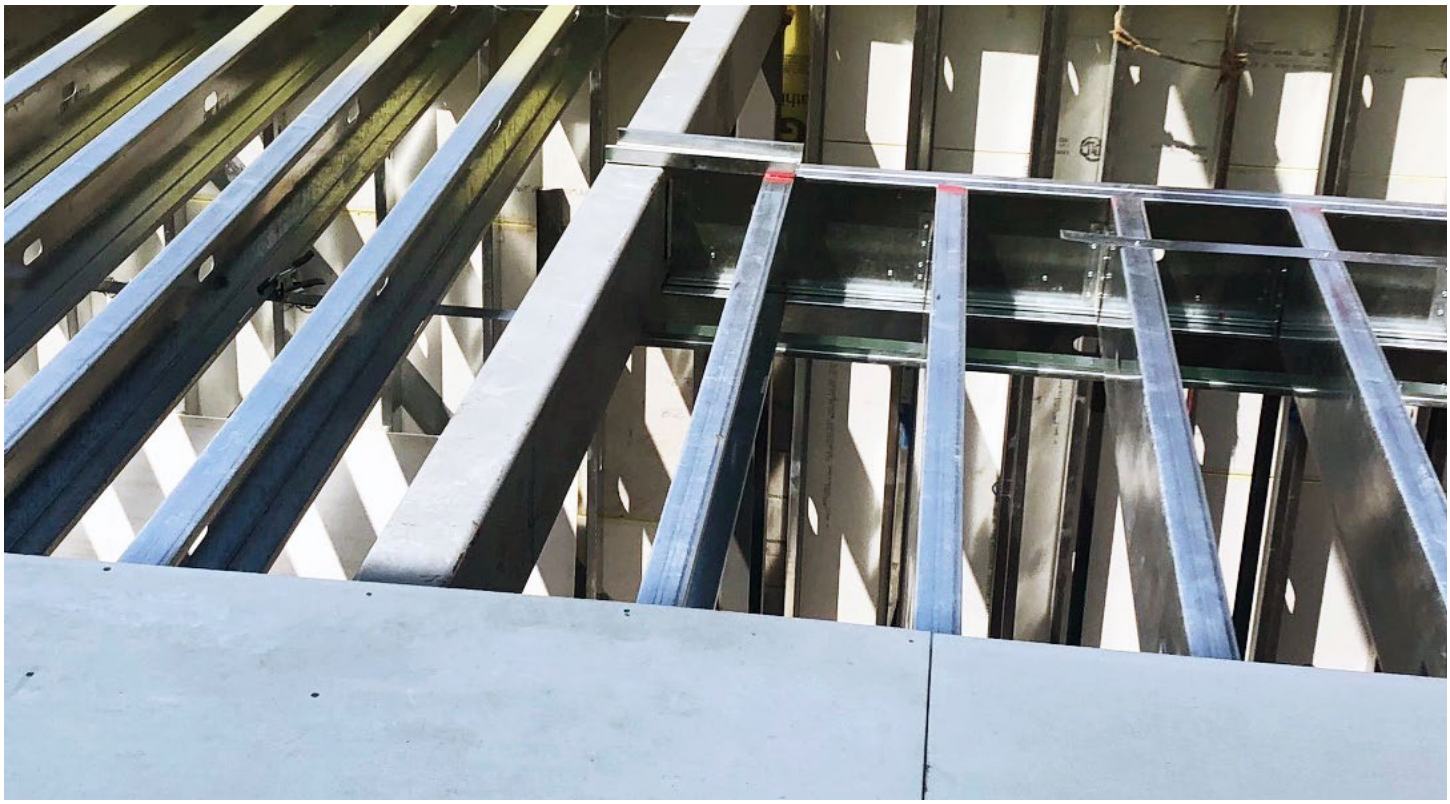


INOTES:

1. Values shown are limited to unbraced studs subjected to concentric axial load.

2. When bending stresses are present, the stud shall satisfy the interaction requirements of AISI Section C5, Combined Axial and Bending.

3. Load values were omitted where the h/t ratio exceeds 200.



SUGGESTED DESIGN GUIDES
ALLOWABLE AXIAL LOAD CAPACITIES

UNBRACED STUDS NOT SUBJECTED TO LATERAL LOAD – KIPS (1,000 LBS) PER STUD

			UNBRACED LENGTH (FT)																							
	AISI DESIGNATION	LEGACY DESIGNATION	0.5	1.0	1.5	2.0	2.5	3.0	3.5	4.0	4.5	5.0	5.5	6.0	6.5	7.0	7.5	8.0	8.5	9.0	9.5	10.0	10.5	11.0	11.5	12.0
2-1/2 inch	250S137-43	2-1/2SSC18	3.64	3.56	3.44	3.27	3.06	2.81	2.53	2.22	1.86	1.56	1.33	1.16	1.03	0.93	0.84	0.77	0.71							
	250S137-54	2-1/2SSC16	6.94	6.73	6.38	5.91	5.33	4.65	3.84	3.07	2.54	2.15	1.87	1.65	1.48	1.34	1.23	1.14	1.06							
	250S137-68	2-1/2SSC14	8.54	8.22	7.72	7.07	6.31	5.47	4.60	3.79	3.22	2.81	2.50	2.26	1.98	1.71	1.49	1.31								
	250S162-33	2-1/2SSJ20	2.96	2.92	2.84	2.74	2.61	2.44	2.22	1.96	1.67	1.39	1.18	1.02	0.88	0.77	0.69	0.62	0.56	0.51	0.46	0.43				
	250S162-43	2-1/2SSJ18	4.22	4.15	4.02	3.85	3.64	3.38	3.08	2.75	2.37	1.97	1.67	1.43	1.25	1.11	0.99	0.90	0.82	0.75	0.70	0.65				
	250S162-54	2-1/2SSJ16	8.05	7.84	7.49	7.01	6.41	5.69	4.84	3.89	3.16	2.64	2.25	1.96	1.73	1.54	1.39	1.27	1.17	1.08	1.01	0.94				
	250S162-68	2-1/2SSJ14	10.05	9.74	9.25	8.58	7.76	6.83	5.80	4.73	3.91	3.32	2.89	2.55	2.29	2.08	1.91	1.76	1.64	1.54	1.45	1.37				
3-5/8 inch	362S137-43	3-5/8SSC18	3.71	3.66	3.58	3.46	3.32	3.14	2.94	2.71	2.46	2.19	1.91	1.67	1.48	1.31	1.14	1.00								
	362S137-54	3-5/8SSC16	7.10	6.96	6.72	6.39	5.98	5.50	4.94	4.33	3.66	3.11	2.64	2.22	1.89	1.63	1.42	1.25								
	362S137-68	3-5/8SSC14	8.92	8.73	8.40	7.97	7.43	6.82	6.12	5.23	4.19	3.40	2.81	2.36	2.01	1.73	1.51									
	362S162-33	3-5/8SSJ20	2.99	2.96	2.92	2.85	2.77	2.66	2.54	2.40	2.20	1.99	1.76	1.52	1.33	1.17	1.05	0.94	0.85	0.78	0.71	0.65				
	362S162-43	3-5/8SSJ18	4.29	4.24	4.17	4.06	3.92	3.75	3.55	3.33	3.08	2.81	2.51	2.20	1.93	1.71	1.52	1.36	1.23	1.12	1.03	0.95				
	362S162-54	3-5/8SSJ16	8.21	8.07	7.85	7.54	7.14	6.66	6.11	5.49	4.80	4.08	3.49	3.00	2.62	2.32	2.08	1.88	1.71	1.57	1.45	1.35				
	362S162-68	3-5/8SSJ14	10.44	10.25	9.95	9.54	9.02	8.40	7.70	6.90	6.00	5.08	4.35	3.80	3.36	3.02	2.74	2.43	2.16	1.92	1.73					
	362S200-43	3-5/8SJW18	4.87	4.84	4.78	4.69	4.57	4.43	4.26	4.04	3.78	3.49	3.18	2.84	2.49	2.19	1.95	1.73	1.56	1.41	1.28	1.17	1.08	1.00	0.93	0.87
	362S200-54	3-5/8SJW16	9.48	9.43	9.27	9.03	8.72	8.32	7.80	7.17	6.46	5.67	4.85	4.17	3.61	3.16	2.79	2.49	2.25	2.04	1.86	1.71	1.59	1.47	1.38	1.29
	362S200-68	3-5/8SJW14	12.53	12.35	12.06	11.65	11.13	10.51	9.79	8.98	8.03	6.99	5.93	5.09	4.44	3.92	3.50	3.16	2.87	2.63	2.43	2.26	2.11	1.98	1.86	1.76
	362S200-97	3-5/8SJW12	18.85	18.10	17.20	16.19	15.10	13.95	12.77	11.56	10.34	9.12	7.93	6.99	6.25	5.66	5.18	4.79	4.46	4.18	3.84	3.47	3.14	2.86	2.62	
4 inch	400S137-43	4SSC18	3.75	3.71	3.63	3.52	3.39	3.22	3.04	2.82	2.59	2.33	2.05	1.76	1.53	1.34	1.19	1.05								
	400S137-54	4SSC16	7.19	7.06	6.84	6.53	6.15	5.70	5.18	4.59	3.87	3.21	2.71	2.32	1.98	1.71	1.49	1.31								
	400S137-68	4SSC14	9.12	8.93	8.63	8.23	7.72	7.10	6.32	5.41	4.40	3.56	2.94	2.47	2.11	1.82	1.58									
	400S162-33	4SSJ20	3.01	2.99	2.94	2.88	2.81	2.71	2.60	2.47	2.31	2.11	1.90	1.67	1.46	1.29	1.15	1.04	0.94	0.86	0.79	0.73				
	400S162-43	4SSJ18	4.33	4.29	4.22	4.12	3.99	3.84	3.66	3.46	3.23	2.98	2.70	2.41	2.12	1.88	1.69	1.53	1.39	1.28	1.17	1.08				
	400S162-54	4SSJ16	8.30	8.18	7.97	7.69	7.33	6.89	6.39	5.82	5.18	4.49	3.85	3.35	2.96	2.64	2.37	2.13	1.94	1.77	1.59	1.43				
	400S162-68	4SSJ14	10.63	10.47	10.19	9.81	9.34	8.77	8.13	7.41	6.63	5.79	4.98	4.33	3.82	3.33	2.90	2.55	2.26	2.01	1.81					
	400S200-43	4SJW18	4.92	4.89	4.83	4.75	4.65	4.52	4.37	4.19	3.96	3.70	3.42	3.12	2.79	2.46	2.19	1.97	1.78	1.62	1.49	1.37	1.26	1.16	1.08	1.01
	400S200-54	4SJW16	9.56	9.54	9.39	9.18	8.90	8.54	8.11	7.54	6.90	6.20	5.43	4.68	4.09	3.62	3.23	2.89	2.60	2.36	2.15	1.98	1.83	1.69	1.58	1.48
	400S200-68	4SJW14	12.72	12.57	12.30	11.94	11.48	10.92	10.28	9.54	8.73	7.84	6.88	5.94	5.17	4.55	4.06	3.65	3.31	3.03	2.79	2.59	2.41	2.26	2.12	2.00
	400S200-97	4SJW12	20.01	19.27	18.40	17.41	16.35	15.22	14.05	12.85	11.63	10.41	9.20	8.06	7.18	6.48	5.92	5.45	5.02	4.48	4.02	3.63	3.29	3.00	2.74	
6 inch	600S137-43	6SSC18	3.85	3.80	3.73	3.62	3.47	3.30	3.09	2.85	2.57	2.25	1.93	1.67	1.46	1.29	1.15									
	600S137-54	6SSC16	7.39	7.26	7.03	6.70	6.29	5.77	5.15	4.42	3.65	3.07	2.62	2.27	1.99	1.76	1.57									
	600S137-68	6SSC14	9.54	9.35	9.02	8.55	7.95	7.20	6.29	5.23	4.31	3.63	3.10	2.69	2.35	2.08										
	600S162-33	6SSJ20	3.06	3.04	3.00	2.95	2.89	2.81	2.72	2.61	2.49	2.32	2.14	1.93	1.70	1.50	1.33	1.19	1.07	0.97	0.89					
	600S162-43	6SSJ18	4.44	4.40	4.34	4.26	4.15	4.02	3.87	3.69	3.48	3.25	3.00	2.71	2.40	2.12	1.88	1.69	1.52	1.38	1.26					
	600S162-54	6SSJ16	8.51	8.41	8.24	7.99	7.68	7.30	6.84	6.31	5.71	5.02	4.29	3.70	3.23	2.85	2.54	2.27	2.05	1.86	1.70					
	600S200-43	6SJW18	5.02	5.00	4.96	4.91	4.84	4.75	4.65	4.53	4.39	4.22	4.02	3.81	3.58	3.33	3.06	2.78	2.51	2.29	2.10	1.93	1.79	1.66	1.55	1.44
	600S200-54	6SJW16	9.77	9.75	9.67	9.53	9.34	9.11	8.81	8.47	8.03	7.53	6.99	6.39	5.74	5.09	4.54	4.09	3.71	3.36	3.06	2.80	2.57	2.37	2.20	2.04
	600S200-68	6SJW14	13.17	13.06	12.88	12.63	12.31	11.92	11.46	10.94	10.36	9.71	9.01	8.25	7.40	6.51	5.78	5.17	4.66	4.22	3.84	3.52	3.23	2.98	2.76	
	600S200-97	6SJW12	21.82	21.23	20.55	19.79	18.79	18.09	17.15	16.09	1.96	13.75	12.44	11.02	9.60	8.44	7.49	6.69	5.98	5.34	4.79	4.32	3.92	3.57		
8 inch	800S162-43	8SSJ18	4.46	4.42	4.35	4.26	4.14	4.00	3.82	3.62	3.40	3.14	2.85	2.53	2.21	1.95	1.74	1.56	1.41	1.28						
	800S162-54	8SSJ16	8.55	8.44	8.24	7.97	7.63	7.20	6.69	6.10	5.42	4.65	3.96	3.42	2.99	2.65	2.36	2.12	1.92	1.75						
	800S162-68	8SSJ14	11.15	11.00	10.73	10.36	9.88	9.29	8.58	7.76	6.81	5.77	4.93	4.27	3.74	3.31	2.96	2.66	2.41							
	800S162-97	8SSJ12	18.58	17.80	16.87	15.81	14.61	13.29	11.82	10.17	8.44	7.11	6.08	5.27	4.61	4.07	3.57									
	800S200-43	8SJW18	5.04	5.02	4.99	4.93	4.86	4.78	4.68	4.56	4.42	4.24	4.04	3.82	3.58	3.31	3.03	2.72	2.45	2.22	2.02	1.85	1.71	1.58	1.46	
	800S200-54	8SJW16	9.81	9.80	9.72	9.57	9.38	9.14	8.84	8.49	8.03	7.51	6.92	6.28	5.56	4.89	4.34	3.88	3.50	3.17	2.89	2.65	2.44	2.26	2.09	1.95
	800S200-68	8SJW14	13.26	13.15	12.97	12.71	12.38	11.98	11.50	10.95	10.31	9.60	8.81	7.93	6.97	6.14	5.46	4.90	4.42	4.01	3.66	3.36	3.09	2.86	2.65	
	800S250-54	8SSW16	10.60	10.56	10.49	10.40	10.28	10.13	9.95	9.74	9.50	9.24	8.93	8.60	8.22	7.79	7.31	6.79	6.15	5.58	5.09	4.66	4.28	3.94	3.65	3.39
	800S250-68	8SSW14	15.50	15.48	15.41	15.27	15.09	14.86	14.59	14.26	13.89	13.47	12.94	12.35	11.70	10.99	10.22	9.39	8.50	7.69	7.00	6.40	5.88	5.42	5.02	4.66
	800S250-97	8SSW12	26.96	26.45	25.87	25.22	24.52	23.77	22.96	22.09	21.16	20.18	19.14	18.05	16.90	15.68	14.40	13.01	11.71	10.61	9.67	8.85	8.13	7.50	6.94	6.45

Flange Width: SSC=1 3/8", SSJ=1-5/8", SJW=2" and SSW=2-1/2"

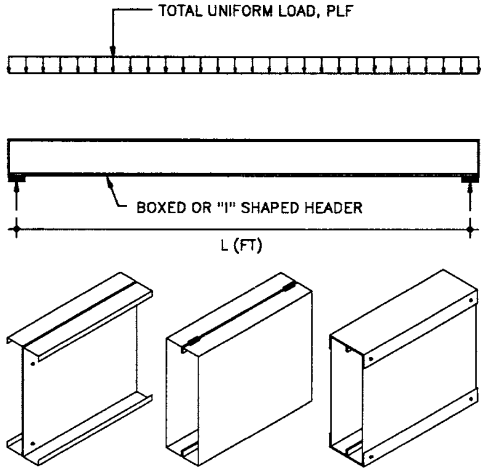
SUGGESTED DESIGN GUIDES
ALLOWABLE UNIFORM LOAD CAPACITIES – HEADERS
POUNDS PER LINEAR FOOT, PLF

USE:

The tables are used to select a simply supported boxed or "I" shaped header subjected to uniform load. Select a header which provides an allowable uniform load in excess of the applied load.

NOTES:

1. The values represent the allowable total load, in pounds per Linear foot (PLF), limited by the bending or shear capacity of the header. Additionally, deflection was limited to 1/360 of span length.



SECTION	4FT	5FT	6FT	7FT	8FT	9FT	10FT	11FT	12FT	13FT	14FT	15FT	16FT
(2)4SSJ18	730	467	324	229	154	108	79	59	45	36	29	23	19
(2)4SSJ16	1369	778	450	284	190	133	97	73	56	44	35	29	24
(2)4SS J14	1654	941	545	343	230	161	118	88	68	54	43	35	29
(2)6SSJ18	1275	816	567	416	319	252	204	153	118	93	74	61	50
(2)6SSJ16	2401	1537	1067	740	496	348	254	191	147	116	93	75	62
(2)6SSJ14	2915	1865	1295	898	602	423	308	232	178	140	112	91	75
(2)8SSJ18	985	788	657	563	475	375	304	251	211	180	149	121	100
(2)8SSJ16	1962	1569	1308	1121	896	698	509	382	295	232	185	151	124
(2)8SSJ14	3959	2793	1940	1425	1091	850	620	466	359	282	226	184	151
(2)8SSJ12	5669	3628	2519	1851	1417	1106	806	606	467	367	294	239	197

2. The use of these tables is limited to simply supported conditions. Applications involving cantilevers, concentrated loads, eccentricities, multiple spans, impact loading, etc. should be investigated separately.

3. The compression flange of the header shall be laterally braced at intervals not to exceed 2'-0" on center.

4. Web crippling should be investigated separately. Web reinforcement is suggested at all bearing and/or concentrated load locations unless deemed unnecessary by analysis. Shapes having multiple un-reinforced webs (sections which provide a high degree of restraint against rotation of the web)subjected to a combination of concentrated load or reaction and bending shall be designed to meet the requirements of AISI Section C3.4. Reference Page 44 for additional information. Avoid locating a web knockout within a distance equaling 1.5 x depth of the member (h) from the edge of bearing. Should a knockout be located in this area, web reinforcement is required.

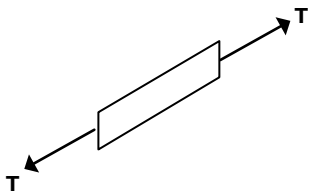
5. Contact Super Stud for allowable load capacities of sections not shown herein.

SECTION	8FT	9FT	10FT	11FT	12FT	13FT	14FT	15FT	16FT	17FT	18FT	19FT	20FT
(2)6SSJ18										42	35	30	26
(2)6SSJ16										52	44	37	32
(2)6SSJ14										63	53	45	39
(2)8SSJ18										83	70	60	51
(2)8SSJ16										104	87	74	64
(2)8SSJ14										126	106	90	77
(2)8SSJ12										164	138	118	101
(2)10SSJ16	779	692	623	567	483	402	322	261	215	180	151	129	110
(2)1 0SSJ14	1526	1206	977	807	624	491	393	319	263	219	185	157	135
(2)10SSJ12	2000	1580	1280	1058	818	643	515	419	345	288	242	206	177
(2)12SSJ16	646	574	517	470	431	398	369	345	316	280	239	203	174
(2)12SSJ14	1300	1142	832	625	482	379	303	247	203	169	143	121	104
(2)12SSJ12	2665	2106	1706	1410	1185	1009	821	668	550	459	386	329	282
(2)14SJW14	1109	986	887	807	739	682	634	591	555	522	466	416	357
(2)14SJW12	3255	2893	2490	2058	1729	1473	1270	1107	935	779	657	558	479

FLAT STRAP ALLOWABLE TENSION CAPACITIES

USE:

The table provides the allowable capacity of strap subjected to tensile forces.

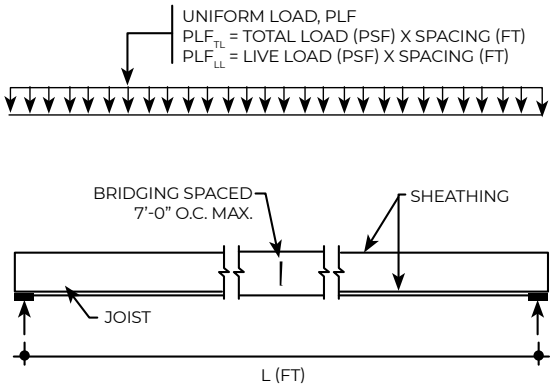


Allowable Strap Tension, Pounds			
Strap Width	Thickness (Mils)	Gauge	Capacity (Pounds)
2"	33	20	1,370
3"	33	20	2.050
2"	43	18	1.780
3"	43	18	2,670
4"	43	18	3,570
2"	54	16	2,240
3"	54	16	3,360
4"	54	16	4,480
3"	68	14	6,410
4"	68	14	8,550
5"	68	14	10,690

SUGGESTED DESIGN GUIDES
ALLOWABLE UNIFORM LOAD CAPACITIES – JOISTS
POUNDS PER LINEAR FOOT, PLF

USE:

The tables are used to select a simply supported joist or rafter subjected to uniform vertical loads. Select a joist, based on span and deflection limit, which provides an allowable uniform load in excess of the applied load.



NOTES:

1. **TL** values denote the **TOTAL LOAD** capacity of the section expressed in pounds per linear foot (PLF), which will not exceed stress limitations or generate deflections in excess of L/240.

LL values denote the **LIVE LOAD**, in pounds per linear loot (PLF), which will generate a deflection equaling L/360.

To determine LIVE LOAD deflection limits of L/480 and L/240, multiply the LL values 0.75 and 1.5 respectively. In either case, the TOTAL LOAD capacity of the joist shall not be exceeded.

2. To determine the equivalent pound per square foot (PSF) load carrying capacities, divide the pound per linear foot (PLF) values by the joist spacing expressed in feet.

$$\text{Pound Per Linear Foot (PLF)} = \frac{\text{Pound Per Square Foot (PSF)}}{\text{Joist Spacing (Feet On Center)}}$$

For joists spaced: 12" O.C., divide values by 1.0
16" O.C., divide values by 1.333
24" O.C., divide values by 2.0

3. The use of these tables is limited to simply supported conditions installed to a maximum slope of 1/2" per foot. Conditions involving cantilevers, concentrated loads, eccentricities, multiple spans, impact loading, etc. should be investigated separately.

4. The compression flange of the section should be braced by means of the attachment of continuous diaphragm rated sheathing. Additionally, mechanical bridging shall be installed at intervals not to exceed 7'-0" on center.

5. Joist ends shall be restrained against rotation by means of a fixed attachment to each side of continuous track or alternative methods preventing end rotation shall be provided.

6. Deflections were calculated without regard to the composite contribution of collateral materials.

7. Web crippling per AISI Section C3.4 should be investigated separately. Web reinforcement is suggested at all bearing and/ or concentrated load locations unless deemed unnecessary by analysis. Reference Pages 44 and 45 for allowable un-reinforced web capacities.

8. Contact Super Stud for allowable load capacities of sections not shown herein.

SUGGESTED DESIGN GUIDES
ALLOWABLE UNIFORM LOAD CAPACITIES – JOISTS
POUNDS PER LINEAR FOOT, PLF
TOTAL LOAD (TL), LIVE LOAD (LL)

AISI Designation	Legacy Designation		SPAN																					
			6FT	7FT	8FT	9FT	10FT	11FT	12FT	13FT	14FT	15FT	16FT	17FT	18FT	19FT	20FT	21FT	22FT	23FT	24FT	25FT	26FT	27FT	28FT
600S162-33	6SSJ20	TL	199	155	119	94	76	63	53	45	39	34	29	24	20	17									
		LL	199	155	119	94	76	59	46	36	29	23	19	16	13	11									
600S162-43	6SSJ18	TL	283	208	159	126	102	84	71	60	52	45	37	31	26	22	19	17							
		LL	283	208	159	126	102	77	59	46	37	30	25	21	18	15	13	11							
600S200-43	6SJW18	TL	318	234	179	141	114	95	80	68	58	51	43	36	30	26	22	19	17						
		LL	318	234	179	141	114	88	68	53	43	35	29	24	20	17	15	13	11						
600S250-43	6SSW18	TL	346	254	194	154	124	103	86	74	63	55	49	42	35	30	26	22	19	17					
		LL	346	254	194	154	124	102	79	62	50	40	33	28	23	20	17	15	13	11					
600S162-54	6SSJ16	TL	534	392	300	237	190	143	110	87	69	56	46	39	33	28	24	21	18	16					
		LL	534	370	548	174	127	95	73	58	46	38	31	26	22	19	16	14	12	10					
600S200-54	6SJW16	TL	605	444	340	269	218	167	129	101	81	66	54	45	38	32	28	24	21	18	16				
		LL	605	433	290	204	148	111	86	68	54	44	36	30	25	22	19	16	14	12	11				
600S250-54	6SSW16	TL	657	483	370	292	237	194	150	118	94	77	63	53	44	38	32	28	24	21	19	17			
		LL	657	483	337	237	172	130	100	79	63	51	42	35	30	25	22	19	16	14	12	11			
600S162-68	6SSJ14	TL	648	476	364	288	231	174	134	105	84	68	56	47	40	34	29	25	22	19	17				
		LL	648	449	301	211	154	116	89	70	56	46	38	31	26	22	19	17	14	13	11				
600S200-68	6SJW14	TL	763	561	429	339	272	204	157	124	99	81	66	55	47	40	34	29	26	22	20	17	15		
		LL	763	529	354	249	181	136	105	83	66	54	44	37	31	26	23	20	17	15	13	12	10		
600S250-68	6SSW14	TL	884	649	497	393	318	244	188	148	118	96	79	66	56	47	41	35	30	27	23	21	18	16	
		LL	884	630	422	297	216	162	125	98	79	64	53	44	37	32	27	23	20	18	16	14	12	11	
600S200-97	6SJW12	TL	999	738	565	446	358	269	207	163	130	106	87	73	61	52	45	39	34	29	26	23	20	18	16
		LL	999	696	466	327	239	179	138	109	87	71	58	49	41	35	30	26	22	20	17	15	14	12	11
600S250-97	6SSW12	TL	999	901	690	545	437	328	253	199	159	129	107	89	75	64	55	47	41	36	32	28	25	22	20
		LL	999	849	569	400	291	219	169	133	106	86	71	59	50	42	36	31	27	24	21	19	17	15	13
725S162-43	7-1/4SSJ18	TL	363	268	206	162	132	109	91	78	67	58	51	46	41	35	30	26	23	20	17	15			
		LL	363	268	206	162	132	109	91	73	59	48	39	33	28	23	20	17	15	13	12	10			
725S200-43	7-1/4SJW18	TL	517	380	291	230	186	154	129	110	95	83	73	64	57	50	43	37	32	28	25	22	19	17	16
		LL	517	380	291	230	186	154	129	103	83	67	55	46	39	33	28	25	21	19	16	15	13	12	10
725S162-54	7-1/4SSJ16	TL	689	506	388	306	248	205	172	137	109	89	73	61	51	44	38	32	28	25	22	19	17	15	
		LL	689	506	388	275	200	150	116	91	73	59	49	41	34	29	25	22	19	16	14	13	11	10	
725S200-54	7-1/4SJW16	TL	724	571	437	345	280	231	194	159	127	103	85	71	60	51	44	38	33	29	25	22	20	18	16
		LL	724	571	437	319	232	175	134	106	85	69	57	47	40	34	29	25	22	19	17	15	13	12	11
725S162-68	7-1/4SSJ14	TL	838	616	471	372	302	249	210	166	133	108	89	74	63	53	46	39	34	30	26	23	21	19	17
		LL	838	616	471	334	244	183	141	111	89	72	59	50	42	36	30	26	23	20	18	16	14	12	11
725S200-68	7-1/4SJW14	TL	981	721	552	436	353	292	245	194	155	126	104	87	732	62	53	46	40	35	31	27	24	22	19
		LL	981	721	552	390	284	214	165	129	104	84	69	58	49	41	36	31	27	23	21	18	16	14	13
725S162-97	7-1/4SSJ12	TL	999	797	610	482	390	323	271	216	173	140	116	96	81	69	59	51	44	39	34	30	27	24	22
		LL	999	797	610	433	316	237	183	144	115	94	77	64	54	46	39	34	30	26	23	20	18	16	14
725S200-97	7-1/4SJW12	TL	999	951	728	575	466	385	323	256	205	167	138	115	97	82	70	61	53	46	41	36	32	29	26
		LL	999	951	728	515	376	282	217	171	137	111	92	76	64	55	47	41	35	31	27	24	21	19	17
800S162-43	8SSJ18	TL	328	281	237	188	152	126	106	90	78	68	59	53	47	42	38	33	29	25	22	20	17	16	
		LL	328	281	237	188	152	126	106	90	74	61	50	42	35	30	26	22	19	17	15	13	12	10	
800S200-43	8SJW18	TL	328	281	246	207	168	139	117	99	86	75	66	58	52	47	42	38	33	29	25	22	20	18	16
		LL	328	281	246	207	168	139	117	99	85	69	57	47	40	34	29	25	22	19	17	15	13	12	11
800S250-43	8SSW18	TL	328	281	246	217	176	145	122	104	90	78	69	61	54	49	44	40	36	33	29	26	23	20	18
		LL	328	281	246	217	176	145	122	104	90	78	65	54	46	39	33	29	25	22	19	17	15	14	12
800S162-54	8SSJ16	TL	654	560	448	354	287	237	199	170	139	113	93	78	65	56	48	41	36	31	28	24	22	19	17
		LL	654	560	448	349	254	191	147	116	93	75	62	52	44	37	32	27	24	21	18	16	14	13	12
800S200-54	8SJW16	TL	654	560	490	398	322	266	224	191	161	131	108	90	76	64	55	48	41	36	32	28	25	22	20
		LL	654	560	490	398	294	221	170	134	107	87	72	60	50	43	37	32	28	24	21	19	17	15	13
800S250-54	8SSW16	TL	654	560	490	419	339	281	236	201	173	150	124	103	87	74	63	55	48	42	37	32	29	26	23
		LL	654	560	490	419	338	254	196	154	123	100	82	69	58	49	42	36	32	28	24	22	19	17	15
800S162-68	8SSJ14	TL	970	712	545	431	349	289	242	207	169	138	113	95	80	68	58	50	44	38	34	30	26	24	21
		LL	970	712	545	425	310	233	179	141	113	92	76	63	53	45	39	33	29	25	22	20	18	16	14
800S200-68	8SJW14	TL	999	830	635	502	407	336	282	241	197	160	132	110	93	79	68	58	51	44	39	35	31	27	25
		LL	999	830	635	494	360	271	208	164	131	107	88	73	62	53	45	39	34	30	26	23	20	18	16
800S250-68	8SSW14	TL	999	954	730	577	467	386	324	276	232	189	156	130	109	93	80	69	60	52	46	41	36	32	29
		LL	999	954	730	577	425	319	246	193	155	126	104	87	73	62	53	46	40	35	31	27	24	22	19
800S162-97	8SSJ12	TL	999	925	709	560	453	375	315	268	220	179	148	123	104	88	76	65	57	50	44	39	34	31	28
		LL	999	925	709	553	403	304	233	183	147	119	98	82	69	59	50	44	38	33	29	26	23	20	18
800S200-97	8SJW12	TL	999	999	840	663	537	444	373	318	261	212	175	146	123	104	89	77	67	59	52	46	41	36	33
		LL	999	999	840	654	477	358	276	217	174	141	116	97	82	69	60	51	45	39	34	31	27	24	22
800S250-97	8SSW12	TL	999	999	999	801	649	536	451	384	314	255	210	175	148	126	108	93	81	71	62	55	49	44	39
		LL	999	999	999	78	574	431	332	261	209	170	140	117	98	84	72	62	54	47	42	37	33	29	26

Flange Width: SSC=1 3/8", SSJ=1-5/8", SJW=2" and SSW=2-1/2"

SUGGESTED DESIGN GUIDES
ALLOWABLE UNIFORM LOAD CAPACITIES – JOISTS
POUNDS PER LINEAR FOOT, PLF
TOTAL LOAD (TL), LIVE LOAD (LL)

AISI Designation	Legacy Designation		SPAN																					
			14FT	15FT	16FT	17FT	18FT	19FT	20FT	21FT	22FT	23FT	24FT	25FT	26FT	27FT	28FT	29FT	30FT	31FT	32FT	33FT	34FT	35FT	36FT
925S162-43	9-1/4SSJ18	TL	97	76	66	59	52	47	42	39	35	32	29	27	25	22	20	18	16						
		LL	87	76	66	59	50	43	36	31	27	24	21	19	17	15	13	12	11						
925S200-43	9-1/4SJW18	TL	96	84	74	65	58	52	47	43	39	36	33	30	28	25	22	20	18	17	15				
		LL	96	84	74	65	56	48	41	36	31	27	24	21	19	17	15	13	12	11	10				
925S162-54	9-1/4SSJ16	TL	167	146	128	111	94	80	68	59	51	45	39	35	31	28	25	22	20	18	17	15			
		LL	133	108	89	74	62	53	45	39	34	30	26	23	21	18	17	15	13	12	11	10			
925S200-54	9-1/4SJW16	TL	136	162	143	126	107	91	78	68	59	51	45	40	36	32	29	26	23	21	19	14	16		
		LL	152	124	102	85	72	61	52	45	39	34	30	27	24	21	19	17	15	14	13	12	11		
925S162-68	9-1/4SSJ14	TL	221	193	162	135	114	97	83	72	62	55	48	43	38	34	30	27	25	22	20	19	17	16	
		LL	162	131	108	90	76	65	55	48	42	36	32	28	25	23	20	18	16	15	14	12	11	10	
925S200-68	9-1/4SJW14	TL	256	223	187	156	132	112	96	83	72	63	56	49	44	39	35	31	28	26	23	21	20	18	16
		LL	187	152	125	104	88	75	64	55	48	42	37	33	29	26	23	21	19	17	16	14	13	12	11
925S162-97	9-1/4SSJ12	TL	289	252	212	177	149	127	109	94	82	72	63	56	50	44	40	36	32	29	27	24	22	20	19
		LL	211	172	142	118	99	85	73	63	54	48	42	37	33	29	26	24	21	19	18	16	15	14	12
925S200-97	9-1/4SJW12	TL	339	296	249	207	175	149	127	110	96	84	74	65	58	52	46	42	38	34	31	28	26	24	22
		LL	248	201	166	138	117	99	85	73	64	56	49	43	39	35	31	28	25	23	21	19	17	16	15
1000S162-54	10SSJ16	TL	177	155	136	120	107	96	83	71	62	54	48	42	38	34	30	27	25	22	20	18	17	15	
		LL	161	131	108	90	76	64	55	48	41	36	32	28	25	22	20	18	16	15	13	12	11	10	
1000S200-54	10SJW16	TL	199	173	152	135	120	108	95	82	71	62	55	48	43	38	34	31	28	25	23	21	19	18	16
		LL	184	149	123	103	87	74	63	54	47	41	36	32	29	26	23	21	19	17	15	14	13	12	11
1000S250-54	10SSW16	TL	211	184	162	143	128	115	104	93	81	71	62	55	49	44	39	35	32	29	26	24	22	20	18
		LL	209	170	140	117	98	84	72	62	54	47	42	37	33	29	26	24	21	19	18	16	15	13	12
1000S162-68	10SSJ14	TL	249	217	191	165	139	118	101	87	76	66	58	52	46	41	37	33	30	27	25	22	21	19	17
		LL	196	160	132	110	92	79	67	58	51	44	39	34	31	27	25	22	20	18	16	15	14	13	12
1000S200-68	10SJW14	TL	287	250	219	189	159	135	116	100	87	76	67	59	53	47	42	38	34	31	28	26	24	22	20
		LL	226	188	151	126	106	90	77	67	58	51	45	40	35	31	28	25	23	21	19	17	16	14	13
1000S250-68	10SSW14	TL	327	285	250	221	186	158	136	117	102	89	78	69	62	55	49	44	40	36	33	30	28	25	23
		LL	264	214	177	147	124	105	90	78	68	59	52	46	41	37	33	30	27	24	22	20	18	17	16
1000S162-97	10SSJ12	TL	326	284	250	216	182	155	132	114	100	87	77	68	60	54	48	43	39	36	32	29	27	25	23
		LL	257	209	172	144	121	103	88	76	66	58	51	45	40	36	32	29	26	24	22	20	18	16	15
1000S200-97	10SJW12	TL	381	332	292	251	212	180	154	133	116	102	89	79	70	63	56	51	46	41	38	34	31	29	26
		LL	300	244	201	163	141	120	103	89	77	68	60	53	47	42	38	34	30	28	25	23	21	19	18
1000S250-97	10SSW12	TL	454	395	347	299	252	214	184	159	138	121	106	94	84	75	67	60	54	49	45	41	37	34	32
		LL	357	290	239	199	168	143	122	106	92	81	71	63	56	50	45	40	36	33	30	27	25	23	21
1150S162-54	11-1/2SSJ16	TL	193	173	152	135	120	108	98	88	81	74	68	60	53	48	43	38	35	32	29	26	24	22	20
		LL	193	173	152	127	107	91	78	68	59	51	45	40	36	32	29	26	23	21	19	17	16	15	13
1150S250-54	11-1/2SSW16	TL	193	180	169	159	145	130	118	107	97	89	82	75	69	61	55	49	45	40	37	34	31	28	26
		LL	193	180	169	159	138	117	100	87	75	66	58	51	46	41	37	33	30	27	25	22	20	19	17
1150S162-68	11-1/2SSJ14	TL	284	247	217	193	172	154	139	124	108	94	83	74	65	58	52	47	43	39	35	32	29	27	25
		LL	279	227	187	156	131	112	96	83	72	63	55	49	44	39	35	31	28	26	23	21	19	18	16
1150S250-68	11-1/2SSW14	TL	372	324	285	252	225	202	182	164	43	125	110	97	86	77	69	62	56	51	46	42	39	35	33
		LL	369	300	247	206	174	148	127	109	95	83	73	65	58	51	46	42	38	34	31	28	26	24	22
1150S162-97	11-1/2SSJ12	TL	407	354	311	276	246	221	189	164	142	124	110	97	86	77	69	62	56	51	46	42	39	35	32
		LL	368	299	247	206	173	147	126	109	95	83	73	65	57	51	46	41	37	34	31	28	26	24	22
1150S250-97	11-1/2SSW12	TL	555	483	425	376	336	301	258	223	194	170	149	132	117	105	94	85	76	69	63	57	52	48	44
		LL	501	407	336	280	236	201	172	149	129	113	99	88	78	70	63	56	51	46	42	38	35	32	29
1200S162-54	12SSJ16	TL	185	172	158	140	125	112	101	92	84	76	70	65	59	53	48	43	39	35	32	29	27	24	22
		LL	185	172	158	140	120	102	87	75	65	57	50	45	40	35	32	29	26	23	21	19	18	16	15
1200S200-54	12SJW16	TL	185	172	162	152	141	127	114	104	95	86	79	73	67	60	54	49	44	40	36	33	30	28	25
		LL	185	172	162	152	135	115	99	85	74	65	57	51	45	40	36	32	29	27	24	22	20	18	17
1200S250-54	12SSW16	TL	185	172	162	152	144	136	122	111	101	93	85	78	72	67	61	55	49	45	41	37	34	31	29
		LL	185	172	162	152	144	130	111	96	84	73	64	57	51	45	41	37	33	30	27	25	23	21	19
1200S162-68	12SSJ14	TL	293	255	224	198	177	159	143	130	118	105	93	82	73	65	58	52	47	43	39	36	33	30	27
		LL	293	253	208	174	146	124	107	92	80	70	62	55	49	43	39	35	32	29	26	24	22	20	18
1200S200-68	12SJW14	TL	340	296	260	230	205	184	166	151	137	120	105	93	83	74	66	60	54	49	44	41	37	34	31
		LL	340	288	237	198	166	142	121	105	91	80	70	62	55	49	44	40	36	33	30	27	35	23	21
1200S250-68	12SSW14	TL	371	336	295	261	233	209	189	171	156	138	122	108	96	86	77	69	62	57	51	47	43	39	36
		LL	371	333	274	229	193	164	140	121	106	92	81	72	64	57	51	46	42	38	34	31	29	26	24
1200S162-97	12SSJ12	TL	435	379	333	295	263	236	211	182	159	139	122	108	96	86	77	69	63	57	52	47	43	39	36
		LL	411	334	275	229	193	164	141	122	106	93	82	72	64	57	51	46	42	38	34	31	29	26	24
1200S200-97	12SJW12	TL	501	437	384	340	303	272	243	210	183	160	141	124	111	99	89	80	72	65	59	54	49	45	42
		LL	473	384	317	264	222	189	162	140	122	107	94	83	74	66	59	53	48	44	40	66	33	30	28
1200S250-97	12SSW12	TL	590	514	452	400	357	320	286	247	215	188	166	146	130	116	104	94	85	77	70	64	58	53	49
		LL	556	452	373	311	262	222	191	165	143	125	110	98	87	78	70	63	57	51	47	42	39	36	33
1400S200-54	14SJW16	TL	158	147	138	130	123	116	110	105	100	96	92	84	78	72	67	63	59	55	52	48	44	41	37
		LL	158	147	138	130	123	116	110	105	100	95	84	74	66	59	53	48	43	39	35	32	29	27	25
1400S200-68	14SJW14	TL	317	296	277	261	233	209	189	171	156	143	131	121	112	104	96	88	79	72	65	60	54	50	46
		LL	317	296	277	261	233	208	178	154	134	117	103	91	81	73	65	59	53	48	44	40	36	33	31
1400S250-68	14SSW14	TL	317	296	277	261	246	233	216	196	179	163	150	138	128	119	110	101	91	82	75	68	63	57	53
		LL	317	296	277	261	246	233	205	177	154	135	118	105	93	83	75	67	61	55	50	46	42	38	35
1400S200-97	14SJW12	TL	635	553	486	431	384	345	311	282	257	235	208	184	163	146	131	118	106	96	88	80	73	67	62
		LL	635	553	467	390	328	279	239	207	180	157	139	123	109	97	87	79	71	64	58	53	49	45	41
1400S250-97	14SSW12	TL	740	645	567	502	448	402	363	329	300	274	242	214	190	170	152	137	124	112	102	93	85	78	72
		LL	740	645	545	454	382	325	279	241	209	183	161	143	127	113	102	91	83	75	68	62	57	52	48
1600S250-68	16SSW14	TL	276	258	242	228	215	204	193	184	176	168	161	155	144	134	125	116	108	102	95	90	84	80	73
		LL	276	258	242	228	215	204	193	184	176	168	161	146	130	116	104	93	84	77	70	63	58	53	49
1600S250-97	16SSW12	TL	810	746	656	581	518	465	420	381	347	317	292	269	248	230	213	191	173	157	142	130	119	109	100
		LL	810	746	656	581	518	454	389	336	292	256	225	199	177	158	142	128	115	104	95	87	79	73	67

Flange Width: SSC=1 3/8", SSJ=1-5/8", SJW=2" and SSW=2-1/2"

WEB CRIPPLING CAPACITIES
UNSTIFFENED WEB(S) SUBJECTED TO LOCAL FORCES
KIPS (1,000 LBS)

USE:

The tables are used to verify the allowable capacity of an unreinforced web subjected to local forces.

NOTES:

1. Values have been omitted where the height to thickness ratio of the web, h/t, exceeds 200.

2. Values shown below represent the allowable concentrated load or reaction for one solid unreinforced web. Values shown on the following page represent the allowable concentrated load or reaction for "][" shaped sections connected back to back or similar sections which provide a high degree of restraint against rotation of the web.

3. Unreinforced flat webs of sections subjected to a combination of concentrated load or reaction and bending shall be designed to meet the following requirements:

a. For shapes having single unreinforced webs:

$1.2(P/Pa) + (M/Ma) < 1.5$

b. For shapes having multiple unreinforced webs (i.e. "I" sections or similar sections which provide a high degree of restraint against rotation of the web): $1.1(P/Pa) + (M/Ma) < 1.5$ where:

P = Concentrated load or reaction

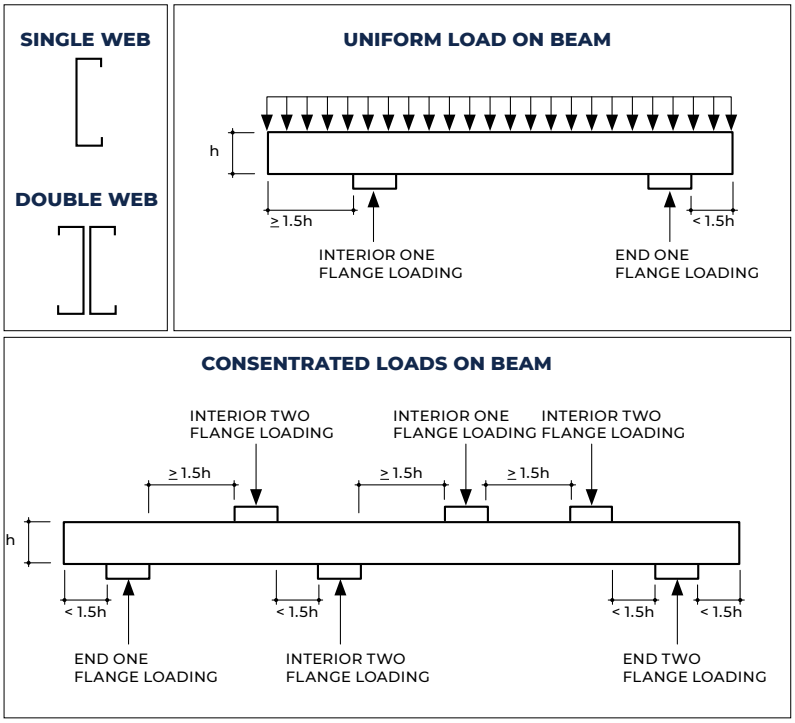
Pa = Allowable concentrated load or reaction

M = Applied bending moment at, or immediately adjacent to, the point of application of the concentrated load or reaction

Ma = Allowable bending moment if bending alone exists

h = flat width of web

4. Avoid locating a web knockout within a distance equaling 1.5 x depth of the member (h) from the edge of bearing. If a knockout is located in this area, web reinforcement is required.



DOUBLE WEB

SECTION	6" X 33 MIL				6" X 43 MIL				6" X 54 MIL				6" X 68 MIL				6" X 97 MIL			
BEARING WIDTH (IN)->	1.5	2.5	3.5	4.5	1.5	2.5	3.5	4.5	1.5	2.5	3.5	4.5	1.5	2.5	3.5	4.5	1.5	2.5	3.5	4.5
END ONE FLANGE	0.867	0.982	1.075	1.155	1.357	1.523	1.658	1.775	2.996	3.339	3.618	3.859	4.434	4.907	5.291	5.623	8.226	9.007	9.642	10.190
INTERIOR ONE FLANGE	1.294	1.515	1.695	1.851	2.074	2.410	2.682	2.918	3.394	3.916	4.340	4.706	5.199	5.955	6.568	7.099	10.194	11.544	12.641	13.590
END TWO FLANGE	0.445	0.504	0.551	0.593	0.797	0.894	0.974	1.042	1.315	1.465	1.588	1.694	2.198	2.433	2.623	2.788	4.928	5.395	5.776	6.104
INTERIOR TWO FLANGE	1.086	1.272	1.423	1.554	1.874	2.177	2.424	2.637	2.973	3.430	3.801	4.122	4.745	5.434	5.995	6.479	9.613	10.885	11.920	12.814

SECTION	8" X 43 MIL				8" X 54 MIL				8" X 68 MIL				8" X 97 MIL			
BEARING WIDTH (IN)->	1.5	2.5	3.5	4.5	1.5	2.5	3.5	4.5	1.5	2.5	3.5	4.5	1.5	2.5	3.5	4.5
END ONE FLANGE	1.391	1.561	1.700	1.819	3.121	3.478	3.769	4.020	4.584	5.073	5.470	5.813	8.428	9.227	9.877	10.439
INTERIOR ONE FLANGE	2.074	2.410	2.682	2.918	3.394	3.916	4.340	4.706	5.199	5.955	6.568	7.099	10.194	11.544	12.641	13.590
END TWO FLANGE	0.748	0.839	0.914	0.978	1.253	1.396	1.513	1.613	2.118	2.344	2.527	2.686	4.806	5.262	5.632	5.953
INTERIOR TWO FLANGE	1.736	2.017	2.246	2.443	2.806	3.237	3.588	3.891	4.541	5.201	5.737	6.200	9.509	10.768	11.791	12.676

SECTION	10" X 54 MIL				10" X 68 MIL				10" X 97 MIL			
BEARING WIDTH (IN)->	1.5	2.5	3.5	4.5	1.5	2.5	3.5	4.5	1.5	2.5	3.5	4.5
END ONE FLANGE	3.169	3.532	3.827	4.082	4.734	5.239	5.649	6.003	8.629	9.448	10.113	10.689
INTERIOR ONE FLANGE	3.394	3.916	4.340	4.706	5.199	5.955	6.568	7.099	10.194	11.544	12.641	13.590
END TWO FLANGE	1.190	1.327	1.438	1.533	2.038	2.255	2.432	2.584	4.684	5.128	5.489	5.802
INTERIOR TWO FLANGE	2.640	3.045	3.375	3.660	4.337	4.967	5.479	5.922	9.225	10.446	11.439	12.297

DOUBLE WEB

SECTION	12" X 68 MIL				12" X 97 MIL				14" X 68 MIL				14" X 97 MIL				16" X 97 MIL			
BEARING WIDTH (IN)->	1.5	2.5	3.5	4.5	1.5	2.5	3.5	4.5	1.5	2.5	3.5	4.5	1.5	2.5	3.5	4.5	1.5	2.5	3.5	4.5
END ONE FLANGE	4.813	5.326	5.743	6.103	8.830	9.668	10.349	10.938	4.813	5.326	5.743	6.103	9.031	9.888	10.585	11.187	9.209	10.083	10.793	11.407
INTERIOR ONE FLANGE	5.199	5.955	6.568	7.099	10.194	11.544	12.641	13.590	5.199	5.955	6.568	7.099	10.194	11.544	12.641	13.590	10.194	11.544	12.641	13.590
END TWO FLANGE	1.958	2.166	2.336	2.483	4.562	4.994	5.346	5.650	1.877	2.078	2.240	2.381	4.439	4.861	5.203	5.499	4.317	4.727	5.060	5.348
INTERIOR TWO FLANGE	4.133	4.733	5.221	5.643	8.941	10.124	11.086	11.918	3.929	4.500	4.963	5.365	8.656	9.802	10.734	11.539	8.372	9.480	10.381	11.160

WEB CRIPPLING CAPACITIES
UNSTIFFENED WEB(S) SUBJECTED TO LOCAL FORCES
KIPS (1,000 LBS)

SINGLE WEB

SECTION	3-5/8"X 33 MIL				3-5/8"X 43 MIL				3-5/8"X 54 MIL				3-5/8"X 68 MIL				3-5/8"X 97 MIL			
BEARING WIDTH (IN)->	1.5	2.5	3.5	4.5	1.5	2.5	3.5	4.5	1.5	2.5	3.5	4.5	1.5	2.5	3.5	4.5	1.5	2.5	3.5	4.5
END ONE FLANGE	0.221	0.265	0.310	0.354	0.386	0.451	0.515	0.579	0.752	0.857	0.962	1.067	1.173	1.309	1.445	1.581	2.332	2.531	2.731	2.931
INTERIOR ONE FLANGE	0.373	0.442	0.533	0.624	0.634	0.714	0.825	0.951	1.323	1.461	1.596	1.813	2.072	2.250	2.427	2.609	4.145	4.403	4.662	4.921
END TWO FLANGE	0.153	0.184	0.214	0.245	0.272	0.318	0.363	0.408	0.536	0.611	0.686	0.761	0.843	0.941	1.038	1.136	1.691	1.836	1.981	2.126
INTERIOR TWO FLANGE	0.356	0.369	0.382	0.394	0.669	0.688	0.706	0.724	1.490	1.523	1.556	1.589	2.457	2.501	2.545	2.588	5.215	5.280	5.345	5.411

SECTION	4"X 33 MIL				4"X 43 MIL				4"X 54 MIL				4"X 68 MIL				4"X 97 MIL			
BEARING WIDTH (IN)->	1.5	2.5	3.5	4.5	1.5	2.5	3.5	4.5	1.5	2.5	3.5	4.5	1.5	2.5	3.5	4.5	1.5	2.5	3.5	4.5
END ONE FLANGE	0.215	0.259	0.302	0.345	0.380	0.443	0.506	0.569	0.742	0.845	0.949	1.052	1.161	1.295	1.429	1.564	2.315	2.513	2.712	2.910
INTERIOR ONE FLANGE	0.367	0.435	0.524	0.614	0.626	0.705	0.815	0.939	1.310	1.447	1.581	1.795	2.056	2.232	2.408	2.589	4.123	4.380	4.637	4.895
END TWO FLANGE	0.148	0.177	0.207	0.237	0.266	0.310	0.354	0.399	0.526	0.600	0.673	0.747	0.831	0.928	1.024	1.120	1.675	1.819	1.963	2.106
INTERIOR TWO FLANGE	0.340	0.352	0.365	0.377	0.648	0.666	0.684	0.702	1.455	1.487	1.519	1.552	2.414	2.457	2.499	2.542	5.153	5.217	5.282	5.347

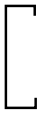
SECTION	6" X 33 MIL				6" X 43 MIL				6" X 54 MIL				6" X 68 MIL				6" X 97 MIL			
BEARING WIDTH (IN)->	1.5	2.5	3.5	4.5	1.5	2.5	3.5	4.5	1.5	2.5	3.5	4.5	1.5	2.5	3.5	4.5	1.5	2.5	3.5	4.5
END ONE FLANGE	0.187	0.224	0.262	0.299	0.343	0.400	0.457	0.514	0.687	0.783	0.879	0.974	1.094	1.221	1.348	1.475	2.225	2.416	2.607	2.797
INTERIOR ONE FLANGE	0.332	0.394	0.475	0.556	0.583	0.657	0.759	0.874	1.240	1.370	1.496	1.700	1.971	2.140	2.308	2.481	4.006	4.256	4.506	4.756
END TWO FLANGE	0.121	0.145	0.169	0.194	0.231	0.270	0.308	0.347	0.475	0.541	0.607	0.674	0.769	0.858	0.947	1.037	1.591	1.728	1.864	2.000
INTERIOR TWO FLANGE	0.255	0.265	0.274	0.283	0.537	0.552	0.566	0.581	1.269	1.297	1.325	1.353	2.181	2.220	2.258	2.297	4.823	4.884	4.944	5.005

SECTION	8" X 43 MIL				8" X 54 MIL				8" X 68 MIL				8" X 97 MIL			
BEARING WIDTH (IN)->	1.5	2.5	3.5	4.5	1.5	2.5	3.5	4.5	1.5	2.5	3.5	4.5	1.5	2.5	3.5	4.5
END ONE FLANGE	0.306	0.357	0.408	0.459	0.632	0.720	0.808	0.896	1.028	1.147	1.266	1.385	2.136	2.319	2.502	2.685
INTERIOR ONE FLANGE	0.540	0.608	0.703	0.809	1.170	1.292	1.412	1.604	1.886	2.047	2.209	2.374	3.889	4.132	4.374	4.617
END TWO FLANGE	0.197	0.230	0.263	0.295	0.423	0.482	0.541	0.600	0.707	0.789	0.871	0.953	1.507	1.636	1.765	1.895
INTERIOR TWO FLANGE	0.425	0.437	0.449	0.461	1.082	1.107	1.131	1.155	1.948	1.983	2.017	2.052	4.494	4.550	4.606	4.663

SECTION	9-1/4" X 54 MIL				9-1/4" X 68 MIL				9-1/4" X 97 MIL			
BEARING WIDTH (IN)->	1.5	2.5	3.5	4.5	1.5	2.5	3.5	4.5	1.5	2.5	3.5	4.5
END ONE FLANGE	0.597	0.681	0.764	0.848	0.987	1.101	1.215	1.330	2.080	2.258	2.436	2.614
INTERIOR ONE FLANGE	1.127	1.244	1.359	1.544	1.832	1.989	2.146	2.307	3.816	4.054	4.292	4.530
END TWO FLANGE	0.391	0.445	0.500	0.554	0.668	0.745	0.823	0.900	1.455	1.579	1.704	1.828
INTERIOR TWO FLANGE	0.966	0.988	1.009	1.030	1.802	1.834	1.866	1.898	4.288	4.341	4.395	4.449

SECTION	10" X 54 MIL				10" X 68 MIL				10" X 97 MIL			
BEARING WIDTH (IN)->	1.5	2.5	3.5	4.5	1.5	2.5	3.5	4.5	1.5	2.5	3.5	4.5
END ONE FLANGE	0.577	0.657	0.738	0.818	0.962	1.073	1.185	1.296	2.046	2.221	2.397	2.572
INTERIOR ONE FLANGE	1.100	1.215	1.327	1.508	1.801	1.955	2.109	2.267	3.772	4.007	4.243	4.478
END TWO FLANGE	0.371	0.423	0.475	0.527	0.645	0.719	0.794	0.869	1.423	1.545	1.667	1.789
INTERIOR TWO FLANGE	0.896	0.916	0.936	0.956	1.715	1.745	1.776	1.806	4.164	4.216	4.269	4.321

SINGLE WEB



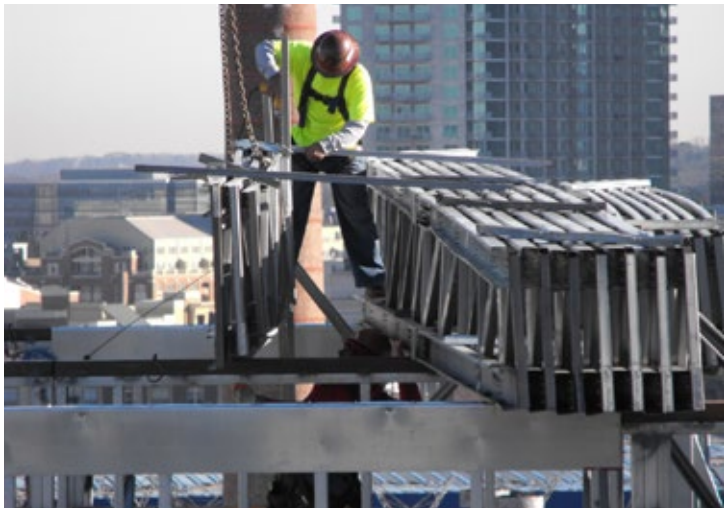
SECTION	11-1/4" X 54 MIL				11-1/4" X 68 MIL				11-1/4" X 97 MIL			
BEARING WIDTH (IN)->	1.5	2.5	3.5	4.5	1.5	2.5	3.5	4.5	1.5	2.5	3.5	4.5
END ONE FLANGE	0.536	0.610	0.685	0.760	0.912	1.018	1.123	1.229	1.979	2.148	2.318	2.488
INTERIOR ONE FLANGE	1.048	1.157	1.264	1.436	1.737	1.885	2.034	2.186	3.684	3.914	4.144	4.374
END TWO FLANGE	0.333	0.379	0.426	0.472	0.598	0.667	0.737	0.806	1.360	1.476	1.593	1.709
INTERIOR TWO FLANGE	0.757	0.773	0.790	0.807	1.540	1.568	1.595	1.622	3.917	3.966	4.015	4.064

SECTION	12" X 68 MIL				12" X 97 MIL				14" X 68 MIL				14" X 97 MIL				16" X 97 MIL			
BEARING WIDTH (IN)->	1.5	2.5	3.5	4.5	1.5	2.5	3.5	4.5	1.5	2.5	3.5	4.5	1.5	2.5	3.5	4.5	1.5	2.5	3.5	4.5
END ONE FLANGE	0.896	0.999	1.103	1.207	1.956	2.124	2.292	2.459	0.829	0.925	1.021	1.118	1.867	2.027	2.187	2.347	1.777	1.930	2.082	2.234
INTERIOR ONE FLANGE	1.715	1.862	2.009	2.159	3.655	3.883	4.111	4.339	1.630	1.769	1.909	2.052	3.538	3.759	3.980	4.200	3.421	3.635	3.848	4.061
END TWO FLANGE	0.582	0.650	0.717	0.785	1.339	1.454	1.568	1.683	0.520	0.581	0.641	0.701	1.255	1.362	1.470	1.577	1.170	1.271	1.371	1.471
INTERIOR TWO FLANGE	1.482	1.508	1.535	1.561	3.835	3.883	3.931	3.979	1.249	1.271	1.294	1.316	3.505	3.549	3.593	3.637	3.175	3.215	3.255	3.295

ROOF SYSTEMS

Super Stud can furnish engineered roof systems. Rafters and joists that are designed and engineered for your demanding project, precut, ready to assemble, that save time and money.

PRE-CUT & READY TO ASSEMBLE TRUSSES

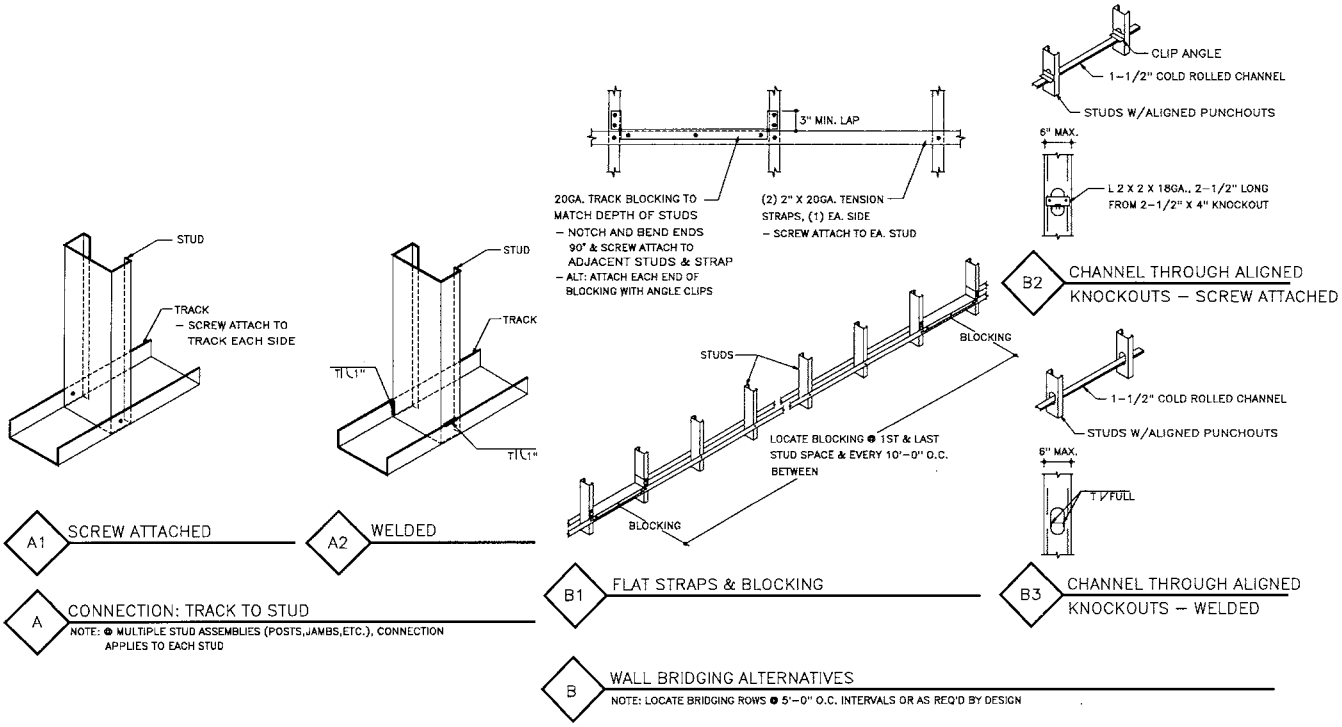


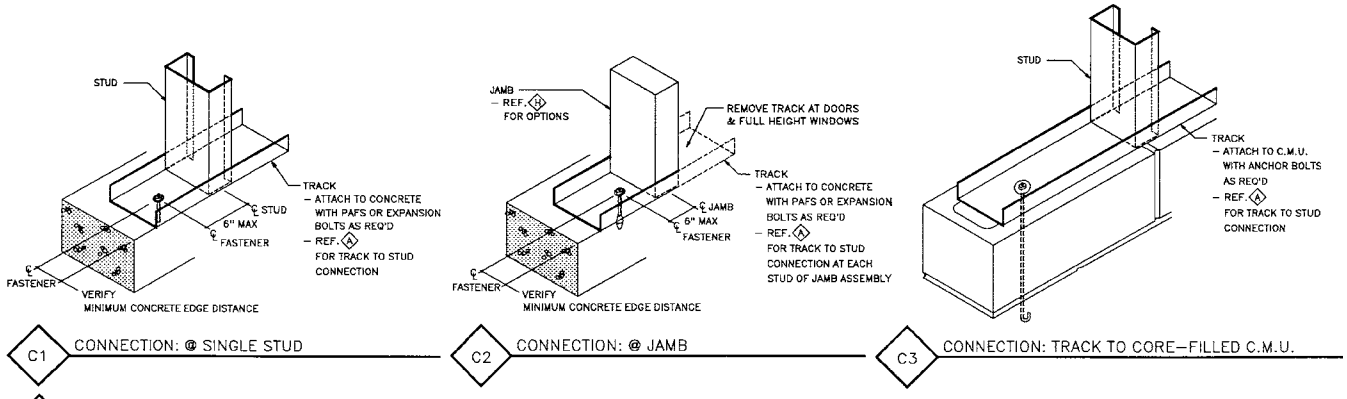
Ready to assemble custom made trusses. Our trusses are designed to have superior strength while minimizing the weight of the stud.

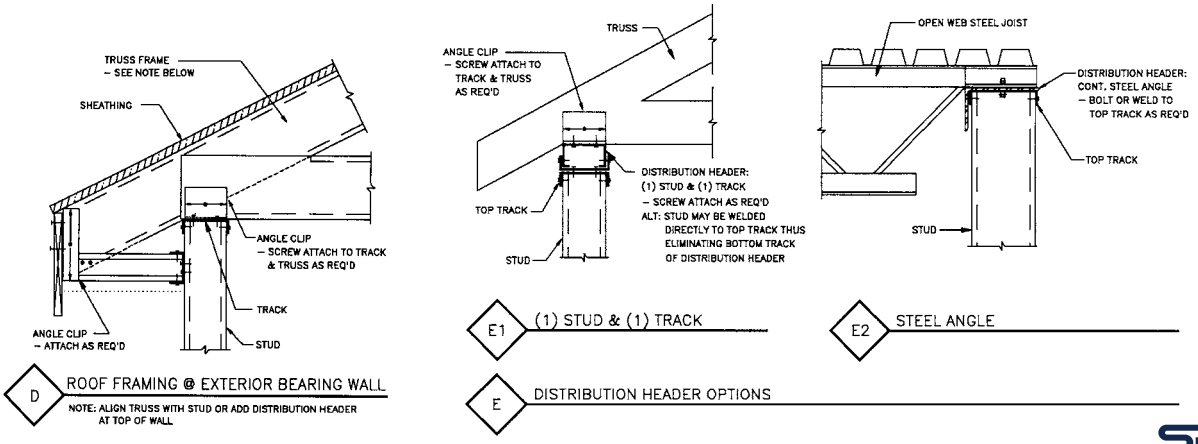
This system allows for material to get to your project quicker. These trusses can be assembled quickly on site & installed efficiently meeting today's difficult project deadlines.

FORWARD

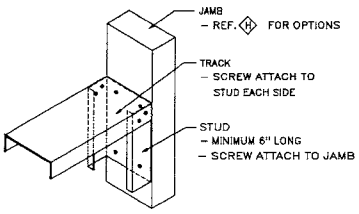
The framing connections shown herein are representative of typical construction practices. The user is cautioned to thoroughly evaluate the detail for specific performance and installation requirements. The details primarily show screw attachments between framing components. Welds, sized and spaced as required, may be substituted for screws.



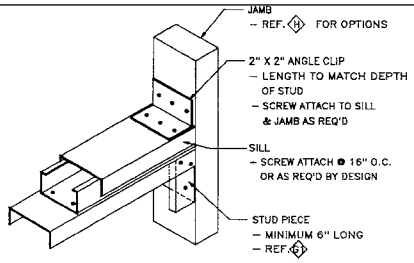




SUGGESTED CONNECTION DETAILS

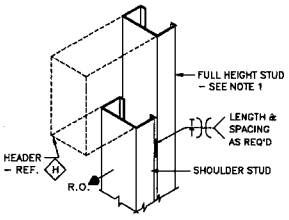


G1 SILL CONSTRUCTION (1) TRACK

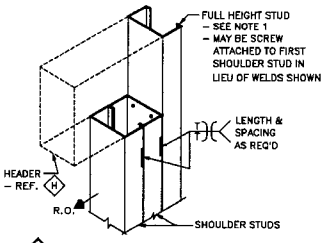


G2 SILL CONSTRUCTION (1) STUD & (2) TRACKS

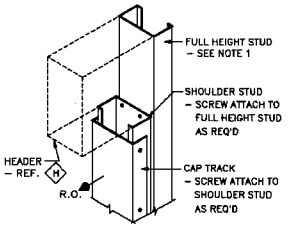
G SILL ASSEMBLIES

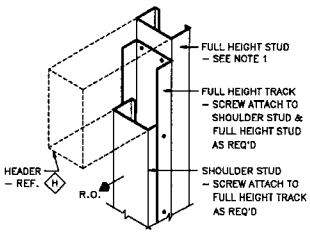


G1 (2) STUDS



G2 (3) STUDS

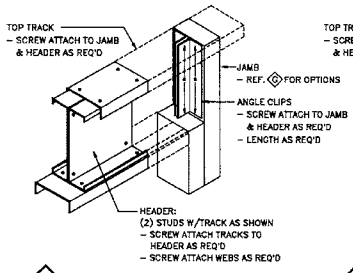




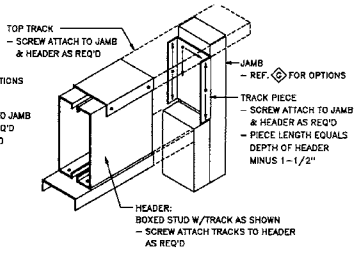
G3 (2) STUDS & (1) TRACK

G JAMB ASSEMBLIES

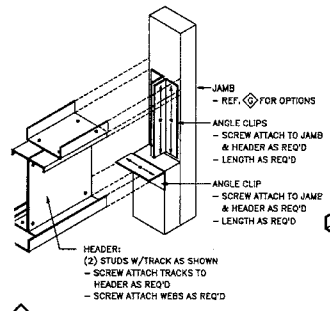
NOTE 1. EXTEND FULL HEIGHT STUD TO TOP OF WALL IF HEADER IS LOCATED DIRECTLY ABOVE OPENING (I.E. DROPPED HEADER). ADDITIONAL FULL HEIGHT STUDS MAY BE REQUIRED TO MEET STRESS AND/OR DEFLECTION REQUIREMENTS.



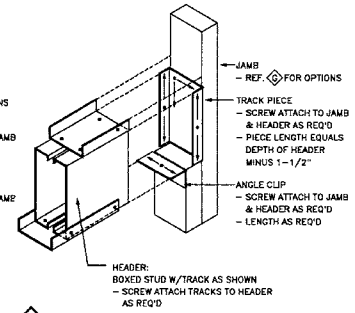
H1 "I" SHAPED HEADER @ TOP OF WALL



H2 BOXED HEADER @ TOP OF WALL

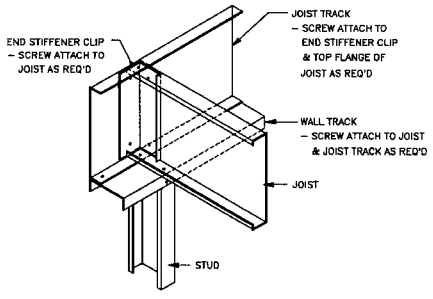


H3 "I" SHAPED HEADER ABOVE OPENING



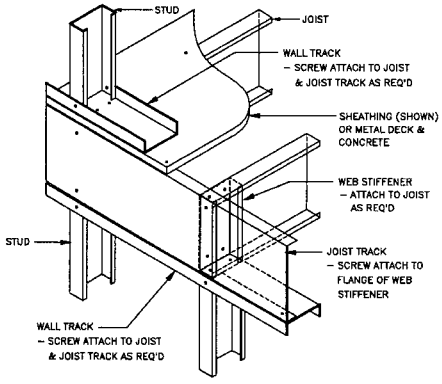
H4 BOXED HEADER ABOVE OPENING

H HEADER ASSEMBLIES



I1 WITH END STIFFENER CLIP

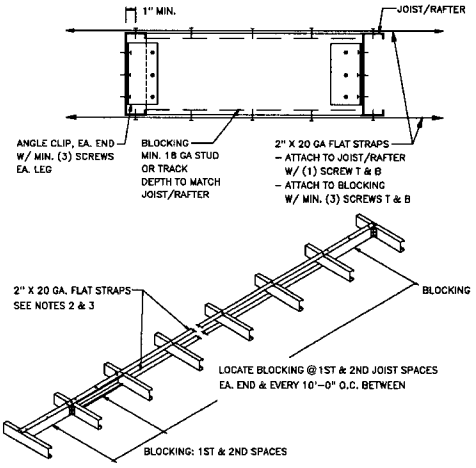
NOTE: ALIGN JOIST & STUD AS SHOWN. WHERE OFFSET IS ANTICIPATED, JOIST TRACK, SIZED AS REQUIRED, MAY BE USED TO TRANSFER JOIST REACTION



I2 WITH WEB STIFFENER

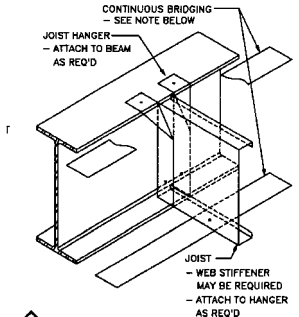
I JOIST END BEARING CONDITIONS

SUGGESTED CONNECTION DETAILS



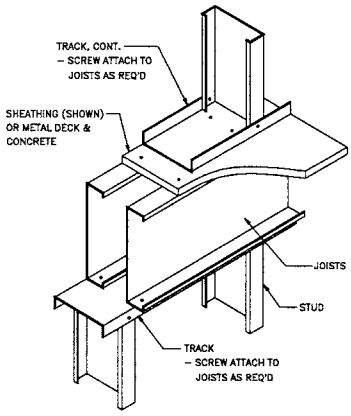
J JOIST OR RAFTER BRIDGING: FLAT STRAPS & BLOCKING

NOTES: 1. LOCATE BRIDGING ROWS @ 7'–0" O.C. INTERVALS OR AS REQ'D BY DESIGN
2. ATTACHMENT OF METAL DECK OR SHEATHING BEFORE LOADING ELIMINATES TOP STRAP
3. REPLACE BOTTOM STRAP WITH 1–1/2" CHANNEL IF CEILING BOARD IS NOT DIRECTLY ATTACHED TO JOIST OR RAFTER

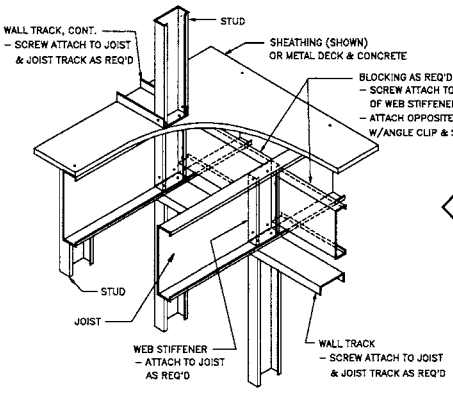


M JOIST HANGER TO STEEL BEAM

NOTE: INSTALL CONTINUOUS BRIDGING BETWEEN JOISTS. USE FLAT STRAP & BLOCKING (REF. DTL J) OR BLOCKING ONLY IN ALTERNATING JOIST SPACES. BRIDGING MAY BE ELIMINATED IF BOTTOM OF ASSEMBLY IS LATERALLY BRACED TO BEAM.

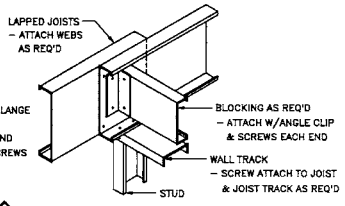


K JOISTS @ SIDE WALL



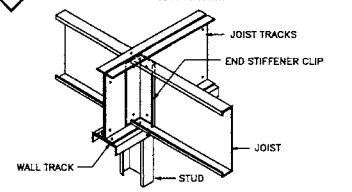
L1 CONTINUOUS JOISTS

NOTE: ALIGN JOIST & STUD AS SHOWN.



L2 LAPPED JOISTS

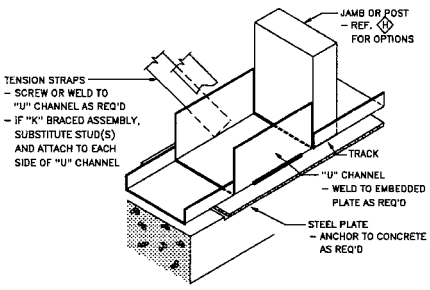
NOTE: ALIGN JOIST & STUD AS SHOWN.



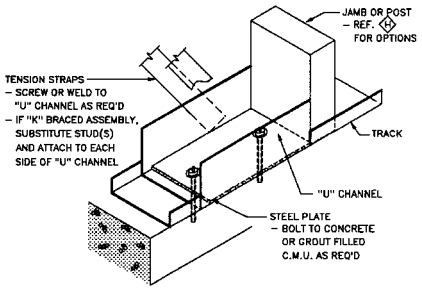
L3 ABUTTING JOISTS

NOTE: ALIGN JOIST AND STUD AS SHOWN. WHERE OFFSET IS ANTICIPATED, JOIST TRACK, SIZED AS REQUIRED, MAY BE USED TO TRANSFER JOIST REACTION.

L JOISTS OVER INTERIOR WALL

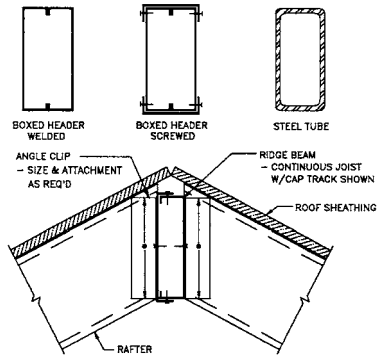


N1 WITH EMBEDDED STEEL PLATE



N2 WITH BOLTED STEEL PLATE

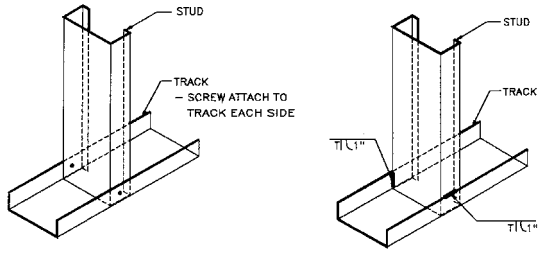
N SHEAR WALL BASE CONNECTIONS



O RAFTERS TO RIDGE BEAM

(4) BEAM ALTERNATIVES SHOWN

SUGGESTED CONNECTION DETAILS (CURTAIN WALL)

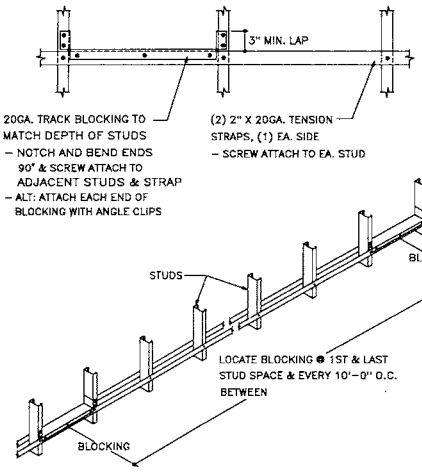


A1 SCREW ATTACHED

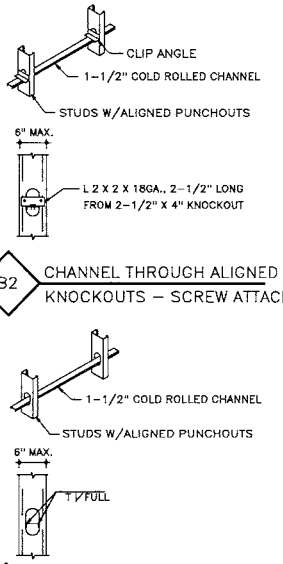
A2 WELDED

A CONNECTION: TRACK TO STUD

NOTE: ● MULTIPLE STUD ASSEMBLIES (POSTS,JAMBS,ETC.), CONNECTION APPLIES TO EACH STUD



B1 FLAT STRAPS & BLOCKING

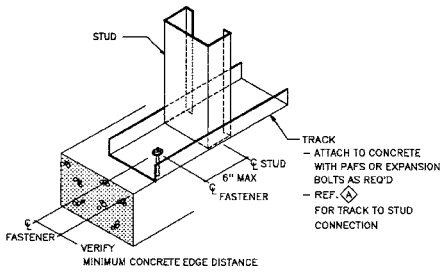


B2 CHANNEL THROUGH ALIGNED KNOCKOUTS – SCREW ATTACHED

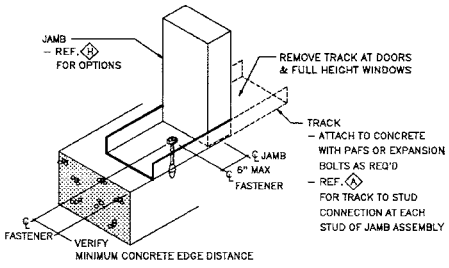
B3 CHANNEL THROUGH ALIGNED KNOCKOUTS – WELDED

B WALL BRIDGING ALTERNATIVES

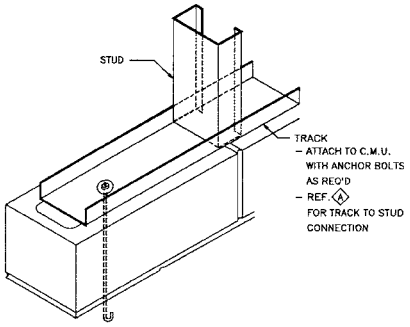
NOTE: LOCATE BRIDGING ROWS ● 5'–0" O.C. INTERVALS OR AS REQ'D BY DESIGN



C1 CONNECTION: @ SINGLE STUD

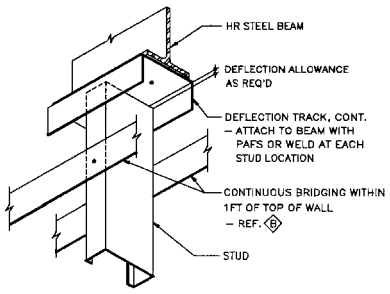


C2 CONNECTION: @ JAMB

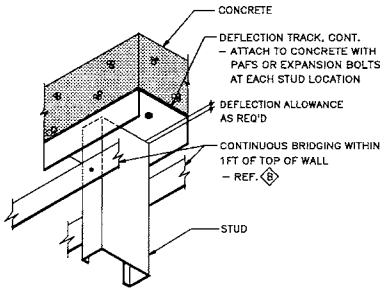


C3 CONNECTION: TRACK TO CORE–FILLED C.M.U.

C CONNECTION: TRACK TO CONCRETE & C.M.U.

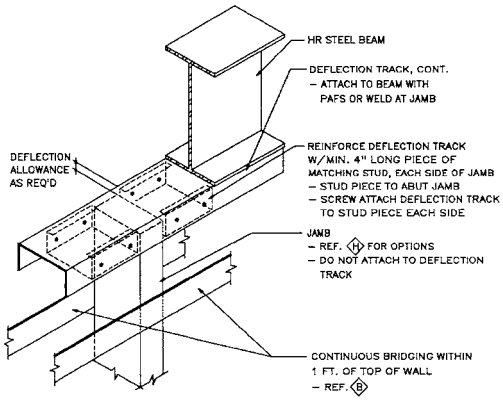


D CONNECTION: STUD @ DEFLECTION TRACK



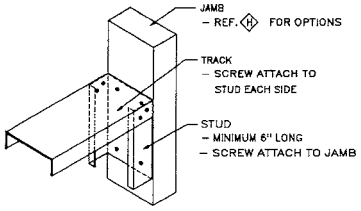
E CONNECTION: STUD @ DEFLECTION TRACK

SUGGESTED CONNECTION DETAILS (CURTAIN WALL)

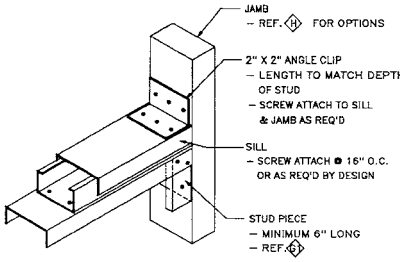


F CONNECTION: JAMB @ DEFLECTION TRACK

NOTE: CONNECTION SIMILAR TO CONCRETE. ALTER FASTENERS ACCORDINGLY. SEE E

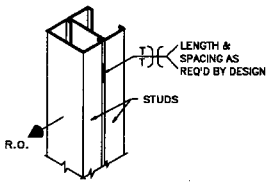


G1 SILL CONSTRUCTION (1) TRACK

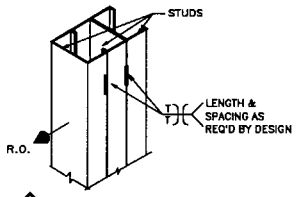


G2 SILL CONSTRUCTION (1) STUD & (2) TRACKS

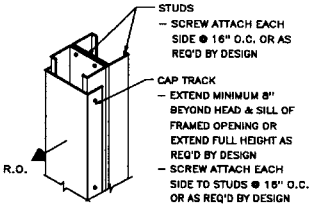
G SILL ASSEMBLIES



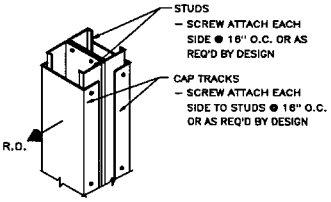
H1 WELDED (2) STUDS



H2 WELDED (3) STUDS

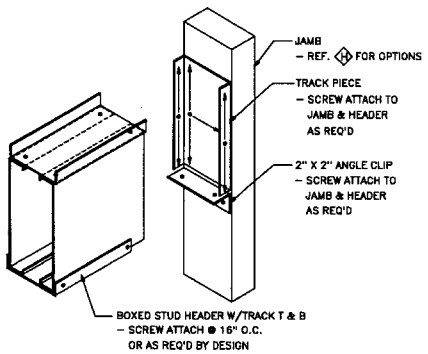


H3 SCREW ATTACHED (2) STUDS & (1) TRACK

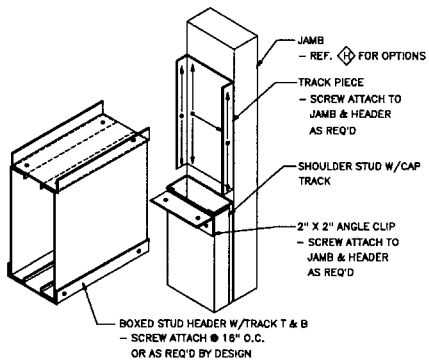


H4 SCREW ATTACHED (2) STUDS & (2) TRACKS

H JAMB ASSEMBLIES



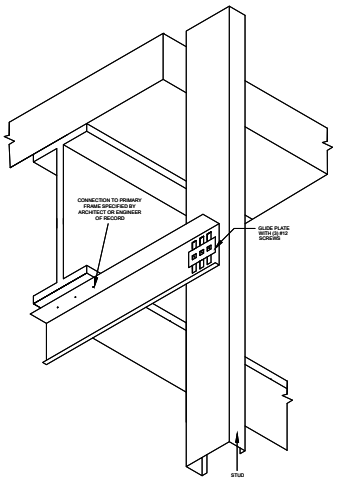
I1 HEADER FLUSH TO JAMB



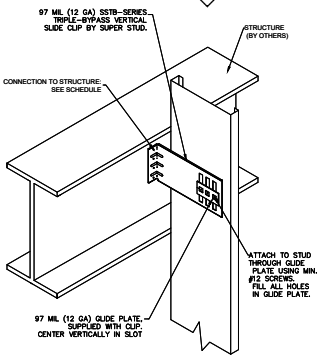
I2 HEADER TO JAMB WITH SHOULDER

I BOXED HEADER ASSEMBLIES

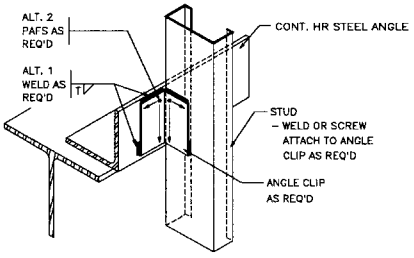
SUGGESTED CONNECTION DETAILS (CURTAIN WALL)



K CONNECTION: BYPASS SLIP TO BOTTOM-OF-BEAM

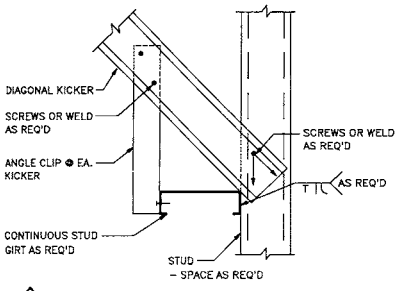


L1 CONNECTION: BYPASS SLIP TO SIDE-OF-BEAM

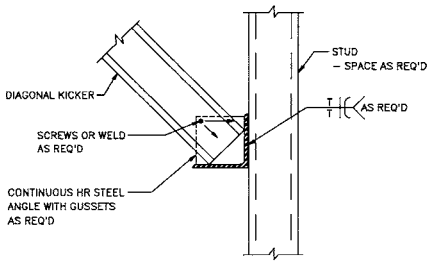


L2 TRANSITION WITH ANGLE CLIP

L CONNECTION: STUD TO CONTINUOUS ANGLE

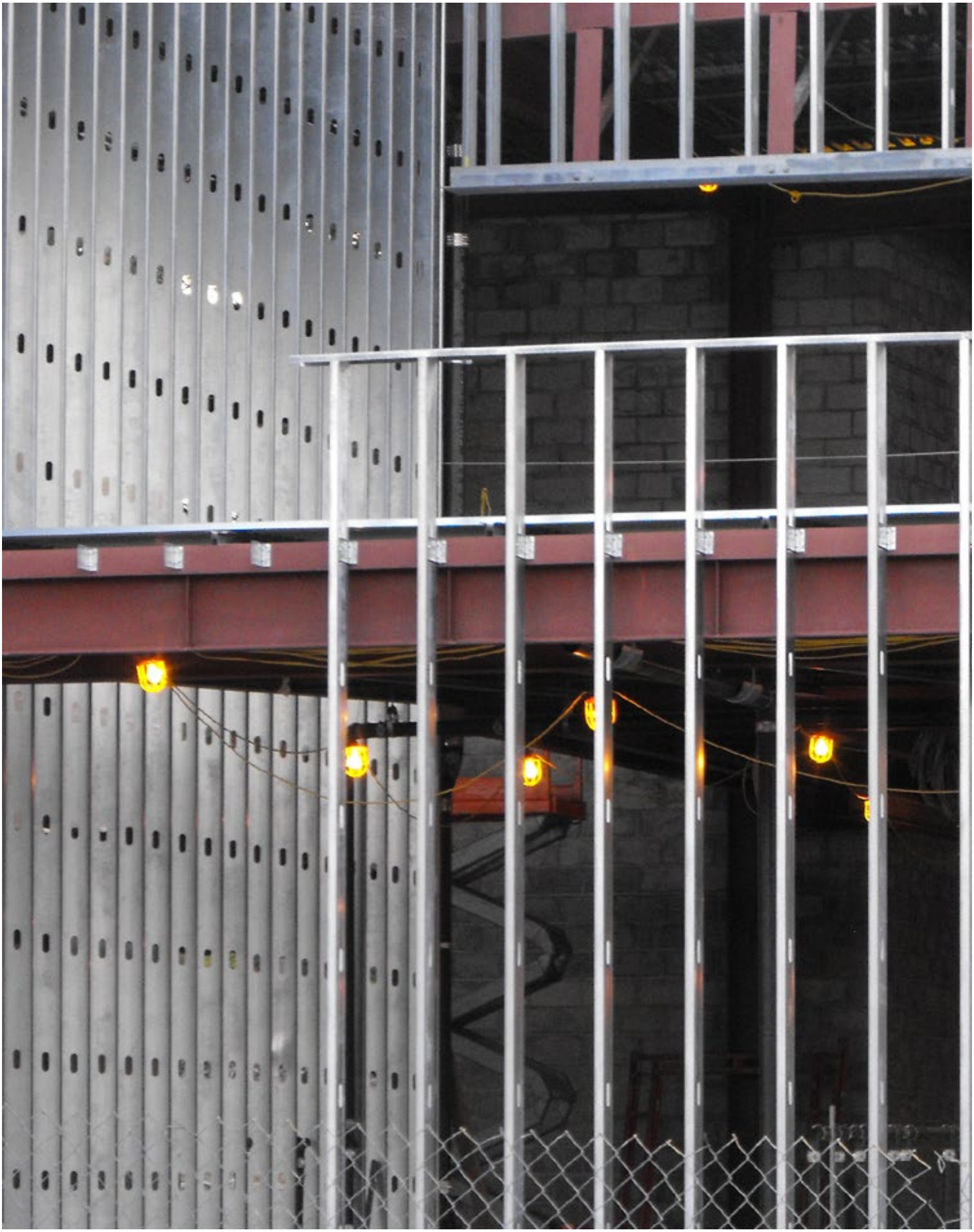


M1 CONNECTION: KICKER WITH STUD GIRT



M2 CONNECTION: KICKER WITH STEEL ANGLE GIRT

M WIND GIRT ALTERNATIVES



ALLOWABLE SCREW CONNECTION CAPACITIES

Allowable Screw Connection Capacity (Pounds per screw)													
Design Thickness	Thickness (Mils)1	Fy: Yield (KSI)	Fu (KSI)	#6 screw (0.138" dia; 1/4" head)		#8 screw (0.164" dia; 5/16" head)		#10 screw (0.190" dia; 0.340" head)		#12 screw (0.216" dia; 0.340" head)		1/4" screw (0.250" dia; 0.409" head)	
				shear	tension	shear	tension	shear	tension	shear	tension	shear	tension
0.019	18	33	33	44	24	48	29	52	33	55	38	60	44
0.031	30	33	33	95	40	103	48	111	55	118	63	127	73
0.035	33	33	45	151	61	164	72	177	84	188	95	203	110
0.045	43	33	45	214	79	244	94	263	109	280	124	302	144
0.057	54	33	45	214	84	303	118	370	137	394	156	424	180
0.071	68	33	45	214	84	303	118	406	159	525	196	600	227
0.102	97	33	45	214	84	303	118	406	159	525	205	704	275
0.124	118	33	45	214	84	303	118	406	159	525	205	704	275
Table below is for 50 KSI yield													
0.057	54	50	65	214	84	303	118	406	159	525	205	613	261
0.071	68	50	65	214	84	303	118	406	159	525	205	704	275
0.102	97	50	65	214	84	303	118	406	159	525	205	704	275
0.124	118	50	65	214	84	303	118	406	159	525	205	704	275

Screw Table Notes

1. Capacities based on section E4 of the AISI 2004 Specification. See table on page 8 for design thicknesses.
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.
3. Capacities are based on Allowable Strength Design (ASD) and include safety factor of 3.0.
4. Where multiple fasteners are used, screws are assumed to have a center-to-center spacing of at least 3 times the nominal diameter (d)
5. Screws are assumed to have a center-of-screw to edge-of-steel dimension of at least 1.5 times the nominal diameter (d) of the screw.
6. Tension capacity is based on the lesser of pullout capacity in sheet closest to screw tip, or pullover capacity for sheet closest to screw head (based on head diameter shown)
   Note that for all tension values shown in this table, pullover values have been reduced by 50% assuming eccentrically loaded connections that produce a non-uniform pull-over force on the fastener.
7. Values are for pure shear or tension loads. See AISI section E4.5 for combined shear and pull-over.
8. Higher values, especially for screw strength, may be obtained by specifying screws from a specific manufacturer. See manufacturer's data for specific allowable values and installation instructions.
9. 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.
10. *Screw capacity values indicated in magenta are governed by screw shank capacity, not by sheet steel failure.*

ALLOWABLE WELD CAPACITIES

Allowable Weld Capacity (Pounds) for 1” long welds							
Thickness (Mils)	Design Thickness	Fy: Yield (KSI)	Fu (KSI)	Fillet Welds		Flare Groove Welds	
				parallel	perpendicular	parallel	perpendicular
43	0.045	33	45	619	864	544	663
54	0.057	33	45	822	1,084	682	832
68	0.071	33	45	1,082	1,365	859	1,048
97	0.102	33	45	1,618	1,947	1,226	1,495
118	0.124	33	45	1,550	1,550	1,497	1,826
Table below is for 50 KSI yield							
54	0.057	50	65	1,188	1,566	985	1,202
68	0.071	50	65	1,563	1,972	1,241	1,514
97	0.102	50	65	2,337	2,813	1,771	2,159
118	0.124	50	65	1,550	1,550	2,162	2,637

Table Notes

1. Capacities based on section E2.4 (for fillet welds) and E2.5 (for flare groove welds) of the AISI Specification.
2. When connecting materials of different steel thicknesses or tensile strengths, use the lowest values.
3. Capacities are based on Allowable Strength Design (ASD) and include appropriate safety factors.
4. Weld capacities are based on either 3/32" or 1/8" diameter E60 or E70 electrodes.
   For thinner materials, 0.030" to 0.035" diameter wire electrodes may provide best results.
5. Parallel capacity is considered to be loading in the direction of the length of the weld.
6. For flare groove welds, the effective throat of weld is conservatively assumed to be less than 2t.

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The technical content of this literature is effective **08.16.2020** and supersedes all previous information.