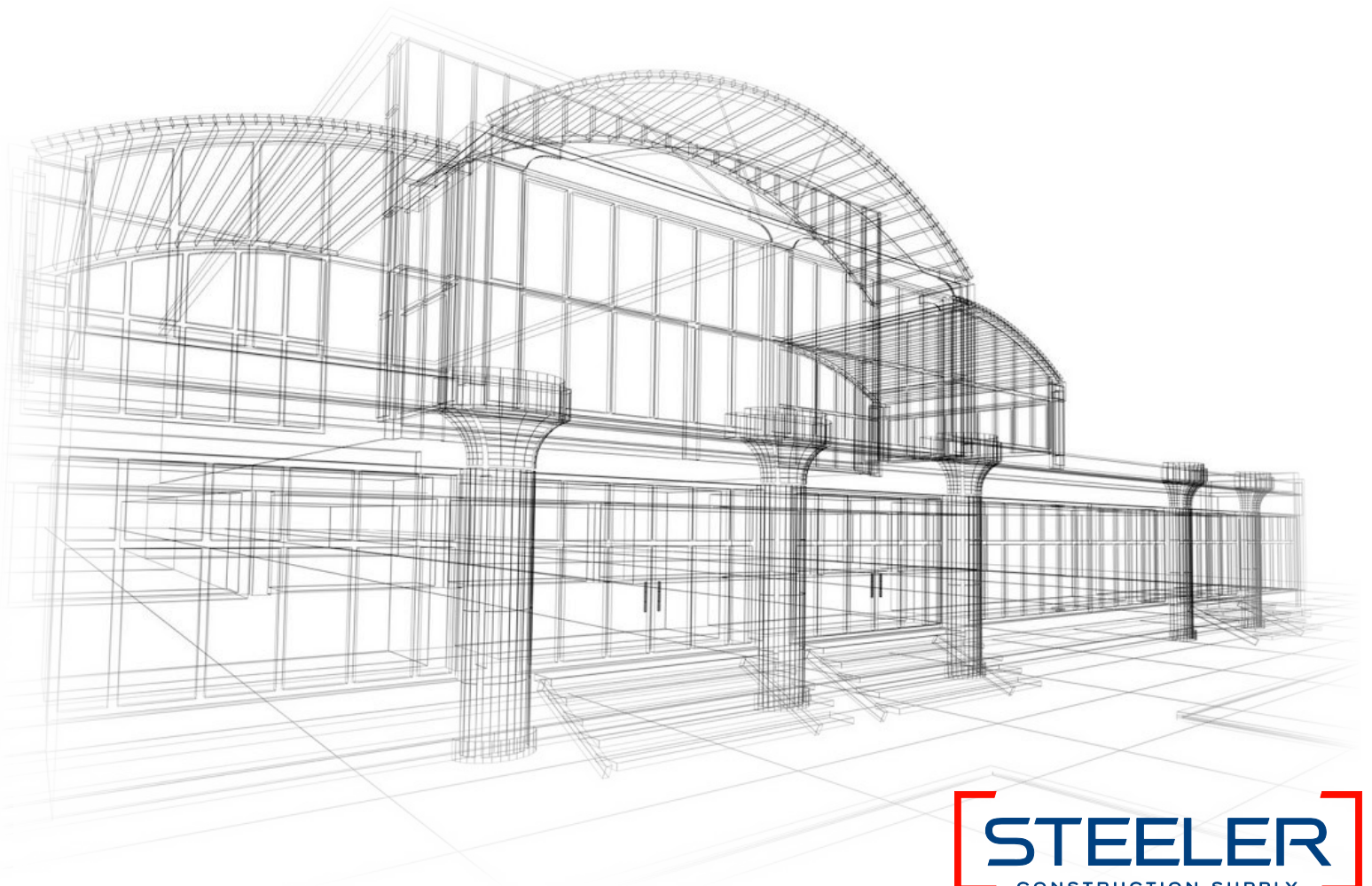


Over **43** YEARS  
of Service

**ELITE**   
**STEEL FRAMING SYSTEM™**

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Product Catalog



## //////CONTENTS

### Introduction

Letter from the President	3
What is ELITE?	4
ELITE Product Line Comparison	5

### ELITE Steel Framing System Spec Tables

Elite Framing Specifications	6
Elite Framing Dimensions	7
Elite Framing Connections	8
Elite Stud Section Properties	9
Elite Track Section Properties	13

### Additional Information

LEED®	17
Steeler Locations	19
Disclaimer	19

*User friendly, **Steeler** tough.*



**ELITE Steel Framing System** is a game-changer. Engineered to be stronger and lighter, Elite means more gain and less strain at the jobsite.

- **Save time and money:** Screws find their way through the steel more accurately with our flat flange.
- **Safety first:** Our track hemming eliminates sharp edges, reducing business liability.
- **Quality:** We use a full zinc coating to greatly minimize rust formation.
- **Trust:** Elite meets both ASTM C645 & ASTM C754, as well as IBC 2006, 2009, and 2012.
- **LEED with Green:** Because we use less steel to produce it, Elite is considered a green product which can earn your projects LEED® points.

Our engineers designed Elite with industry professionals in mind. Yet, Elite is just one of Steeler's many beneficial products.

Steeler covers all of your construction supply needs in one convenient place. We've partnered with some of the most reputable names in the wall & ceiling industry to adequately complement our top of the line products. Combined with our knowledgeable staff and expert engineering team, Steeler is there when you need us most.



## ////MESSAGE FROM STEELER'S FOUNDER

I thank you for taking a look at the exciting things happening here at Steeler!

Our mission is to provide the finest quality products and services possible. From top to bottom, we are changing the way we do business to better serve you, our customer. Leading through innovation—we work to save your business time and money, helping you grow.

Innovation is the focus of our new Elite Steel Framing System. Not only have we engineered our Elite product line to be stronger and lighter, we also developed these studs and track with those who use them in mind. This means faster jobs and less broken screws, saving you time and money, and an advantage over your competition. While we look to offer the best prices, our standard of service and quality of products sets us apart from our competitors.

With over 39 years in business, Steeler is a name our customers trust. We are proud of our people and strive for each member to take ownership of the business and treat it as if it were their own. By setting high standards, we are confident that our customers are in good hands.

It is my sincere hope that your business with us will be enjoyable and rewarding.

*"Let's make it happen!"*



Matt Surowiecki Senior, President



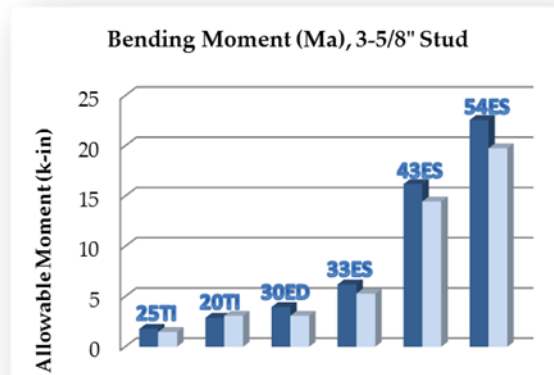


Steeler Elite™ is the next generation of cold-formed steel framing products. Made of high-strength carbon steel, Elite products are designed to be lighter, stronger, and more efficient than their conventional counterparts and have been used by leaders in the industry all over the west coast. The Elite™ Steel Framing System was designed to save you transportation, labor, and material costs, providing a more intelligent framing system than ever before.

## What is EQ?

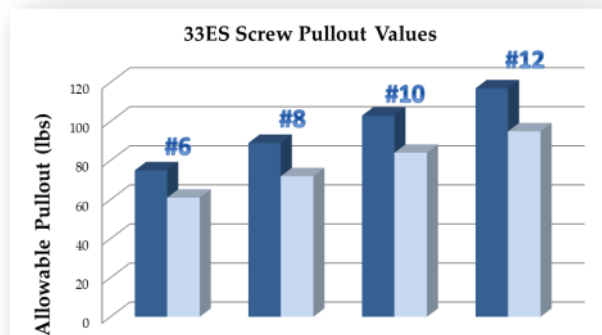
### Member Strength

Bending Strength Matters. Equivalent non-structural members are required to carry the design transverse loads without exceeding the allowable steel stress or design deflection. Most importantly, EQ non-structural members require a moment equal to, or greater than, the moment of the similar standard member when calculated in accordance with AISI S100, or as determined by testing. The related bar graph shows the superior strength of our new Elite Framing System™ when compared to conventional drywall studs.



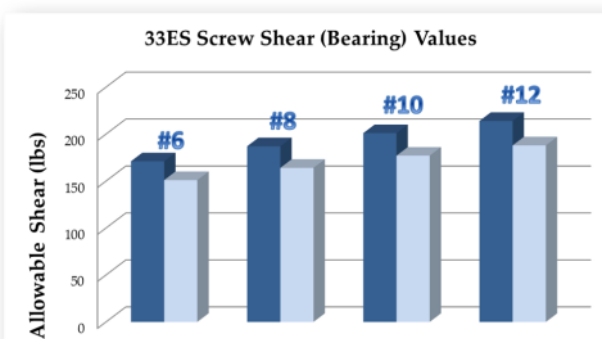
### Screw Penetration

Screw penetration is important for ease of construction and serviceability. Higher strength steel aids in improving screw connections to meet connection performance and screw spinout. EQ non-structural members are required to pull the screw head below the gypsum board surface without spinout. Elite™ products are designed with your needs in mind, saving you time and money in the field and exceeding penetration requirements.



### Connection Capacity

Connection capacity is essential for the performance of wall assemblies and attachment of project accessories. EQ non-structural member screw pullout and shear capacities meet or exceed the capacities of the similar standard member, when calculated in accordance with AISI S100, or as determined by testing. The Elite Framing System™ insures connection performance for all of your project needs.




### Safety

Design and construction professionals hold paramount the safety, health, and welfare of the public. The Elite™ Steel Framing System meets expectations by providing superior member strength, connection capacity, and adequate screw penetration.





## /////ELITE PRODUCT LINE COMPARISON

		<b>Supreme Framing Systems Stud® (EQ)</b>	<b>ViperStud® (EQ)</b>	<b>ProSTUD® (EQ)</b>
<b>25EQ Thickness (in)</b>	0.0166	0.155	0.0155	0.0158
<b>EQ Products Offered</b>	Elite 25TI 57 ksi G40 Elite 20TI 57 ksi G40 Elite 30ED 57 ksi G40 Elite 33ES 57 ksi G60 Elite 43ES 57 ksi G60 Elite 54ES 57 ksi G60	D25 50 ksi G40 D20 57 ksi G40 30EQD 57 ksi G40 33EQS 57 ksi G60 43EQS 57 ksi G60 –	Viper25 50 ksi G40 Viper20 57 ksi G40 Viper20 57 ksi G40 Viper 30mil 33 ksi G40 Viper 33mil 33 ksi G40 –	ProSTUD 25 50 ksi G40EQ ProSTUD 20 65 ksi G40EQ ProSTUD 30mil 33 ksi G40EQ ProSTUD 33mil 33 ksi G40EQ – –
<b>Web Size Offerings (in)</b>	<u><b>Total of 8</b></u> (1-5/8) (2-1/2) (3-1/2) (3-5/8) (4) (5-1/2) (6) (8)	<u><b>Total of 8</b></u> (1-5/8) (2-1/2) (3-1/2)* (3-5/8) (4) (5-1/2)* (6) (8)	<u><b>Total of 6</b></u> (1-5/8) (2-1/2) (3-5/8) (4) (5-1/2)* (6)	<u><b>Total of 7</b></u> (1-5/8) (2-1/2) (3-1/2)* (3-5/8) (4) (5-1/2)* (6)
<b>Flange Offerings (in)</b>	<u><b>Total of 4</b></u> (1-1/4) (1-7/16) (1-5/8) (2)	<u><b>Total of 4</b></u> (1-1/4)* (1-7/16)* (1-5/8) (2)	<u><b>Total of 1</b></u> 1-1/4 only	<u><b>Total of 1</b></u> 1-1/4 only
<b>Special Restrictions, Requirements &amp; Exceptions</b>	<ul style="list-style-type: none"> <li>◦ Web size of 8" is for 43EQ &amp; 54EQ</li> <li>◦ 1-7/16" flange is most common for non-structural members; 1 5/8" and 2" flange are most common sizes offered, other flanges are special order.</li> </ul>	<ul style="list-style-type: none"> <li>◦ Web size of 8" is for 43EQ</li> <li>◦ Structural Supreme Framing Studs are non-planked, Nonstructural are planked</li> <li>◦ 1-7/16" flange is most common for non-structural members; 1 5/8" and 2" flange are most common sizes offered, other flanges are special order.</li> </ul>	<ul style="list-style-type: none"> <li>◦ Web sizes 4" &amp; 6" only</li> <li>◦ ALL ViperStuds are G40 (G60 and G90 special order)</li> <li>◦ 1.25 flange only, NO special order option</li> <li>◦ Viper flange is knurled and has single groove in center of flange, which can be difficult to screw into</li> </ul>	<ul style="list-style-type: none"> <li>◦ ALL ProSTUD are G40EQ (CP60 available as special order)</li> <li>◦ ALL webs are planked and are "Diamond Embossed", except 1<sup>5/8</sup> which is smooth web</li> <li>◦ 1-1/4" flange only, NO special order option</li> <li>◦ 3-1/2 and 5-1/2 web, Special order only</li> <li>◦ ProSTUD® 2-XD is no longer being produced and is dropped from current ProSTUD catalog</li> <li>◦ Flange is knurled and has 3 grooves which are 3/8" o.c.</li> </ul>
<b>Notes</b>	Steeler Elite Framing System® offers EQ versions of studs, track, slotted track, z furring and furring channel. Elite materials follow Steeler's traditional number system	Supreme Framing System® offers EQ versions of studs, track, slotted track, z furring and furring channel	ViperStud® offers EQ versions of studs and track only	ProSTUD® offers EQ versions of studs and track only

\* Special/Custom Order Only.



# ////ELITE FRAMING SPECIFICATIONS



## MANUFACTURER

Steeler, Inc.—Headquarters  
10023 Martin Luther King Jr. Way S.  
Seattle, WA 98178  
Phone: (206) 725-2500  
Fax: (206) 725-1700

Steeler, Inc.—Newark Plant  
6851 Smith Ave.  
Newark, CA 94560  
Phone: (510) 505-9595  
Fax: (510) 505-0200

## RECOGNITION

AISI — American Iron and Steel Institute  
IBC—International Building Code  
ICC Pending—International Code Council

## COLOR CODE

25TI - Clear with white paint stripe  
20TI - Clear with red paint stripe  
30ED - Orange  
33ES - Purple  
43ES - Brown  
54ES - Light Blue

## DESCRIPTION

**Steeler Elite Non-Structural Studs** are S-members (C-sections) used as non-loadbearing studs and joists (zero axial and 10 psf max lateral load), and are available in several thicknesses ranging from 25TI to 30ED.

**Steeler Elite Non-Structural Tracks** are used for non-load bearing walls to match available non-structural studs and are available in several thicknesses ranging from 25TI to 30ED.

**Steeler Elite Structural Studs** are used as load bearing studs and joists, and are available in several thicknesses ranging from 33ES to 54ES.

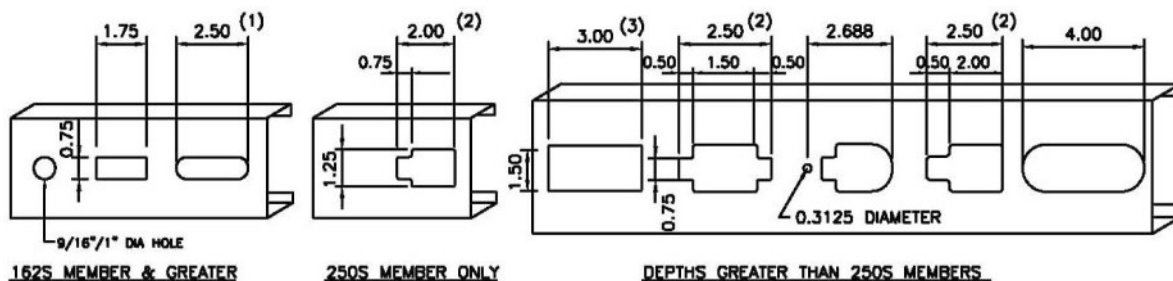
**Steeler Elite Structural Tracks** are used for load bearing walls to match available structural studs and are available in several thicknesses ranging from 33ES to 54ES.

## MATERIALS

**Non-Structural and Structural Studs and Tracks** are roll-formed from hot dipped zinc galvanized high-strength steel coils conforming to ASTM A653 SS Grade 55 Mod 57, and have a tensile strength (Fu) of 65 ksi or greater.

## ASTM & Code Standards

- IBC 2006, 2009, 2012, International Building Code
- AISI, North American Specification for the Design of Cold-Formed Steel Structural Members 2007 Edition with Supplements.
- ASTM A370, Standard Test Methods and Definitions for Mechanical Testing of Steel Products.
- ASTM A1003, Standard Specification for Sheet Steel, Carbon, Metallic and Non-Metallic Coating for Cold-Formed Framing Members.
- ASTM C754, Standard Specification for Installation of Steel Framing Members to Receive Screw-Attached Gypsum Panel Products.
- ASTM C1513, Standard Specification for Steel Tapping Screws for Cold-Formed Steel Framing Connections.
- ASTM C645, Standard Specification for Nonstructural Steel Framing Members.
- ASTM C955, Load-Bearing Steel Studs and Runners.



## VARIOUS CENTERLINE PUNCHOUTS AVAILABLE

**Note:** 2.50" Diameter Punchout available on special order for depths 5.5" & greater

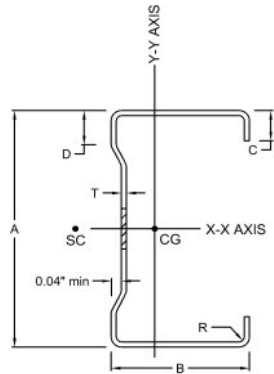
### PUNCHOUT NOTES:

- (1) 18–54 mils 162S Only
- (2) 18–68 mils Only
- (3) 30–68 mils Only



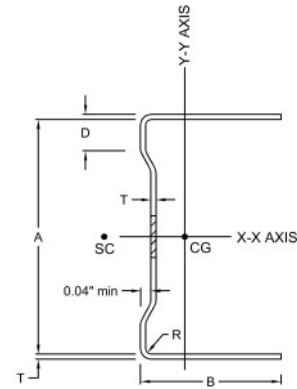
# //////ELITE FRAMING DIMENSIONS

## Non-Structural Stud Dimensions (25TI, 20TI, 30ED)



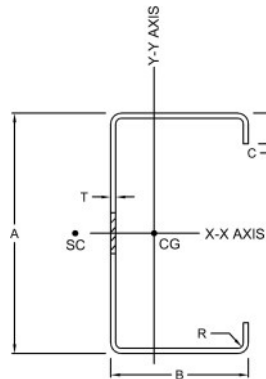
- A—Available web depths: 1 5/8", 2 1/2", 3 1/2", 3 5/8", 4", 5 1/2", and 6"
- B—Available flange widths: 1 1/4", 1 7/16", and 1 5/8"
- C—See the stiffening lip lengths table below
- D—0.3" to 0.5" depending on depth of web
- T—Thickness

## Non-Structural Track Dimensions (25TI, 20TI, 30ED)



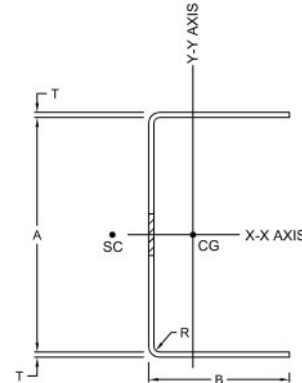
- A—Available web depths: 1 5/8", 2 1/2", 3 1/2", 3 5/8", 4", 5 1/2", and 6"
- B—Available leg widths: 1 1/4", 1 1/2", 2"
- D—0.3" to 0.5" depending on depth of web
- T—Thickness

## Structural Stud Dimensions (33ES, 43ES, 54ES)



- A—Available web depths: 1 5/8", 2 1/2", 3 1/2", 3 5/8", 4", 5 1/2", 6", 8", 10"
- B—Available flange widths: 1 1/4", 1 3/8", 1 7/16", 1 5/8", 2", and 2 1/4"
- C—See the stiffening lip lengths table below

## Structural Track Dimensions (33ES, 43ES, 54ES)



- A—Available web depths: 1 5/8", 2 1/2", 3 1/2", 3 5/8", 4", 5 1/2", 6", 8", 10"
- B—Available leg widths: 1 1/4", 1 1/2", and 2"
- C—See the stiffening lip lengths table below

Thickness Table				
Member Designation	Design Thickness (T)	Minimum Thickness (t)	Inside Radius (R)	Galvanization
Elite 25TI	0.0166"	0.0158"	0.0854"	G40
Elite 20TI	0.0188"	0.0179"	0.0843"	G40
Elite 30ED	0.0235"	0.0223"	0.0820"	G40 or G60
Elite 33ES	0.0295"	0.0280"	0.0790"	G60
Elite 43ES	0.0400"	0.0380"	0.0737"	G60
Elite 54ES	0.0505"	0.0480"	0.0757"	G60

Stiffening Lip Lengths		
Member Designation	Flange Width	Stiffening Lip Length
S125	1 1/4"	0.188"
S137	1 3/8"	0.375"
S143	1 7/16"	0.375"
S162	1 5/8"	0.500"
S200	2"	0.625"
S225	2 1/4"	0.625"

- Other web, flange, leg, and lip dimensions may be available upon request.
- For deeper leg tracks see STEELER ICC-ES Report ESR-2054.
- Not all web, depths, and flanges are available for every thickness. See sections properties table for available combinations.
- Thicknesses are uncoated base metal thickness.
- Minimum thickness equals 95% design thickness.



# ////ELITE FRAMING CONNECTIONS



Allowable Screw Design Values, (LBS)																	
Product (name)	Design Thickness (T) (in)	Tensile Strength (Fu) (ksi)	#6 Screw			#8 Screw			#10 Screw			#12 Screw			1/4" Screw		
			0.138" dia Pullout	0.250" head Pullover	Shear	0.164" dia Pullout	0.313" head Pullover	Shear	0.190" dia Pullout	0.340" head Pullover	Shear	0.216" dia Pullout	0.340" head Pullover	Shear	0.250" dia Pullout	0.409" head Pullover	Shear
Elite 25TI	0.0166	65	43	135	73	51	169	79	59	184	85	-	-	-	-	-	-
Elite 20TI	0.0188	65	48	153	88	57	192	95	66	208	103	75	208	110	-	-	-
Elite 30ED	0.0235	65	60	191	122	71	240	133	83	260	143	94	260	153	-	-	-
Elite 33ES	0.0295	65	75	240	172	90	301	187	104	326	201	118	326	215	136	393	231
Elite 43ES	0.0400	65	102	325	271	121	407	295	140	442	318	160	442	339	185	532	364
Elite 54ES	0.0505	65	129	411	384	153	514	419	177	559	451	201	559	480	233	672	517

#### Table Notes:

- Capacities are based on Section E4 of the AISI 2004 Specification and Allowable Strength Design (ASD) with a safety factor of 3.0.
- See AISI Section E4.5 for combined shear and pullover for eccentric loading.
- Values are based on center-to-center screw spacing of 3\*dia, edge spacing of 1.5\*dia, and shear end spacing of 0.625".
- Values are based on two sheets of equal thickness and tensile strength. Use the lowest values of steel thickness and tensile strength when connecting unequal steel sheets.
- Engineer should confirm specific manufacturer's allowable screw strengths.

Allowable Weld Capacity Values, (LBS per 1" Weld)									
Member (name)	Design Thickness (T) (in)	Tensile Strength (Fu) (ksi)	Weld Size (in)	Weld Type					
				Fillet			Flare Groove		
				Longitudinal (L/T < 25)	Longitudinal (L/T ≥ 25)	Transverse	Longitudinal (T ≤ tw < 2T OR when h < L)	Longitudinal (tw ≥ 2T AND when h ≥ L)	Transverse
Elite 43ES	0.0400	65	1/8	765	639	1106	696	1393	849
Elite 54ES	0.0505	65	1/8	1032	807	1397	879	1758	1072

#### Table Notes:

- Capacities are calculated using the AISI S100 Specification, Sections E2.4 for fillet welds and E2.5 for flare groove welds.
- Capacities are based on Allowable Strength Design (ASD) using applicable safety factors.
- When connecting materials of different steel thicknesses or tensile strengths, the lowest values should be used.
- Welds should be made in accordance with AWS D1.3, except resistance welds which should be in accordance with AWS C1.3.
- Definitions of Symbols:

T=design thickness  
 L=length of weld  
 tw=effective throat of weld per American Welding Society (AWS D1.3)  
 h=lip height per AISI E2.5





# ////ELITE STUD SECTION PROPERTIES

## Stud Section Properties Table Notes:

- Data is based on AISI S100-07.
- Cold-work of forming is included in properties when applicable.
- Properties include punch outs along web centerline according to ICC Report ESR-2054.
- Use effective moment of inertia for deflection calculations.
- The centerline bend radius is greater of two times the design thickness or 3/32".
- \* Distortional buckling does not control (DNC).
- ◆ Member web height to thickness ratio (h/T) exceeds 200. Members with h/T ratios exceeding 200 do not require web stiffeners. Web crippling and shear values have been confirmed by testing.
- ◇ Member web height to thickness ratio (h/T) exceeds 260.
- △ Member web height to thickness ratio (h/T) exceeds 200. Web stiffeners are required at all supports.

STEELER ELITE 25TI Stud, Section Properties																
Member	Design T	Min t	F <sub>y</sub>	Gross Properties						Effective Properties				Moments		Critical Unbraced Length, L <sub>c</sub>
				W	Area	I <sub>x</sub>	R <sub>x</sub>	I <sub>y</sub>	R <sub>y</sub>	I <sub>e</sub>	S <sub>e</sub>	V <sub>a(max)</sub>	A <sub>e</sub>	Yield Moment M <sub>y</sub>	Dist. Buck. Moment M <sub>dist</sub>	
(name)	(in)	(in)	(ksi)	(plf)	(in <sup>2</sup> )	(in <sup>4</sup> )	(in)	(in <sup>4</sup> )	(in)	(in <sup>4</sup> )	(in <sup>3</sup> )	(k)	(in <sup>2</sup> )	(k-in)	(k-in)	(in)
162S125	0.0166	0.0158	57	0.24	0.07	0.034	0.69	0.014	0.45	0.028	0.030	0.107	0.03	0.765	0.760	34
250S125	0.0166	0.0158	57	0.29	0.09	0.088	1.01	0.017	0.44	0.076	0.056	0.103	0.03	1.235	1.174	38
350S125	0.0166	0.0158	57	0.35	0.10	0.191	1.37	0.018	0.42	0.170	0.091	0.124	0.03	1.782	1.663	37
362S125	0.0166	0.0158	57	0.35	0.10	0.207	1.41	0.019	0.42	0.185	0.096	0.119	0.03	1.852	1.725	37
400S125◆	0.0166	0.0158	57	0.38	0.11	0.261	1.54	0.019	0.42	0.226	0.104	0.107	0.03	2.061	1.907	37
550S125◆◇	0.0166	0.0158	57	0.46	0.14	0.557	2.03	0.021	0.39	0.430	0.131	0.077	0.03	3.064	2.568	37
600S125◆◇	0.0166	0.0158	57	0.49	0.14	0.689	2.19	0.021	0.38	0.524	0.145	0.070	0.03	3.363	2.760	38
STEELER ELITE 20TI Stud, Section Properties																
162S125	0.0188	0.0179	57	0.27	0.08	0.038	0.69	0.016	0.45	0.032	0.035	0.131	0.04	0.909	0.907	31
162S143	0.0188	0.0179	57	0.32	0.09	0.044	0.69	0.028	0.55	0.050	0.046	0.131	0.05	1.265	1.249	40
250S125	0.0188	0.0179	57	0.33	0.10	0.099	1.01	0.019	0.44	0.087	0.064	0.133	0.04	1.475	1.405	40
250S143	0.0188	0.0179	57	0.38	0.11	0.117	1.03	0.033	0.54	0.109	0.083	0.133	0.05	2.058	1.945	48
350S125	0.0188	0.0179	57	0.39	0.12	0.215	1.37	0.021	0.42	0.194	0.104	0.159	0.04	2.138	1.999	38
350S143	0.0188	0.0179	57	0.44	0.13	0.252	1.39	0.037	0.53	0.238	0.131	0.159	0.05	2.976	2.774	47
362S125	0.0188	0.0179	57	0.40	0.12	0.234	1.41	0.021	0.42	0.214	0.111	0.163	0.04	2.222	2.075	38
362S143	0.0188	0.0179	57	0.45	0.13	0.273	1.44	0.037	0.53	0.258	0.138	0.163	0.05	3.091	2.879	47



# ////ELITE STUD SECTION PROPERTIES

STEELER ELITE 20TI Stud, Section Properties																
Member	Design T	Min t	F <sub>y</sub>	Gross Properties						Effective Properties				Moments		Critical Unbraced Length, L <sub>c</sub>
				W	Area	I <sub>x</sub>	R <sub>x</sub>	I <sub>y</sub>	R <sub>y</sub>	I <sub>e</sub>	S <sub>e</sub>	V <sub>a(max)</sub>	A <sub>e</sub>	Yield Moment M <sub>y</sub>	Dist. Buck. Moment M <sub>cr</sub>	
(name)	(in)	(in)	(ksi)	(plf)	(in <sup>2</sup> )	(in <sup>4</sup> )	(in)	(in <sup>4</sup> )	(in)	(in <sup>4</sup> )	(in <sup>3</sup> )	(k)	(in <sup>3</sup> )	(k-in)	(k-in)	(in)
400S125	0.0188	0.0179	57	0.42	0.12	0.294	1.54	0.021	0.41	0.268	0.127	0.156	0.04	2.475	2.296	38
400S143	0.0188	0.0179	57	0.47	0.14	0.343	1.57	0.038	0.53	0.326	0.158	0.156	0.05	3.438	3.193	47
550S125◆◆	0.0188	0.0179	57	0.52	0.15	0.630	2.03	0.023	0.39	0.506	0.157	0.112	0.04	3.691	3.111	37
550S143◆◆	0.0188	0.0179	57	0.57	0.17	0.726	2.08	0.042	0.50	0.649	0.217	0.112	0.05	5.025	4.387	46
600S125◆◆	0.0188	0.0179	57	0.55	0.16	0.778	2.19	0.024	0.38	0.617	0.174	0.102	0.04	4.051	3.350	37
600S143◆◆	0.0188	0.0179	57	0.60	0.18	0.894	2.25	0.043	0.49	0.760	0.222	0.102	0.05	5.506	4.751	44
STEELER ELITE 30ED Stud, Section Properties																
162S125	0.0235	0.0223	57	0.34	0.10	0.047	0.68	0.020	0.44	0.041	0.046	0.162	0.05	1.235	DNC*	29
162S143	0.0235	0.0223	57	0.40	0.12	0.055	0.68	0.035	0.54	0.052	0.061	0.162	0.07	1.656	DNC*	36
162S162	0.0235	0.0223	57	0.45	0.13	0.061	0.68	0.051	0.62	0.056	0.065	0.162	0.08	1.815	DNC*	43
250S125	0.0235	0.0223	57	0.41	0.12	0.123	1.01	0.023	0.44	0.111	0.083	0.207	0.05	2.029	1.939	37
250S143	0.0235	0.0223	57	0.47	0.14	0.145	1.03	0.041	0.54	0.139	0.109	0.207	0.07	2.712	2.651	44
250S162	0.0235	0.0223	57	0.52	0.15	0.162	1.03	0.060	0.63	0.150	0.115	0.207	0.08	2.991	DNC*	49
350S125	0.0235	0.0223	57	0.49	0.14	0.267	1.36	0.025	0.42	0.247	0.135	0.248	0.05	2.966	2.781	42
350S143	0.0235	0.0223	57	0.55	0.16	0.313	1.39	0.046	0.53	0.305	0.171	0.248	0.07	3.945	3.802	49
350S162	0.0235	0.0223	57	0.60	0.18	0.350	1.41	0.068	0.62	0.329	0.181	0.248	0.08	4.364	4.351	50
362S125	0.0235	0.0223	57	0.50	0.15	0.290	1.41	0.026	0.42	0.269	0.142	0.255	0.05	3.085	2.889	41
362S143	0.0235	0.0223	57	0.56	0.16	0.339	1.44	0.046	0.53	0.331	0.180	0.255	0.07	4.101	3.949	48
362S162	0.0235	0.0223	57	0.61	0.18	0.379	1.46	0.069	0.62	0.357	0.190	0.255	0.08	4.537	4.521	50
400S125	0.0235	0.0223	57	0.53	0.16	0.366	1.53	0.026	0.41	0.341	0.164	0.275	0.05	3.444	3.207	41
400S143	0.0235	0.0223	57	0.59	0.17	0.427	1.57	0.048	0.52	0.418	0.206	0.275	0.07	4.568	4.387	47
400S162	0.0235	0.0223	57	0.64	0.19	0.476	1.59	0.071	0.62	0.450	0.218	0.275	0.08	5.057	5.028	48
550S125Δ	0.0235	0.0223	57	0.65	0.19	0.783	2.03	0.029	0.39	0.677	0.220	0.218	0.05	5.162	4.394	37
550S143Δ	0.0235	0.0223	57	0.71	0.21	0.903	2.08	0.052	0.50	0.896	0.325	0.218	0.07	6.720	6.068	44
550S162Δ	0.0235	0.0223	57	0.76	0.22	1.001	2.12	0.079	0.59	0.937	0.326	0.218	0.08	7.419	7.014	46
600S125Δ	0.0235	0.0223	57	0.69	0.20	0.968	2.19	0.029	0.38	0.827	0.245	0.200	0.05	5.670	4.749	37
600S143Δ	0.0235	0.0223	57	0.75	0.22	1.112	2.25	0.053	0.49	1.012	0.309	0.200	0.07	7.369	6.587	42
600S162Δ	0.0235	0.0223	57	0.80	0.23	1.229	2.29	0.081	0.59	1.229	0.410	0.200	0.08	8.137	7.646	46
STEELER ELITE 33ES Stud, Section Properties																
162S125	0.0295	0.0280	57	0.42	0.12	0.058	0.68	0.024	0.44	0.053	0.062	0.183	0.07	1.670	DNC*	28
162S143	0.0295	0.0280	57	0.50	0.15	0.068	0.68	0.043	0.54	0.066	0.079	0.183	0.09	2.165	DNC*	35
162S162	0.0295	0.0280	57	0.56	0.17	0.076	0.68	0.064	0.62	0.073	0.087	0.183	0.11	2.533	DNC*	41
250S125	0.0295	0.0280	57	0.51	0.15	0.153	1.01	0.028	0.43	0.144	0.110	0.317	0.07	2.796	2.688	35
250S143	0.0295	0.0280	57	0.59	0.17	0.180	1.02	0.050	0.54	0.176	0.138	0.317	0.09	3.597	DNC*	38
250S162	0.0295	0.0280	57	0.65	0.19	0.202	1.03	0.075	0.63	0.196	0.153	0.317	0.11	4.254	4.127	48

See table notes on page 9.



# //////ELITE STUD SECTION PROPERTIES

STEELER ELITE 33ES Stud, Section Properties																
Member	Design T	Min t	F <sub>y</sub>	Gross Properties						Effective Properties				Moments		Critical Unbraced Length, L <sub>c</sub>
				W	Area	I <sub>x</sub>	R <sub>x</sub>	I <sub>y</sub>	R <sub>y</sub>	I <sub>e</sub>	S <sub>e</sub>	V <sub>a(max)</sub>	A <sub>e</sub>	Yield Moment M <sub>y</sub>	Dist. Buck. Moment M <sub>nd</sub>	
(name)	(in)	(in)	(ksi)	(plf)	(in <sup>2</sup> )	(in <sup>4</sup> )	(in)	(in <sup>4</sup> )	(in)	(in <sup>4</sup> )	(in <sup>3</sup> )	(k)	(in <sup>3</sup> )	(k-in)	(k-in)	(in)
350S125	0.0295	0.0280	57	0.61	0.18	0.333	1.36	0.031	0.42	0.318	0.177	0.389	0.07	4.134	3.892	40
350S143	0.0295	0.0280	57	0.69	0.20	0.390	1.39	0.056	0.53	0.386	0.219	0.389	0.10	5.284	5.224	44
350S162	0.0295	0.0280	57	0.75	0.22	0.436	1.41	0.085	0.62	0.426	0.240	0.389	0.12	6.270	5.961	54
362S125	0.0295	0.0280	57	0.62	0.18	0.361	1.40	0.032	0.42	0.346	0.186	0.401	0.08	4.305	4.047	40
362S143	0.0295	0.0280	57	0.70	0.21	0.423	1.43	0.057	0.53	0.419	0.230	0.401	0.10	5.498	5.431	46
362S162	0.0295	0.0280	57	0.76	0.22	0.473	1.45	0.086	0.62	0.462	0.252	0.401	0.12	6.525	6.197	54
400S125	0.0295	0.0280	57	0.66	0.19	0.456	1.53	0.033	0.41	0.439	0.215	0.433	0.08	4.819	4.508	41
400S143	0.0295	0.0280	57	0.74	0.22	0.532	1.57	0.059	0.52	0.528	0.263	0.433	0.10	6.141	6.048	47
400S162	0.0295	0.0280	57	0.80	0.24	0.593	1.59	0.088	0.61	0.582	0.287	0.433	0.12	7.289	6.905	55
550S125	0.0295	0.0280	57	0.81	0.24	0.977	2.02	0.035	0.38	0.910	0.312	0.432	0.08	7.264	6.257	36
550S143	0.0295	0.0280	57	0.89	0.26	1.127	2.08	0.065	0.50	1.127	0.410	0.432	0.10	9.099	8.434	44
550S162	0.0295	0.0280	57	0.95	0.28	1.249	2.11	0.098	0.59	1.236	0.447	0.432	0.12	10.728	9.696	54
600S125	0.0295	0.0280	57	0.86	0.25	1.208	2.18	0.036	0.38	1.130	0.353	0.395	0.08	7.991	6.791	36
600S143	0.0295	0.0280	57	0.94	0.28	1.388	2.24	0.066	0.49	1.318	0.415	0.395	0.10	9.994	9.180	40
600S162	0.0295	0.0280	57	1.00	0.29	1.535	2.28	0.100	0.58	1.523	0.505	0.395	0.12	11.782	10.591	53
STEELER 43ES Stud, Section Properties																
162S125	0.0400	0.0380	57	0.57	0.17	0.076	0.68	0.032	0.44	0.075	0.091	0.179	0.11	2.449	DNC*	26
162S137	0.0400	0.0380	57	0.65	0.19	0.090	0.68	0.050	0.51	0.090	0.110	0.180	0.13	3.020	DNC*	32
162S162	0.0400	0.0380	57	0.75	0.22	0.100	0.68	0.080	0.62	0.100	0.120	0.180	0.15	3.540	DNC*	41
250S125	0.0400	0.0380	57	0.68	0.20	0.203	1.00	0.037	0.43	0.203	0.162	4.225	0.11	4.225	4.117	30
250S137	0.0400	0.0380	57	0.76	0.22	0.230	1.01	0.060	0.51	0.230	0.180	0.420	0.14	5.138	DNC*	34
250S162	0.0400	0.0380	57	0.87	0.26	0.270	1.02	0.100	0.62	0.270	0.210	0.420	0.16	6.020	DNC*	41
350S125	0.0400	0.0380	57	0.82	0.24	0.443	1.36	0.041	0.41	0.436	0.246	0.707	0.119	6.361	6.049	35
350S137	0.0400	0.0380	57	0.90	0.26	0.500	1.38	0.070	0.50	0.500	0.290	0.710	0.14	7.666	DNC*	38
350S162	0.0400	0.0380	57	1.01	0.30	0.580	1.40	0.110	0.61	0.580	0.330	0.710	0.17	8.974	8.958	44
350S200	0.0400	0.0380	57	1.14	0.34	0.685	1.43	0.199	0.77	0.672	0.379	0.707	0.1975	10.482	10.184	59
350S225	0.0400	0.0380	57	1.21	0.36	0.744	1.45	0.263	0.86	0.717	0.399	0.707	0.1975	10.614	10.511	65
362S125	0.0400	0.0380	57	0.84	0.25	0.481	1.40	0.042	0.41	0.473	0.258	0.729	0.12	6.636	6.301	36
362S137	0.0400	0.0380	57	0.92	0.27	0.550	1.42	0.070	0.50	0.550	0.300	0.730	0.14	7.990	DNC*	38
362S162	0.0400	0.0380	57	1.02	0.30	0.630	1.45	0.110	0.61	0.630	0.350	0.730	0.17	9.351	9.322	46
362S200	0.0400	0.0380	57	1.16	0.34	0.742	1.48	0.202	0.77	0.729	0.397	0.729	0.1979	10.922	10.590	60
362S225	0.0400	0.0380	57	1.23	0.36	0.806	1.50	0.267	0.86	0.777	0.418	0.729	0.198	11.055	10.921	66
400S125	0.0400	0.0380	57	0.89	0.26	0.606	1.52	0.043	0.40	0.597	0.296	0.786	0.12	7.462	7.055	37
400S137	0.0400	0.0380	57	0.97	0.28	0.690	1.55	0.070	0.49	0.690	0.340	0.790	0.14	8.962	8.961	40
400S162	0.0400	0.0380	57	1.07	0.32	0.790	1.58	0.120	0.61	0.790	0.400	0.790	0.17	10.484	10.419	48
400S200	0.0400	0.0380	57	1.21	0.36	0.929	1.62	0.209	0.77	0.915	0.453	0.786	0.20	12.244	11.814	62
400S225	0.0400	0.0380	57	1.28	0.38	1.007	1.64	0.276	0.86	0.974	0.477	0.786	0.20	12.382	12.155	68

See table notes on page 9.



# ////ELITE STUD SECTION PROPERTIES

STEELER 43ES Stud, Section Properties																
Member (name)	Design (in)	T (in)	Min t (ksi)	F <sub>y</sub> (ksi)	Gross Properties					Effective Properties				Moments		Critical Unbraced Length, L <sub>c</sub> (ft)
					W (plf)	Area (in <sup>2</sup> )	I <sub>x</sub> (in <sup>4</sup> )	R <sub>x</sub> (in)	I <sub>y</sub> (in <sup>4</sup> )	R <sub>y</sub> (in)	I <sub>e</sub> (in <sup>4</sup> )	S <sub>e</sub> (in <sup>3</sup> )	V <sub>a(max)</sub> (k)	A <sub>e</sub> (in <sup>2</sup> )	Yield Mo- ment M <sub>y</sub> (k-in)	
550S125	0.0400	0.0380	57	1.09	0.32	1.303	2.02	0.046	0.38	1.271	0.453	0.934	0.12	10.172	9.984	36
550S137	0.0400	0.0380	57	1.17	0.34	1.460	2.06	0.070	0.47	1.460	0.530	0.930	0.15	14.663	12.656	46
550S162	0.0400	0.0380	57	1.28	0.38	1.670	2.11	0.130	0.59	1.670	0.610	0.930	0.17	16.843	14.785	54
550S200	0.0400	0.0380	57	1.41	0.42	1.940	2.16	0.233	0.75	1.924	0.696	0.934	0.20	19.311	16.743	68
550S225	0.0400	0.0380	57	1.48	0.44	2.088	2.19	0.308	0.84	2.040	0.731	0.934	0.20	19.144	17.137	77
600S125	0.0400	0.0380	57	1.16	0.34	1.612	2.18	0.047	0.37	1.558	0.504	0.966	0.12	12.499	10.901	36
600S137	0.0400	0.0380	57	1.24	0.36	1.800	2.23	0.080	0.46	1.760	0.570	0.970	0.15	14.766	13.824	37
600S162	0.0400	0.0380	57	1.34	0.40	2.050	2.28	0.130	0.58	2.050	0.680	0.970	0.17	18.192	16.203	55
600S200	0.0400	0.0380	57	1.48	0.44	2.377	2.34	0.239	0.74	2.363	0.784	0.966	0.20	20.942	18.378	70
600S225	0.0400	0.0380	57	1.55	0.45	2.554	2.37	0.316	0.83	2.502	0.823	0.966	0.20	20.802	18.799	78
800S125	0.0400	0.0380	57	1.43	0.42	3.300	2.80	0.050	0.35	3.062	0.717	0.722	0.12	17.259	14.150	38
800S137	0.0400	0.0380	57	1.51	0.44	3.650	2.87	0.080	0.43	3.430	0.800	0.720	0.15	20.278	17.997	41
800S162	0.0400	0.0380	57	1.61	0.47	4.110	2.94	0.140	0.55	3.880	0.910	0.720	0.17	23.485	21.466	46
800S200	0.0400	0.0380	57	1.75	0.51	4.696	3.02	0.260	0.71	4.696	1.174	0.722	0.20	27.483	24.684	66
800S225	0.0400	0.0380	57	1.82	0.53	5.011	3.06	0.345	0.80	4.955	1.231	0.722	0.20	27.460	25.294	73
STEELER ELITE 54ES Stud, Section Properties																
350S125	0.0505	0.0480	57	1.03	0.30	0.551	1.35	0.050	0.41	0.544	0.308	0.918	0.17	8.932	8.532	32
350S143	0.0505	0.0480	57	1.12	0.34	0.648	1.38	0.092	0.52	0.648	0.370	0.918	0.21	11.109	10.834	36
350S162	0.0505	0.0480	57	1.27	0.37	0.726	1.40	0.139	0.61	0.726	0.415	0.918	0.23	12.194	DNC*	42
362S125	0.0505	0.0480	57	1.05	0.31	0.599	1.39	0.051	0.41	0.591	0.324	0.984	0.17	9.333	8.902	32
362S143	0.0505	0.0480	57	1.18	0.35	0.704	1.42	0.093	0.52	0.704	0.388	0.984	0.21	11.592	11.291	37
362S162	0.0505	0.0480	57	1.29	0.38	0.788	1.44	0.140	0.61	0.788	0.435	0.984	0.23	12.721	DNC*	42
400S125	0.0505	0.0480	57	1.12	0.33	0.760	1.52	0.052	0.40	0.747	0.371	1.181	0.18	10.545	10.016	34
400S143	0.0505	0.0480	57	1.24	0.37	0.886	1.56	0.096	0.51	0.886	0.443	1.181	0.22	13.049	12.667	38
400S162	0.0505	0.0480	57	1.35	0.40	0.991	1.58	0.145	0.60	0.991	0.495	1.181	0.24	14.310	DNC*	43
550S125	0.0505	0.0480	57	1.37	0.40	1.630	2.01	0.057	0.37	1.614	0.584	1.501	0.18	16.236	14.421	35
550S143	0.0505	0.0480	57	1.50	0.44	1.886	2.07	0.105	0.49	1.886	0.686	1.501	0.22	21.660	18.142	43
550S162	0.0505	0.0480	57	1.61	0.47	2.094	2.10	0.160	0.58	2.094	0.761	1.501	0.24	23.511	20.527	50
600S125	0.0505	0.0480	57	1.46	0.43	2.018	2.17	0.058	0.37	1.997	0.661	1.553	0.18	17.906	15.825	36
600S143	0.0505	0.0480	57	1.59	0.47	2.325	2.23	0.107	0.48	2.316	0.769	1.553	0.22	21.795	19.913	40
600S162	0.0505	0.0480	57	1.70	0.50	2.576	2.27	0.164	0.57	2.576	0.859	1.553	0.24	26.624	22.569	52
800S125	0.0505	0.0480	57	0.18	0.53	4.138	2.79	0.061	0.34	3.980	0.960	1.479	0.18	24.853	20.896	37
800S143	0.0505	0.0480	57	1.93	0.57	4.699	2.88	0.115	0.45	4.540	1.095	1.479	0.22	29.917	26.441	41
800S162	0.0505	0.0480	57	2.04	0.60	5.158	2.93	0.177	0.54	4.990	1.204	1.479	0.24	32.576	30.275	48
1000S125	0.0505	0.0480	57	2.15	0.63	7.318	3.40	0.063	0.32	6.844	1.288	1.176	0.18	32.035	25.086	38
1000S143	0.0505	0.0480	57	2.28	0.67	8.208	3.50	0.120	0.42	7.663	1.436	1.176	0.22	38.346	31.905	44
1000S162	0.0505	0.0480	57	2.38	0.70	8.940	3.57	0.186	0.51	8.367	1.568	1.176	0.24	41.688	36.909	50

See table notes on page 9.



## /////ELITE TRACK SECTION PROPERTIES

### Track Section Properties Table Notes:

- Data is based on AISI S100-07.
- Cold-work of forming is included in properties when applicable.
- Use effective moment of inertia for deflection calculations.
- $M_a$  is the lower value of the yield moment and distortional buckling moment.
- ◆ Member web height to thickness ratio (h/T) exceeds 200.
- ◇ Member web height to thickness ratio (h/T) exceeds 260.

STEELER ELITE 25TI Track, Section Properties																
Member (name)	Design T (in)	Min t (in)	F <sub>y</sub> (ksi)	Gross Properties						Effective Properties			Torsional Properties			
				W (plf)	Area (in <sup>2</sup> )	I <sub>x</sub> (in <sup>4</sup> )	R <sub>x</sub> (in)	I <sub>y</sub> (in <sup>4</sup> )	R <sub>y</sub> (in)	I <sub>e</sub> (in <sup>4</sup> )	S <sub>e</sub> (in <sup>3</sup> )	M <sub>e</sub> (k-in)	X <sub>c</sub> (in)	Jx10 <sup>6</sup> (in <sup>6</sup> )	C <sub>w</sub> (in <sup>6</sup> )	r <sub>s</sub> (in)
162T125	0.0166	0.0158	57	0.23	0.07	0.032	0.69	0.011	0.41	0.02	0.02	0.57	-0.91	0.01	0.01	1.21
162T150	0.0166	0.0158	57	0.25	0.07	0.037	0.7	0.019	0.5	0.022	0.02	0.56	-1.14	0.01	0.01	1.43
162T200	0.0166	0.0158	57	0.31	0.09	0.048	0.72	0.04	0.66	0.024	0.02	0.56	-1.61	0.02	0.02	1.88
250T125	0.0166	0.0158	57	0.28	0.08	0.083	1.01	0.013	0.4	0.058	0.04	0.91	-0.79	0.01	0.01	1.34
250T150	0.0166	0.0158	57	0.3	0.09	0.095	1.03	0.022	0.49	0.06	0.04	0.91	-1.01	0.02	0.02	1.52
250T200	0.0166	0.0158	57	0.36	0.11	0.121	1.07	0.047	0.66	0.064	0.04	0.91	-1.46	0.05	0.05	1.93
350T125	0.0166	0.0158	57	0.33	0.1	0.179	1.36	0.015	0.38	0.118	0.05	1.3	-0.69	0.03	0.03	1.57
350T150	0.0166	0.0158	57	0.36	0.11	0.205	1.39	0.024	0.47	0.123	0.05	1.3	-0.9	0.05	0.05	1.72
350T200	0.0166	0.0158	57	0.42	0.12	0.255	1.44	0.052	0.65	0.13	0.05	1.31	-1.32	0.11	0.11	2.06
362T125	0.0166	0.0158	57	0.34	0.1	0.195	1.4	0.015	0.38	0.127	0.06	1.35	-0.68	0.03	0.03	1.60
362T150	0.0166	0.0158	57	0.37	0.11	0.222	1.43	0.024	0.47	0.132	0.06	1.35	-0.88	0.05	0.05	1.75
362T200	0.0166	0.0158	57	0.42	0.12	0.276	1.49	0.053	0.65	0.14	0.06	1.36	-1.3	0.12	0.12	2.08
400T125◆	0.0166	0.0158	57	0.36	0.11	0.246	1.52	0.015	0.38	0.157	0.06	1.5	-0.65	0.04	0.04	1.70
400T150◆	0.0166	0.0158	57	0.39	0.11	0.279	1.56	0.025	0.47	0.163	0.06	1.5	-0.85	0.07	0.07	1.84
400T200◆	0.0166	0.0158	57	0.45	0.13	0.344	1.62	0.054	0.64	0.173	0.06	1.51	-1.26	0.15	0.15	2.15
550T125◇	0.0166	0.0158	57	0.45	0.13	0.528	2.01	0.016	0.35	0.303	0.08	2.07	-0.56	0.01	0.09	2.11
550T150◇	0.0166	0.0158	57	0.47	0.14	0.59	2.06	0.027	0.44	0.32	0.09	2.09	-0.74	0.01	0.15	2.23
550T200◇	0.0166	0.0158	57	0.53	0.16	0.715	2.14	0.06	0.62	0.339	0.09	2.11	-1.11	0.01	0.31	2.49
600T125◇	0.0166	0.0158	57	0.47	0.14	0.653	2.17	0.017	0.34	0.366	0.09	2.27	-0.53	0.11	0.11	2.26
600T150◇	0.0166	0.0158	57	0.5	0.15	0.728	2.22	0.028	0.43	0.386	0.09	2.29	-0.7	0.18	0.18	2.37
600T200◇	0.0166	0.0158	57	0.56	0.16	0.876	2.31	0.061	0.61	0.408	0.09	2.31	-1.07	0.39	0.39	2.62
STEELER ELITE 20TI Track, Section Properties																
162T125	0.0188	0.0179	57	0.26	0.075	0.036	0.69	0.013	0.41	0.023	0.02	0.71	-0.91	0.01	0.01	1.21
162T150	0.0188	0.0179	57	0.29	0.085	0.042	0.7	0.021	0.5	0.025	0.02	0.7	-1.14	0.01	0.01	1.42
162T200	0.0188	0.0179	57	0.35	0.104	0.054	0.72	0.045	0.66	0.028	0.03	0.69	-1.61	0.01	0.02	1.88
250T125	0.0188	0.0179	57	0.31	0.092	0.093	1.01	0.015	0.4	0.067	0.05	1.14	-0.79	0.01	0.02	1.34
250T150	0.0188	0.0179	57	0.34	0.101	0.108	1.03	0.024	0.49	0.072	0.05	1.13	-1.01	0.01	0.03	1.52
250T200	0.0188	0.0179	57	0.41	0.12	0.137	1.07	0.053	0.66	0.078	0.05	1.13	-1.46	0.01	0.06	1.92



# //////ELITE TRACK SECTION PROPERTIES

STEELER ELITE 20TI Track, Section Properties																		
Member	Design T	Min t	Fy	Gross Properties						Effective Properties			Torsional Properties					
				W	Area	I <sub>x</sub>	R <sub>x</sub>	I <sub>y</sub>	R <sub>y</sub>	I <sub>e</sub>	S <sub>w</sub>	M <sub>e</sub>	X <sub>c</sub>	Jx10 <sup>6</sup>	C <sub>w</sub>	r <sub>x</sub>		
(name)	(in)	(in)	(ksi)	(plf)	(in <sup>2</sup> )	(in <sup>4</sup> )	(in)	(in <sup>4</sup> )	(in)	(in <sup>4</sup> )	(in <sup>4</sup> )	(in <sup>4</sup> )	(in <sup>3</sup> )	(k-in)	(in)	(in <sup>6</sup> )	(in <sup>4</sup> )	(in)
350T125	0.0188	0.0179	57	0.38	0.111	0.203	1.35	0.016	0.38	0.146	0.07	1.62	-0.69	0.01	0.03	1.57		
350T150	0.0188	0.0179	57	0.41	0.12	0.231	1.39	0.027	0.47	0.151	0.07	1.62	-0.89	0.01	0.06	1.72		
350T200	0.0188	0.0179	57	0.47	0.139	0.288	1.44	0.059	0.65	0.16	0.07	1.62	-1.32	0.02	0.12	2.06		
362T125	0.0188	0.0179	57	0.38	0.113	0.22	1.4	0.017	0.38	0.157	0.07	1.68	-0.68	0.01	0.04	1.60		
362T150	0.0188	0.0179	57	0.42	0.122	0.251	1.43	0.027	0.47	0.162	0.07	1.68	-0.88	0.01	0.06	1.75		
362T200	0.0188	0.0179	57	0.48	0.141	0.312	1.49	0.06	0.65	0.172	0.07	1.69	-1.3	0.02	0.13	2.08		
400T125	0.0188	0.0179	57	0.41	0.12	0.278	1.52	0.017	0.38	0.193	0.08	1.86	-0.65	0.01	0.05	1.70		
400T150	0.0188	0.0179	57	0.44	0.129	0.315	1.56	0.028	0.47	0.2	0.08	1.87	-0.85	0.02	0.08	1.84		
400T200	0.0188	0.0179	57	0.5	0.148	0.389	1.62	0.061	0.64	0.212	0.08	1.87	-1.26	0.02	0.17	2.15		
550T125◇	0.0188	0.0179	57	0.5	0.148	0.597	2.01	0.018	0.35	0.366	0.1	2.57	-0.56	0.02	0.1	2.11		
550T150◇	0.0188	0.0179	57	0.54	0.158	0.668	2.06	0.03	0.44	0.392	0.11	2.6	-0.74	0.02	0.16	2.23		
550T200◇	0.0188	0.0179	57	0.6	0.176	0.809	2.14	0.067	0.62	0.415	0.11	2.62	-1.11	0.02	0.35	2.49		
600T125◇	0.0188	0.0179	57	0.54	0.158	0.739	2.17	0.019	0.34	0.443	0.11	2.81	-0.53	0.02	0.12	2.26		
600T150◇	0.0188	0.0179	57	0.57	0.167	0.823	2.22	0.031	0.43	0.472	0.12	2.85	-0.7	0.02	0.2	2.37		
600T200◇	0.0188	0.0179	57	0.63	0.186	0.991	2.31	0.069	0.61	0.499	0.12	2.87	-1.07	0.02	0.44	2.62		
STEELER ELITE 30ED Track, Section Properties																		
162T125	0.0235	0.0223	57	0.09	0.319	0.044	0.69	0.016	0.41	0.031	0.03	0.95	0.017	0.01	1.21	-0.90		
162T150	0.0235	0.0223	57	0.11	0.359	0.052	0.7	0.026	0.5	0.033	0.03	0.97	0.019	0.01	1.42	-1.14		
162T200	0.0235	0.0223	57	0.13	0.439	0.067	0.72	0.056	0.66	0.037	0.03	1.01	0.024	0.03	1.88	-1.61		
250T125	0.0235	0.0223	57	0.12	0.389	0.116	1.01	0.018	0.4	0.086	0.06	1.72	0.021	0.02	1.34	-0.79		
250T150	0.0235	0.0223	57	0.13	0.429	0.134	1.03	0.03	0.49	0.092	0.06	1.7	0.023	0.03	1.52	-1.01		
250T200	0.0235	0.0223	57	0.15	0.509	0.17	1.07	0.066	0.66	0.104	0.07	1.68	0.028	0.07	1.92	-1.46		
350T125	0.0235	0.0223	57	0.14	0.469	0.252	1.35	0.02	0.38	0.198	0.1	2.42	0.025	0.04	1.57	-0.69		
350T150	0.0235	0.0223	57	0.15	0.509	0.288	1.39	0.034	0.47	0.212	0.1	2.42	0.028	0.07	1.72	-0.89		
350T200	0.0235	0.0223	57	0.17	0.589	0.359	1.44	0.073	0.65	0.232	0.11	2.42	0.032	0.15	2.06	-1.32		
362T125	0.0235	0.0223	57	0.14	0.479	0.274	1.39	0.021	0.38	0.216	0.11	2.51	0.026	0.05	1.6	-0.68		
362T150	0.0235	0.0223	57	0.15	0.519	0.312	1.43	0.034	0.47	0.231	0.11	2.51	0.076	0.08	1.74	-0.88		
362T200	0.0235	0.0223	57	0.18	0.599	0.388	1.48	0.074	0.65	0.25	0.11	2.51	0.032	0.17	2.08	-1.30		
400T125	0.0235	0.0223	57	0.15	0.509	0.346	1.52	0.021	0.38	0.277	0.12	2.78	0.028	0.06	1.7	-0.65		
400T150	0.0235	0.0223	57	0.16	0.549	0.392	1.56	0.035	0.46	0.293	0.13	2.79	0.03	0.1	1.83	-0.85		
400T200	0.0235	0.0223	57	0.19	0.629	0.485	1.62	0.077	0.64	0.307	0.12	2.79	0.034	0.21	2.15	-1.26		
550T125◆	0.0235	0.0223	57	0.19	0.629	0.744	2.01	0.023	0.35	0.51	0.15	3.78	0.034	0.12	2.11	-0.56		
550T150◆	0.0235	0.0223	57	0.2	0.669	0.832	2.06	0.038	0.44	0.566	0.17	3.88	0.036	0.2	2.23	-0.73		
550T200◆	0.0235	0.0223	57	0.22	0.749	1.008	2.14	0.084	0.62	0.599	0.17	3.9	0.041	0.44	2.49	-1.11		

See table notes on page 13.



## /////ELITE TRACK SECTION PROPERTIES

STEELER ELITE 30ED Track, Section Properties																	
Member	Design T	Min t	Fy	Gross Properties						Effective Properties			Torsional Properties				
				Area	W	I <sub>x</sub>	R <sub>x</sub>	I <sub>y</sub>	R <sub>y</sub>	I <sub>w</sub>	S <sub>w</sub>	M <sub>x</sub>	Jx10 <sup>3</sup>	C <sub>w</sub>	r <sub>x</sub>	X <sub>c</sub>	
(name)	(in)	(in)	(ksi)	(in <sup>2</sup> )	(plf)	(in <sup>4</sup> )	(in)	(in <sup>4</sup> )	(in)	(in <sup>4</sup> )	(in <sup>4</sup> )	(in <sup>3</sup> )	(k-in)	(in <sup>6</sup> )	(in <sup>4</sup> )	(in)	(in)
600T125◆	0.0235	0.0223	57	0.2	0.669	0.921	2.16	0.023	0.34	0.62	0.17	4.15	0.036	0.15	2.25	-0.53	
600T150◆	0.0235	0.0223	57	0.21	0.709	1.026	2.22	0.039	0.43	0.68	0.18	4.24	0.038	0.25	2.37	-0.70	
600T200◆	0.0235	0.0223	57	0.23	0.789	1.236	2.31	0.086	0.61	0.72	0.18	4.27	0.043	0.54	2.62	-1.07	
STEELER ELITE 33ES Track, Section Properties																	
162T125	0.0295	0.028	57	0.12	0.4	0.055	0.68	0.02	0.41	0.041	0.04	1.28	0.034	0.01	1.2	-0.90	
162T150	0.0295	0.028	57	0.13	0.45	0.064	0.7	0.032	0.49	0.044	0.04	1.32	0.038	0.01	1.42	-1.13	
162T200	0.0295	0.028	57	0.16	0.55	0.083	0.72	0.07	0.66	0.05	0.05	1.37	0.047	0.03	1.88	-1.61	
250T125	0.0295	0.028	57	0.14	0.488	0.145	1	0.023	0.4	0.112	0.08	2.41	0.042	0.02	1.34	-0.79	
250T150	0.0295	0.028	57	0.16	0.538	0.167	1.03	0.038	0.49	0.12	0.08	2.49	0.046	0.04	1.52	-1.00	
250T200	0.0295	0.028	57	0.19	0.638	0.212	1.06	0.082	0.66	0.135	0.09	2.55	0.054	0.09	1.92	-1.45	
350T125	0.0295	0.028	57	0.17	0.588	0.315	1.35	0.025	0.38	0.254	0.13	3.74	0.05	0.05	1.56	-0.69	
350T150	0.0295	0.028	57	0.19	0.638	0.359	1.38	0.042	0.47	0.273	0.14	3.71	0.054	0.09	1.71	-0.89	
350T200	0.0295	0.028	57	0.22	0.738	0.448	1.44	0.092	0.65	0.307	0.14	3.67	0.063	0.19	2.05	-1.32	
362T125	0.0295	0.028	57	0.18	0.6	0.342	1.39	0.026	0.38	0.277	0.14	3.87	0.051	0.06	1.59	-0.68	
362T150	0.0295	0.028	57	0.19	0.651	0.39	1.43	0.042	0.47	0.298	0.14	3.84	0.056	0.09	1.74	-0.88	
362T200	0.0295	0.028	57	0.22	0.751	0.485	1.48	0.093	0.65	0.335	0.15	3.81	0.064	0.21	2.08	-1.30	
400T125	0.0295	0.028	57	0.19	0.638	0.432	1.52	0.026	0.37	0.355	0.16	4.26	0.054	0.07	1.69	-0.65	
400T150	0.0295	0.028	57	0.2	0.688	0.49	1.56	0.044	0.46	0.381	0.17	4.24	0.059	0.12	1.83	-0.84	
400T200	0.0295	0.028	57	0.23	0.788	0.606	1.62	0.096	0.64	0.427	0.18	4.22	0.067	0.26	2.15	-1.26	
550T125	0.0295	0.028	57	0.23	0.788	0.93	2	0.028	0.35	0.707	0.22	5.61	0.067	0.15	2.11	-0.56	
550T150	0.0295	0.028	57	0.25	0.839	1.04	2.05	0.047	0.44	0.846	0.28	5.86	0.072	0.25	2.22	-0.73	
550T200	0.0295	0.028	57	0.28	0.939	1.261	2.14	0.105	0.62	0.882	0.27	5.89	0.08	0.55	2.49	-1.11	
600T125	0.0295	0.028	57	0.25	0.839	1.151	2.16	0.029	0.34	0.863	0.24	6.16	0.072	0.19	2.25	-0.53	
600T150	0.0295	0.028	57	0.26	0.889	1.283	2.22	0.048	0.43	1.006	0.3	6.41	0.076	0.31	2.36	-0.70	
600T200	0.0295	0.028	57	0.29	0.989	1.546	2.31	0.107	0.61	1.056	0.29	6.45	0.084	0.68	2.61	-1.07	
STEELER ELITE 43ES Track, Section Properties																	
162T125	0.04	0.038	57	0.16	0.537	0.073	0.68	0.026	0.41	0.06	0.07	1.92	0.083	0.01	1.2	-0.90	
162T150	0.04	0.038	57	0.18	0.604	0.085	0.69	0.043	0.49	0.065	0.07	1.98	0.094	0.02	1.41	-1.13	
162T200	0.04	0.038	57	0.22	0.74	0.11	0.71	0.094	0.66	0.073	0.07	2.07	0.115	0.04	1.87	-1.60	
250T125	0.04	0.038	57	0.19	0.655	0.193	1.00	0.031	0.4	0.161	0.12	3.55	0.102	0.03	1.33	-0.78	
250T150	0.04	0.038	57	0.21	0.723	0.223	1.02	0.05	0.49	0.174	0.12	3.67	0.112	0.05	1.51	-1.00	
250T200	0.04	0.038	57	0.25	0.858	0.283	1.06	0.11	0.66	0.196	0.13	3.86	0.133	0.11	1.91	-1.45	

See table notes on page 13.



# ////ELITE TRACK SECTION PROPERTIES

STEELER ELITE 43ES Track, Section Properties																	
Member	Design T	Min t	Fy	Gross Properties						Effective Properties			Torsional Properties				
				Area	W	I <sub>x</sub>	R <sub>x</sub>	I <sub>y</sub>	R <sub>y</sub>	I <sub>e</sub>	S <sub>e</sub>	M <sub>e</sub>	Jx10 <sup>6</sup>	C <sub>w</sub>	r <sub>x</sub>	r <sub>y</sub>	
(name)	(in)	(in)	(ksi)	(in <sup>2</sup> )	(plf)	(in <sup>4</sup> )	(in)	(in <sup>4</sup> )	(in)	(in <sup>4</sup> )	(in <sup>2</sup> )	(in <sup>3</sup> )	(k-in)	(in <sup>6</sup> )	(in <sup>4</sup> )	(in)	(in)
350T125	0.04	0.038	57	0.23	0.79	0.421	1.35	0.034	0.38	0.358	0.19	5.86	0.123	0.07	1.56	-0.69	
350T150	0.04	0.038	57	0.25	0.858	0.48	1.38	0.056	0.47	0.385	0.2	6.07	0.133	0.12	1.71	-0.89	
350T200	0.04	0.038	57	0.29	0.993	0.6	1.43	0.123	0.65	0.431	0.21	6.39	0.154	0.25	2.05	-1.31	
362T125	0.04	0.038	57	0.24	0.807	0.457	1.39	0.034	0.38	0.39	0.2	6.18	0.125	0.08	1.59	-0.68	
362T150	0.04	0.038	57	0.26	0.875	0.521	1.42	0.057	0.47	0.419	0.21	6.4	0.136	0.13	1.74	-0.88	
362T200	0.04	0.038	57	0.3	1.01	0.649	1.48	0.124	0.65	0.469	0.22	6.74	0.157	0.27	2.07	-1.30	
400T125	0.04	0.038	57	0.25	0.858	0.577	1.51	0.035	0.37	0.495	0.23	7.19	0.133	0.1	1.69	-0.65	
400T150	0.04	0.038	57	0.27	0.926	0.655	1.55	0.058	0.46	0.531	0.24	7.45	0.144	0.16	1.82	-0.84	
400T200	0.04	0.038	57	0.31	1.061	0.811	1.61	0.128	0.64	0.597	0.25	7.48	0.165	0.35	2.14	-1.25	
550T125	0.04	0.038	57	0.31	1.061	1.246	2.00	0.038	0.35	1.064	0.35	9.36	0.165	0.21	2.1	-0.55	
550T150	0.04	0.038	57	0.33	1.129	1.394	2.05	0.063	0.44	1.181	0.4	10.4	0.175	0.34	2.22	-0.73	
550T200	0.04	0.038	57	0.37	1.264	1.691	2.13	0.141	0.61	1.318	0.42	10.3	0.196	0.73	2.48	-1.11	
600T125	0.04	0.038	57	0.33	1.129	1.543	2.16	0.039	0.34	1.305	0.39	10.3	0.175	0.25	2.25	-0.53	
600T150	0.04	0.038	57	0.35	1.196	1.72	2.21	0.064	0.43	1.475	0.46	11.3	0.186	0.41	2.36	-0.70	
600T200	0.04	0.038	57	0.39	1.332	2.073	2.30	0.144	0.61	1.64	0.49	11.3	0.207	0.9	2.61	-1.07	
800T125	0.04	0.038	57	0.41	1.399	3.173	2.78	0.041	0.31	2.551	0.56	14.2	0.217	0.49	2.83	-0.45	
800T150	0.04	0.038	57	0.43	1.467	3.488	2.84	0.068	0.4	2.679	0.57	14.4	0.228	0.81	2.93	-0.60	
800T200	0.04	0.038	57	0.47	1.602	4.119	2.96	0.154	0.57	3.244	0.72	15.1	0.249	1.78	3.15	-0.93	
STEELER ELITE 54ES Track, Section Properties																	
350T125	0.0505	0.048	57	0.29	0.998	0.528	1.34	0.042	0.38	0.475	0.26	7.93	0.25	0.09	1.55	-0.68	
350T150	0.0505	0.048	57	0.32	1.084	0.603	1.38	0.07	0.47	0.513	0.27	8.24	0.271	0.14	1.7	-0.89	
350T200	0.0505	0.048	57	0.37	1.256	0.753	1.43	0.154	0.65	0.579	0.29	8.71	0.314	0.31	2.04	-1.31	
362T125	0.0505	0.048	57	0.3	1.019	0.573	1.38	0.043	0.38	0.516	0.27	8.35	0.255	0.1	1.58	-0.67	
362T150	0.0505	0.048	57	0.33	1.105	0.654	1.42	0.071	0.47	0.557	0.28	8.68	0.276	0.16	1.73	-0.87	
362T200	0.0505	0.048	57	0.38	1.277	0.815	1.47	0.156	0.64	0.628	0.3	9.18	0.319	0.34	2.06	-1.29	
400T125	0.0505	0.048	57	0.32	1.084	0.724	1.51	0.044	0.37	0.655	0.31	9.69	0.271	0.12	1.68	-0.64	
400T150	0.0505	0.048	57	0.34	1.17	0.823	1.55	0.073	0.46	0.705	0.32	10.1	0.292	0.2	1.82	-0.84	
400T200	0.0505	0.048	57	0.4	1.341	1.02	1.61	0.161	0.64	0.793	0.35	10.6	0.335	0.43	2.13	-1.25	
550T125	0.0505	0.048	57	0.4	1.341	1.567	1.99	0.047	0.35	1.444	0.5	14	0.335	0.26	2.1	-0.55	
550T150	0.0505	0.048	57	0.42	1.427	1.754	2.04	0.079	0.43	1.53	0.52	16.4	0.357	0.42	2.21	-0.73	
550T200	0.0505	0.048	57	0.47	1.599	2.129	2.13	0.177	0.61	1.711	0.56	16.6	0.4	0.92	2.47	-1.1	
600T125	0.0505	0.048	57	0.42	1.427	1.942	2.15	0.048	0.34	1.778	0.56	15.5	0.357	0.32	2.24	-0.53	
600T150	0.0505	0.048	57	0.45	1.513	2.165	2.21	0.081	0.43	1.905	0.6	18.3	0.378	0.52	2.35	-0.7	
600T200	0.0505	0.048	57	0.5	1.685	2.612	2.3	0.181	0.6	2.128	0.64	18.1	0.421	1.13	2.6	-1.06	
800T125	0.0505	0.048	57	0.52	1.771	3.999	2.77	0.051	0.31	3.531	0.81	21.5	0.443	0.62	2.82	-0.44	
800T150	0.0505	0.048	57	0.55	1.857	4.398	2.84	0.086	0.4	3.727	0.84	21.9	0.464	1.02	2.93	-0.6	
800T200	0.0505	0.048	57	0.6	2.028	5.196	2.95	0.194	0.57	4.419	1.02	23.8	0.507	2.23	3.15	-0.93	
1000T125	0.0505	0.048	57	0.62	2.114	7.097	3.38	0.053	0.29	5.983	1.07	27.5	0.529	1.03	3.41	-0.39	
1000T150	0.0505	0.048	57	0.65	2.2	7.722	3.45	0.089	0.37	6.278	1.1	28	0.55	1.71	3.51	-0.52	
1000T200	0.0505	0.048	57	0.7	2.372	8.972	3.59	0.204	0.54	6.783	1.15	28.7	0.593	3.76	3.72	-0.83	



Technical specifications effective 1/1/2016 and supersedes all previous information.

//////PRODUCT LINES

**INTERIOR & EXTERIOR FRAMING**

Steeler Manufactured Products

- |                           |                          |
|---------------------------|--------------------------|
| * Steel Studs & Track     | * Flat Stock             |
| * Smooth Products™        | * Shaftwall Studs        |
| * Slotted Track           | * J Track                |
| * Sound Resilient Channel | * Z-Furring Channel      |
| * Furring Channel         | * Custom Brake Shapes    |
| * Cold-Rolled Channel     | * Steeler Slotted Studs™ |
| * Angle                   | * Pony Wall Supports     |



**INTERIOR FINISHING & DRYWALL**



Steeler Product Offerings

- \* Hanger Wire
- \* U-Hank Tie Wire
- \* National Gypsum Board
- \* The Steel Network Clips
- \* Owens Corning Insulation
- \* Hamilton Drywall Products
- \* Panel Rey Gypsum Board
- \* Beadex Wall Products
- \* Award Metals Corner Beads
- \* Trim-Tex Drywall Products
- \* And more...



**FASTENERS**

Steeler Product Offerings

- |                         |                           |
|-------------------------|---------------------------|
| * Super Steelers™*      | * Rust Resistant Screws   |
| * Hi-Lo Super Steelers™ | * Drywall Drillers*       |
| * Super Woodies™*       | * Cement Board Screws     |
| * Super Framers*        | * Super Framing Drillers* |
| * Super Lathers*        | * Wafer Head Drillers*    |
| * Super Hex Framers*    | * Super Hex Drillers*     |
| * Super Laminating      | * And more...             |



\*Denotes availability in zinc coating

**TOOLS & ACCESSORIES**



Steeler Product Offerings

- \* Bit Tips & Bit Tip Holders
- \* Williams Bros. Access Doors
- \* Chop Saw Blades
- \* DeWalt Tools
- \* Empire Levels
- \* Kett Tool Company
- \* ToolPro Tools
- \* Pacific Laser Systems
- \* Wal-Board Tools
- \* Simpson Strong-Tie
- \* 3M Construction Supplies
- \* And more...



## //////LEED® – 11 POTENTIAL POINTS

Steeler Inc. is stepping up to the environmental challenges of today and contributing to future generations by supporting green building with green products. Steeler Inc. framing systems and products are **the** environmentally responsible choice. Below is a list of LEED Credits that can apply to your project and to sustainability of the built environment. Let us help you do your part by specifying Steeler framing and products.

### LEED Credit MR 2

#### Construction Waste Management (1-2 points)

Steeler framing products are manufactured from cold-formed steel (CFS). CFS is 100% recyclable and therefore contributes significantly to LEED Credit MR 2. The specific contribution amounts will vary depending on the project and construction decisions.

### LEED Credit MR 4

#### Recycled Content (1-2 points)

Steeler framing products contain a minimum of 26% post-consumer and 7% pre-consumer recycled steel content for a minimum of 33% recyclable. Recycled content of materials contributes to LEED Credits MR 4. If notified in advance, Steeler can order steel containing higher percentages of recycled content to meet your specific project needs. Contact Steeler technical services prior to ordering so we can help support your project goals.

### LEED Credit MR 5

#### Regional Materials (1-2 points)

Steeler framing products contain a large percentage of locally sourced materials and can contribute to LEED Credits MR 5. Materials contributing to these credits must be extracted, harvested, or recovered, and manufactured within a 500 mile radius OR ≤500 miles of total travel distance using a weighted mileage contribution depending on the means of travel.

### LEED Credit ID 1

#### Innovation in Design (1-2 points)

Steeler framing can contribute to LEED Credits ID 1 through Path 2 and exemplary performance for Recycled Content and/or Regional Materials. Credit for exemplary performance may require steel with a higher than average recycled content. Contact Steeler technical services prior to ordering so we can support your project goals by ordering highly recycled steel.

### LEED Credit RP 1

#### Regional Priority (1-3 points)

Steeler framing can contribute to LEED Credits RP 1 by addressing geographic-specific environmental priorities. If your project area has defined any of the above LEED Credits as a regional priority, then your project qualifies for one credit per priority met. Verify your project's regional priority credits at the U.S. Green Building Council (USGBC) website:

[www.usgbc.org](http://www.usgbc.org)



#### Steeler Plant Locations

- Seattle, WA
- Newark, CA

Steeler Inc. supports the U.S. Green Building Council by retaining LEED knowledgeable professionals on staff. Steeler Inc. technical services (206-760-7100) can assist you in documenting and applying LEED Certification Credits to your project. Let's develop a more sustainable building environment together!





//////ABOUT

Washington

Seattle (Sales)  
 P 206.725.8500  
 F 206.725.1100  
 Seattle (Corporate)  
 P 206.725.2500  
 F 206.725.1700

Spokane  
 P 509.926.7403  
 F 509.928.5741

Tacoma  
 P 253.572.8200  
 F 253.572.8400

Oregon

Portland  
 P 503.231.1100  
 F 503.235.2908

Tigard  
 P 503.431.2000  
 F 503.431.2311

Canada

Delta (Vancouver), British Columbia  
 P 604.940.1332  
 F 604.940.1334

California

Bay Area  
 P 510.505.9595  
 F 510.505.0200

Sacramento  
 P 916.483.3600  
 F 916.483.3018

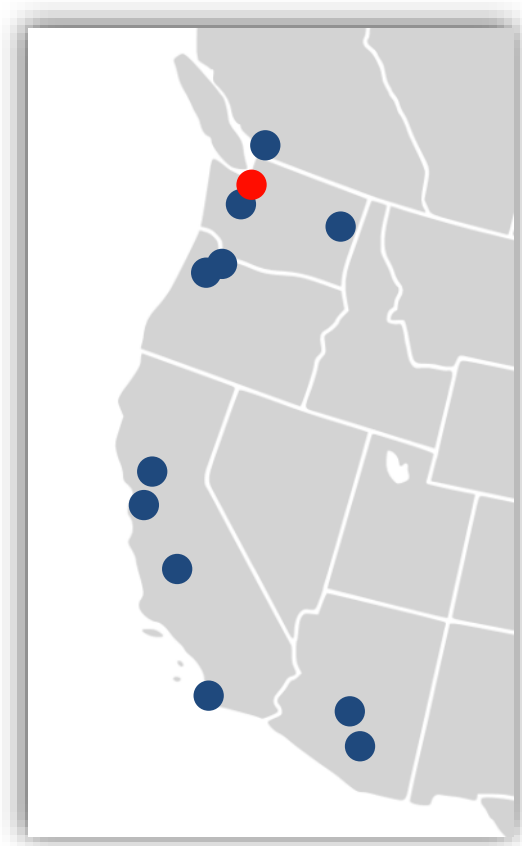
San Diego  
 P 619.527.1000  
 F 619.527.1005

Bakersfield  
 P 661.399.3333  
 F 661.399.0004

Arizona

Phoenix  
 P 623.848.0007  
 F 623.848.3055

Tucson  
 P 520.690.0077  
 F 520.292.1037



**Steeler Products**

- /// Interior Framing & Finishing
- /// Exterior Framing
- /// Gypsum Products
- /// Insulation
- /// Custom Brake Shapes
- /// Clips & Connectors
- /// Screws
- /// Tools

**Engineering Services**

- /// Engineering Solutions
- /// Shop Drawings
- /// CAD/BIM Details
- /// Fire & Sound Assemblies
- /// Engineered & Stamped Calculations/Plans/Details
- /// LEED Support
- /// Section Properties & Limiting Heights for Custom Shapes

**Elite™ Code Approvals & Performance Standards**

Steeler Elite™ products meet the manufacturing requirements of ASTM C645 and ASTM C955 and values are calculated in accordance with the North American Specification for the Design of Cold-Formed Steel Structural Members (NASPEC) as adopted by the International Building Code (IBC).

Disclaimer:

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[WWW.STEELER.COM](http://WWW.STEELER.COM) | 800-275-2279

10023 MARTIN LUTHER KING JR. WAY SOUTH | SEATTLE, WA 98178 | P (206) 725 2500 | F (206) 725-1300