

TM

SUPREME

STEEL FRAMING SYSTEM



TELLING



THE LEADER IN METAL FRAMING INNOVATION



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SUPREME STUD - BENEFITS OF SUPREME FRAMING SYSTEM™



A High Strength, High Performance Steel Drywall Framing System

The Supreme Framing System offers all the benefits of traditional flat steel studs and track. It consists of high strength metal framing with a design that achieves equal or better performance by using superior 57 ksi yield strength and thinner steel. The Supreme framing system is interchangeable with traditional framing components, with the same installation techniques as traditional framing components. No extra training or special fasteners are required for installation.

Knurl & Rib Technology

The stud and track system utilizes a knurled flange with a flat stud design. The knurling is designed to prevent screws from walking during wall board attachment.

Supreme is Certified

All inspections and testing for the Supreme Steel Framing System Association (SSFSA) are provided by a third-party certification agency where products are required to be audited to ensure consistent quality and compliance to ASTM C645, C955, IBC Codes, and AISI SI00-07 standards.

Stud and track products must be tested on an unannounced visit for coating weight, metal thickness and yield strength. The dimensional properties are also measured. All requirements must be satisfied in order to be certified code compliant. All members of the SSFSA must satisfy the requirements each time they are audited.

All certified Supreme Steel products are marked to show that it is third-party certified. The markings may be located on bundles or each framing member. The third-party certification marking guarantees to the contractor and owner that materials are high quality and code compliant.

- 2018, 2015, 2012 & 2009 International Building Code® (IBC)
- 2018, 2015 & 2012 International Residential Code® (IRC)
- 2017 Florida Building Code, Building (FBC Building)
- 2017 Florida Building Code, Residential (FBC Residential)
- Multiple UL approved fire-rated assemblies
- Excellent acoustical performance
- 57 ksi steel reduces screw stripping
- Fastens with sharp point screws (D25, D20 and 30EQD)
- Wider flanges available for screw placement
- Custom Press Brake Shapes

LEED Credits

- **MR Credit** - Building product disclosure and optimization - Environmental product declarations (1 point).
- **MR Credit** - Building product disclosure and optimization sourcing of raw materials (1 point).
- **MR Credit** - Construction and demolition waste management (Up to 2 points).
- **In Credit:** Innovation (up to 2 points).

Independent Product Certification

- Code Compliance - ICC Evaluation Services, LLC
- IAPMO Report UES-0313
- **Fire Testing** - Underwriters Laboratories, Inc.
 - **UL 263** – Standard for Fire Tests of Building Construction and Materials
- **Wall Designs in the UL Fire Resistance Directory:**
V438, V486, V496, V498, U411, U412, U419, U435, U465, U493
- **Sound Ratings** - Riverbank Acoustical Laboratories
- **Third-Party Testing** - Intertek/Architectural Testing Inc. (ATI)
- **Structural Testing** - STAR Laboratories
- **Structural Engineer** - DEVCO Engineering

Code Approvals, Performance Standards, and Product Certifications**AISI S100**

- AISI's "North American Specification for the Design of Cold-formed Steel Structural Members".

ASTM International:

- **A653** - Standard Specification for Steel Sheet, Zinc-Coated (Galvanized) by the Hot-Dip Process.
- **A1003** - Standard Specification for Steel Sheet, Carbon, and Metallic-Coated for Cold-Formed Framing Members.
- **C645** - Standard Specification for Non-Structural Steel Framing Members.
- **C754** - Standard Specification for Installation of Steel Framing Members to Receive Screw-Attached Gypsum Panel Products.
- **C955** - Standard Specification for Load-Bearing (Transverse and Axial) Steel Studs, Runners (Tracks), and Bracing or Bridging for Screw Application of Gypsum Panel Products and Metal Plaster Bases.
- **C1007** - Standard Specification for Installation of Load Bearing (Transverse and Axial) Steel Studs and Related Accessories.
- **E72** - Standard Test Methods of Conducting Strength Tests of Panels for Building Construction.
- **E90** - Standard Test Method for Laboratory Measurement of Airborne Sound Transmission Loss of Building Partitions and Elements.
- **E119** - Standard Test Methods for Fire Tests of Building Construction and Materials.



SUPREME STUD - TECHNICAL INFORMATION

Nomenclature Example

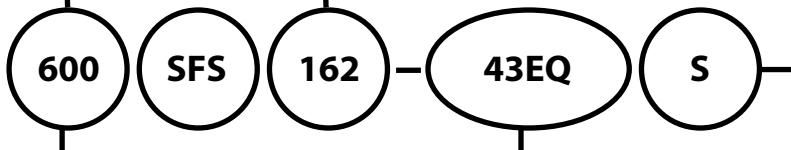
Supreme products have a four-part identification code that identifies the web depth, flange width, style, and mil thickness.

Member Web Depth

(Example: 6" = **600** x 1/100 inch)

All member depths are given in 1/100 inch.

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



Style

(Example: Supreme Framing Stud section = **SFS**)

Nomenclature uses the following characters to designate the profile:

SFS = Supreme Framing Stud

SFT = Supreme Framing Track Sections

F = Furring Channel Sections

TAT = True Action Slotted Track

ZF = Z=Furring

Flange Width

(Example: 1-5/8" = 1.625" = 162 x 1/200 inch)

All flange widths are given in 1/100 inch.

Thickness Designation

See Thickness Tables on page 5.

Design Type

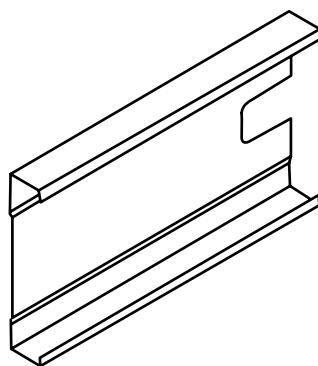
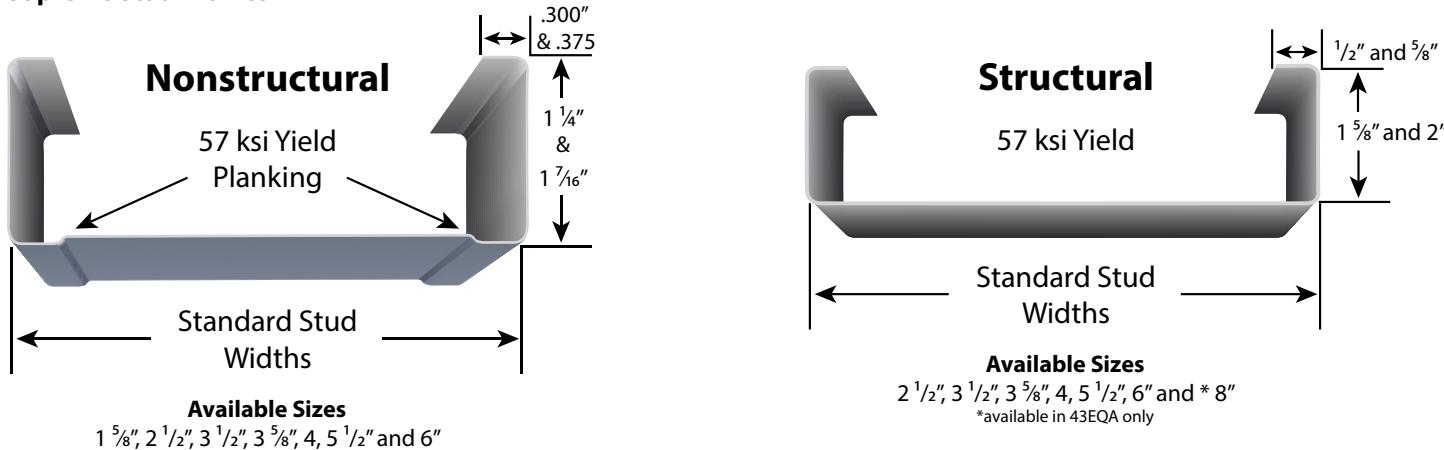
(Example: Structural section = **S**)

Nomenclature uses the following two characters:

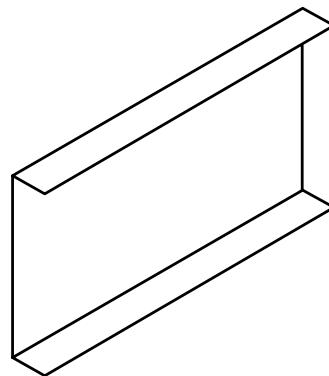
S = Structural studs and track

D = Drywall (Non-Structural) studs and track

Supreme Stud Profiles



"SFS" - C-Stud
Sections



"SFT" - Track
Sections



SUPREME STUD - PROPERTIES AND DATA

- The Supreme Steel Framing System has been successfully utilized in commercial construction for over a decade
- 2018, 2015 & 2012 International Building Code per IAPMO ER0313
- Florida Building Code 2017 approvals
- Multiple UL Designs for Fire Resistance Ratings per ANSI/UL263
- Acoustical Performance 3rd party testing per ASTM E90
- IAPMO Uniform ER0313 certified

Supreme Stud

Thickness Nomenclature	Min Base Metal Thickness (in)	Design Thickness (in)	Min Yield Strength (ksi)	Standard Galvanization	Web Sizes (in)	Stud Flange / Leg Sizes (in)	Track Flange / Leg Sizes (in)	Design Inside Corner Radii (in)
D25	0.0147"	0.0155"	50 or 57 ksi	G40	1-5/8", 2.5", 3.5", 3-5/8", 4", 5.5", 6"	1-1/4"	1-1/4" and 1-1/2"*	0.0860"
D20	0.0179"	0.0188"	57 ksi	G40	1-5/8", 2.5", 3.5", 3-5/8", 4", 5.5", 6"	1-1/4" and 1-7/16"	1-1/4" and 1-1/2"*, 2"*	0.0844"
30EQD	0.0223"	0.0235"	57 ksi	G40	1-5/8", 2.5", 3.5", 3-5/8", 4", 5.5", 6"	1-1/4" and 1-7/16"	1-1/4", 1-1/2" and 2"*	0.0820"

D = Drywall / Non Structural, S = Structural

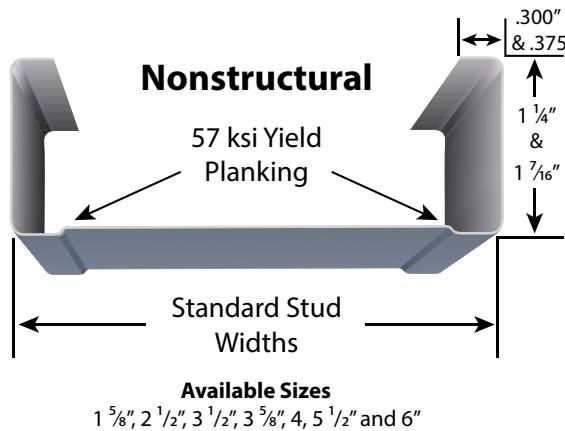
Higher galvanization available

* = Track height to weight ratio exceeds AISI S100 guidelines

Supreme Stud Stiffening Lip Length

Nomenclature	Flange/Leg (in)	Stiffening Lip Length (in)
SFS125-D25	1-1/4"	0.300"
SFS125-D20	1-1/4"	0.375"
SFS144	1-7/16"	0.375"
SFS162	1-5/8"	0.500"
SFS200	2"	0.625"

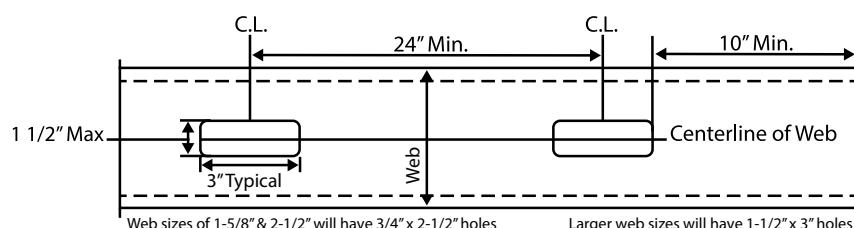
Supreme Stud Stiffening Lip Length remains constant with various web sizes



Supreme Deep Leg Track

Thickness Nomenclature	Min Base Metal Thickness (in)	Design Thickness (in)	Min Yield Strength (ksi)	Standard Galvanization	Track Web Sizes (in)	Track Flange / Leg Sizes (in)	Gap (in)
D20	0.0179"	0.0188"	57 ksi	G40	2.5", 3.5", 3-5/8", 4", 5.5", 6"	2", 2.5", 3"	2" leg = 1/2" gap 2.5" leg = 3/4" gap 3.0" leg = 1.0" gap
30EQD	0.0223"	0.0235"	57 ksi	G40	2.5", 3.5", 3-5/8", 4", 5.5", 6"	2", 2.5", 3"	

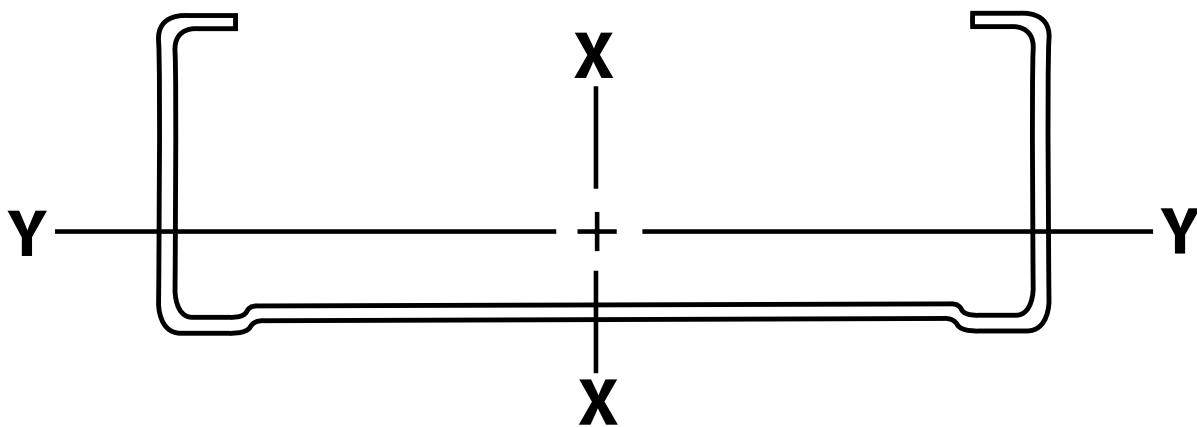
D = Drywall / Non Structural, S = Structural



SUPREME STUD - GENERAL NOTES FOR ALL TABLES

General Table Notes:

1. The values in this catalog are based on the 2007 edition of North American Specification for the Design of Cold-Formed Steel Structural Members, AISI S100-07 as referenced by 2009 International Building Code (IBC) and AISI S100-07 with Supplement S2-10 as referenced by 2012 IBC.
2. Where AISI S100 is referenced, it is the North American Specification for the Design of Cold-Formed Steel Structural Members, S100-07 and AISI S100-07 with Supplement S2-10, as applicable with U.S. provisions.
3. The structural properties included herein have been computed based on allowable strength design (ASD) method.
4. The effective moment of inertia for deflection is calculated at a stress that results in a section modulus such that the stress times the section modulus at that stress is equal to the allowable moment. AISI S100 Procedure I for serviceability determination has been used.
5. Distortional buckling calculations are based on $K\phi = 0$.
6. Conditions with loads that exceed the 10 psf limit for non-structural members require a G60 galvanized coating.
7. When provided, factory punch-outs will be located along the center line of the webs of the stud members and will have a minimum center-to-center spacing of 24". Punch-outs for members greater than 2 1/2" deep are a maximum of 1 1/2" wide x 4" long. Members with depths 2 1/2" and smaller are maximum 3/4" wide x 4 1/2" long. Any configuration or combination of holes that fit within the punch-out width and length limitations mentioned above shall be permitted; other punch-out configurations and locations not in compliance with limitations listed above must be approved by a design professional. Values herein are based on punch-out configuration and location as illustrated below.
8. The 10" end distance shown may be altered if calculations are in conformance with code.





SUPREME STUD - NON-STRUCTURAL & STRUCTURAL STUD SECTION PROPERTIES

Non-Structural Supreme Studs (SFS) - Section Properties

Part No.	Design Thickness (in)	Fy (ksi)	Area (in²)	Weight (lb/ft)	Gross Properties				Effective Properties						Torsional Properties							
					Ix (in⁴)	Sx (in³)	Rx (in)	Ly (in⁴)	Ry (in)	Ixe (in⁴)	Sxe (in³)	Mal (in-k)	Mad (in-k)	Vag (lb)	VaNet (lb)	Jx1000 (in⁴)	Cw (in⁶)	Xo (in)	m (in)	Ro (in)	B	Lu (in)
162SFS125-D25	0.0155	57	0.070	0.24	0.033	0.040	0.682	0.015	0.470	0.031	N/A	0.66	0.73	233	94	0.006	0.011	-1.127	0.651	1.399	0.351	24.4
162SFS125-D20	0.0188	57	0.087	0.30	0.040	0.049	0.675	0.020	0.480	0.037	0.035	1.21	1.20	397	131	0.010	0.016	-1.182	0.683	1.444	0.329	26.1
162SFS144-D20	0.0188	57	0.094	0.32	0.044	0.055	0.686	0.028	0.545	0.043	N/A	0.95	1.08	397	131	0.011	0.022	-1.365	0.779	1.622	0.292	29.1
162SFS125-30EQD	0.0235	57	0.109	0.37	0.049	0.060553846	0.673	0.025	0.478	0.048	0.047	1.60	1.56	621	162	0.020	0.020	-1.177	0.680	1.438	0.330	31.2
162SFS144-30EQD	0.0235	57	0.117	0.40	0.055	0.068	0.684	0.035	0.543	0.052	0.048	1.63	1.70	621	162	0.022	0.027	-1.359	0.776	1.616	0.292	29.0
250SFS125-D25	0.0155	57	0.083	0.28	0.086	0.068	1.015	0.018	0.465	0.079	N/A	1.26	1.16	144	133	0.007	0.025	-0.994	0.595	1.495	0.558	24.0
250SFS125-D20	0.0188	57	0.104	0.35	0.106	0.085	1.011	0.024	0.477	0.101	0.066	2.26	1.91	258	196	0.012	0.035	-1.045	0.625	1.530	0.534	25.1
250SFS144-D20	0.0188	57	0.111	0.38	0.117	0.093	1.027	0.033	0.545	0.112	N/A	1.75	1.72	258	196	0.013	0.049	-1.217	0.719	1.683	0.477	28.1
250SFS125-30EQD	0.0235	57	0.129	0.44	0.131	0.10512	1.009	0.029	0.475	0.128	0.088	2.99	2.50	505	306	0.024	0.043	-1.040	0.622	1.524	0.535	25.0
250SFS144-30EQD	0.0235	57	0.138	0.47	0.145	0.116	1.025	0.041	0.542	0.136	0.090	3.06	2.68	505	306	0.025	0.060	-1.212	0.716	1.677	0.478	28.0
350SFS125-D25 ²	0.0155	57	0.099	0.34	0.186	0.106	1.373	0.020	0.451	0.166	N/A	1.75	1.66	N/A	N/A	0.008	0.051	-0.880	0.543	1.692	0.730	23.6
350SFS125-D20	0.0188	57	0.123	0.42	0.231	0.132	1.372	0.026	0.464	0.222	0.083	2.82	2.73	180	159	0.014	0.070	-0.926	0.571	1.719	0.710	24.5
350SFS144-D20	0.0188	57	0.130	0.44	0.252	0.144	1.395	0.037	0.533	0.235	N/A	2.40	2.47	180	159	0.015	0.097	-1.088	0.662	1.847	0.653	27.6
350SFS125-30EQD	0.0235	57	0.153	0.52	0.286	0.164	1.370	0.033	0.462	0.286	0.110	3.77	3.56	351	248	0.028	0.086	-0.921	0.568	1.714	0.711	24.5
350SFS144-30EQD	0.0235	57	0.161	0.55	0.313	0.179	1.392	0.046	0.531	0.304	0.112	3.83	3.84	351	248	0.030	0.119	-1.083	0.659	1.842	0.655	27.6
362SFS125-D252	0.0155	57	0.101	0.34	0.202	0.112	1.416	0.020	0.449	0.180	N/A	1.84	1.72	N/A	N/A	0.008	0.055	-0.867	0.537	1.720	0.746	23.6
362SFS125-D20	0.0188	57	0.125	0.42	0.250	0.138	1.416	0.027	0.462	0.242	0.086	2.92	2.83	173	164	0.015	0.076	-0.914	0.565	1.747	0.727	24.5
362SFS144-D20	0.0188	57	0.132	0.45	0.273	0.151	1.439	0.037	0.531	0.254	N/A	2.52	2.56	173	164	0.016	0.104	-1.074	0.655	1.873	0.671	27.6
362SFS125-30EQD	0.0235	57	0.156	0.53	0.311	0.172	1.414	0.033	0.460	0.311	0.115	3.91	3.70	338	255	0.029	0.093	-0.909	0.562	1.742	0.728	24.4
362SFS144-30EQD	0.0235	57	0.164	0.56	0.339	0.187	1.437	0.046	0.529	0.331	0.116	3.97	3.98	338	155	0.030	0.128	-1.069	0.652	1.867	0.672	27.5
400SFS125-D252	0.0155	57	0.107	0.36	0.255	0.127	1.545	0.021	0.443	0.223	N/A	2.10	1.90	N/A	N/A	0.009	0.069	-0.833	0.521	1.810	0.788	23.4
400SFS125-D20	0.0188	57	0.132	0.45	0.315	0.158	1.546	0.028	0.457	0.306	0.095	3.24	3.14	156	156	0.016	0.093	-0.878	0.547	1.836	0.771	24.3
400SFS144-D20	0.0188	57	0.139	0.47	0.343	0.172	1.572	0.038	0.526	0.314	N/A	2.86	2.84	156	156	0.016	0.129	-1.034	0.637	1.954	0.720	27.5
400SFS125-30EQD	0.0235	57	0.164	0.56	0.392	0.196	1.544	0.034	0.454	0.392	0.127	4.34	4.11	305	275	0.030	0.115	-0.873	0.545	1.831	0.773	24.2
400SFS144-30EQD	0.0235	57	0.173	0.59	0.427	0.213	1.569	0.047	0.524	0.417	0.129	4.40	4.41	305	275	0.032	0.159	-1.029	0.634	1.949	0.721	27.4
550SFS125-D25 ²	0.0155	57	0.130	0.44	0.543	0.198	2.045	0.023	0.419							0.010	0.140	-0.715	0.470	2.207	0.900	
550SFS125-D20 ¹	0.0188	57	0.160	0.55	0.673	0.245	2.050	0.030	0.433							0.019	0.188	-0.761	0.489	2.229	0.883	N/A
550SFS144-D20 ²	0.0188	57	0.167	0.57	0.726	0.264	2.084	0.042	0.502							0.020	0.259	-0.904	0.574	2.327	0.894	
550SFS125-30EQD ²	0.0235	57	0.200	0.68	0.837	0.304	2.048	0.037	0.431	0.788	0.197	6.73	5.67	218	218	0.037	0.231	-0.757	0.487	2.225	0.884	23.7
550SFS144-30EQD ²	0.0235	57	0.208	0.71	0.903	0.328	2.081	0.052	0.500	0.896	0.204	6.97	6.09	218	218	0.038	0.320	-0.900	0.571	2.322	0.850	26.9
600SFS125-D25 ¹	0.0155	57	0.138	0.47	0.670	0.223	2.207	0.023	0.411							0.011	0.170	-0.685	0.450	2.347	0.920	N/A
600SFS125-D20 ¹	0.0188	57	0.169	0.58	0.830	0.277	2.214	0.031	0.425							0.020	0.228	-0.730	0.473	2.369	0.905	N/A
600SFS144-D20 ¹	0.0188	57	0.177	0.60	0.894	0.298	2.250	0.043	0.494							0.021	0.314	-0.869	0.556	2.462	0.875	N/A
600SFS125-30EQD ²	0.0235	57	0.211	0.72	1.033	0.344	2.211	0.038	0.423	0.959	0.216	7.37	6.14	200	200	0.039	0.281	-0.725	0.470	2.365	0.906	23.5
600SFS144-30EQD ²	0.0235	57	0.220	0.75	1.112	0.371	2.247	0.053	0.492	0.976	0.219	7.46	6.60	200	200	0.041	0.388	-0.864	0.553	2.457	0.876	26.7

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

2. Web height-to-thickness ratio exceeds 260. Section is not in compliance with AISI S100 Section 81, but may be used in accordance with SSFSA's published composite wall data for these members.

SUPREME STUD - NON-STRUCTURAL & STRUCTURAL TRACK SECTION PROPERTIES

Supreme Track (SFT) - Section Properties

Section	Design Thickness (in)	Fy (ksi)	Gross Properties								Effective Properties				Torsional Properties				
			Area (in ²)	Weight (lb/ft)	Ix (in ⁴)	Sx (in ³)	Rx (in)	Ly (in ⁴)	Ry (in)	Ixe (in ⁴)	Sxe (in ²)	Ma (in-k)	Vag (lb)	Jx1000 in ⁴	Cw (in ⁶)	Xo (in)	m (in)	Ro (in)	B
162SFT125-D25	0.0155	57	0.064	0.22	0.034	0.042	0.733	0.011	0.412	0.022	N/A	0.37	215	0.005	0.006	-0.878	0.504	1.216	0.478
162SFT125-D20	0.0188	57	0.077	0.26	0.042	0.048	0.733	0.013	0.411	0.029	0.023	0.79	394	0.009	0.007	-0.878	0.503	1.215	0.478
162SFT125-30EQD	0.0235	57	0.097	0.33	0.052	0.060	0.734	0.016	0.410	0.038	0.031	1.06	621	0.018	0.009	-0.874	0.502	1.213	0.481
162SFT150-D25	0.0155	57	0.072	0.24	0.040	0.046	0.748	0.018	0.497					0.006	0.010	-1.107	0.626	1.425	0.397
162SFT150-D20	0.0188	57	0.087	0.30	0.049	0.056	0.749	0.021	0.496	-	-	-	-	0.010	0.012	-1.105	0.625	1.424	0.398
162SFT150-30EQD	0.0235	57	0.109	0.37	0.061	0.070	0.749	0.027	0.496	0.041	0.032	1.09	621	0.020	0.014	-1.102	0.623	1.422	0.399
162SFT200-D20	0.0188	57	0.106	0.36	0.063	0.072	0.770	0.046	0.662	-	-	-	-	0.013	0.026	-1.574	0.869	1.873	0.294
162SFT200-30EQD	0.0235	57	0.132	0.45	0.079	0.090	0.771	0.058	0.661	-	-	-	-	0.024	0.032	-1.571	0.868	1.871	0.295
162SFT250-D20	0.0188	57	0.125	0.42	0.077	0.088	0.785	0.085	0.823	-	-	-	-	0.015	0.047	-2.052	1.116	2.346	0.235
162SFT250-30EQD	0.0235	57	0.156	0.53	0.096	0.110	0.786	0.105	0.823	-	-	-	-	0.029	0.059	-2.049	1.115	2.344	0.236
162SFT300-30EQD	0.0235	57	0.179	0.61	0.114	0.130	0.797	0.172	0.980	-	-	-	-	0.033	0.099	-2.534	1.363	2.831	0.199
250SFT125-D25	0.0155	57	0.078	0.26	0.086	0.069	1.051	0.012	0.400	0.054	N/A	0.61	137	0.006	0.015	-0.769	0.460	1.363	0.682
250SFT125-D20	0.0188	57	0.094	0.32	0.104	0.079	1.051	0.015	0.400	0.078	0.036	1.23	249	0.011	0.018	-0.769	0.460	1.362	0.681
250SFT125-30EQD	0.0235	57	0.118	0.40	0.130	0.099	1.052	0.019	0.399	0.100	0.053	1.80	478	0.022	0.023	-0.765	0.458	1.361	0.684
250SFT150-D2	0.0155	57	0.085	0.29	0.099	0.075	1.076	0.020	0.488					0.007	0.024	-0.983	0.578	1.537	0.591
250SFT150-D20	0.0188	57	0.104	0.35	0.120	0.092	1.077	0.025	0.488	-	-	-	-	0.012	0.030	-0.981	0.577	1.536	0.592
250SFT150-30EQD	0.0235	57	0.129	0.44	0.150	0.114	1.077	0.031	0.487	0.108	0.052	1.79	478	0.024	0.037	-0.979	0.576	1.535	0.593
250SFT200-D20	0.0188	57	0.122	0.42	0.152	0.116	1.114	0.053	0.661	-	-	-	-	0.014	0.064	-1.427	0.882	1.927	0.452
250SFT200-30EQD	0.0235	57	0.153	0.52	0.190	0.144	1.115	0.067	0.660	-	-	-	-	0.028	0.080	-1.424	0.816	1.926	0.453
250SFT250-D20	0.0188	57	0.141	0.48	0.184	0.140	1.141	0.097	0.830	-	-	-	-	0.017	0.119	-1.887	1.061	2.356	0.359
250SFT250-30EQD	0.0235	57	0.176	0.60	0.230	0.175	1.142	0.121	0.829	-	-	-	-	0.033	0.148	-1.885	1.059	2.355	0.359
250SFT300-D20	0.0188	57	0.160	0.54	0.216	0.164	1.610	0.158	0.995	-	-	-	-	0.019	0.196	-2.358	1.306	2.810	0.296
250SFT300-30EQD	0.0235	57	0.200	0.68	0.270	0.205	1.162	0.198	0.994	-	-	-	-	0.037	0.245	-2.355	1.305	2.808	0.297
350SFT125-D25	0.0155	57	0.093	0.32	0.181	0.103	1.395	0.014	0.383	0.114	N/A	0.91	N/A	0.007	0.032	-0.676	0.419	1.597	0.821
350SFT125-D20	0.0188	57	0.113	0.38	0.219	0.121	1.394	0.017	0.383	0.173	0.051	1.73	175	0.013	0.038	-6.750	0.418	1.595	0.821
350SFT125-30EQD	0.0235	57	0.141	0.48	0.275	0.151	1.396	0.021	0.381	0.221	0.074	2.51	338	0.026	0.048	-0.673	0.417	1.595	0.822
350SFT150-D25	0.0155	57	0.101	0.34	0.206	0.114	1.430	0.023	0.472					0.008	0.052	-0.875	0.532	1.742	0.748
350SFT150-D20	0.0188	57	0.122	0.42	0.250	0.138	1.431	0.027	0.472	-	-	-	-	0.014	0.063	-0.873	0.531	1.741	0.749
350SFT150-30EQD	0.0235	57	0.153	0.52	0.313	0.172	1.431	0.034	0.471	0.238	0.074	2.51	338	0.028	0.078	-0.871	0.530	1.740	0.749
350SFT200-D20	0.0188	57	0.141	0.48	0.311	0.172	1.485	0.060	0.649	-	-	-	-	0.017	0.136	-1.293	0.765	2.073	0.611
350SFT200-30EQD	0.0235	57	0.176	0.60	0.389	0.215	1.486	0.074	0.649	-	-	-	-	0.033	0.170	-1.291	0.763	2.072	0.612
350SFT250-D20	0.0188	57	0.160	0.54	0.372	0.206	1.526	0.109	0.824	-	-	-	-	0.019	0.249	-1.733	1.003	2.452	0.500
350SFT250-30EQD	0.0235	57	0.200	0.68	0.466	0.257	1.527	0.135	0.823	-	-	-	-	0.037	0.311	-1.731	1.002	2.450	0.501
350SFT300-D20	0.0188	57	0.179	0.61	0.433	0.239	1.557	0.177	0.995	-	-	-	-	0.021	0.409	-2.186	1.245	2.863	0.417
350SFT300-30EQD	0.0235	57	0.223	0.76	0.542	0.299	1.558	0.221	0.994	-	-	-	-	0.041	0.510	-2.184	1.244	2.861	0.417
362SFT125-D25	0.0155	57	0.095	0.32	0.196	0.108	1.437	0.014	0.381	0.123	N/A	0.95	N/A	0.008	0.034	-0.666	0.414	1.629	0.833
362SFT125-D20	0.0188	57	0.115	0.39	0.237	0.126	1.436	0.017	0.380	0.188	0.053	1.80	169	0.014	0.042	-0.665	0.413	1.627	0.833
362SFT125-30EQD	0.0235	57	0.144	0.49	0.297	0.158	1.437	0.021	0.379	0.240	0.076	2.60	326	0.027	0.052	-0.663	0.412	1.628	0.834
362SFT150-D25	0.0155	57	0.103	0.35	0.223	0.119	1.473	0.023	0.470					0.008	0.056	-0.863	0.527	1.771	0.763
362SFT150-D20	0.0188	57	0.125	0.42	0.271	0.144	1.474	0.028	0.470	-	-	-	-	0.015	0.067	-0.861	0.526	1.770	0.763
362SFT150-30EQD	0.0235	57	0.156	0.53	0.338	0.180	1.474	0.034	0.469	0.258	0.076	2.60	326	0.029	0.085	-0.859	0.525	1.769	0.764
362SFT200-D20	0.0188	57	0.143	0.49	0.336	0.179	1.530	0.060	0.648	-	-	-	-	0.017	0.147	-1.278	0.759	2.096	0.628
362SFT200-30EQD	0.0235	57	0.179	0.61	0.420	0.224	1.531	0.075	0.647	-	-	-	-	0.033	0.184	-1.276	0.758	2.095	0.629
362SFT250-D20	0.0188	57	0.162	0.55	0.401	0.214	1.573	0.110	0.823	-	-	-	-	0.019	0.269	-1.716	0.997	2.469	0.517
362SFT250-30EQD	0.0235	57	0.203	0.69	0.502	0.267	1.573	0.137	0.822	-	-	-	-	0.037	0.336	-1.713	0.995	2.467	0.518

- Web height-to-thickness ratio exceeds 200. Web stiffeners are required at all support points and concentrated loads.
- Web height-to-thickness ratio exceeds 260 or flange width-to-thickness ratio exceeds 60. Section is not in compliance with AISI S100 Section B1, so effective properties are not provided.

Table Notes

- The centerline bend radius is based on inside corner radii shown in the steel thickness table.
- Effective properties incorporate the strength increase from the cold work of forming as applicable per AISI S100 Section A7.2.
- For deflection calculations, use the effective moment of inertia.
- Tabulated gross properties are based on the full unreduced cross section of the studs away from punch-outs.
- Allowable moment is the lesser of M_{al} and M_{ad} . Stud distortional buckling is based on an assumed $K\psi = 0$.
- See page 6 for additional general table notes.



SUPREME STUD - NON-STRUCTURAL & STRUCTURAL TRACK SECTION PROPERTIES

Supreme Track (SFT) - Section Properties

Section	Design Thickness (in)	Fy (ksi)	Gross Properties						Effective Properties					Torsional Properties						
			Area (in ²)	Weight (lb/ft)	I _x (in ⁴)	S _x (in ³)	R _x (in)	I _y (in ⁴)	R _y (in)	I _{xe} (in ⁴)	S _{xe} (in ³)	M _a (in-k)	V _{ag} (lb)	J _{x1000 in⁴}	C _w (in ⁶)	X _o (in)	m (in)	R _o (in)	B	
362SFT300-D20	0.0188	57	0.181	0.62	0.467	0.249	1.605	0.179	0.994	-	-	-	-	-	0.021	0.442	-2.167	1.238	2.874	0.432
362SFT300-30EQD	0.0235	57	0.226	0.77	0.584	0.311	1.606	0.223	0.994	-	-	-	-	-	0.042	0.552	-2.165	1.237	2.873	0.432
400SFT125-D252	0.0155	57	0.101	0.34	0.246	0.123	1.561	0.014	0.374	0.153	N/A	1.08	N/A	0.008	0.043	-0.638	0.401	1.728	0.864	
400SFT125-D202	0.0188	57	0.122	0.42	0.297	0.144	1.560	0.017	0.374	0.239	0.058	1.98	153	0.014	0.052	-0.637	0.400	1.726	0.864	
400SFT125-30EQD	0.0235	57	0.153	0.52	0.373	0.181	1.562	0.021	0.373	0.305	0.084	2.87	295	0.028	0.065	-0.635	0.399	1.727	0.865	
400SFT150-D252	0.0155	57	0.101	0.43	0.246	0.119	1.561	0.014	0.374	0.153		1.08		0.008	0.043	-0.640	0.400	1.730	0.860	
400SFT150-D202	0.0188	57	0.132	0.45	0.338	0.164	1.601	0.028	0.463	-	-	-	-	0.016	0.085	-0.828	0.511	1.861	0.802	
400SFT150-30EQD	0.0235	57	0.153	0.52	0.373	0.181	1.562	0.021	0.373	0.305	0.084	2.87	295	0.028	0.065	-0.635	0.399	1.727	0.865	
400SFT200-D202	0.0188	57	0.151	0.51	0.417	0.202	1.664	0.062	0.642	-	-	-	-	0.018	0.184	-1.236	0.741	2.170	0.676	
400SFT200-30EQD	0.0235	57	0.188	0.64	0.521	0.253	1.665	0.077	0.641	-	-	-	-	0.035	0.229	-1.234	0.740	2.169	0.676	
400SFT250-D20	0.0188	57	0.169	0.58	0.496	0.241	1.712	0.113	0.818	-	-	-	-	0.020	0.335	-1.666	0.977	2.525	0.565	
400SFT250-30EQD	0.0235	57	0.212	0.72	0.620	0.300	1.712	0.141	0.817	-	-	-	-	0.039	0.419	-1.664	0.976	2.523	0.565	
400SFT300-D20	0.0188	57	0.188	0.64	0.575	0.279	1.749	0.185	0.991	-	-	-	-	0.022	0.550	-2.111	1.217	2.915	0.475	
400SFT300-30EQD	0.0235	57	0.235	0.80	0.719	0.348	1.749	0.231	0.991	-	-	-	-	0.043	0.687	-2.109	1.216	2.913	0.476	
550SFT125-D252	0.0155	57	0.124	0.42	0.519	0.185	2.046	0.015	0.350					0.010	0.089	-0.548	0.355	2.146	0.935	
550SFT125-D201	0.0188	57	0.150	0.51	0.630	0.224	2.046	0.018	0.349	See note 1 below				0.018	0.108	-0.546	0.354	2.146	0.935	
550SFT125-30EQD2	0.0235	57	0.188	0.64	0.787	0.280	2.046	0.023	0.348	0.568	0.113	3.99	213	0.035	0.134	-0.545	0.353	2.146	0.936	
550SFT150-D252	0.0155	57	0.132	0.45	0.580	0.207	2.098	0.025	0.438					0.011	0.145	-0.721	0.459	2.261	0.898	
550SFT150-D201	0.0188	57	0.160	0.54	0.703	0.250	2.098	0.031	0.437	See note 1 below				0.019	0.176	-0.720	0.458	2.260	0.899	
550SFT150-30EQD2	0.0235	57	0.200	0.68	0.879	0.312	2.098	0.038	0.437	0.653	0.116	3.97	213	0.037	0.219	-0.718	0.457	2.260	0.899	
550SFT200-D201	0.0188	57	0.179	0.61	0.851	0.303	2.182	0.068	0.616	See note 1 below				0.021	0.380	-1.095	0.677	2.518	0.811	
550SFT200-30EQD2	0.0235	57	0.223	0.76	1.064	0.378	2.183	0.085	0.615	-	-	-	-	0.041	0.474	-1.093	0.676	2.517	0.812	
550SFT250-D20	0.0188	57	0.198	0.67	0.999	0.355	2.249	0.125	0.795	-	-	-	-	0.023	0.691	-1.496	0.906	2.816	0.718	
550SFT250-30EQD	0.0235	57	0.247	0.84	1.249	0.444	2.249	0.156	0.794	-	-	-	-	0.045	0.862	-1.494	0.905	2.815	0.718	
550SFT300-D20	0.0188	57	0.216	0.74	1.146	0.408	2.302	0.205	0.972	-	-	-	-	0.026	1.127	-1.917	1.139	3.150	0.630	
550SFT300-30EQD	0.0235	57	0.270	0.92	1.433	0.509	2.303	0.255	0.972	-	-	-	-	0.050	1.408	-1.915	1.138	3.148	0.630	
600SFT125-D251	0.0155	57	0.132	0.45	0.640	0.213	2.203	0.015	0.342	See note 1 below				0.011	0.108	-0.523	0.342	2.290	0.948	
600SFT125-D201	0.0235	57	0.160	0.54	0.776	0.254	2.204	0.019	0.342	See note 1 below				0.019	0.131	-0.522	0.341	2.290	0.948	
600SFT125-30EQD2	0.0235	57	0.200	0.68	0.970	0.317	2.204	0.023	0.341	0.690	0.124	4.24	195	0.037	0.163	-0.520	0.340	2.290	0.948	
600SFT150-D252	0.0155	57	0.140	0.48	0.712	0.233	2.259	0.026	0.430					0.011	0.177	-0.691	0.444	2.401	0.917	
600SFT150-D201	0.0188	57	0.169	0.58	0.864	0.282	2.259	0.031	0.429	See note 1 below				0.020	0.214	-0.690	0.443	2.401	0.917	
600SFT150-30EQD2	0.0235	57	0.212	0.72	1.080	0.352	2.259	0.039	0.428	0.721	0.126	4.28	195	0.039	0.267	-0.688	0.442	2.400	0.918	
600SFT200-D201	0.0188	57	0.188	0.64	1.039	0.339	2.350	0.069	0.607	See note 1 below				0.022	0.464	-1.055	0.659	2.647	0.841	
600SFT200-30EQD2	0.0235	57	0.235	0.80	1.299	0.424	2.351	0.086	0.606	-	-	-	-	0.043	0.578	-1.053	0.658	2.646	0.842	
600SFT250-D20	0.0188	57	0.207	0.70	1.214	0.397	2.422	0.128	0.786	-	-	-	-	0.024	0.843	-1.448	0.884	2.930	0.756	
600SFT250-30EQD	0.0235	57	0.259	0.88	1.518	0.495	2.423	0.159	0.785	-	-	-	-	0.048	1.052	-1.446	0.883	2.929	0.756	
600SFT300-D20	0.0188	57	0.226	0.77	1.389	0.454	2.481	0.210	0.965	-	-	-	-	0.027	1.375	-1.861	1.116	3.248	0.672	
600SFT300-30EQD	0.0235	57	0.282	0.96	1.737	0.567	2.482	0.262	0.964	-	-	-	-	0.052	1.716	-1.859	1.115	3.247	0.672	

- Web height-to-thickness ratio exceeds 200. Web stiffeners are required at all support points and concentrated loads.
- Web height-to-thickness ratio exceeds 260 or flange width-to-thickness ratio exceeds 60. Section is not in compliance with A/SI SJ00 Section B1, so effective properties are not provided.

Table Notes

- The centerline bend radius is based on inside corner radii shown in the steel thickness table.
- Effective properties incorporate the strength increase from the cold work of forming as applicable per AISI S100 Section A7.2.
- For deflection calculations, use the effective moment of inertia.
- Tabulated gross properties are based on the full unreduced cross section of the studs away from punch-outs.
- Allowable moment is the lesser of M_{al} and M_{ad}. Stud distortional buckling is based on an assumed K_W = 0.
- See page 6 for additional general table notes.

SUPREME STUD - INTERIOR WALL HEIGHTS - COMPOSITE

Supreme Interior Wall Heights Composite

Section	Fy	Spacing	5 psf	7.5 psf			10 psf			15 psf				
	(ksi)	(in) oc	L/120	L/240	L/360	L/120	L/240	L/360	L/120	L/240	L/360	L/120	L/240	L/360
162SFS125-D25	57	12	13' 4"	10' 10"	9' 8"	11' 8"	9' 7"	8' 6"	10' 7"	8' 9"	-	-	-	-
		16	12' 1"	9' 12"	8' 10"	10' 7"	8' 9"	-	9' 7"	7' 11"	-	-	-	-
		24	10' 7"	8' 9"	-	9' 3"	-	-	8' 2' f	-	-	-	-	-
162SFS125-D20	57	12	13' 0"	10' 4"	9' 1"	11' 5"	9' 0"	7' 11"	10' 4"	8' 2"	7' 3"	8' 3" f, rl	7' 2"	6' 4"
		16	11' 10"	9' 5"	8' 3"	10' 4"	8' 2"	-	9' 5"	-	-	-	-	-
		24	10' 4"	8' 2"	-	9' 0"	-	-	8' 3"	-	-	-	-	-
162SFS125-30EQD	57	12	14' 0"	11' 7"	10' 6"	12' 3"	10' 2"	9' 2"	11' 1"	9' 3"	8' 4"	9' 8"	8' 1"	-
		16	12' 8"	10' 7"	9' 7"	11' 1"	9' 3"	8' 4"	10' 1"	8' 5"	-	-	-	-
		24	11' 1"	9' 3"	8' 4"	9' 8"	8' 1"	-	8' 10"	-	-	-	-	-
162SFS144-D20	57	12	13' 7"	11' 1"	9' 9"	11' 11"	9' 9"	8' 6"	10' 10"	8' 10"	7' 9"	8' 2' f	7' 9"	-
		16	12' 4"	10' 1"	8' 10"	10' 10"	8' 10"	7' 9"	9' 10"	8' 1"	-	-	-	-
		24	10' 10"	8' 10"	7' 9"	9' 5"	-	-	8' 5"	-	-	-	-	-
162SFS144-30EQD	57	12	13' 11"	11' 4"	10' 0"	12' 2"	9' 11"	8' 8"	11' 0"	9' 0"	7' 10"	8' 7' f	7' 9"	-
		16	12' 8"	10' 4"	9' 1"	11' 0"	9' 0"	7' 10"	10' 0"	8' 1"	-	-	-	-
		24	11' 0"	9' 0"	7' 10"	9' 7"	7' 9"	-	8' 6"	-	-	-	-	-
250SFS125-D25	57	12	15' 8"	13' 7"	12' 2"	13' 8"	11' 11"	10' 7"	12' 5"	10' 10"	9' 7"	8' 5' f	8' 5" f	8' 1"
		16	14' 3"	12' 4"	11' 0"	12' 5"	10' 10"	9' 7"	11' 1" f	9' 10"	8' 6"	-	-	-
		24	12' 5"	10' 10"	9' 7"	10' 5' f	9' 4"	8' 1"	9' 0" f	8' 4"	-	-	-	-
250SFS125-D20	57	12	16' 3"	13' 10"	12' 3"	14' 2"	12' 1"	10' 8"	12' 10"	11' 0"	9' 9"	9' 5" f, rl	9' 5" f, rl	8' 6"
		16	14' 9"	12' 6"	11' 2"	12' 10"	11' 0"	9' 9"	11' 8"	9' 11"	8' 10"	8' 2" f, rl	8' 2" f, rl	-
		24	12' 10"	11' 0"	9' 9"	11' 3"	9' 7"	8' 6"	10' 1" f, rl	8' 8"	7' 9"	-	-	-
250SFS125-30EQD	57	12	17' 6"	14' 9"	13' 3"	15' 4"	12' 10"	11' 7"	13' 11"	11' 8"	10' 6"	11' 6" f	10' 2"	9' 2"
		16	15' 11"	13' 5"	12' 1"	13' 11"	11' 8"	10' 6"	12' 8"	10' 7"	10' 0" f	9' 3"	8' 4"	-
		24	13' 11"	11' 8"	10' 6"	12' 2"	10' 2"	9' 2"	11' 0"	9' 3"	8' 4"	8' 2" f	8' 1"	-
250SFS144-D20	57	12	17' 1"	14' 0"	12' 5"	14' 11"	12' 3"	10' 10"	13' 7"	11' 1"	9' 10"	9' 5" f	9' 5" f	8' 2"
		16	15' 6"	12' 9"	11' 3"	13' 7"	11' 1"	9' 10"	12' 4"	10' 1"	8' 8"	8' 2" f	8' 2" f	-
		24	13' 7"	11' 1"	9' 10"	11' 8' f	9' 8"	8' 2"	10' 2' f	8' 7"	-	-	-	-
250SFS144-30EQD	57	12	18' 2"	14' 5"	12' 7"	15' 10"	12' 7"	11' 0"	14' 5"	11' 5"	10' 0"	10' 3" f	10' 0" f	8' 6"
		16	16' 6"	13' 1"	11' 5"	14' 5"	11' 5"	10' 0"	13' 1"	10' 5"	8' 11" f	8' 11" f	-	-
		24	14' 5"	11' 5"	10' 0"	12' 7"	10' 0"	8' 6"	11' 0" f	8' 11"	-	-	-	-
362SFS125-D25	57	12	21' 9"	17' 3"	15' 1"	18' 6" f	15' 1"	13' 2"	16' 1" f	13' 9"	12' 0"	10' 7" f	10' 7" f	10' 4"
		16	19' 8" f	15' 8"	13' 9"	16' 1" f	13' 9"	12' 0"	13' 11" f	12' 6"	10' 9" f	9' 2" f	9' 2" f	9' 2" f
		24	16' 1" f	13' 9"	12' 0"	13' 1" f	12' 0"	10' 4"	11' 4" f	10' 9" f	-	-	-	-
362SFS125-D20	57	12	20' 11"	17' 1"	14' 11"	18' 3"	15' 0"	13' 0"	16' 7"	13' 7"	11' 10"	11' 2" f	11' 2" f	10' 4"
		16	19' 0"	15' 7"	13' 7"	16' 7"	13' 7"	11' 10"	14' 9" f	12' 4"	10' 9"	9' 8" f	9' 8" f	9' 5" f
		24	16' 7"	13' 7"	11' 10"	13' 10" f	11' 10"	10' 4"	12' 0" f	10' 9"	9' 5"	7' 11" f	7' 11" f	7' 11" f
362SFS125-30EQD	57	12	22' 10"	18' 2"	15' 10"	20' 0"	15' 10"	13' 10"	18' 2"	14' 5"	12' 7"	13' 3" f	12' 7"	11' 0"
		16	20' 9"	16' 6"	14' 5"	18' 2"	14' 5"	12' 7"	16' 6"	13' 1"	11' 5"	11' 6" f	11' 5"	10' 0"
		24	18' 2"	14' 5"	12' 7"	15' 10"	12' 7"	11' 0"	14' 3" f	11' 5"	10' 0" f	9' 4" f	9' 4" f	8' 9"
362SFS144-D20	57	12	22' 4"	17' 9"	15' 6"	19' 6"	15' 6"	13' 7"	17' 3" f	14' 1"	12' 4" f	11' 4" f	11' 4" f	10' 8"
		16	20' 4"	16' 1"	14' 1"	17' 3" f	14' 1"	12' 4" f	15' 0" f	12' 10"	11' 1" f	9' 10" f	9' 10" f	9' 7" f
		24	17' 3" f	14' 1"	12' 4"	14' 1" f	12' 4"	10' 8"	12' 3" f	11' 1"	9' 7"	8' 0" f	8' 0" f	8' 0" f
362SFS144-30EQD	57	12	23' 6"	18' 8"	16' 4"	20' 6"	16' 4"	14' 3"	18' 8"	14' 10"	12' 11"	12' 6" f	12' 6" f	11' 3"
		16	21' 4"	16' 11"	14' 10"	18' 8"	14' 10"	12' 11"	16' 5" f	13' 5"	11' 9" f	10' 10" f	10' 10" f	10' 2"
		24	18' 8"	14' 10"	12' 11"	15' 6" f	12' 11"	11' 3"	13' 5" f	11' 9" f	10' 2"	8' 10" f	8' 10" f	8' 9" f
400SFS125-D25	57	12	21' 8"	17' 7"	15' 8"	18' 6" f	15' 4"	13' 9"	16' 0" f	14' 0"	12' 8"	11' 4" f	9' 1" f	9' 1" f
		16	19' 7" f	16' 0"	14' 3"	16' 0" f	14' 0"	12' 6"	13' 10" f	12' 8"	11' 4" f	9' 1" f	9' 1" f	9' 1" f
		24	16' 0" f	14' 0"	12' 6"	13' 1" f	12' 2"	10' 11"	11' 4" f	11' 9" f	-	-	-	-
400SFS125-D20	57	12	22' 3"	18' 7"	16' 4"	19' 5"	16' 2"	14' 3"	17' 5" f	14' 9"	12' 11"	11' 5" f	11' 5" f	11' 4"
		16	20' 2"	16' 10"	14' 9"	12' 11"	14' 2" f	12' 10"	11' 4"	15' 1" f	13' 4"	11' 9" f	11' 11" f	9' 11" f
		24	17' 5" f	14' 9"	12' 11"	14' 2" f	12' 10"	11' 4"	12' 4" f	11' 8"	10' 3" f	8' 1" f	8' 1" f	8' 1" f
400SFS125-30EQD	57	12	24' 4"	19' 4"	16' 11"	21' 3"	16' 11"	14' 9"	19' 4" f	15' 4"	13' 5" f	13' 9" f	13' 5" f	11' 9" f
		16	22' 2"	17' 7"	15' 4"	19' 4" f	15' 4"	13' 5"	17' 7"	13' 11" f	12' 2"	11' 11" f	11' 11" f	10' 8"
		24	19' 4"	15' 4"	13' 5"	16' 11"	13' 5"	11' 9"	14' 10" f	12' 2" f	11' 11" f	11' 11" f	11' 11" f	10' 8"
400SFS144-D20	57	12	23' 1"	18' 4"	16' 0"	20' 2"	16' 0"	14' 0"	17' 8" f	14' 6"	12' 8" f	11' 7" f	11' 7" f	11' 11" f
		16	21' 0"	16' 8"	14' 6"	17' 8" f	14' 6"	12' 8" f	15' 3" f	13' 2" f	11' 6" f	10' 0" f	10' 0" f	10' 0" f
		24	17' 8" f	14' 6"	12' 8" f	14' 5" f	12' 8"	11' 1"	12' 6" f	11' 6" f	10' 0" f	8' 2" f	8' 2" f	8' 2" f
400SFS144-30EQD	57	12	25' 0"	19' 10"	17' 4"	21' 10"	17' 4"	15' 2"	19' 8" f	15' 9"	13' 9" f	13' 9" f	12' 11" f	12' 0"
		16	22' 9"	18' 1"	15' 9"	19' 8" f	15' 9"	13' 9" f	17' 0" f	14' 4"	12' 6" f	11' 2" f	11' 2" f	10' 11"
		24	19' 8" f	15' 9"	13' 9"	16' 0" f	13' 9"	12' 0" f	13' 11" f	12' 6" f	10' 11" f	9' 2" f	9' 2" f	9' 2" f
600SFS125-D25	57	12	28' 8" f	24' 4"	21' 7"	23' 5" f	21' 3"	18' 10"	20' 3" f	19' 3"	17' 7" f	17' 6" f	-	-
		16	24' 10" f	22' 1"	19' 8"	20' 3" f	19' 3"	17' 2"	17' 7" f	17' 6" f	17' 6" f	17' 6" f	-	-
		24	20' 3" f	19' 3"	17' 2"	16' 7" f	16' 7" f	14' 11"	14' 4" f	14' 4" f	13' 5"	-	-	-
600SFS125-D20	57	12	31' 6" f	25' 3"	22' 0"	25' 9" f	22' 0"	19' 3"	22' 3" f	20' 0"	17' 6" f	14' 8" f	14' 8" f	14' 8" f
		16	27' 3" f	22' 11"	20' 0"	22' 3" f	20' 0"	17' 6" f	19' 3" f	18' 2" f	15' 11" f	12' 8" f	12' 8" f	12' 8" f
		24	22' 3" f	20' 0"	17' 6"	18' 2" f	17' 6"	15' 3"	15' 9" f	15' 9" f	13' 11" f	10' 4" f	10' 4" f	10' 4" f
600SFS125-30EQD	57	12	33' 9"	26' 9"	23' 5"	29' 5"	23' 5"	20' 5"	26' 8" f	21' 3"	18' 7" f	17' 6" f	17' 6" f	16' 3"
		16	30' 8"	24' 4"	21' 3"	26' 8" f	21' 3"	18' 7"	23' 1" f	19' 4"	16' 10"	15' 2" f	15' 2" f	14' 9" f
		24	26' 8" f	21' 3"	18' 7"	21' 9" f	18' 7"	16' 3"	18' 10" f	16' 10"	14' 9" f	12' 5" f	12' 5" f	12' 5" f
600SFS144-D20	57	12	31' 2"	24' 9"	21' 7"	25' 11" f	21' 7"	18' 10"	22' 6" f	19' 7"	17' 2" f	14' 9" f	14' 9" f	14' 9" f
		16	27' 6" f	22' 6"	19' 7"	22' 6" f	19' 7"	17' 2" f	1					



SUPREME STUD - LIMITING WALL HEIGHTS

Supreme Non-Composite Limiting Wall Heights: Fully Braced

Section	Fy (ksi)	Spacing (in) oc	5 psf			7.5 psf			10 psf		
			L/120	L/240	L/360	L/120	L/240	L/360	L/120	L/240	L/360
162SFS125-D25	50	12	9' 4"	-	-	8' 0"	-	-	-	-	-
		16	8' 5"	-	-	-	-	-	-	-	-
		24	-	-	-	-	-	-	-	-	-
162SFS125-D20	57	12	9' 11"	8' 1"	-	8' 8"	-	-	-	-	-
		16	9' 0"	-	-	-	-	-	-	-	-
		24	-	-	-	-	-	-	-	-	-
162SFS144-D20	57	12	10' 6"	8' 4"	-	9' 1"	-	-	8' 2"	-	-
		16	9' 6"	-	-	8' 2"	-	-	-	-	-
		24	8' 2"	-	-	-	-	-	-	-	-
162SFS125-30EQD	57	12	10' 10"	8' 7"	-	9' 6"	-	-	8' 7"	-	-
		16	9' 10"	-	-	8' 7"	-	-	-	-	-
		24	8' 7"	-	-	-	-	-	-	-	-
162SFS144-30EQD	57	12	11' 0"	8' 9"	-	9' 8"	-	-	8' 9"	-	-
		16	10' 0"	-	-	8' 9"	-	-	-	-	-
		24	8' 9"	-	-	-	-	-	-	-	-
250SFS125-D25	50	12	12' 5"	10' 5"	9' 1"	10' 2"	9' 0"	-	8' 10"	8' 1"	-
		16	10' 9"	9' 5"	8' 3"	8' 10"	8' 1"	-	-	-	-
		24	8' 10"	8' 1"	-	-	-	-	-	-	-
250SFS125-D20	57	12	13' 10"	11' 2"	9' 9"	12' 1"	9' 9"	8' 6"	11' 0"	8' 10"	-
		16	12' 7"	10' 2"	8' 10"	11' 0"	8' 10"	-	10' 0"	-	-
		24	11' 0"	8' 10"	-	9' 7"	-	-	8' 5"	-	-
250SFS144-D20	57	12	14' 5"	11' 6"	10' 1"	12' 5"	10' 1"	8' 10"	11' 2"	9' 2"	8' 0"
		16	13' 0"	10' 6"	9' 2"	11' 2"	9' 2"	8' 0"	9' 8"	8' 4"	-
		24	11' 2"	9' 2"	8' 0"	9' 1"	-	-	-	-	-
250SFS125-30EQD	57	12	15' 1"	11' 11"	10' 5"	13' 2"	10' 5"	9' 1"	11' 11"	9' 6"	8' 3"
		16	13' 8"	10' 10"	9' 6"	11' 11"	9' 6"	8' 3"	10' 10"	8' 7"	-
		24	11' 11"	9' 6"	8' 3"	10' 5"	8' 3"	-	9' 5"	-	-
250SFS144-30EQD	57	12	15' 4"	12' 2"	10' 7"	13' 5"	10' 7"	9' 3"	12' 2"	9' 8"	8' 5"
		16	13' 11"	11' 1"	9' 8"	12' 2"	9' 8"	8' 5"	11' 1"	8' 9"	-
		24	12' 2"	9' 8"	8' 5"	10' 7"	8' 5"	-	9' 8"	-	-
350SFS125-D25	50	12	14' 8"	13' 1"	11' 9"	12' 0"	11' 4"	10' 2"	10' 0"	10' 0"	9' 2"
		16	12' 9"	11' 10"	10' 7"	10' 0"	10' 0"	9' 2"	-	-	-
		24	10' 0"	10' 0"	9' 2"	-	-	-	-	-	-
350SFS125-D20	57	12	18' 0"	14' 3"	12' 6"	15' 9"	12' 6"	10' 11"	14' 3"	11' 4"	9' 11"
		16	16' 4"	13' 0"	11' 4"	14' 3"	11' 4"	9' 11"	12' 4"	10' 4"	9' 0"
		24	14' 3"	11' 4"	9' 11"	11' 7"	9' 11"	8' 8"	9' 5"	9' 0"	-
350SFS144-D20	57	12	18' 2"	14' 11"	13' 0"	15' 5"	12' 11"	11' 5"	13' 4"	11' 8"	10' 4"
		16	16' 4"	13' 6"	11' 10"	13' 4"	11' 8"	10' 4"	11' 7"	10' 6"	9' 5"
		24	13' 4"	11' 8"	10' 4"	10' 11"	10' 1"	9' 0"	9' 5"	9' 1"	8' 1"
350SFS125-30EQD	57	12	19' 6"	15' 6"	13' 6"	17' 1"	13' 6"	11' 10"	15' 6"	12' 4"	10' 9"
		16	17' 9"	14' 1"	12' 4"	15' 6"	12' 4"	10' 9"	14' 0"	11' 2"	9' 9"
		24	15' 6"	12' 4"	10' 9"	13' 3"	10' 9"	9' 4"	11' 5"	9' 9"	8' 6"
350SFS144-30EQD	57	12	19' 11"	15' 10"	13' 10"	17' 5"	13' 10"	12' 1"	15' 10"	12' 7"	10' 11"
		16	18' 1"	14' 4"	12' 7"	15' 10"	12' 7"	10' 11"	14' 4"	11' 5"	9' 11"
		24	15' 10"	12' 7"	10' 11"	13' 8"	10' 11"	9' 7"	11' 10"	9' 11"	8' 8"
362SFS125-D25	50	12	14' 11"	13' 5"	12' 0"	12' 2"	11' 7"	10' 4"	9' 10"	9' 10"	9' 4"
		16	12' 11"	12' 1"	10' 10"	9' 10"	9' 10"	9' 4"	-	-	-
		24	9' 10"	9' 4"	-	-	-	-	-	-	-
362SFS125-D20	57	12	18' 6"	14' 10"	13' 0"	16' 2"	13' 0"	11' 4"	14' 6"	11' 8"	10' 4"
		16	16' 10"	13' 6"	11' 10"	14' 6"	11' 8"	10' 4"	12' 7"	10' 7"	9' 4"
		24	14' 6"	11' 9"	10' 4"	11' 10"	10' 2"	9' 0"	9' 4"	8' 1"	-
362SFS144-D20	57	12	18' 8"	15' 4"	13' 5"	15' 8"	13' 3"	11' 8"	13' 7"	12' 0"	10' 7"
		16	16' 8"	13' 10"	12' 2"	13' 7"	12' 0"	10' 7"	11' 9"	10' 9"	9' 8"
		24	13' 7"	12' 0"	10' 7"	11' 1"	10' 4"	9' 3"	9' 4"	9' 4"	8' 4"
362SFS125-30EQD	57	12	20' 1"	15' 11"	13' 11"	17' 6"	13' 11"	12' 2"	15' 11"	12' 8"	11' 0"
		16	18' 3"	14' 6"	12' 8"	15' 11"	12' 8"	11' 0"	14' 3"	11' 6"	10' 0"
		24	15' 11"	12' 8"	11' 0"	13' 6"	11' 0"	9' 8"	11' 8"	10' 0"	9' 8"
362SFS144-30EQD	57	12	20' 9"	16' 5"	14' 4"	17' 11"	14' 4"	12' 7"	16' 3"	12' 11"	11' 3"
		16	18' 8"	14' 11"	13' 1"	16' 5"	13' 1"	11' 5"	14' 9"	11' 9"	10' 3"
		24	16' 4"	13' 1"	11' 5"	14' 0"	11' 4"	10' 0"	12' 1"	10' 3"	8' 11"
400SFS125-D25	50	12	15' 8"	14' 3"	12' 10"	11' 6"	9' 7"	-	-	-	-
		16	13' 7"	12' 10"	11' 6"	9' 7"	-	-	-	-	-
		24	9' 7"	9' 7"	-	-	-	-	-	-	-
400SFS125-D20	57	12	20' 0"	16' 1"	14' 0"	17' 6"	13' 10"	12' 3"	15' 3"	12' 7"	11' 2"
		16	18' 2"	14' 7"	12' 9"	15' 3"	12' 7"	11' 2"	13' 2"	11' 5"	10' 1"
		24	15' 3"	12' 7"	11' 2"	11' 10"	11' 0"	9' 9"	8' 11"	8' 11"	8' 10"
400SFS144-D20	57	12	19' 11"	16' 5"	14' 5"	16' 6"	14' 2"	12' 7"	14' 3"	12' 10"	11' 5"
		16	17' 6"	14' 10"	13' 1"	14' 2"	12' 10"	11' 5"	12' 4"	11' 7"	10' 4"
		24	14' 3"	12' 10"	11' 5"	11' 8"	11' 1"	9' 11"	9' 9"	9' 9"	8' 11"
400SFS125-30EQD	57	12	21' 8"	17' 3"	15' 0"	18' 11"	15' 0"	13' 2"	17' 3"	13' 8"	11' 11"
		16	19' 9"	15' 8"	13' 8"	17' 3"	13' 8"	11' 11"	15' 1"	12' 5"	10' 10"
		24	17' 3"	13' 8"	11' 11"	14' 2"	11' 11"	10' 5"	12' 3"	10' 10"	9' 5"
400SFS144-30EQD	57	12	22' 2"	17' 7"	15' 4"	19' 4"	15' 4"	13' 5"	17' 7"	13' 11"	12' 2"
		16	20' 2"	16' 0"	13' 11"	17' 7"	13' 11"	12' 2"	15' 7"	12' 8"	11' 1"
		24	17' 7"	13' 11"	12' 2"	14' 8"	12' 2"	10' 8"	12' 9"	11' 1"	9' 8"
550SFS125-30EQD*	57	12	27' 5"	21' 11"	19' 3"	23' 7"	19' 1"	16' 9"	20' 5"	17' 4"	15' 2"
		16	24' 9"	19' 11"	17' 5"	20' 5"	17' 4"	15' 2"	17' 8"	15' 8"	13' 9"
		24	20' 5"	17' 4"	15' 2"	16' 8"	15' 1"	13' 3"	13' 6"	13' 6"	12' 0"
550SFS144-30EQD*	57	12	28' 7"	22' 8"	19' 10"	24' 6"	19' 10"	17' 4"	21' 2"	18' 0"	15' 9"
		16	26' 0"	20' 7"	18' 0"	21' 2"	18' 0"	15' 9"	18' 4"	16' 4"	14' 3"
		24	21' 2"	18' 0"	15' 9"	17' 4"	15' 9"	13' 9"	15' 0"	14' 3"	12' 6"
600SFS125-30EQD*	57	12	29' 2"	23' 5"	20' 7"	24' 7"	20' 5"	17' 11"	21' 3"	18' 6"	16' 3"
		16	26' 1"	21' 3"	18' 8"	21' 3"	18' 6"	16' 3"	17' 9"	16' 9"	14' 9"
		24	21' 3"	18' 6"	16' 3"	15' 10"	15' 10"	14' 2"	11' 10"	11' 10"	11' 10"
600SFS144-30EQD*	57	12	29' 9"	23' 7"	20' 8"	25' 6"	20' 8"	18' 0"	22' 1"	18' 9"	16' 4"
		16	27' 1"	21' 5"	18' 9"	22' 1"	18' 9"	16' 4"	19' 1"	17' 0"	14' 10"
		24	22' 1"	18' 9"	16' 4"	18' 0"	16' 4"	14' 3"	15' 7"	14' 10"	13' 0"

Table Notes: See notes on page 12.

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For more information, please contact Telling Industries Technical Services at 866-372-6384.

This technical information reflects the most current information available and supersedes any and all previous publications effective August 2021

SUPREME STUD - LIMITING WALL HEIGHTS

2018 IBC (AISI S100) Limiting Heights for Interior Non-Load Bearing Non-Composite Wall Panels - Braced 48" oc

Section	Spacing (in) oc	Fy (ksi)	5 psf			7.5 psf			10 psf		
			L/120	L/240	L/360	L/120	L/240	L/360	L/120	L/240	L/360
162SFS125-D25	50	12	9' 4"	-	-	8' 0"	-	-	-	-	-
	50	16	8' 5"	-	-	-	-	-	-	-	-
	50	24	-	-	-	-	-	-	-	-	-
162SFS125-D20	57	12	9' 11"	8' 1"	-	8' 8"	-	-	-	-	-
	57	16	9' 0"	-	-	-	-	-	-	-	-
	57	24	-	-	-	-	-	-	-	-	-
162SFS144-D20	57	12	10' 6"	8' 4"	-	9' 1"	-	-	8' 2"	-	-
	57	16	9' 6"	-	-	8' 2"	-	-	-	-	-
	57	24	8' 2"	-	-	-	-	-	-	-	-
162SFS125-30EQD	57	12	10' 10"	8' 7"	-	9' 6"	-	-	8' 7"	-	-
	57	16	9' 10"	-	-	8' 7"	-	-	-	-	-
	57	24	8' 7"	-	-	-	-	-	-	-	-
162SFS144-30EQD	57	12	11' 0"	8' 9"	-	9' 8"	-	-	8' 9"	-	-
	57	16	10' 0"	-	-	8' 9"	-	-	-	-	-
	57	24	8' 9"	-	-	-	-	-	-	-	-
250SFS125-D25	50	12	12' 5"	10' 5"	9' 1"	10' 2"	9' 0"	-	8' 10"	8' 1"	-
	50	16	10' 9"	9' 5"	8' 3"	8' 10"	8' 1"	-	-	-	-
	50	24	8' 10"	8' 1"	-	-	-	-	-	-	-
250SFS125-D20	57	12	13' 10"	11' 2"	9' 9"	12' 1"	9' 9"	8' 6"	11' 0"	8' 10"	-
	57	16	12' 7"	10' 2"	8' 10"	11' 0"	8' 10"	-	10' 0"	-	-
	57	24	11' 0"	8' 10"	-	9' 7"	-	-	8' 5"	-	-
250SFS144-D20	57	12	14' 5"	11' 6"	10' 1"	12' 5"	10' 1"	8' 10"	11' 2"	9' 2"	8' 0"
	57	16	13' 0"	10' 6"	9' 2"	11' 2"	9' 2"	8' 0"	9' 8"	8' 4"	-
	57	24	11' 2"	9' 2"	8' 0"	9' 1"	-	-	-	-	-
250SFS125-30EQD	57	12	15' 1"	11' 11"	10' 5"	13' 2"	10' 5"	9' 1"	11' 11"	9' 6"	8' 3"
	57	16	13' 8"	10' 10"	9' 6"	11' 11"	9' 6"	8' 3"	10' 10"	8' 7"	-
	57	24	11' 11"	9' 6"	8' 3"	10' 5"	8' 3"	-	9' 5"	-	-
250SFS144-30EQD	57	12	15' 4"	12' 2"	10' 7"	13' 5"	10' 7"	9' 3"	12' 2"	9' 8"	8' 5"
	57	16	13' 11"	11' 1"	9' 8"	12' 2"	9' 8"	8' 5"	11' 1"	8' 9"	-
	57	24	12' 2"	9' 8"	8' 5"	10' 7"	8' 5"	-	9' 8"	-	-
350SFS125-D25	50	12	14' 8"	13' 1"	11' 9"	12' 0"	11' 4"	10' 2"	10' 0"	10' 0"	9' 2"
	50	16	12' 9"	11' 10"	10' 7"	10' 0"	10' 0"	-	-	-	-
	50	24	10' 0"	10' 0"	9' 2"	-	-	-	-	-	-
350SFS125-D20	57	12	18' 0"	14' 3"	12' 6"	15' 9"	12' 6"	10' 11"	14' 3"	11' 4"	9' 11"
	57	16	16' 4"	13' 0"	11' 4"	14' 3"	11' 4"	9' 11"	12' 4"	10' 4"	9' 0"
	57	24	14' 3"	11' 4"	9' 11"	11' 7"	9' 11"	8' 8"	9' 5"	9' 0"	-
350SFS144-D20	57	12	18' 2"	14' 11"	13' 0"	15' 5"	12' 11"	11' 5"	13' 4"	11' 8"	10' 4"
	57	16	16' 4"	13' 6"	11' 10"	13' 4"	11' 8"	10' 4"	11' 7"	10' 6"	9' 5"
	57	24	13' 4"	11' 8"	10' 4"	10' 11"	10' 1"	9' 0"	9' 5"	9' 1"	8' 1"
350SFS125-30EQD	57	12	19' 6"	15' 6"	13' 6"	17' 1"	13' 6"	11' 10"	15' 6"	12' 4"	10' 9"
	57	16	17' 9"	14' 1"	12' 4"	15' 6"	12' 4"	10' 9"	14' 0"	11' 2"	9' 9"
	57	24	15' 6"	12' 4"	10' 9"	13' 3"	10' 9"	9' 4"	11' 5"	9' 9"	8' 6"
350SFS144-30EQD	57	12	19' 11"	15' 10"	13' 10"	17' 5"	13' 10"	12' 1"	15' 10"	12' 7"	10' 11"
	57	16	18' 1"	14' 4"	12' 7"	15' 10"	12' 7"	10' 11"	14' 4"	11' 5"	9' 11"
	57	24	15' 10"	12' 7"	10' 11"	13' 8"	10' 11"	9' 7"	11' 10"	9' 11"	8' 8"
362SFS125-D25	50	12	14' 11"	13' 5"	12' 0"	12' 2"	11' 7"	10' 4"	9' 10"	9' 10"	9' 4"
	50	16	12' 11"	12' 1"	10' 10"	9' 10"	9' 10"	-	-	-	-
	50	24	9' 10"	9' 4"	-	-	-	-	-	-	-
362SFS125-D20	57	12	18' 6"	14' 10"	13' 0"	16' 2"	13' 0"	11' 4"	14' 6"	11' 8"	10' 4"
	57	16	16' 10"	13' 6"	11' 10"	14' 6"	11' 8"	10' 4"	12' 7"	10' 7"	9' 4"
	57	24	14' 6"	11' 9"	10' 4"	11' 10"	10' 2"	9' 0"	9' 4"	9' 3"	8' 1"
362SFS144-D20	57	12	18' 8"	15' 4"	13' 5"	15' 8"	13' 3"	11' 8"	13' 7"	12' 0"	10' 7"
	57	16	16' 8"	13' 10"	12' 2"	13' 7"	12' 0"	10' 7"	11' 9"	10' 9"	9' 8"
	57	24	13' 7"	12' 0"	10' 7"	11' 1"	10' 4"	9' 3"	9' 4"	9' 4"	8' 4"
362SFS125-30EQD	57	12	20' 1"	15' 11"	13' 11"	17' 6"	13' 11"	12' 2"	15' 11"	12' 8"	11' 0"
	57	16	18' 3"	14' 6"	12' 8"	15' 11"	12' 8"	11' 0"	14' 3"	11' 6"	10' 0"
	57	24	15' 11"	12' 8"	11' 0"	13' 6"	11' 0"	9' 8"	11' 8"	10' 0"	8' 9"
362SFS144-30EQD	57	12	20' 9"	16' 5"	14' 4"	17' 11"	14' 4"	12' 7"	16' 3"	12' 11"	11' 3"
	57	16	18' 8"	14' 11"	13' 1"	16' 5"	13' 1"	11' 5"	14' 9"	11' 9"	10' 3"
	57	24	16' 4"	13' 1"	11' 5"	14' 0"	11' 4"	10' 0"	12' 1"	10' 3"	8' 11"
400SFS125-D25	50	12	15' 8"	14' 3"	12' 9"	12' 10"	12' 4"	11' 0"	9' 7"	9' 7"	9' 7"
	50	16	13' 7"	12' 10"	11' 6"	9' 7"	9' 7"	-	-	-	-
	50	24	9' 7"	9' 7"	-	-	-	-	-	-	-
400SFS125-D20	57	12	20' 0"	16' 1"	14' 0"	17' 6"	13' 10"	12' 3"	15' 3"	12' 7"	11' 2"
	57	16	18' 2"	14' 7"	12' 9"	15' 3"	12' 7"	11' 2"	13' 2"	11' 5"	10' 1"
	57	24	15' 3"	12' 7"	11' 2"	11' 10"	11' 0"	9' 9"	8' 11"	8' 10"	-
400SFS144-D20	57	12	19' 11"	16' 5"	14' 5"	16' 6"	14' 2"	12' 7"	14' 3"	12' 10"	11' 5"
	57	16	17' 6"	14' 10"	13' 1"	14' 3"	12' 10"	11' 5"	12' 4"	11' 7"	10' 4"
	57	24	14' 3"	12' 10"	11' 5"	11' 8"	11' 1"	9' 11"	9' 9"	9' 9"	8' 11"
400SFS125-30EQD	57	12	21' 8"	17' 3"	15' 0"	18' 11"	15' 0"	13' 2"	17' 3"	13' 8"	11' 11"
	57	16	19' 9"	15' 8"	13' 8"	17' 3"	13' 8"	11' 11"	15' 1"	12' 5"	10' 10"
	57	24	17' 3"	13' 8"	11' 11"	14' 2"	11' 11"	10' 5"	12' 3"	10' 10"	9' 5"
400SFS144-30EQD	57	12	22' 2"	17' 7"	15' 4"	19' 4"	15' 4"	13' 5"	17' 7"	13' 11"	12' 2"
	57	16	20' 2"	16' 0"	13' 11"	17' 7"	13' 11"	12' 2"	15' 7"	12' 8"	11' 1"
	57	24	17' 7"	13' 11"	12' 2"	14' 8"	12' 2"	10' 8"	12' 9"	11' 1"	9' 8"
550SFS125-30EQD*	57	12	27' 5"	21' 11"	19' 3"	23' 7"	19' 1"	16' 9"	20' 5"	17' 4"	15' 2"
	57	16	24' 9"	19' 11"	17' 5"	20' 5"	17' 4"	15' 2"	17' 8"	15' 8"	13' 9"
	57	24	20' 5"	17' 4"	15' 2"	16' 8"	15' 1"	13' 3"	13' 6"	13' 6"	12' 0"
550SFS144-30EQD*	57	12	28' 7"	22' 8"	19' 10"	24' 6"	19' 10"	17' 4"	21' 2"	18' 0"	15' 9"
	57	16	26' 0"	20' 7"	18' 0"	21' 2"	18' 0"	15' 9"	18' 4"	16' 4"	14' 3"
	57	24	21' 2"	18' 0"	15' 9"	17' 4"	15' 9"	13' 9"	15' 0"	14' 3"	12' 6"
600SFS125-30EQD*	57	12	29' 2"	23' 5"	20' 7"	24' 7"	20' 5"	17' 11"	21' 3"	18' 6"	16' 3"
	57	16	26' 1"	21' 3"	18' 8"	21' 3"	18' 6"	16' 3"	17' 9"	16' 9"	14' 9"
	57	24	21' 3"	18' 6"	16' 3"	15' 10"	15' 10"	14' 2"	11' 10"	11' 10"	11' 10"
600SFS144-30EQD*	57	12	29' 9"	23' 7"	20' 8"	25' 6"	20' 8"	18' 0"	22' 1"	18' 9"	16' 4"
	57	16	27' 1"	21' 5"	18' 9"	22' 1"	18' 9"	16' 4"	19' 1"	17' 0"	14' 10"
	57	24	22' 1"	18' 9"	16' 4"	18' 0"	16' 4"	14' 3"	15' 7"	14' 10"	13' 0"

Table Notes:

1. End lateral bearing - 1 inch minimum (1.5 inch at 600 SFS-22 members)
2. Heights based on steel properties only
3. Limiting heights based on lateral and torsional bracing spaced 48" on center full height of member
4. 1.0 factor for Deflection Calculations applied throughout
5. 1.0 factor for Strength Calculations applied throughout

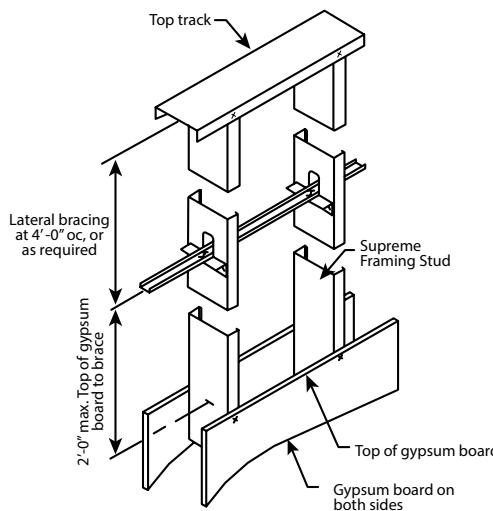
6. $k_f = 0 \text{ in}^2/\text{lb/in}$
7. e - web stiffener required to achieve height in table. Web stiffeners may not be required for lesser heights.
8. Check reactions against published web crippling values for lesser heights.
9. * Web-height to thickness ratio exceeds 200. Web crippling values based on test data.



SUPREME STUD - NON-COMPOSITE INTERIOR WALL HEIGHTS

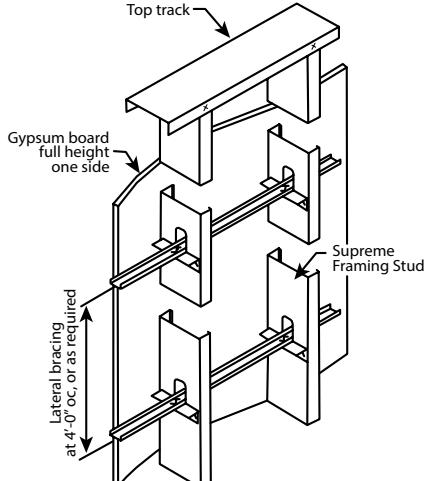
Lateral Bracing

Example of lateral bracing for walls not sheathed full height.

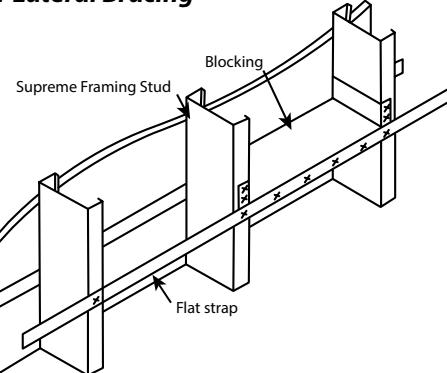


Lateral Bracing

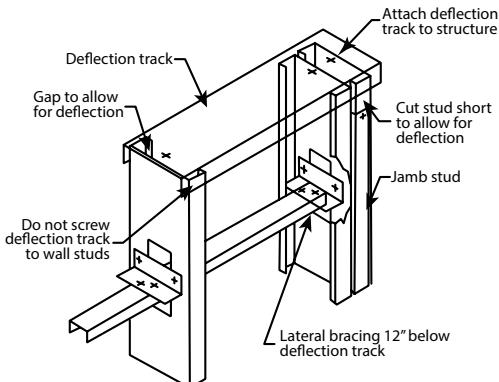
Example of lateral bracing for walls sheathed full height on one side.



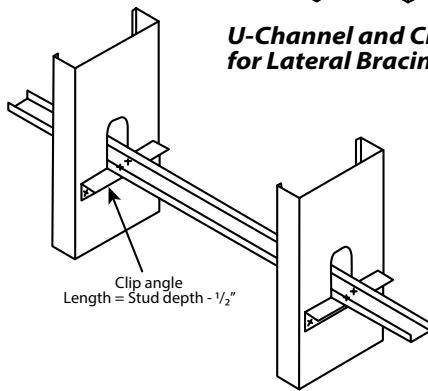
Flat Strap and Blocking for Lateral Bracing



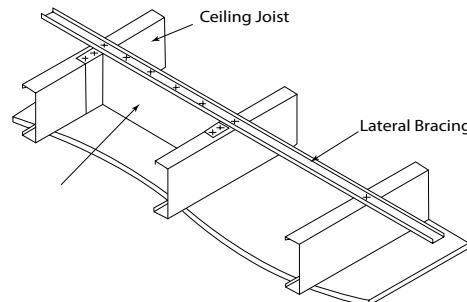
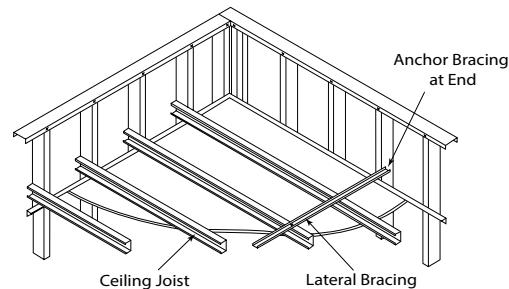
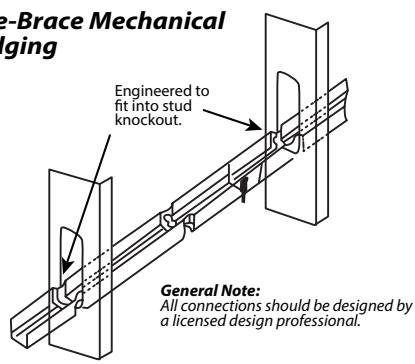
Deflection Track



U-Channel and Clip Angle for Lateral Bracing



True-Brace Mechanical Bridging



General Note:

All connections should be designed by a licensed design professional.

SUPREME STUD - NON-STRUCTURAL CEILING SPANS - DEFLECTION LIMIT: L/120, L/240 & L/360

Ceiling Span Tables - Deflection Limit L/120

Section	Fy (ksi)	4 psf						6 psf						10 psf					
		Lateral Support of Compression Flange						Lateral Support of Compression Flange						Lateral Support of Compression Flange					
		Unsupported			Midspan			Unsupported			Midspan			Unsupported			Midspan		
		12	16	24	12	16	24	12	16	24	12	16	24	12	16	24	12	16	24
162SFS125-D20	57	8' 2"	7' 6"	6' 8"	10' 8"	9' 8"	8' 5"	7' 3"	6' 8"	5' 11"	9' 3"	8' 5"	7' 4"	6' 3"	5' 9"	5' 1"	7' 10"	7' 1"	5' 10"
162SFS144-D20	57	8' 5"	7' 8"	6' 10"	11' 2"	10' 1"	8' 8"	7' 5"	6' 10"	6' 0"	9' 8"	8' 8"	7' 3"	5' 10"	5' 4"	4' 7"	7' 0"	6' 2"	5' 1"
162SFS144-30EQD	57	9' 6"	8' 9"	7' 10"	11' 11"	10' 10"	9' 5"	8' 6"	7' 10"	6' 11"	10' 5"	9' 5"	8' 3"	7' 4"	6' 9"	5' 11"	8' 9"	7' 11"	6' 9"
250SFS125-D20	57	9' 2"	8' 6"	7' 8"	13' 1"	12' 1"	10' 10"	8' 3"	7' 8"	6' 10"	11' 8"	10' 10"	9' 7"	7' 2"	6' 8"	5' 11"	10' 1"	9' 3"	7' 10"
250SFS144-D20	57	9' 5"	8' 9"	7' 10"	13' 1"	12' 0"	10' 6"	8' 6"	7' 10"	6' 11"	11' 6"	10' 6"	9' 0"	6' 9"	6' 2"	5' 6"	8' 9"	7' 9"	6' 6"
250SFS144-30EQD	57	10' 7"	9' 10"	8' 10"	15' 2"	13' 11"	12' 5"	9' 6"	8' 10"	7' 11"	13' 6"	12' 5"	11' 0"	8' 4"	7' 9"	6' 11"	11' 7"	10' 7"	9' 1"
350SFS125-D20	57	9' 10"	9' 2"	8' 3"	14' 1"	12' 11"	11' 6"	8' 10"	8' 3"	7' 5"	12' 6"	11' 6"	10' 3"	7' 9"	7' 2"	6' 5"	10' 10"	9' 11"	8' 5"
350SFS144-D20	57	10' 5"	9' 8"	8' 8"	14' 7"	13' 4"	11' 10"	9' 4"	8' 8"	7' 9"	12' 10"	11' 10"	10' 4"	7' 6"	6' 11"	6' 1"	10' 0"	9' 0"	7' 8"
350SFS144-30EQD	57	11' 6"	10' 8"	9' 7"	16' 6"	15' 2"	13' 5"	10' 4"	9' 7"	8' 7"	14' 8"	13' 5"	11' 11"	9' 0"	8' 4"	7' 6"	12' 7"	11' 6"	10' 0"
362SFS125-D20	57	10' 0"	9' 3"	8' 4"	14' 2"	13' 1"	11' 8"	8' 11"	8' 4"	7' 5"	12' 8"	11' 8"	10' 4"	7' 10"	7' 3"	6' 5"	10' 11"	10' 0"	8' 4"
362SFS144-D20	57	10' 6"	9' 9"	8' 10"	14' 8"	13' 6"	11' 11"	9' 6"	8' 10"	7' 10"	13' 0"	11' 11"	10' 5"	8' 3"	7' 7"	6' 8"	11' 1"	10' 1"	8' 5"
362SFS144-30EQD	57	11' 7"	10' 9"	9' 8"	16' 7"	15' 4"	13' 7"	10' 5"	9' 8"	8' 8"	14' 10"	13' 7"	12' 0"	9' 1"	8' 5"	7' 7"	12' 8"	11' 8"	10' 2"
400SFS125-D20	57	10' 3"	9' 6"	8' 6"	14' 7"	13' 5"	12' 0"	9' 2"	8' 6"	7' 8"	13' 0"	12' 0"	10' 8"	8' 0"	7' 5"	6' 7"	11' 3"	10' 4"	9' 0"
400SFS144-D20	57	10' 10"	10' 1"	9' 0"	15' 0"	13' 9"	12' 2"	9' 9"	9' 0"	8' 0"	13' 3"	12' 2"	10' 8"	7' 9"	7' 2"	6' 4"	10' 5"	9' 5"	8' 0"
400SFS144-30EQD	57	11' 11"	11' 0"	9' 11"	17' 0"	15' 9"	14' 0"	10' 8"	9' 11"	8' 11"	15' 3"	14' 0"	12' 5"	9' 4"	8' 8"	7' 9"	13' 1"	12' 0"	10' 6"
550SFS144-30EQD	57	13' 3"	12' 4"	11' 1"	19' 3"	17' 11"	16' 2"	11' 11"	11' 1"	10' 0"	17' 5"	16' 2"	14' 6"	10' 6"	9' 9"	8' 10"	15' 3"	14' 0"	12' 3"
600SFS144-30EQD	57	13' 7"	12' 7"	11' 4"	19' 5"	18' 0"	16' 2"	12' 3"	11' 4"	10' 2"	17' 5"	16' 2"	14' 5"	10' 8"	9' 10"	8' 10"	15' 2"	14' 0"	12' 4"

Ceiling Span Tables - Deflection Limit L/240

Section	Fy (ksi)	4 psf						6 psf						10 psf						13 psf					
		Lateral Support of Compression Flange			Lateral Support of Compression Flange			Lateral Support of Compression Flange			Lateral Support of Compression Flange			Lateral Support of Compression Flange			Lateral Support of Compression Flange			Lateral Support of Compression Flange					
		Unsupported		Midspan	Unsupported		Midspan	Unsupported		Midspan	Unsupported		Midspan	Unsupported		Midspan	Unsupported		Midspan	Unsupported		Midspan			
12	16	24	12	16	24	12	16	24	12	16	24	12	16	24	12	16	24	12	16	24	12	16	24		
162SFS125-D20	57	8' 2"	7' 6"	6' 8"	8' 5"	7' 8"	6' 8"	7' 3"	6' 8"	5' 10"	7' 4"	6' 8"	5' 10"	6' 2"	5' 8"	4' 11"	6' 2"	5' 8"	4' 11"	5' 10"	5' 3"	4' 5"	5' 10"	5' 3"	4' 7"
162SFS144-D20	57	8' 5"	7' 8"	6' 10"	8' 10"	8' 0"	7' 0"	7' 5"	6' 10"	6' 0"	7' 9"	7' 0"	6' 2"	5' 10"	5' 4"	4' 7"	6' 6"	5' 11"	5' 1"	5' 10"	5' 4"	4' 7"	6' 0"	5' 5"	4' 9"
162SFS125-30EQD	57	8' 9"	8' 1"	7' 3"	9' 3"	8' 5"	7' 4"	7' 10"	7' 3"	-6' 5"	8' 1"	7' 4"	6' 5"	6' 10"	6' 2"	5' 5"	6' 10"	6' 2"	5' 5"	6' 3"	5' 8"	4' 11"	6' 3"	5' 8"	4' 11"
162SFS144-30EQD	57	9' 5"	8' 7"	7' 6"	9' 5"	8' 7"	7' 6"	8' 3"	7' 6"	6' 6"	8' 3"	7' 6"	6' 6"	6' 11"	6' 4"	5' 6"	6' 11"	6' 4"	5' 6"	6' 4"	5' 9"	4' 11"	6' 4"	5' 9"	5' 0"
250SFS125-D20	57	9' 2"	8' 6"	7' 8"	11' 9"	10' 8"	9' 4"	8' 3"	7' 8"	6' 10"	13' 0"	9' 4"	8' 2"	7' 2"	6' 8"	5' 11"	8' 8"	7' 10"	6' 10"	6' 8"	6' 2"	5' 6"	8' 1"	7' 3"	6' 4"
250SFS144-D20	57	9' 5"	8' 9"	7' 10"	12' 2"	11' 1"	9' 8"	8' 6"	7' 10"	6' 11"	10' 7"	9' 8"	8' 5"	6' 9"	6' 2"	5' 6"	8' 9"	7' 9"	6' 6"	6' 9"	6' 2"	5' 6"	8' 2"	7' 5"	6' 6"
250SFS125-30EQD	57	9' 9"	9' 1"	8' 2"	12' 10"	11' 8"	10' 3"	8' 9"	8' 2"	7' 4"	11' 3"	10' 3"	8' 11"	7' 8"	7' 2"	6' 5"	9' 6"	8' 7"	7' 6"	7' 2"	6' 8"	6' 0"	8' 8"	7' 11"	6' 11"
250SFS144-30EQD	57	10' 7"	9' 10"	8' 10"	13' 1"	11' 11"	10' 5"	9' 6"	8' 10"	7' 11"	11' 5"	10' 5"	9' 1"	8' 4"	7' 9"	6' 11"	9' 8"	8' 9"	7' 8"	7' 9"	7' 2"	6' 5"	8' 10"	8' 0"	7' 0"
350SFS125-D20	57	9' 10"	9' 2"	8' 3"	14' 1"	12' 11"	11' 6"	8' 10"	8' 3"	7' 5"	12' 6"	11' 6"	10' 3"	7' 9"	7' 2"	6' 5"	10' 10"	9' 11"	8' 5"	7' 3"	6' 8"	5' 11"	10' 0"	9' 1"	6' 6"
350SFS144-D20	57	10' 5"	9' 8"	8' 8"	14' 7"	13' 4"	11' 10"	9' 4"	8' 8"	7' 9"	12' 10"	11' 10"	10' 4"	7' 6"	6' 11"	6' 1"	10' 0"	9' 0"	7' 8"	7' 6"	6' 11"	6' 1"	10' 0"	9' 0"	6' 6"
350SFS125-30EQD	57	10' 7"	9' 10"	8' 10"	15' 2"	14' 1"	12' 8"	9' 6"	8' 10"	7' 11"	13' 8"	12' 8"	11' 3"	8' 4"	7' 8"	6' 11"	11' 10"	10' 11"	9' 7"	7' 9"	7' 2"	6' 5"	11' 0"	10' 1"	9' 8"
350SFS144-30EQD	57	11' 6"	10' 8"	9' 7"	16' 6"	15' 2"	13' 5"	10' 4"	9' 7"	8' 7"	14' 8"	13' 5"	11' 10"	9' 0"	8' 4"	7' 6"	17' 7"	11' 5"	9' 11"	8' 5"	7' 9"	6' 11"	11' 6"	10' 5"	9' 0"
362SFS125-D20	57	10' 0"	9' 3"	8' 4"	14' 2"	13' 1"	11' 8"	8' 11"	8' 4"	7' 5"	12' 8"	11' 8"	10' 4"	7' 10"	7' 3"	6' 5"	10' 11"	10' 0"	8' 4"	7' 3"	6' 9"	6' 0"	10' 1"	9' 2"	6' 5"
362SFS144-D20	57	10' 6"	9' 9"	8' 10"	14' 8"	13' 6"	11' 11"	9' 6"	8' 10"	7' 10"	13' 0"	11' 11"	10' 5"	8' 3"	7' 7"	6' 8"	11' 1"	10' 1"	8' 5"	7' 7"	7' 0"	6' 2"	10' 2"	9' 2"	6' 6"
362SFS125-30EQD	57	10' 8"	9' 11"	8' 11"	15' 4"	14' 2"	12' 9"	7' 9"	7' 11"	8' 0"	13' 9"	12' 9"	11' 4"	8' 5"	7' 9"	7' 0"	12' 0"	11' 0"	9' 9"	7' 10"	7' 3"	6' 6"	11' 1"	10' 2"	8' 11"
362SFS144-30EQD	57	11' 7"	10' 9"	9' 8"	16' 7"	15' 4"	13' 7"	10' 5"	9' 8"	8' 8"	14' 10"	13' 7"	12' 0"	9' 1"	8' 5"	7' 7"	12' 8"	11' 8"	10' 2"	8' 6"	7' 10"	7' 0"	11' 9"	10' 8"	9' 2"
400SFS125-D20*	57	10' 3"	9' 6"	8' 6"	14' 7"	13' 5"	12' 0"	9' 2"	8' 6"	7' 8"	13' 0"	12' 0"	10' 8"	8' 0"	7' 5"	6' 7"	11' 3"	10' 4"	9' 0"	7' 6"	6' 11"	6' 2"	10' 5"	9' 6"	8' 3"
400SFS144-D20	57	10' 10"	10' 1"	9' 0"	15' 0"	13' 9"	12' 2"	9' 9"	9' 0"	8' 0"	13' 2"	13' 2"	10' 8"	7' 9"	7' 2"	6' 4"	10' 5"	9' 5"	8' 0"	7' 9"	7' 2"	6' 4"	10' 5"	9' 5"	8' 0"
400SFS125-30EQD	57	11' 0"	10' 2"	9' 1"	15' 8"	14' 6"	13' 1"	10' 9"	11' 1"	8' 2"	14' 1"	13' 1"	11' 8"	8' 7"	7' 11"	7' 2"	12' 4"	11' 4"	10' 0"	8' 0"	7' 5"	6' 8"	11' 5"	10' 6"	9' 2"
400SFS144-30EQD	57	11' 11"	11' 0"	9' 11"	17' 0"	15' 9"	14' 0"	10' 8"	9' 11"	8' 11"	15' 3"	14' 0"	12' 5"	9' 4"	8' 8"	7' 9"	13' 1"	12' 0"	10' 6"	8' 8"	8' 1"	7' 2"	12' 1"	11' 1"	9' 7"
550SFS125-30EQD*	57	12' 3"	11' 14"	10' 2"	17' 6"	16' 3"	14' 7"	11' 0"	10' 2"	9' 2"	15' 9"	14' 7"	13' 1"	9' 7"	8' 11"	8' 0"	13' 9"	12' 8"	11' 4"	8' 11"	8' 3"	7' 5"	12' 9"	11' 10"	10' 6"
550SFS144-30EQD	57	13' 3"	12' 4"	11' 11"	19' 3"	17' 11"	16' 2"	11' 11"	11' 1"	10' 0"	17' 5"	16' 2"	14' 6"	10' 6"	9' 9"	8' 10"	15' 3"	14' 0"	12' 3"	9' 10"	9' 1"	8' 3"	14' 1"	12' 4"	8' 3"
600SFS125-30EQD*	57	12' 7"	11' 8"	10' 5"	17' 11"	16' 7"	14' 11"	11' 3"	10' 5"	9' 4"	14' 11"	13' 4"	14' 11"	9' 10"	8' 2"	14' 0"	13' 0"	11' 7"	9' 2"	8' 6"	7' 7"	13' 1"	12' 1"	10' 9"	
600SFS144-30EQD	57	13' 7"	12' 7"	11' 4"	19' 5"	18' 0"	16' 2"	12' 3"	11' 4"	10' 2"	17' 5"	16' 2"	14' 5"	10' 8"	9' 10"	8' 10"	15' 2"	14' 0"	12' 4"	9' 11"	9' 2"	8' 3"	14' 1"	12' 4"	8' 3"

Ceiling Span Tables - Deflection Limit L/360

Section	Fy (ksi)	4 psf						6 psf						10 psf						13 psf					
		Lateral Support of Compression Flange						Lateral Support of Compression Flange						Lateral Support of Compression Flange						Lateral Support of Compression Flange					
		Unsupported			Midspan			Unsupported			Midspan			Unsupported			Midspan			Unsupported			Midspan		
		12	16	24	12	16	24	12	16	24	12	16	24	12	16	24	12	16	24	12	16	24	12	16	24
162SF5125-D20	57	7' 4"	6' 8"	5' 10"	7' 4"	6' 8"	5' 10"	6' 5"	5' 10"	5' 1"	6' 5"	5' 10"	5' 1"	5' 5"	4' 11"	4' 3"	5' 5"	4' 11"	4' 3"	5' 1"	4' 7"	4' 0"	5' 1"	4' 7"	4' 0"
162SF5144-D20	57	7' 9"	7' 0"	6' 2"	7' 9"	7' 0"	6' 2"	6' 9"	6' 2"	5' 4"	6' 9"	6' 2"	5' 4"	5' 8"	5' 2"	4' 6"	5' 8"	5' 2"	4' 6"	5' 3"	4' 9"	4' 2"	5' 3"	4' 9"	4' 2"
162SF5125-30EQD	57	8' 1"	7' 4"	6' 5"	8' 1"	7' 4"	6' 5"	7' 1"	6' 5"	5' 7"	7' 1"	6' 5"	5' 7"	5' 11"	5' 5"	4' 9"	5' 11"	5' 5"	4' 9"	5' 5"	4' 11"	4' 4"	5' 5"	4' 11"	4' 4"
162SF5144-30EQD	57	8' 3"	7' 6"	6' 6"	8' 3"	7' 6"	6' 6"	7' 2"	6' 6"	5' 8"	7' 2"	6' 6"	5' 8"	6' 1"	5' 6"	4' 10"	6' 1"	5' 6"	4' 10"	5' 7"	5' 0"	4' 5"	5' 7"	5' 0"	4' 5"
250SF5125-D20	57	9' 2"	8' 6"	7' 8"	10' 3"	9' 4"	8' 2"	8' 3"	7' 8"	6' 10"	9' 0"	8' 2"	7' 1"	7' 2"	6' 8"	5' 11"	7' 7"	6' 10"	6' 0"	6' 8"	6' 2"	5' 6"	7' 1"	6' 5"	5' 7"
250SF5144-D20	57	9' 5"	8' 9"	7' 10"	10' 7"	9' 8"	8' 5"	7' 6"	7' 10"	6' 11"	9' 3"	8' 5"	7' 4"	6' 9"	6' 2"	5' 6"	7' 10"	7' 1"	6' 3"	6' 9"	6' 2"	5' 6"	7' 2"	6' 6"	5' 8"
250SF5125-30EQD	57	9' 9"	9' 1"	8' 2"	11' 3"	10' 3"	8' 11"	8' 9"	8' 2"	7' 4"	9' 10"	8' 11"	7' 9"	7' 8"	7' 2"	6' 5"	8' 3"	7' 6"	6' 7"	7' 2"	6' 8"	6' 0"	7' 7"	6' 11"	6' 0"
250SF5144-30EQD	57	10' 7"	9' 10"	8' 10"	11' 5"	10' 5"	9' 1"	9' 6"	8' 10"	7' 11"	10' 0"	9' 1"	7' 11"	8' 4"	7' 8"	6' 8"	8' 5"	7' 8"	6' 8"	7' 9"	7' 0"	6' 1"	7' 9"	7' 0"	6' 1"
350SF5125-D20	57	9' 10"	9' 2"	8' 3"	13' 5"	12' 2"	10' 8"	8' 3"	7' 5"	11' 8"	10' 8"	9' 3"	7' 9"	7' 2"	6' 5"	9' 10"	9' 0"	7' 10"	7' 3"	6' 8"	5' 11"	9' 2"	8' 4"	6' 6"	
350SF5144-D20	57	10' 5"	9' 8"	8' 8"	13' 8"	12' 5"	10' 10"	9' 4"	8' 8"	7' 9"	11' 11"	10' 10"	9' 6"	7' 6"	6' 11"	6' 1"	10' 0"	9' 0"	7' 8"	7' 6"	6' 11"	6' 1"	9' 3"	8' 5"	6' 6"
350SF5125-30EQD	57	10' 7"	9' 10"	8' 10"	14' 7"	13' 3"	11' 7"	9' 6"	7' 7"	11' 11"	12' 9"	11' 7"	10' 1"	8' 4"	7' 8"	6' 11"	10' 9"	9' 9"	8' 6"	7' 9"	7' 2"	6' 5"	9' 10"	8' 11"	7' 10"
350SF5144-30EQD	57	11' 6"	10' 8"	9' 7"	14' 11"	13' 6"	11' 10"	10' 4"	9' 7"	8' 7"	13' 0"	11' 10"	10' 4"	9' 0"	8' 4"	7' 6"	10' 11"	9' 11"	8' 8"	8' 5"	7' 9"	6' 11"	10' 0"	9' 1"	7' 11"
362SF5125-D20	57	10' 0"	9' 3"	8' 4"	13' 9"	12' 6"	10' 11"	8' 11"	8' 4"	7' 5"	12' 0"	10' 11"	9' 7"	7' 10"	7' 3"	6' 5"	10' 2"	9' 3"	8' 1"	7' 3"	6' 0"	9' 5"	8' 6"	6' 5"	
362SF5144-D20	57	10' 6"	9' 9"	8' 10"	14' 0"	12' 9"	11' 2"	9' 6"	8' 10"	7' 10"	12' 3"	11' 2"	9' 9"	8' 3"	7' 7"	6' 8"	10' 4"	9' 5"	8' 2"	7' 7"	7' 0"	6' 2"	9' 6"	8' 7"	6' 6"
362SF5125-30EQD	57	10' 8"	9' 11"	8' 11"	15' 0"	13' 7"	11' 11"	9' 7"	8' 11"	8' 0"	13' 1"	11' 11"	10' 5"	8' 5"	7' 9"	7' 0"	11' 0"	10' 0"	8' 9"	7' 10"	7' 3"	6' 6"	10' 1"	9' 2"	8' 0"
362SF5144-30EQD	57	11' 7"	10' 9"	9' 8"	15' 4"	13' 11"	12' 2"	10' 5"	9' 8"	8' 8"	13' 4"	12' 2"	10' 7"	9' 1"	8' 5"	7' 7"	11' 3"	10' 3"	8' 11"	8' 6"	7' 10"	7' 0"	10' 4"	9' 4"	8' 2"
400SF5125-D20*	57	10' 3"	9' 6"	8' 6"	14' 7"	13' 5"	11' 10"	9' 2"	8' 6"	7' 8"	13' 0"	11' 10"	10' 4"	8' 0"	7' 5"	6' 7"	11' 0"	10' 0"	8' 8"	7' 6"	6' 11"	6' 2"	10' 2"	9' 3"	8' 0"
400SF5144-D20	57	10' 10"	10' 1"	9' 0"	14' 10"	13' 6"	11' 9"	9' 9"	9' 0"	8' 0"	13' 0"	11' 9"	10' 4"	7' 9"	7' 2"	6' 4"	10' 0"	9' 1"	8' 0"	7' 9"	7' 2"	6' 4"	10' 0"	9' 1"	8' 0"
400SF5125-30EQD	57	11' 0"	10' 2"	9' 1"	15' 8"	14' 6"	12' 10"	9' 10"	9' 1"	8' 2"	14' 1"	12' 10"	11' 3"	8' 7"	7' 11"	7' 2"	11' 11"	10' 10"	9' 5"	8' 0"	7' 5"	6' 8"	10' 11"	9' 11"	8' 8"
400SF5144-30EQD	57	11' 11"	11' 0"	9' 11"	16' 6"	15' 0"	13' 1"	10' 8"	9' 11"	14' 1"	15' 3"	13' 1"	11' 5"	9' 4"	8' 8"	7' 9"	12' 2"	11' 1"	9' 8"	8' 8"	8' 1"	7' 2"	11' 2"	10' 2"	8' 10"
550SF5125-30EQD*	57	12' 3"	11' 4"	10' 2"	17' 6"	16' 3"	14' 7"	11' 0"	10' 2"	9' 2"	15' 9"	14' 7"	13' 1"	9' 7"	8' 11"	8' 0"	13' 9"	12' 8"	11' 4"	8' 11"	8' 3"	7' 5"	12' 9"	11' 10"	10' 6"
550SF5144-30EQD	57	13' 3"	12' 4"	11' 11"	19' 3"	17' 11"	16' 2"	11' 11"	11' 1"	10' 0"	17' 5"	16' 2"	14' 6"	10' 6"	9' 9"	8' 10"	15' 3"	14' 0"	12' 3"	9' 10"	9' 1"	8' 3"	14' 1"	12' 4"	8' 3"
600SF5125-30EQD*	57	12' 7"	11' 8"	10' 5"	17' 11"	16' 7"	14' 11"	11' 3"	10' 5"	9' 4"	16' 1"	14' 11"	13' 4"	9' 10"	9' 1"	8' 2"	14' 0"	13' 0"	11' 7"	9' 2"	8' 6"	7' 8"	13' 1"	12' 10"	10' 9"
600SF5144-30EQD	57	13' 7"	12' 7"	11' 4"	19' 5"	18' 0"	16' 2"	12' 3"	14' 10"	12' 7"	17' 5"	16' 2"	14' 5"	10' 8"	9' 10"	8' 10"	15' 2"	14' 0"	13' 0"	9' 11"	9' 2"	8' 3"	14' 1"	12' 4"	8' 3"

Table Notes: 1.* Require web stiffeners at supports 2. End lateral bearing - 1 inch minimum

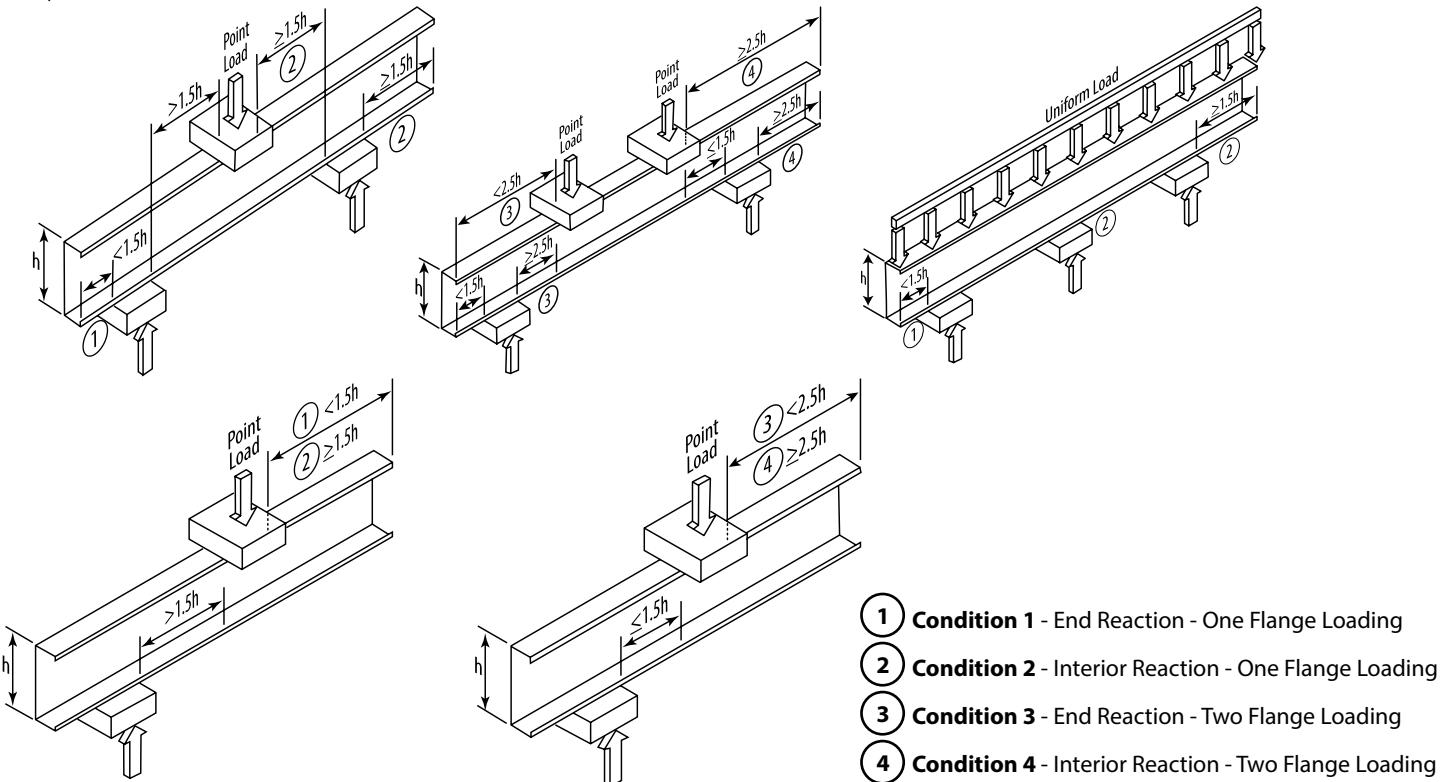
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Supreme Web Crippling

Web Section	Design Thickness (in)	Mil Thickness	Fy (ksi)	Condition 1			Condition 2			Condition 3			Condition 4			
				Bearing Length (in)	1	3.5	6	Bearing Length (in)	1	3.5	6	Bearing Length (in)	1	3.5	6	
162	0.0188	D20	57	95	155	194		150	216	260	78	110	131	210	277	322
162	0.0235	30EQD	57	147	237	296		250	353	422	128	177	210	338	439	506
250	0.0188	D20	57	90	146	183		146	211	254	63	89	106	189	250	290
250	0.0235	30EQD	57	140	225	281		244	345	413	108	149	176	309	401	463
350	0.0188	D20	57	85	138	173		143	206	247	49	69	82	169	224	260
350	0.0235	30EQD	57	133	214	267		239	338	404	88	122	145	282	366	422
362	0.0188	D20	57	84	137	142		142	205	247	47	67	80	167	221	257
362	0.0235	30EQD	57	132	213	266		238	337	403	86	119	141	279	362	417
400	0.0188	D20	57	See Note 2 below												
400	0.0235	30EQD	57	130	209	261		236	334	400	80	110	131	270	351	404
550	0.0188	D20	57	See Note 1 below												
550	0.0235	30EQD	57	122	196	245		230	326	389	57	79	94	238	309	357
600	0.0188	D20	57	See Note 1 below												
600	0.0235	30EQD	57	107	192	240		228	323	386	50	70	83	229	297	342

Table Notes:

1. h/t exceeds 260. Section is not in compliance with AISI NASPEC Section B1.2 for steel only design, but may be used in accordance with SSFSA's published composite wall data for these members
2. h/t of web exceeds AISI NASPEC Section B1.2 limit of 200, therefore bearing stiffeners are required when used in non-composite wall assemblies.
3. For 550 and 600SFS30EQD h/t exceeds 200. However, confirmatory testing has shown that the NASPEC equations conservatively predict web crippling capacities for these members. Thus, loads at or below those listed require no web stiffeners.



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

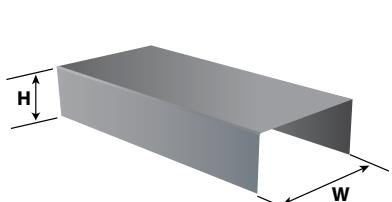
SUPREME STUD - DEEP LEG TRACK

Supreme Deep Leg Track (SFT) - Section Properties

Part Number	Design Thickness (in)	Fy (ksi)	Area (in ²)	Weight (lb/ft)	Gross Properties					Effective Properties				Torsional Properties					
					I _x (in ⁴)	S _x (in ³)	R _x (in)	I _y (in ⁴)	R _y (in)	L _{xe} (in ⁴)	S _{xe} (in ³)	M _a (in-k)	V _{ag} (lb)	J _{x1000} (in ⁴)	C _W (in ⁶)	X _o (in)	m (in)	R _o (in)	β
162SFT200-D20	0.0188	57	0.106	0.36	0.063	0.072	0.770	0.046	0.662	-	-	-	-	0.013	0.026	-1.574	0.869	1.873	0.294
162SFT200-30EQD	0.0235	57	0.132	0.45	0.079	0.090	0.771	0.058	0.661	-	-	-	-	0.024	0.032	-1.571	0.868	1.871	0.295
162SFT250-D20	0.0188	57	0.125	0.42	0.077	0.088	0.785	0.085	0.823	-	-	-	-	0.015	0.047	-2.052	1.116	2.346	0.235
162SFT250-30EQD	0.0235	57	0.156	0.53	0.096	0.110	0.786	0.105	0.823	-	-	-	-	0.029	0.059	-2.049	1.115	2.344	0.236
162SFT300-30EQD	0.0235	57	0.179	0.61	0.114	0.130	0.797	0.172	0.980	-	-	-	-	0.033	0.099	-2.534	1.363	2.831	0.199
250SFT200-D20	0.0188	57	0.122	0.42	0.152	0.116	1.114	0.053	0.661	-	-	-	-	0.014	0.064	-1.427	0.082	1.927	0.452
250SFT200-30EQD	0.0235	57	0.153	0.52	0.190	0.144	1.115	0.067	0.660	-	-	-	-	0.028	0.080	-1.424	0.816	1.926	0.453
250SFT250-D20	0.0188	57	0.141	0.48	0.184	0.140	1.141	0.097	0.830	-	-	-	-	0.017	0.119	-1.887	1.061	2.356	0.359
250SFT250-30EQD	0.0235	57	0.176	0.60	0.230	0.175	1.142	0.121	0.829	-	-	-	-	0.033	0.148	-1.885	1.059	2.355	0.359
250SFT300-D20	0.0188	57	0.160	0.54	0.216	0.164	1.610	0.158	0.995	-	-	-	-	0.019	0.196	-2.358	1.306	2.810	0.296
250SFT300-30EQD	0.0235	57	0.200	0.68	0.270	0.205	1.162	0.198	0.994	-	-	-	-	0.037	0.245	-2.355	1.305	2.808	0.297
350SFT200-D20	0.0188	57	0.141	0.48	0.311	0.172	1.485	0.060	0.649	-	-	-	-	0.017	0.136	-1.293	0.765	2.073	0.611
350SFT200-30EQD	0.0235	57	0.176	0.60	0.389	0.215	1.486	0.074	0.649	-	-	-	-	0.033	0.170	-1.291	0.763	2.072	0.612
350SFT250-D20	0.0188	57	0.160	0.54	0.372	0.206	1.526	0.109	0.824	-	-	-	-	0.019	0.249	-1.733	1.003	2.452	0.500
350SFT250-30EQD	0.0235	57	0.200	0.68	0.466	0.257	1.527	0.135	0.823	-	-	-	-	0.037	0.311	-1.731	1.002	2.450	0.501
350SFT300-D20	0.0188	57	0.179	0.61	0.433	0.239	1.557	0.177	0.995	-	-	-	-	0.021	0.409	-2.186	1.245	2.863	0.417
350SFT300-30EQD	0.0235	57	0.223	0.76	0.542	0.299	1.558	0.221	0.994	-	-	-	-	0.041	0.510	-2.184	1.244	2.861	0.417
362SFT200-D20	0.0188	57	0.143	0.49	0.336	0.179	1.530	0.060	0.648	-	-	-	-	0.017	0.147	-1.278	0.759	2.096	0.628
362SFT200-30EQD	0.0235	57	0.179	0.61	0.420	0.224	1.531	0.075	0.647	-	-	-	-	0.033	0.184	-1.276	0.758	2.095	0.629
362SFT250-D20	0.0188	57	0.162	0.55	0.401	0.214	1.573	0.110	0.823	-	-	-	-	0.019	0.269	-1.716	0.997	2.469	0.517
362SFT250-30EQD	0.0235	57	0.203	0.69	0.502	0.267	1.573	0.137	0.822	-	-	-	-	0.037	0.336	-1.713	0.995	2.467	0.518
362SFT300-D20	0.0188	57	0.181	0.62	0.467	0.249	1.605	0.179	0.994	-	-	-	-	0.021	0.442	-2.167	1.238	2.874	0.432
362SFT300-30EQD	0.0235	57	0.226	0.77	0.584	0.311	1.606	0.223	0.994	-	-	-	-	0.042	0.552	-2.165	1.237	2.873	0.432
400SFT200-D20 ²	0.0188	57	0.151	0.51	0.417	0.202	1.664	0.062	0.642	-	-	-	-	0.018	0.184	-1.236	0.741	2.170	0.676
400SFT200-30EQD	0.0235	57	0.188	0.64	0.521	0.253	1.665	0.077	0.641	-	-	-	-	0.035	0.229	-1.234	0.740	2.169	0.676
400SFT250-D20	0.0188	57	0.169	0.58	0.496	0.241	1.712	0.113	0.818	-	-	-	-	0.020	0.335	-1.666	0.977	2.525	0.565
400SFT250-30EQD	0.0235	57	0.212	0.72	0.620	0.300	1.712	0.141	0.817	-	-	-	-	0.039	0.419	-1.664	0.976	2.523	0.565
400SFT300-D20	0.0188	57	0.188	0.64	0.575	0.279	1.749	0.185	0.991	-	-	-	-	0.022	0.550	-2.111	1.217	2.915	0.475
400SFT300-30EQD	0.0235	57	0.235	0.80	0.719	0.348	1.749	0.231	0.991	-	-	-	-	0.043	0.687	-2.109	1.216	2.913	0.476
550SFT200-D20 ¹	0.0188	57	0.179	0.61	0.851	0.303	2.182	0.068	0.616	See note 1 below				0.021	0.380	-1.095	0.677	2.518	0.811
550SFT200-30EQD ²	0.0235	57	0.223	0.76	1.064	0.378	2.183	0.085	0.615	-	-	-	-	0.041	0.474	-1.093	0.676	2.517	0.812
550SFT250-D20	0.0188	57	0.198	0.67	0.999	0.355	2.249	0.125	0.795	-	-	-	-	0.023	0.691	-1.496	0.906	2.816	0.718
550SFT250-30EQD	0.0235	57	0.247	0.84	1.249	0.444	2.249	0.156	0.794	-	-	-	-	0.045	0.862	-1.494	0.905	2.815	0.718
550SFT300-D20	0.0188	57	0.216	0.74	1.146	0.408	2.302	0.205	0.972	-	-	-	-	0.026	1.127	-1.917	1.139	3.150	0.630
550SFT300-30EQD	0.0235	57	0.270	0.92	1.433	0.509	2.303	0.255	0.972	-	-	-	-	0.050	1.408	-1.915	1.138	3.148	0.630
600SFT200-D20 ¹	0.0188	57	0.188	0.64	1.039	0.339	2.350	0.069	0.607	See note 1 below				0.022	0.464	-1.055	0.659	2.647	0.841
600SFT200-30EQD ²	0.0235	57	0.235	0.80	1.299	0.424	2.351	0.086	0.606	-	-	-	-	0.043	0.578	-1.053	0.658	2.646	0.842
600SFT250-D20	0.0188	57	0.207	0.70	1.214	0.397	2.422	0.128	0.786	-	-	-	-	0.024	0.843	-1.448	0.884	2.930	0.756
600SFT250-30EQD	0.0235	57	0.259	0.88	1.518	0.495	2.423	0.159	0.785	-	-	-	-	0.048	1.052	-1.446	0.883	2.929	0.756
600SFT300-D20	0.0188	57	0.226	0.77	1.389	0.454	2.481	0.210	0.965	-	-	-	-	0.027	1.375	-1.861	1.116	3.248	0.672
600SFT300-30EQD	0.0235	57	0.282	0.96	1.737	0.567	2.482	0.262	0.964	-	-	-	-	0.052	1.716	-1.859	1.115	3.247	0.672

Note: See track notes on page 10

Supreme Stud Deep Leg Track



D = Drywall / Non Structural, S = Structural

Thickness Nomenclature	Min Base Metal Thickness (in)	Design Thickness (in)	Min Yield Strength (ksi)	Standard Galvanization	Track Web Sizes (in)	Track Flange / Leg Sizes (in)	Gap (in)
D20	0.0179"	0.0188"	57 ksi	G40	2.5", 3.5", 3-5/8", 4", 5.5", 6"	2", 2.5", 3"	2"leg = 1/2" gap 2.5"leg = 3/4" gap 3.0"leg = 1.0" gap
30EQD	0.0223"	0.0235"	57 ksi	G40	2.5", 3.5", 3-5/8", 4", 5.5", 6"	2", 2.5", 3"	

Web Depth-to-Thickness Ratios

Mil Thickness Design Thickness (in) Inside Bend Radius (in) Depth (in)	D25 0.0155 0.086		D20 0.0188 0.0844		30EQD 0.0235 0.082	
	h (in)²	hit	h (in)²	hit	h (in)²	hit
1.625	1.422	91	1.419	75	1.414	60
2.5	2.297	148	2.294	122	2.289	97
3.5	3.297	2131	3.294	175	3.289	139
3.625	3.422	2211	3.419	181	3.414	145
4	3.797	2451	3.794	200	3.789	161
5.5	5.297		5.294		5.289	225 1
6	5.797		5.794		5.789	246 1
8	7.797		7.794		7.789	

NOTES: 1 h/t exceeds 200, web stiffeners required

2 h value used for h/t calculation is the flat width of the web. For SFS 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 SFS (studs and Joists) members only and do not apply to tracks and channels.

Definitions of Section Property Symbols

Gross Properties

I_x: Moment of inertia of the cross section about the x-axis.

S_x: Section modulus about the x-axis.

R_x: Radius of gyration of cross section about the x-axis.

I_y: Moment of inertia of cross section about the y-axis.

R_y: Radius of gyration of cross section about the y-axis.

Effective Properties

I_{xe}: Effective moment of inertia about the x-axis. **S_{xe}:** Effective section modulus about the x-axis. **M_a:** Allowable moment based on local buckling.

M_{ad}: Allowable moment based on distortional buckling assuming K_φ = 0.

M_a: Allowable moment for track and channel members, based on local buckling only.

V_{ag}: Allowable strong axis shear away from punchout, calculated in accordance with AISI S100 Section C3.2.1.

V_{anet}: Allowable strong axis shear at the punchout, calculated in accordance with AISI S100 Section C3.2.2.

Torsional and Other Properties

J: St. Venant torsional constant. The numbers shown in the tables for J have been multiplied by 1000. The actual values can be obtained by dividing the listed numbers by 1000.

C_w: Torsional warping constant.

X_o: Distance from the shear center to the centroid along the principal x-axis.

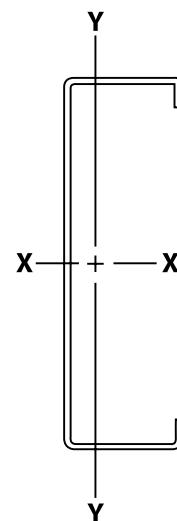
m: Distance from shear center to mid-plane of web.

R_o: Polar radius of gyration of cross section about the shear center.

β: $1 - (X_o/R_o)^2$

L_u: Critical unbraced length for lateral-torsional buckling. Members are considered fully braced when unbraced length is less than L_u.

K_φ: Distortional buckling moment (M_{ad}) is calculated without the beneficial effect of sheathing to rotational stiffness. K_φ = 0.



Riverbank Acoustical LABORATORIES ACOUSTIC PERFORMANCE SUPREME TESTING ASSEMBLIES (ASTM E 90)

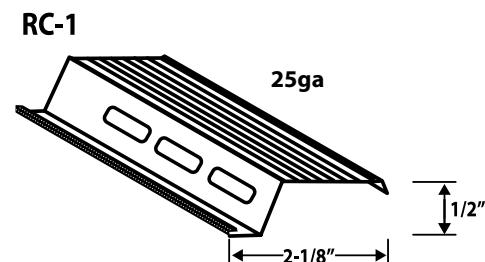
All acoustical data was independently tested by Riverbank Acoustical Laboratories utilizing the Supreme Framing System and RC-1. Riverbank Acoustical is a nationally recognized company accredited by the National Institute of Standards and Technology (NIST) through the National Voluntary Laboratory Accreditation Program (NVLAP).

Partition Specifications

Partition Type	Side A	Side B	Gypsum Type	Insulation Type	Stud Spacing	STC Rating
1	1 layer	1 layer	5/8" Type X	-	24" oc	38
2	1 layer	1 layer	5/8" Type X	R-11 insulated	24" oc	47
3	1 layer	1 layer on RC-1	5/8" Type X	R-11 insulated	24" oc	52
4	2 layers	2 layers on RC-1	5/8" Type X	R-11 insulated	24" oc	61

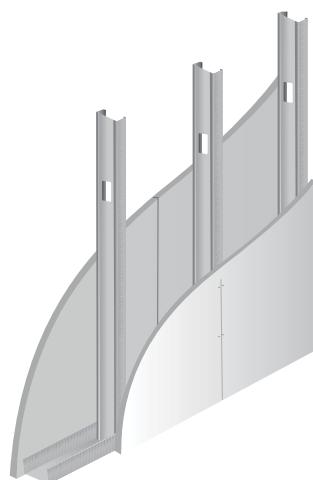
Typical RC-1 Installation Instructions for Walls

- Bottom RC-1 installed with mounting leg turned up, spaced 2" up from top track leg.
- Top RC-1 installed with mounting leg turned down, spaced 6" down from track leg.
- Middle RC-1 installed with mounting leg turned down, spaced 24" apart.
- Please reference Gypsum Association's GA-216 guidelines.



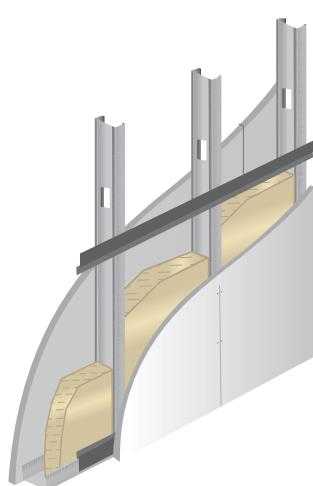
Typical RC-1 Installation Instructions for Ceilings

- When RC-1 is installed on a ceiling, it should be installed perpendicular to the joists.
- RC-1 should be installed on ceilings with the open side facing the same direction across the entire ceiling.
- RC-1 on ceilings should be installed with maximum of 6" spacing out from a wall.
- 16" OC joist spacing use 24" RC-1 spacing. 24" OC joist spacing use 16" RC-1 spacing.
- RC-1 can be overlapped at a support location with a minimum of 4" overlap.
- No more than two 5/8" gypsum boards should be fastened to an RC-1 channel with a maximum load of 5 lbs per SF.



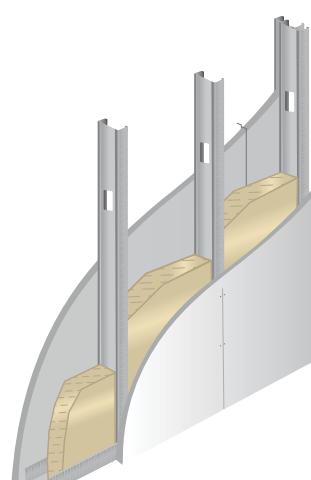
Partition Type 1

38 STC
3 5/8" Stud



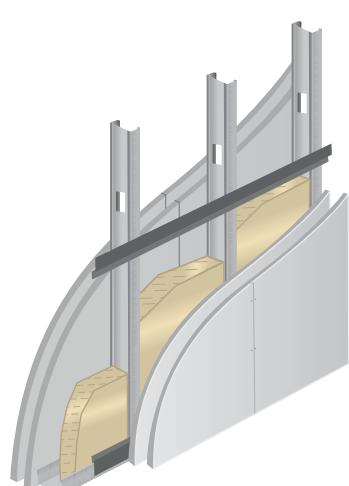
Partition Type 2

47 STC
3 5/8" Stud



Partition Type 3

52 STC
3 5/8" Stud



Partition Type 4

61 STC
3 5/8" Stud

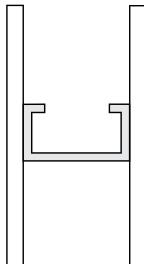


SUPREME STUD - TECHNICAL DATA - FIRE RATED ASSEMBLIES

UL Approved Designs

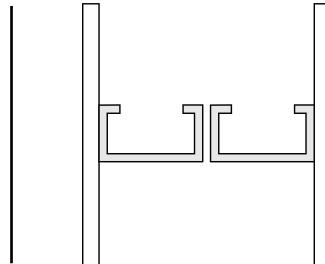
One-Hour Wall Assemblies - Non-Load Bearing

1 5/8" - 2 1/2' - 3 5/8" - 4" - 6"



One-Hour Wall Assembly

- Studs spaced 24" oc
- One layer of gypsum wallboard (GWB per UL design assembly)
- No insulation required

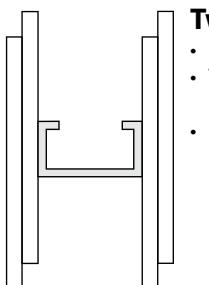


One-Hour Chase Wall Assembly

- Two rows of Supreme Studs
- Studs spaced 24" oc
- Can be aligned with 1" minimum spacing between studs from each row, staggered, or staggered and overlapped
- One layer of gypsum wallboard (GWB per UL design assembly)
- No insulation required

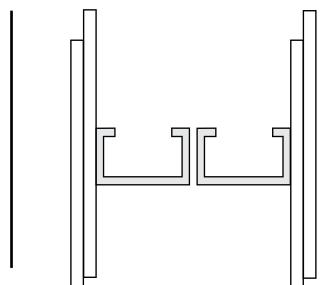
Two-Hour Wall Assemblies - Non-Load Bearing

1 5/8" - 2 1/2' - 3 5/8" - 4" - 6"



Two-Hour Wall Assembly

- Studs spaced 24" oc
- Two layers of gypsum wallboard (GWB per UL design assembly)
- No insulation required



Two-Hour Chase Wall Assembly

- Two rows of Supreme Studs
- Studs spaced 24" oc
- Can be aligned with 1" minimum spacing between studs from each row, staggered, or staggered and overlapped
- Two layers of gypsum wallboard (GWB per UL design assembly)
- No insulation required



UL Classifications for Supreme Framing System

V438, V486, V496, V498, U411, U412, U419,
U435, U465, U493



Fire Testing Data ASTM E 119

Notes:

1. Fire Ratings are for wall assemblies, not individual wall components.
2. Authorities Having Jurisdiction should be consulted in all cases as to the particular requirements covering the installation and use of UL Certified products, equipment, system, devices, and materials.
3. Fire resistance assemblies and products are developed by the design submitter and have been investigated by UL for compliance with applicable requirements.
4. The published information cannot always address every construction nuance encountered in the field. When field issues arise, it is recommended the first contact for assistance be the technical service staff provided by the product manufacturer noted for the design.
5. Users of fire resistance assemblies are advised to consult the general UL Guide Information for each product category and each group of assemblies. The UL Guide Information includes specifics concerning alternate materials and alternate methods of construction.

SUPREME STUD - SCREW AND WELD CAPACITIES

Screw Table Notes

- Capacities based on AISI S100 Section E4 specification.
- When connecting materials of different steel thicknesses or tensile strengths, use the lowest values. Tabulated values assume two sheets of equal thickness are connected.
- Capacities are based on Allowable Strength Design (ASD) and include safety factor of 3.0.
- Where multiple fasteners are used, screws are assumed to have a center-to-center spacing of at least 3 times the nominal diameter (d).

- Screws are assumed to have a center-of screw to edge-of steel dimension of at least 1.5 times the nominal diameter (d) of the screw.
- Values are for pure shear of tension loads. See AISI S100 Section E4.5 for combined shear and pull-over
- Tension capacity is based on the lesser of pull-out capacity in sheet closest to screw tip, or pull-over capacity for sheet closest to screw head (based on head diameter shown).
- Higher values, especially for screw strength, may be obtained by specifying screws from a specific manufacturer.

Allowable Screw Connection Capacity (Pounds Per Screw)

Thickness (Mils)	Design Thickness	Fy Yield (ksi)	Fu Tensile (ksi)	#6 Screw			#8 Screw			#10 Screw			#12 Screw			1/4" Screw	
				0.138" dia; 1/4" Head			0.164" dia; 5/16" Head			0.190" dia; 0.340" Head			0.216" dia; 0.340" Head			0.250" dia; 0.409" Head	
				Shear	Tension / Pullout	Pullover	Shear	Tension / Pullout	Pullover	Shear	Tension / Pullout	Pullover	Shear	Tension / Pullout	Pullover	Shear	Tension / Pullout
D25	0.0155	50	65	111 ¹	39	137	111 ¹	47	157	111 ¹	54	171	-	-	-	-	-
D20	0.0188	57	65	142 ¹	48	166	150 ¹	57	191	164 ¹	66	208	109	75	208	-	-
30EQD	0.0235	57	65	174 ¹	60	208	184 ¹	71	239	236 ¹	82	260	152	93	260	-	-

NOTES:

Values are based on testing using AISI procedures.

Weld Table Notes

- Weld capacities are based the AISI S100 Specification Sections E2.4 for fillet welds and E2.5 for groove welds.
- When connecting materials of different steel thicknesses or tensile strengths (Fu), the lowest values should be used.
- Capacities are based on Allowable Strength Design (ASD) and include appropriate safety factors.
- Longitudinal capacity is loading in parallel direction of the length of the weld.

- Weld capacities are based on either 0.0938" or 0.125" diameter E60 or E70 electrodes. The use of 0.030" to 0.035" diameter wire electrodes may provide best results.
- Transverse capacity is loading in perpendicular direction of the length of the weld.
- For flare groove welds, the effective throat of weld is conservatively assumed to be less than 2t.



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