

Product Name :	250S162-33 (33 ksi)	Structural Stud (G60)		
PHYSICAL PROPERTIES	, ,	,		
Web Height =	2.5000 in	Steel Thickness =	0.0346 in	
Top Flange =	1.6250 in	Inside Corner Radius =	0.0765 in	
Bottom Flange =	1.6250 in	Yield Stress, Fy =	33.0000 ksi	
Stiffening Lip =	0.5000 in	Fy With Cold-Work, Fya =	33.0000 ksi	
Punchout Width =	0.7500 in	Punchout Length =	4.0000 in	
Effective Section Propert	ties, Strong Axis			
Neutral Axis from Top Fiber (Y	/cg)			1.2737 in
Moment of Inertia for Deflection	on (Ixx)			0.2352 in^4
Section Modulus (Sxx)				0.1798 in^3
Allowable Bending Moment (M	ſla)			296.12 ft-lb
Allowable Distortional Buckling	g Moment (Mda) at Kφ = 0			284.67 ft-lb
Gross Section Properties	of Full Section, Strong Axis			
Neutral Axis from Top Fiber (Y	/cg)			1.2500 in
Moment of Inertia (Ixxg)				0.2352 in^4
Section modules (Sxxg)				0.1882 in^3
Cross Sectional Area (Ag)				0.2232 in^2
Radius of Gyration (Rxg)				1.0266 in
Net Section Properties of	f the Punched Section, Strong	Axis		
Moment of Inertia (Ixx-net)				0.2340 in^4
Section Modules (Sxx-net)				0.1872 in^3
Cross Sectional Area (Anet)				0.1972 in^2
Section Properties, Weak	(Axis			
Gross Neutral Axis (Xcg) Fron	n Web Face			0.6276 in
Gross Moment of Inertia (Iyy)				0.0870 in^4
Radius of Gyration (Ry)				0.6242 in
Other Section Properties				
Member Weight per Foot of Le	ength			0.7595 lb/ft
Allowable Shear Force In Web	o (Unpunched)			975.34 lb
Allowable Shear Force In Web	o (Punched)			398.80 lb
Torsional Properties				
Dist. from Shear Center to Ne	utral Axis (Xo)			-1.4695 in
St. Venant torsion Constant (J	J x 1000)			0.0891 in^4
Warping Constant (Cw)				0.1461 in^6
Radii of Gyration (Ro)				1.8982 in^6
Torsional Flexural Constant (E	Beta)			0.4006

Location (1) and (6) are tip of compression and tension lip respectively

Location (2) and (5) are flange/lip corner of compression and tension side respectively

[•] Properties based upon the AISI S100-16 - North American Specification for the Design of CFS Structural Members incl. Supplement 1 (S100-16/S1-18)

[•] Effective properties include the strength increase from cold forming



Product Name :	250S162-43 (33 ksi)	Structural Stud (G60)		
PHYSICAL PROPERTIES	· · · · · · · · · · · · · · · · · · ·	, ,		
Web Height =	2.5000 in	Steel Thickness =	0.0451 in	
Top Flange =	1.6250 in	Inside Corner Radius =	0.0712 in	
Bottom Flange =	1.6250 in	Yield Stress, Fy =	33.0000 ksi	
Stiffening Lip =	0.5000 in	Fy With Cold-Work, Fya =	33.0000 ksi	
Punchout Width =	0.7500 in	Punchout Length =	4.0000 in	
Effective Section Proper	ties, Strong Axis			
Neutral Axis from Top Fiber (Ycg)			1.2500 in
Moment of Inertia for Deflection	on (lxx)			0.3020 in^4
Section Modulus (Sxx)				0.2416 in^3
Allowable Bending Moment (N	Ma)			397.84 ft-lb
Allowable Distortional Bucklin	ng Moment (Mda) at Kφ = 0			393.46 ft-lb
Gross Section Properties	s of Full Section, Strong Axis			
Neutral Axis from Top Fiber (Ycg)			1.2500 in
Moment of Inertia (Ixxg)				0.3020 in^4
Section modules (Sxxg)				0.2416 in^3
Cross Sectional Area (Ag)				0.2890 in^2
Radius of Gyration (Rxg)				1.0222 in
Net Section Properties o	f the Punched Section, Strong	Axis		
Moment of Inertia (Ixx-net)				0.3004 in^4
Section Modules (Sxx-net)				0.2403 in^3
Cross Sectional Area (Anet)				0.2552 in^2
Section Properties, Wea	k Axis			
Gross Neutral Axis (Xcg) From	m Web Face			0.6276 in
Gross Moment of Inertia (Iyy)				0.1110 in^4
Radius of Gyration (Ry)				0.6197 in
Other Section Properties	5			
Member Weight per Foot of L	ength			0.9835 lb/ft
Allowable Shear Force In We	b (Unpunched)			1265.46 lb
Allowable Shear Force In We	b (Punched)			394.23 lb
Torsional Properties				
Dist. from Shear Center to Ne	eutral Axis (Xo)			-1.4573 in
St. Venant torsion Constant (J x 1000)			0.1960 in^4
Warping Constant (Cw)				0.1843 in^6
Radii of Gyration (Ro)				1.8848 in^6
Torsional Flexural Constant (I	Beta)			0.4022
Location (1) and (6) are tip of	compression and tonsion lin respective	volv.		

Location (1) and (6) are tip of compression and tension lip respectively

Location (2) and (5) are flange/lip corner of compression and tension side respectively

[•] Properties based upon the AISI S100-16 - North American Specification for the Design of CFS Structural Members incl. Supplement 1 (S100-16/S1-18)

[•] Effective properties include the strength increase from cold forming



Product Name :	, ,	Structural Stud (G60)		
PHYSICAL PROPERTIES				
Web Height =	2.5000 in	Steel Thickness =	0.0566 in	
Top Flange =	1.6250 in	Inside Corner Radius =	0.0849 in	
Bottom Flange =	1.6250 in	Yield Stress, Fy =	50.0000 ksi	
Stiffening Lip =	0.5000 in	Fy With Cold-Work, Fya =	50.0000 ksi	
Punchout Width =	0.7500 in	Punchout Length =	4.0000 in	
Effective Section Proper	ties, Strong Axis			
Neutral Axis from Top Fiber (Ycg)			1.2666 in
Moment of Inertia for Deflection	on (lxx)		(0.3697 in^4
Section Modulus (Sxx)			(0.2881 in^3
Allowable Bending Moment (M	Ma)		-	718.74 ft-lb
Allowable Distortional Bucklin	g Moment (Mda) at Kφ = 0		(695.60 ft-lb
Gross Section Properties	s of Full Section, Strong Axis			
Neutral Axis from Top Fiber (Ycg)			1.2500 in
Moment of Inertia (Ixxg)			(0.3697 in^4
Section modules (Sxxg)			(0.2958 in^3
Cross Sectional Area (Ag)			(0.3582 in^2
Radius of Gyration (Rxg)				1.0159 in
Net Section Properties o	f the Punched Section, Strong	Axis		
Moment of Inertia (Ixx-net)			(0.3677 in^4
Section Modules (Sxx-net)			(0.2942 in^3
Cross Sectional Area (Anet)			(0.3158 in^2
Section Properties, Weal	k Axis			
Gross Neutral Axis (Xcg) Fron	n Web Face		(0.6266 in
Gross Moment of Inertia (Iyy)			(0.1348 in^4
Radius of Gyration (Ry)			(0.6134 in
Other Section Properties	S			
Member Weight per Foot of L	ength			1.2190 lb/ft
Allowable Shear Force In We	b (Unpunched)		2	2352.79 lb
Allowable Shear Force In We	b (Punched)		;	564.64 lb
Torsional Properties				
Dist. from Shear Center to Ne	eutral Axis (Xo)		-	-1.4429 in
St. Venant torsion Constant (J x 1000)		(0.3825 in^4
Warping Constant (Cw)			(0.2229 in^6
Radii of Gyration (Ro)				1.8683 in^6
Torsional Flexural Constant (E	Beta)		(0.4035

Location (1) and (6) are tip of compression and tension lip respectively

Location (2) and (5) are flange/lip corner of compression and tension side respectively

- Properties based upon the AISI S100-16 North American Specification for the Design of CFS Structural Members incl. Supplement 1 (S100-16/S1-18)
- Effective properties include the strength increase from cold forming



Product Name : PHYSICAL PROPERTIES	` ,	Structural Stud (G60)		
Web Height =	3.6250 in	Steel Thickness =	0.0346 in	
Top Flange =	1.6250 in	Inside Corner Radius =	0.0765 in	
Bottom Flange =	1.6250 in	Yield Stress, Fy =	33.0000 ksi	
Stiffening Lip =	0.5000 in	Fy With Cold-Work, Fya =	33.0000 ksi	
Punchout Width =	1.5000 in	Punchout Length =	4.0000 in	
Effective Section Proper	ties, Strong Axis			
Neutral Axis from Top Fiber (Ycg)			1.9189 in
Moment of Inertia for Deflecti	on (lxx)			0.5512 in^4
Section Modulus (Sxx)				0.2677 in^3
Allowable Bending Moment (I	Ma)			440.87 ft-lb
Allowable Distortional Bucklin	ng Moment (Mda) at Kφ = 0			434.51 ft-lb
Gross Section Propertie	s of Full Section, Strong Axis			
Neutral Axis from Top Fiber (Ycg)			1.8125 in
Moment of Inertia (Ixxg)				0.5512 in^4
Section modules (Sxxg)				0.3041 in^3
Cross Sectional Area (Ag)				0.2621 in^2
Radius of Gyration (Rxg)				1.4501 in
Net Section Properties of	of the Punched Section, Strong	Axis		
Moment of Inertia (Ixx-net)				0.5414 in^4
Section Modules (Sxx-net)				0.2987 in^3
Cross Sectional Area (Anet)				0.2102 in^2
Section Properties, Wea	k Axis			
Gross Neutral Axis (Xcg) From	m Web Face			0.5370 in
Gross Moment of Inertia (Iyy))			0.0993 in^4
Radius of Gyration (Ry)				0.6155 in
Other Section Properties	8			
Member Weight per Foot of L	ength			0.8919 lb/ft
Allowable Shear Force In We	eb (Unpunched)			1023.58 lb
Allowable Shear Force In We	eb (Punched)			521.24 lb
Torsional Properties				
Dist. from Shear Center to Ne	eutral Axis (Xo)			-1.3084 in
St. Venant torsion Constant (J x 1000)			0.1046 in^4
Warping Constant (Cw)				0.2969 in^6
Radii of Gyration (Ro)				2.0478 in^6
Torsional Flexural Constant (Beta)			0.5918

Location (1) and (6) are tip of compression and tension lip respectively

Location (2) and (5) are flange/lip corner of compression and tension side respectively

[•] Properties based upon the AISI S100-16 - North American Specification for the Design of CFS Structural Members incl. Supplement 1 (S100-16/S1-18)

[•] Effective properties include the strength increase from cold forming



Product Name :	•	Structural Stud (G60)		
PHYSICAL PROPERTIES	3 :			
Web Height =	3.6250 in	Steel Thickness =	0.0451 in	
Top Flange =	1.6250 in	Inside Corner Radius =	0.0712 in	
Bottom Flange =	1.6250 in	Yield Stress, Fy =	33.0000 ksi	
Stiffening Lip =	0.5000 in	Fy With Cold-Work, Fya =	33.0000 ksi	
Punchout Width =	1.5000 in	Punchout Length =	4.0000 in	
Effective Section Proper	ties, Strong Axis			
Neutral Axis from Top Fiber (Ycg)			1.8509 in
Moment of Inertia for Deflection	on (lxx)			0.7098 in^4
Section Modulus (Sxx)				0.3716 in^3
Allowable Bending Moment (I	Ma)			611.99 ft-lb
Allowable Distortional Bucklin	ng Moment (Mda) at Kφ = 0			609.61 ft-lb
Gross Section Properties	s of Full Section, Strong Axis			
Neutral Axis from Top Fiber (Ycg)			1.8125 in
Moment of Inertia (Ixxg)				0.7098 in^4
Section modules (Sxxg)				0.3916 in^3
Cross Sectional Area (Ag)				0.3398 in^2
Radius of Gyration (Rxg)				1.4453 in
Net Section Properties o	f the Punched Section, Strong	Axis		
Moment of Inertia (Ixx-net)				0.6971 in^4
Section Modules (Sxx-net)				0.3846 in^3
Cross Sectional Area (Anet)				0.2721 in^2
Section Properties, Wea	k Axis			
Gross Neutral Axis (Xcg) From	m Web Face			0.5373 in
Gross Moment of Inertia (Iyy)				0.1268 in^4
Radius of Gyration (Ry)				0.6109 in
Other Section Properties	5			
Member Weight per Foot of L	ength			1.1562 lb/ft
Allowable Shear Force In We	b (Unpunched)			1739.09 lb
Allowable Shear Force In We	b (Punched)			675.67 lb
Torsional Properties				
Dist. from Shear Center to Ne	eutral Axis (Xo)			-1.2966 in
St. Venant torsion Constant (J x 1000)			0.2304 in^4
Warping Constant (Cw)				0.3759 in^6
Radii of Gyration (Ro)				2.0355 in^6
Torsional Flexural Constant (Beta)			0.5942

Location (1) and (6) are tip of compression and tension lip respectively

Location (2) and (5) are flange/lip corner of compression and tension side respectively

- Properties based upon the AISI S100-16 North American Specification for the Design of CFS Structural Members incl. Supplement 1 (S100-16/S1-18)
- Effective properties include the strength increase from cold forming



Product Name :	362S162-54 (50 ksi)	Structural Stud (G60)		
PHYSICAL PROPERTIES	, ,	,		
Web Height =	3.6250 in	Steel Thickness =	0.0566 in	
Top Flange =	1.6250 in	Inside Corner Radius =	0.0849 in	
Bottom Flange =	1.6250 in	Yield Stress, Fy =	50.0000 ksi	
Stiffening Lip =	0.5000 in	Fy With Cold-Work, Fya =	50.0000 ksi	
Punchout Width =	1.5000 in	Punchout Length =	4.0000 in	
Effective Section Proper	ties, Strong Axis			
Neutral Axis from Top Fiber (Ycg)			1.8772 in
Moment of Inertia for Deflection	on (Ixx)			0.8727 in^4
Section Modulus (Sxx)				0.4435 in^3
Allowable Bending Moment (M	Ma)			1106.66 ft-lb
Allowable Distortional Bucklin	g Moment (Mda) at Kφ = 0			1077.75 ft-lb
Gross Section Properties	s of Full Section, Strong Axis			
Neutral Axis from Top Fiber (Ycg)			1.8125 in
Moment of Inertia (Ixxg)				0.8727 in^4
Section modules (Sxxg)				0.4815 in^3
Cross Sectional Area (Ag)				0.4219 in^2
Radius of Gyration (Rxg)				1.4382 in
Net Section Properties o	f the Punched Section, Strong A	Axis		
Moment of Inertia (Ixx-net)				0.8568 in^4
Section Modules (Sxx-net)				0.4727 in^3
Cross Sectional Area (Anet)				0.3370 in^2
Section Properties, Weal	k Axis			
Gross Neutral Axis (Xcg) Fron	n Web Face			0.5363 in
Gross Moment of Inertia (Iyy)				0.1541 in^4
Radius of Gyration (Ry)				0.6044 in
Other Section Properties	1			
Member Weight per Foot of L	ength			1.4357 lb/ft
Allowable Shear Force In Wel	b (Unpunched)			3371.56 lb
Allowable Shear Force In Wel	b (Punched)			1015.97 lb
Torsional Properties				
Dist. from Shear Center to Ne	eutral Axis (Xo)			-1.2825 in
St. Venant torsion Constant (J x 1000)			0.4505 in^4
Warping Constant (Cw)				0.4569 in^6
Radii of Gyration (Ro)				2.0196 in^6
Torsional Flexural Constant (E	Beta)			0.5967
Location (1) and (6) are tip of	compression and tonsion lin respective	roly.		

Location (1) and (6) are tip of compression and tension lip respectively

Location (2) and (5) are flange/lip corner of compression and tension side respectively

[•] Properties based upon the AISI S100-16 - North American Specification for the Design of CFS Structural Members incl. Supplement 1 (S100-16/S1-18)

[•] Effective properties include the strength increase from cold forming



Product Name :	400S162-33 (33 ksi) \$	Structural Stud (G60)		
PHYSICAL PROPERTIES	3 :			
Web Height =	4.0000 in	Steel Thickness =	0.0346 in	
Top Flange =	1.6250 in	Inside Corner Radius =	0.0765 in	
Bottom Flange =	1.6250 in	Yield Stress, Fy =	33.0000 ksi	
Stiffening Lip =	0.5000 in	Fy With Cold-Work, Fya =	33.0000 ksi	
Punchout Width =	1.5000 in	Punchout Length =	4.0000 in	
Effective Section Proper	ties, Strong Axis			
Neutral Axis from Top Fiber (Ycg)			2.1436 in
Moment of Inertia for Deflection	on (Ixx)			0.6921 in^4
Section Modulus (Sxx)				0.2989 in^3
Allowable Bending Moment (I	Ma)			492.21 ft-lb
Allowable Distortional Bucklin	ng Moment (Mda) at Kφ = 0			485.78 ft-lb
Gross Section Properties	s of Full Section, Strong Axis			
Neutral Axis from Top Fiber (Ycg)			2.0000 in
Moment of Inertia (Ixxg)				0.6921 in^4
Section modules (Sxxg)				0.3461 in^3
Cross Sectional Area (Ag)				0.2751 in^2
Radius of Gyration (Rxg)				1.5862 in
Net Section Properties o	of the Punched Section, Strong A	axis		
Moment of Inertia (Ixx-net)				0.6824 in^4
Section Modules (Sxx-net)				0.3412 in^3
Cross Sectional Area (Anet)				0.2232 in^2
Section Properties, Wea	k Axis			
Gross Neutral Axis (Xcg) From	m Web Face			0.5124 in
Gross Moment of Inertia (Iyy)	1			0.1026 in^4
Radius of Gyration (Ry)				0.6108 in
Other Section Properties	S			
Member Weight per Foot of L	ength			0.9361 lb/ft
Allowable Shear Force In We	b (Unpunched)			975.86 lb
Allowable Shear Force In We	b (Punched)			594.87 lb
Torsional Properties				
Dist. from Shear Center to Ne	eutral Axis (Xo)			-1.2633 in
St. Venant torsion Constant (J x 1000)			0.1098 in^4
Warping Constant (Cw)				0.3628 in^6
Radii of Gyration (Ro)				2.1178 in^6
Torsional Flexural Constant (Beta)			0.6442

Location (1) and (6) are tip of compression and tension lip respectively

Location (2) and (5) are flange/lip corner of compression and tension side respectively

[•] Properties based upon the AISI S100-16 - North American Specification for the Design of CFS Structural Members incl. Supplement 1 (S100-16/S1-18)

[•] Effective properties include the strength increase from cold forming



Product Name :	400S162-43 (33 ksi)	Structural Stud (G60)		
PHYSICAL PROPERTIES):			
Web Height =	4.0000 in	Steel Thickness =	0.0451 in	
Top Flange =	1.6250 in	Inside Corner Radius =	0.0712 in	
Bottom Flange =	1.6250 in	Yield Stress, Fy =	33.0000 ksi	
Stiffening Lip =	0.5000 in	Fy With Cold-Work, Fya =	33.0000 ksi	
Punchout Width =	1.5000 in	Punchout Length =	4.0000 in	
Effective Section Proper	ties, Strong Axis			
Neutral Axis from Top Fiber (Ycg)			2.0660 in
Moment of Inertia for Deflection	on (Ixx)			0.8919 in^4
Section Modulus (Sxx)				0.4166 in^3
Allowable Bending Moment (M	Ma)			686.00 ft-lb
Allowable Distortional Bucklin	g Moment (Mda) at Kφ = 0			683.84 ft-lb
Gross Section Properties	s of Full Section, Strong Axis			
Neutral Axis from Top Fiber (Ycg)			2.0000 in
Moment of Inertia (Ixxg)				0.8919 in^4
Section modules (Sxxg)				0.4460 in^3
Cross Sectional Area (Ag)				0.3567 in^2
Radius of Gyration (Rxg)				1.5813 in
Net Section Properties o	f the Punched Section, Strong	Axis		
Moment of Inertia (Ixx-net)				0.8792 in^4
Section Modules (Sxx-net)				0.4396 in^3
Cross Sectional Area (Anet)				0.2890 in^2
Section Properties, Weal	k Axis			
Gross Neutral Axis (Xcg) Fron	m Web Face			0.5128 in
Gross Moment of Inertia (Iyy)				0.1311 in^4
Radius of Gyration (Ry)				0.6062 in
Other Section Properties	3			
Member Weight per Foot of L	ength			1.2137 lb/ft
Allowable Shear Force In We	b (Unpunched)			1739.09 lb
Allowable Shear Force In We	b (Punched)			809.56 lb
Torsional Properties				
Dist. from Shear Center to Ne	eutral Axis (Xo)			-1.2517 in
St. Venant torsion Constant (J x 1000)			0.2418 in^4
Warping Constant (Cw)				0.4598 in^6
Radii of Gyration (Ro)				2.1059 in^6
Torsional Flexural Constant (E	Beta)			0.6467

Location (1) and (6) are tip of compression and tension lip respectively

Location (2) and (5) are flange/lip corner of compression and tension side respectively

- Properties based upon the AISI S100-16 North American Specification for the Design of CFS Structural Members incl. Supplement 1 (S100-16/S1-18)
- Effective properties include the strength increase from cold forming



Product Name :	400S162-54 (50 kg	si) Structural Stud (G60))		
PHYSICAL PROPERTIES :		, (,		
Web Height =	4.0000 in	Steel Thicknes	ss =	0.0566 in	
Top Flange =	1.6250 in	Inside Corner	Radius =	0.0849 in	
Bottom Flange =	1.6250 in	Yield Stress, F	₹y =	50.0000 ksi	
Stiffening Lip =	0.5000 in	Fy With Cold-\	Nork, Fya =	50.0000 ksi	
Punchout Width =	1.5000 in	Punchout Lenç	gth =	4.0000 in	
Effective Section Properties,	Strong Axis				
Neutral Axis from Top Fiber (Ycg)					2.0948 in
Moment of Inertia for Deflection (Ix	(X)				1.0977 in^4
Section Modulus (Sxx)					0.4975 in^3
Allowable Bending Moment (Ma)					1241.34 ft-lb
Allowable Distortional Buckling Mo	ment (Mda) at Kφ = 0				1209.78 ft-lb
Gross Section Properties of	Full Section, Strong Axi	\$			
Neutral Axis from Top Fiber (Ycg)					2.0000 in
Moment of Inertia (Ixxg)					1.0977 in^4
Section modules (Sxxg)					0.5489 in^3
Cross Sectional Area (Ag)					0.4431 in^2
Radius of Gyration (Rxg)					1.5739 in
Net Section Properties of the	Punched Section, Stro	ng Axis			
Moment of Inertia (Ixx-net)					1.0818 in^4
Section Modules (Sxx-net)					0.5409 in^3
Cross Sectional Area (Anet)					0.3582 in^2
Section Properties, Weak Ax	is				
Gross Neutral Axis (Xcg) From We	eb Face				0.5120 in
Gross Moment of Inertia (Iyy)					0.1594 in^4
Radius of Gyration (Ry)					0.5997 in
Other Section Properties					
Member Weight per Foot of Length	า				1.5079 lb/ft
Allowable Shear Force In Web (Ur	ipunched)				3371.56 lb
Allowable Shear Force In Web (Pu	inched)				1222.80 lb
Torsional Properties					
Dist. from Shear Center to Neutral	Axis (Xo)				-1.2378 in
St. Venant torsion Constant (J x 10	000)				0.4732 in^4
Warping Constant (Cw)					0.5595 in^6
Radii of Gyration (Ro)					2.0902 in^6
Torsional Flexural Constant (Beta)					0.6493

Location (1) and (6) are tip of compression and tension lip respectively

Location (2) and (5) are flange/lip corner of compression and tension side respectively

- Properties based upon the AISI S100-16 North American Specification for the Design of CFS Structural Members incl. Supplement 1 (S100-16/S1-18)
- Effective properties include the strength increase from cold forming



Product Name :	600S162-33 (33 ksi) Structural Stud (G60)	
PHYSICAL PROPERTIES	•	,	
Web Height =	6.0000 in	Steel Thickness =	0.0346 in
Top Flange =	1.6250 in	Inside Corner Radius =	0.0765 in
Bottom Flange =	1.6250 in	Yield Stress, Fy =	33.0000 ksi
Stiffening Lip =	0.5000 in	Fy With Cold-Work, Fya =	33.0000 ksi
Punchout Width =	1.5000 in	Punchout Length =	4.0000 in
Effective Section Properti	es, Strong Axis		
Neutral Axis from Top Fiber (Yo	cg)		3.0387 in
Moment of Inertia for Deflection	ı (lxx)		1.7928 in^4
Section Modulus (Sxx)			0.5773 in^3
Allowable Bending Moment (Ma	a)		950.63 ft-lb
Allowable Distortional Buckling	Moment (Mda) at Kφ = 0		760.95 ft-lb
Gross Section Properties	of Full Section, Strong Axis		
Neutral Axis from Top Fiber (Yo	cg)		3.0000 in
Moment of Inertia (Ixxg)			1.7928 in^4
Section modules (Sxxg)			0.5976 in^3
Cross Sectional Area (Ag)			0.3443 in^2
Radius of Gyration (Rxg)			2.2819 in
Net Section Properties of	the Punched Section, Strong	g Axis	
Moment of Inertia (Ixx-net)			1.7831 in^4
Section Modules (Sxx-net)			0.5944 in^3
Cross Sectional Area (Anet)			0.2924 in^2
Section Properties, Weak	Axis		
Gross Neutral Axis (Xcg) From	Web Face		0.4129 in
Gross Moment of Inertia (Iyy)			0.1162 in^4
Radius of Gyration (Ry)			0.5809 in
Other Section Properties			
Member Weight per Foot of Le	ngth		1.1716 lb/ft
Allowable Shear Force In Web	(Unpunched)		638.07 lb
Allowable Shear Force In Web	(Punched)		638.07 lb
Torsional Properties			
Dist. from Shear Center to Neu	tral Axis (Xo)		-1.0723 in
St. Venant torsion Constant (J	x 1000)		0.1374 in^4
Warping Constant (Cw)			0.8615 in^6
Radii of Gyration (Ro)			2.5874 in^6
Torsional Flexural Constant (Be	eta)		0.8282

Location (1) and (6) are tip of compression and tension lip respectively

Location (2) and (5) are flange/lip corner of compression and tension side respectively

[•] Properties based upon the AISI S100-16 - North American Specification for the Design of CFS Structural Members incl. Supplement 1 (S100-16/S1-18)

[•] Effective properties include the strength increase from cold forming



Product Name :	600S162-43 (33 k	si) Structural Stud (G60)		
PHYSICAL PROPERTIES :	(00	.,		
Web Height =	6.0000 in	Steel Thickness =	0.0451 in	
Top Flange =	1.6250 in	Inside Corner Radius =	0.0712 in	
Bottom Flange =	1.6250 in	Yield Stress, Fy =	33.0000 ksi	
Stiffening Lip =	0.5000 in	Fy With Cold-Work, Fya	= 33.0000 ksi	
Punchout Width =	1.5000 in	Punchout Length =	4.0000 in	
Effective Section Properties,	Strong Axis			
Neutral Axis from Top Fiber (Ycg)				3.0000 in
Moment of Inertia for Deflection (Ix	(X)			2.3158 in^4
Section Modulus (Sxx)				0.7719 in^3
Allowable Bending Moment (Ma)				1271.14 ft-lb
Allowable Distortional Buckling Mo	ment (Mda) at Kφ = 0			1087.91 ft-lb
Gross Section Properties of	Full Section, Strong Ax	s		
Neutral Axis from Top Fiber (Ycg)				3.0000 in
Moment of Inertia (Ixxg)				2.3158 in^4
Section modules (Sxxg)				0.7719 in^3
Cross Sectional Area (Ag)				0.4469 in^2
Radius of Gyration (Rxg)				2.2764 in
Net Section Properties of the	Punched Section, Stro	ng Axis		
Moment of Inertia (Ixx-net)				2.3031 in^4
Section Modules (Sxx-net)				0.7677 in^3
Cross Sectional Area (Anet)				0.3792 in^2
Section Properties, Weak Ax	is			
Gross Neutral Axis (Xcg) From We	eb Face			0.4139 in
Gross Moment of Inertia (Iyy)				0.1484 in^4
Radius of Gyration (Ry)				0.5762 in
Other Section Properties				
Member Weight per Foot of Length	า			1.5206 lb/ft
Allowable Shear Force In Web (Ur	npunched)			1415.67 lb
Allowable Shear Force In Web (Pu	ınched)			1240.29 lb
Torsional Properties				
Dist. from Shear Center to Neutral	Axis (Xo)			-1.0617 in
St. Venant torsion Constant (J x 10	000)			0.3030 in^4
Warping Constant (Cw)				1.0952 in^6
Radii of Gyration (Ro)				2.5771 in^6
Torsional Flexural Constant (Beta)				0.8303

Location (1) and (6) are tip of compression and tension lip respectively

Location (2) and (5) are flange/lip corner of compression and tension side respectively

- Properties based upon the AISI S100-16 North American Specification for the Design of CFS Structural Members incl. Supplement 1 (S100-16/S1-18)
- Effective properties include the strength increase from cold forming



Product Name :	600S162-54 (50 ksi)	Structural Stud (G60)		
PHYSICAL PROPERTIES	3 :			
Web Height =	6.0000 in	Steel Thickness =	0.0566 in	
Top Flange =	1.6250 in	Inside Corner Radius =	0.0849 in	
Bottom Flange =	1.6250 in	Yield Stress, Fy =	50.0000 ksi	
Stiffening Lip =	0.5000 in	Fy With Cold-Work, Fya =	50.0000 ksi	
Punchout Width =	1.5000 in	Punchout Length =	4.0000 in	
Effective Section Proper	ties, Strong Axis			
Neutral Axis from Top Fiber (Ycg)			3.0335 in
Moment of Inertia for Deflection	on (lxx)			2.8604 in^4
Section Modulus (Sxx)				0.9272 in^3
Allowable Bending Moment (I	Ma)			2313.36 ft-lb
Allowable Distortional Bucklin	ng Moment (Mda) at Kφ = 0			1930.24 ft-lb
Gross Section Properties	s of Full Section, Strong Axis			
Neutral Axis from Top Fiber (Ycg)			3.0000 in
Moment of Inertia (Ixxg)				2.8604 in^4
Section modules (Sxxg)				0.9535 in^3
Cross Sectional Area (Ag)				0.5563 in^2
Radius of Gyration (Rxg)				2.2675 in
Net Section Properties o	f the Punched Section, Strong A	Axis		
Moment of Inertia (Ixx-net)				2.8445 in^4
Section Modules (Sxx-net)				0.9482 in^3
Cross Sectional Area (Anet)				0.4714 in^2
Section Properties, Wea	k Axis			
Gross Neutral Axis (Xcg) From	m Web Face			0.4136 in
Gross Moment of Inertia (Iyy)				0.1805 in^4
Radius of Gyration (Ry)				0.5695 in
Other Section Properties	8			
Member Weight per Foot of L	ength			1.8931 lb/ft
Allowable Shear Force In We	b (Unpunched)			2822.88 lb
Allowable Shear Force In We	b (Punched)			1947.40 lb
Torsional Properties				
Dist. from Shear Center to Ne	eutral Axis (Xo)			-1.0487 in
St. Venant torsion Constant (J x 1000)			0.5941 in^4
Warping Constant (Cw)				1.3372 in^6
Radii of Gyration (Ro)				2.5623 in^6
Torsional Flexural Constant (I	Beta)			0.8325

Location (1) and (6) are tip of compression and tension lip respectively

Location (2) and (5) are flange/lip corner of compression and tension side respectively

[•] Properties based upon the AISI S100-16 - North American Specification for the Design of CFS Structural Members incl. Supplement 1 (S100-16/S1-18)

[•] Effective properties include the strength increase from cold forming



Product Name :	800S162-33 (33 ksi) \$	Structural Stud (G60)		
PHYSICAL PROPERTIES	•	` ,		
Web Height =	8.0000 in	Steel Thickness =	0.0346 in	
Top Flange =	1.6250 in	Inside Corner Radius =	0.0765 in	
Bottom Flange =	1.6250 in	Yield Stress, Fy =	33.0000 ksi	
Stiffening Lip =	0.5000 in	Fy With Cold-Work, Fya =	33.0000 ksi	
Punchout Width =	1.5000 in	Punchout Length =	4.0000 in	
Effective Section Propert	ies, Strong Axis			
Neutral Axis from Top Fiber (Y	′cg)			4.4637 in
Moment of Inertia for Deflection	on (Ixx)			3.3844 in^4
Section Modulus (Sxx)				0.7098 in^3
Allowable Bending Moment (M	1a)			1168.89 ft-lb
Allowable Distortional Buckling	g Moment (Mda) at Kφ = 0			1017.71 ft-lb
Gross Section Properties	of Full Section, Strong Axis			
Neutral Axis from Top Fiber (Y	/cg)			4.0000 in
Moment of Inertia (Ixxg)				3.5821 in^4
Section modules (Sxxg)				0.8955 in^3
Cross Sectional Area (Ag)				0.4135 in^2
Radius of Gyration (Rxg)				2.9433 in
Net Section Properties of	f the Punched Section, Strong A	Axis		
Moment of Inertia (Ixx-net)				3.5723 in^4
Section Modules (Sxx-net)				0.8931 in^3
Cross Sectional Area (Anet)				0.3616 in^2
Section Properties, Weak	(Axis			
Gross Neutral Axis (Xcg) From	ո Web Face			0.3467 in
Gross Moment of Inertia (Iyy)				0.1252 in^4
Radius of Gyration (Ry)				0.5503 in
Other Section Properties				
Member Weight per Foot of Le	ength			1.4070 lb/ft
Allowable Shear Force In Web	o (Unpunched)			474.00 lb
Allowable Shear Force In Web	(Punched)			474.00 lb
Torsional Properties				
Dist. from Shear Center to New	utral Axis (Xo)			-0.9360 in
St. Venant torsion Constant (J	I x 1000)			0.1650 in^4
Warping Constant (Cw)				1.6304 in^6
Radii of Gyration (Ro)				3.1372 in^6
Torsional Flexural Constant (B	Beta)			0.9110

Location (1) and (6) are tip of compression and tension lip respectively

Location (2) and (5) are flange/lip corner of compression and tension side respectively

- Properties based upon the AISI S100-16 North American Specification for the Design of CFS Structural Members incl. Supplement 1 (S100-16/S1-18)
- Effective properties include the strength increase from cold forming



Product Name :	800S162-43 (33 ksi) 3	Structural Stud (G60)		
PHYSICAL PROPERTIES		` ,		
Web Height =	8.0000 in	Steel Thickness =	0.0451 in	
Top Flange =	1.6250 in	Inside Corner Radius =	0.0712 in	
Bottom Flange =	1.6250 in	Yield Stress, Fy =	33.0000 ksi	
Stiffening Lip =	0.5000 in	Fy With Cold-Work, Fya =	33.0000 ksi	
Punchout Width =	1.5000 in	Punchout Length =	4.0000 in	
Effective Section Propert	ies, Strong Axis			
Neutral Axis from Top Fiber (Y	(cg)			4.2699 in
Moment of Inertia for Deflection	n (lxx)			4.4998 in^4
Section Modulus (Sxx)				1.0192 in^3
Allowable Bending Moment (M	la)			1678.40 ft-lb
Allowable Distortional Buckling	g Moment (Mda) at Kφ = 0			1475.63 ft-lb
Gross Section Properties	of Full Section, Strong Axis			
Neutral Axis from Top Fiber (Y	′cg)			4.0000 in
Moment of Inertia (Ixxg)				4.6334 in^4
Section modules (Sxxg)				1.1584 in^3
Cross Sectional Area (Ag)				0.5371 in^2
Radius of Gyration (Rxg)				2.9372 in
Net Section Properties of	the Punched Section, Strong A	Axis		
Moment of Inertia (Ixx-net)				4.6208 in^4
Section Modules (Sxx-net)				1.1552 in^3
Cross Sectional Area (Anet)				0.4694 in^2
Section Properties, Weak	Axis			
Gross Neutral Axis (Xcg) From	n Web Face			0.3482 in
Gross Moment of Inertia (Iyy)				0.1599 in^4
Radius of Gyration (Ry)				0.5456 in
Other Section Properties				
Member Weight per Foot of Le	ength			1.8276 lb/ft
Allowable Shear Force In Web	(Unpunched)			1051.15 lb
Allowable Shear Force In Web	(Punched)			1051.15 lb
Torsional Properties				
Dist. from Shear Center to New	utral Axis (Xo)			-0.9262 in
St. Venant torsion Constant (J	x 1000)			0.3641 in^4
Warping Constant (Cw)				2.0758 in^6
Radii of Gyration (Ro)				3.1277 in^6
Torsional Flexural Constant (B	seta)			0.9123

Location (1) and (6) are tip of compression and tension lip respectively

Location (2) and (5) are flange/lip corner of compression and tension side respectively

- Properties based upon the AISI S100-16 North American Specification for the Design of CFS Structural Members incl. Supplement 1 (S100-16/S1-18)
- Effective properties include the strength increase from cold forming



Product Name :	800S162-54 (50 ksi)	Structural Stud (G60)		
PHYSICAL PROPERTIES	B:			
Web Height =	8.0000 in	Steel Thickness =	0.0566 in	
Top Flange =	1.6250 in	Inside Corner Radius =	0.0849 in	
Bottom Flange =	1.6250 in	Yield Stress, Fy =	50.0000 ksi	
Stiffening Lip =	0.5000 in	Fy With Cold-Work, Fya =	50.0000 ksi	
Punchout Width =	1.5000 in	Punchout Length =	4.0000 in	
Effective Section Proper	ties, Strong Axis			
Neutral Axis from Top Fiber (Ycg)			4.3087 in
Moment of Inertia for Deflection	on (Ixx)			5.5998 in^4
Section Modulus (Sxx)				1.2288 in^3
Allowable Bending Moment (N	Ma)			3065.91 ft-lb
Allowable Distortional Bucklin	g Moment (Mda) at Kφ = 0			2625.60 ft-lb
Gross Section Properties	s of Full Section, Strong Axis			
Neutral Axis from Top Fiber (Ycg)			4.0000 in
Moment of Inertia (Ixxg)				5.7357 in^4
Section modules (Sxxg)				1.4339 in^3
Cross Sectional Area (Ag)				0.6695 in^2
Radius of Gyration (Rxg)				2.9269 in
Net Section Properties o	f the Punched Section, Strong	Axis		
Moment of Inertia (Ixx-net)				5.7198 in^4
Section Modules (Sxx-net)				1.4299 in^3
Cross Sectional Area (Anet)				0.5846 in^2
Section Properties, Wea	k Axis			
Gross Neutral Axis (Xcg) From	n Web Face			0.3484 in
Gross Moment of Inertia (Iyy)				0.1944 in^4
Radius of Gyration (Ry)				0.5389 in
Other Section Properties	3			
Member Weight per Foot of L	ength			2.2783 lb/ft
Allowable Shear Force In We	b (Unpunched)			2091.28 lb
Allowable Shear Force In We	b (Punched)			2091.28 lb
Torsional Properties				
Dist. from Shear Center to Ne	eutral Axis (Xo)			-0.9142 in
St. Venant torsion Constant (J x 1000)			0.7150 in^4
Warping Constant (Cw)				2.5386 in^6
Radii of Gyration (Ro)				3.1133 in^6
Torsional Flexural Constant (I	Beta)			0.9138

Location (1) and (6) are tip of compression and tension lip respectively

Location (2) and (5) are flange/lip corner of compression and tension side respectively

[•] Properties based upon the AISI S100-16 - North American Specification for the Design of CFS Structural Members incl. Supplement 1 (S100-16/S1-18)

[•] Effective properties include the strength increase from cold forming



Product Name :	250S162-33 (33 ksi) \$	Structural Stud (G90)		
PHYSICAL PROPERTIES	:	• •		
Web Height =	2.5000 in	Steel Thickness =	0.0346 in	
Top Flange =	1.6250 in	Inside Corner Radius =	0.0765 in	
Bottom Flange =	1.6250 in	Yield Stress, Fy =	33.0000 ksi	
Stiffening Lip =	0.5000 in	Fy With Cold-Work, Fya =	33.0000 ksi	
Punchout Width =	0.7500 in	Punchout Length =	4.0000 in	
Effective Section Propert	ties, Strong Axis			
Neutral Axis from Top Fiber (Y	/cg)			1.2737 in
Moment of Inertia for Deflection	on (Ixx)			0.2352 in^4
Section Modulus (Sxx)				0.1798 in^3
Allowable Bending Moment (M	ſla)			296.12 ft-lb
Allowable Distortional Buckling	g Moment (Mda) at Kφ = 0			284.67 ft-lb
Gross Section Properties	of Full Section, Strong Axis			
Neutral Axis from Top Fiber (Y	(cg)			1.2500 in
Moment of Inertia (Ixxg)				0.2352 in^4
Section modules (Sxxg)				0.1882 in^3
Cross Sectional Area (Ag)				0.2232 in^2
Radius of Gyration (Rxg)				1.0266 in
Net Section Properties of	f the Punched Section, Strong A	Axis		
Moment of Inertia (Ixx-net)				0.2340 in^4
Section Modules (Sxx-net)				0.1872 in^3
Cross Sectional Area (Anet)				0.1972 in^2
Section Properties, Weak	(Axis			
Gross Neutral Axis (Xcg) From	n Web Face			0.6276 in
Gross Moment of Inertia (Iyy)				0.0870 in^4
Radius of Gyration (Ry)				0.6242 in
Other Section Properties				
Member Weight per Foot of Le	ength			0.7595 lb/ft
Allowable Shear Force In Web	o (Unpunched)			975.34 lb
Allowable Shear Force In Web	o (Punched)			398.80 lb
Torsional Properties				
Dist. from Shear Center to New	utral Axis (Xo)			-1.4695 in
St. Venant torsion Constant (J	J x 1000)			0.0891 in^4
Warping Constant (Cw)				0.1461 in^6
Radii of Gyration (Ro)				1.8982 in^6
Torsional Flexural Constant (B	Beta)			0.4006

Location (1) and (6) are tip of compression and tension lip respectively

Location (2) and (5) are flange/lip corner of compression and tension side respectively

[•] Properties based upon the AISI S100-16 - North American Specification for the Design of CFS Structural Members incl. Supplement 1 (S100-16/S1-18)

[•] Effective properties include the strength increase from cold forming



Product Name : PHYSICAL PROPERTIES	• • • • • • • • • • • • • • • • • • • •	Structural Stud (G90)		
Web Height =	2.5000 in	Steel Thickness =	0.0451 in	
Top Flange =	1.6250 in	Inside Corner Radius =	0.0712 in	
Bottom Flange =	1.6250 in	Yield Stress, Fy =	33.0000 ksi	
Stiffening Lip =	0.5000 in	Fy With Cold-Work, Fya =	33.0000 ksi	
Punchout Width =	0.7500 in	Punchout Length =	4.0000 in	
Effective Section Proper	ties, Strong Axis			
Neutral Axis from Top Fiber (Ycg)			1.2500 in
Moment of Inertia for Deflecti	on (lxx)			0.3020 in^4
Section Modulus (Sxx)				0.2416 in^3
Allowable Bending Moment (I	Ma)			397.84 ft-lb
Allowable Distortional Bucklin	ig Moment (Mda) at Kφ = 0			393.46 ft-lb
Gross Section Propertie	s of Full Section, Strong Axis			
Neutral Axis from Top Fiber (Ycg)			1.2500 in
Moment of Inertia (Ixxg)				0.3020 in^4
Section modules (Sxxg)				0.2416 in^3
Cross Sectional Area (Ag)				0.2890 in^2
Radius of Gyration (Rxg)				1.0222 in
Net Section Properties of	of the Punched Section, Strong	Axis		
Moment of Inertia (Ixx-net)				0.3004 in^4
Section Modules (Sxx-net)				0.2403 in^3
Cross Sectional Area (Anet)				0.2552 in^2
Section Properties, Wea	k Axis			
Gross Neutral Axis (Xcg) From	m Web Face			0.6276 in
Gross Moment of Inertia (Iyy)				0.1110 in^4
Radius of Gyration (Ry)				0.6197 in
Other Section Properties	3			
Member Weight per Foot of L	ength			0.9835 lb/ft
Allowable Shear Force In We	b (Unpunched)			1265.46 lb
Allowable Shear Force In We	b (Punched)			394.23 lb
Torsional Properties				
Dist. from Shear Center to Ne	eutral Axis (Xo)			-1.4573 in
St. Venant torsion Constant (J x 1000)			0.1960 in^4
Warping Constant (Cw)				0.1843 in^6
Radii of Gyration (Ro)				1.8848 in^6
Torsional Flexural Constant (Beta)			0.4022

Location (1) and (6) are tip of compression and tension lip respectively

Location (2) and (5) are flange/lip corner of compression and tension side respectively

[•] Properties based upon the AISI S100-16 - North American Specification for the Design of CFS Structural Members incl. Supplement 1 (S100-16/S1-18)

[•] Effective properties include the strength increase from cold forming



Product Name :	250S162-54 (50 ksi)	Structural Stud (G90)		
PHYSICAL PROPERTIES		,		
Web Height =	2.5000 in	Steel Thickness =	0.0566 in	
Top Flange =	1.6250 in	Inside Corner Radius =	0.0849 in	
Bottom Flange =	1.6250 in	Yield Stress, Fy =	50.0000 ksi	
Stiffening Lip =	0.5000 in	Fy With Cold-Work, Fya =	50.0000 ksi	
Punchout Width =	0.7500 in	Punchout Length =	4.0000 in	
Effective Section Proper	ties, Strong Axis			
Neutral Axis from Top Fiber (Ycg)			1.2666 in
Moment of Inertia for Deflection	on (Ixx)			0.3697 in^4
Section Modulus (Sxx)				0.2881 in^3
Allowable Bending Moment (M	Ma)			718.74 ft-lb
Allowable Distortional Bucklin	g Moment (Mda) at Kφ = 0			695.60 ft-lb
Gross Section Properties	s of Full Section, Strong Axis			
Neutral Axis from Top Fiber (Ycg)			1.2500 in
Moment of Inertia (Ixxg)				0.3697 in^4
Section modules (Sxxg)				0.2958 in^3
Cross Sectional Area (Ag)				0.3582 in^2
Radius of Gyration (Rxg)				1.0159 in
Net Section Properties o	f the Punched Section, Strong A	Axis		
Moment of Inertia (Ixx-net)				0.3677 in^4
Section Modules (Sxx-net)				0.2942 in^3
Cross Sectional Area (Anet)				0.3158 in^2
Section Properties, Wea	k Axis			
Gross Neutral Axis (Xcg) From	n Web Face			0.6266 in
Gross Moment of Inertia (Iyy)				0.1348 in^4
Radius of Gyration (Ry)				0.6134 in
Other Section Properties	S			
Member Weight per Foot of L	ength			1.2190 lb/ft
Allowable Shear Force In We	b (Unpunched)			2352.79 lb
Allowable Shear Force In We	b (Punched)			564.64 lb
Torsional Properties				
Dist. from Shear Center to Ne	eutral Axis (Xo)			-1.4429 in
St. Venant torsion Constant (J x 1000)			0.3825 in^4
Warping Constant (Cw)				0.2229 in^6
Radii of Gyration (Ro)				1.8683 in^6
Torsional Flexural Constant (I	Beta)			0.4035
Location (1) and (6) are tip of	compression and tonsion lin respective	roly.		

Location (1) and (6) are tip of compression and tension lip respectively

Location (2) and (5) are flange/lip corner of compression and tension side respectively

[•] Properties based upon the AISI S100-16 - North American Specification for the Design of CFS Structural Members incl. Supplement 1 (S100-16/S1-18)

[•] Effective properties include the strength increase from cold forming



Product Name : PHYSICAL PROPERTIES	` ,	Structural Stud (G90)		
Web Height =	3.6250 in	Steel Thickness =	0.0346 in	
Top Flange =	1.6250 in	Inside Corner Radius =	0.0765 in	
Bottom Flange =	1.6250 in	Yield Stress, Fy =	33.0000 ksi	
Stiffening Lip =	0.5000 in	Fy With Cold-Work, Fya =	33.0000 ksi	
Punchout Width =	1.5000 in	Punchout Length =	4.0000 in	
Effective Section Proper	ties, Strong Axis			
Neutral Axis from Top Fiber (Ycg)			1.9189 in
Moment of Inertia for Deflecti	on (lxx)			0.5512 in^4
Section Modulus (Sxx)				0.2677 in^3
Allowable Bending Moment (I	Ma)			440.87 ft-lb
Allowable Distortional Bucklin	ng Moment (Mda) at Kφ = 0			434.51 ft-lb
Gross Section Propertie	s of Full Section, Strong Axis			
Neutral Axis from Top Fiber (Ycg)			1.8125 in
Moment of Inertia (Ixxg)				0.5512 in^4
Section modules (Sxxg)				0.3041 in^3
Cross Sectional Area (Ag)				0.2621 in^2
Radius of Gyration (Rxg)				1.4501 in
Net Section Properties of	of the Punched Section, Strong	Axis		
Moment of Inertia (Ixx-net)				0.5414 in^4
Section Modules (Sxx-net)				0.2987 in^3
Cross Sectional Area (Anet)				0.2102 in^2
Section Properties, Wea	k Axis			
Gross Neutral Axis (Xcg) From	m Web Face			0.5370 in
Gross Moment of Inertia (Iyy))			0.0993 in^4
Radius of Gyration (Ry)				0.6155 in
Other Section Properties	8			
Member Weight per Foot of L	ength			0.8919 lb/ft
Allowable Shear Force In We	eb (Unpunched)			1023.58 lb
Allowable Shear Force In We	eb (Punched)			521.24 lb
Torsional Properties				
Dist. from Shear Center to Ne	eutral Axis (Xo)			-1.3084 in
St. Venant torsion Constant (J x 1000)			0.1046 in^4
Warping Constant (Cw)				0.2969 in^6
Radii of Gyration (Ro)				2.0478 in^6
Torsional Flexural Constant (Beta)			0.5918

Location (1) and (6) are tip of compression and tension lip respectively

Location (2) and (5) are flange/lip corner of compression and tension side respectively

[•] Properties based upon the AISI S100-16 - North American Specification for the Design of CFS Structural Members incl. Supplement 1 (S100-16/S1-18)

[•] Effective properties include the strength increase from cold forming



Product Name :	362S162-43 (33 ks	i) Structural S	Stud (G90)		
PHYSICAL PROPERTIES :		,	()		
Web Height =	3.6250 in	S	teel Thickness =	0.0451 in	
Top Flange =	1.6250 in	Ir	nside Corner Radius =	0.0712 in	
Bottom Flange =	1.6250 in	Y	ield Stress, Fy =	33.0000 ksi	
Stiffening Lip =	0.5000 in	F	y With Cold-Work, Fya =	33.0000 ksi	
Punchout Width =	1.5000 in	Р	unchout Length =	4.0000 in	
Effective Section Properties,	Strong Axis				
Neutral Axis from Top Fiber (Ycg)					1.8509 in
Moment of Inertia for Deflection (Ix	x)				0.7098 in^4
Section Modulus (Sxx)					0.3716 in^3
Allowable Bending Moment (Ma)					611.99 ft-lb
Allowable Distortional Buckling Mon	ment (Mda) at Kφ = 0				609.61 ft-lb
Gross Section Properties of I	Full Section, Strong Axis	S			
Neutral Axis from Top Fiber (Ycg)					1.8125 in
Moment of Inertia (Ixxg)					0.7098 in^4
Section modules (Sxxg)					0.3916 in^3
Cross Sectional Area (Ag)					0.3398 in^2
Radius of Gyration (Rxg)					1.4453 in
Net Section Properties of the	Punched Section, Stror	ng Axis			_
Moment of Inertia (Ixx-net)					0.6971 in^4
Section Modules (Sxx-net)					0.3846 in^3
Cross Sectional Area (Anet)					0.2721 in^2
Section Properties, Weak Axi	S				_
Gross Neutral Axis (Xcg) From We	b Face				0.5373 in
Gross Moment of Inertia (lyy)					0.1268 in^4
Radius of Gyration (Ry)					0.6109 in
Other Section Properties					
Member Weight per Foot of Length					1.1562 lb/ft
Allowable Shear Force In Web (Un	punched)				1739.09 lb
Allowable Shear Force In Web (Pu	nched)				675.67 lb
Torsional Properties					
Dist. from Shear Center to Neutral	Axis (Xo)				-1.2966 in
St. Venant torsion Constant (J x 10	00)				0.2304 in^4
Warping Constant (Cw)					0.3759 in^6
Radii of Gyration (Ro)					2.0355 in^6
Torsional Flexural Constant (Beta)					0.5942

Location (1) and (6) are tip of compression and tension lip respectively

Location (2) and (5) are flange/lip corner of compression and tension side respectively

- Properties based upon the AISI S100-16 North American Specification for the Design of CFS Structural Members incl. Supplement 1 (S100-16/S1-18)
- Effective properties include the strength increase from cold forming



Product Name :	362S162-54 (50 ksi) \$	Structural Stud (G90)		
PHYSICAL PROPERTIES	• •	,		
Web Height =	3.6250 in	Steel Thickness =	0.0566 in	
Top Flange =	1.6250 in	Inside Corner Radius =	0.0849 in	
Bottom Flange =	1.6250 in	Yield Stress, Fy =	50.0000 ksi	
Stiffening Lip =	0.5000 in	Fy With Cold-Work, Fya =	50.0000 ksi	
Punchout Width =	1.5000 in	Punchout Length =	4.0000 in	
Effective Section Proper	ties, Strong Axis			
Neutral Axis from Top Fiber ((cg)			1.8772 in
Moment of Inertia for Deflection	on (lxx)			0.8727 in^4
Section Modulus (Sxx)				0.4435 in^3
Allowable Bending Moment (M	Ma)			1106.66 ft-lb
Allowable Distortional Buckling	g Moment (Mda) at Kφ = 0			1077.75 ft-lb
Gross Section Properties	s of Full Section, Strong Axis			
Neutral Axis from Top Fiber (rcg)			1.8125 in
Moment of Inertia (Ixxg)				0.8727 in^4
Section modules (Sxxg)				0.4815 in^3
Cross Sectional Area (Ag)				0.4219 in^2
Radius of Gyration (Rxg)				1.4382 in
Net Section Properties of	f the Punched Section, Strong A	Axis		
Moment of Inertia (Ixx-net)				0.8568 in^4
Section Modules (Sxx-net)				0.4727 in^3
Cross Sectional Area (Anet)				0.3370 in^2
Section Properties, Weal	k Axis			
Gross Neutral Axis (Xcg) Fron	n Web Face			0.5363 in
Gross Moment of Inertia (Iyy)				0.1541 in^4
Radius of Gyration (Ry)				0.6044 in
Other Section Properties	i			
Member Weight per Foot of Le	ength			1.4357 lb/ft
Allowable Shear Force In Wel	b (Unpunched)			3371.56 lb
Allowable Shear Force In Wel	b (Punched)			1015.97 lb
Torsional Properties				
Dist. from Shear Center to Ne	eutral Axis (Xo)			-1.2825 in
St. Venant torsion Constant (J x 1000)			0.4505 in^4
Warping Constant (Cw)				0.4569 in^6
Radii of Gyration (Ro)				2.0196 in^6
Torsional Flexural Constant (E	Beta)			0.5967
Location (1) and (6) are tip of	compression and tonsion lin respective	oly		

Location (1) and (6) are tip of compression and tension lip respectively

Location (2) and (5) are flange/lip corner of compression and tension side respectively

[•] Properties based upon the AISI S100-16 - North American Specification for the Design of CFS Structural Members incl. Supplement 1 (S100-16/S1-18)

[•] Effective properties include the strength increase from cold forming



Product Name :	400S162-33 (33 ks	i) Structural Stud (G90)	
PHYSICAL PROPERTIES:	`	, , ,	
Web Height =	4.0000 in	Steel Thickness = 0.	0346 in
Top Flange =	1.6250 in	Inside Corner Radius = 0.	0765 in
Bottom Flange =	1.6250 in	Yield Stress, Fy = 33	3.0000 ksi
Stiffening Lip =	0.5000 in	Fy With Cold-Work, Fya = 33	3.0000 ksi
Punchout Width =	1.5000 in	Punchout Length = 4.	0000 in
Effective Section Propertie	s, Strong Axis		
Neutral Axis from Top Fiber (Yco	g)		2.1436 in
Moment of Inertia for Deflection	(lxx)		0.6921 in^4
Section Modulus (Sxx)			0.2989 in^3
Allowable Bending Moment (Ma))		492.21 ft-lb
Allowable Distortional Buckling N	Moment (Mda) at Kφ = 0		485.78 ft-lb
Gross Section Properties o	of Full Section, Strong Axis		
Neutral Axis from Top Fiber (Yco	a)		2.0000 in
Moment of Inertia (Ixxg)			0.6921 in^4
Section modules (Sxxg)			0.3461 in^3
Cross Sectional Area (Ag)			0.2751 in^2
Radius of Gyration (Rxg)			1.5862 in
Net Section Properties of t	he Punched Section, Strong	g Axis	
Moment of Inertia (Ixx-net)			0.6824 in^4
Section Modules (Sxx-net)			0.3412 in^3
Cross Sectional Area (Anet)			0.2232 in^2
Section Properties, Weak A	Axis		
Gross Neutral Axis (Xcg) From V	Veb Face		0.5124 in
Gross Moment of Inertia (Iyy)			0.1026 in^4
Radius of Gyration (Ry)			0.6108 in
Other Section Properties			
Member Weight per Foot of Len	gth		0.9361 lb/ft
Allowable Shear Force In Web (Unpunched)		975.86 lb
Allowable Shear Force In Web (Punched)		594.87 lb
Torsional Properties			
Dist. from Shear Center to Neutr	ral Axis (Xo)		-1.2633 in
St. Venant torsion Constant (J x	1000)		0.1098 in^4
Warping Constant (Cw)			0.3628 in^6
Radii of Gyration (Ro)			2.1178 in^6
Torsional Flexural Constant (Bet	a)		0.6442

Location (1) and (6) are tip of compression and tension lip respectively

Location (2) and (5) are flange/lip corner of compression and tension side respectively

[•] Properties based upon the AISI S100-16 - North American Specification for the Design of CFS Structural Members incl. Supplement 1 (S100-16/S1-18)

[•] Effective properties include the strength increase from cold forming



Product Name :	400S162-43 (33 ksi)	Structural Stud (G90)		
PHYSICAL PROPERTIES	:			
Web Height =	4.0000 in	Steel Thickness =	0.0451 in	
Top Flange =	1.6250 in	Inside Corner Radius =	0.0712 in	
Bottom Flange =	1.6250 in	Yield Stress, Fy =	33.0000 ksi	
Stiffening Lip =	0.5000 in	Fy With Cold-Work, Fya =	33.0000 ksi	
Punchout Width =	1.5000 in	Punchout Length =	4.0000 in	
Effective Section Propert	ties, Strong Axis			
Neutral Axis from Top Fiber (Y	/cg)			2.0660 in
Moment of Inertia for Deflection	on (Ixx)			0.8919 in^4
Section Modulus (Sxx)				0.4166 in^3
Allowable Bending Moment (M	Ла)			686.00 ft-lb
Allowable Distortional Buckling	g Moment (Mda) at Kφ = 0			683.84 ft-lb
Gross Section Properties	of Full Section, Strong Axis			
Neutral Axis from Top Fiber (Y	(cg)			2.0000 in
Moment of Inertia (Ixxg)				0.8919 in^4
Section modules (Sxxg)				0.4460 in^3
Cross Sectional Area (Ag)				0.3567 in^2
Radius of Gyration (Rxg)				1.5813 in
Net Section Properties of	f the Punched Section, Strong A	Axis		
Moment of Inertia (Ixx-net)				0.8792 in^4
Section Modules (Sxx-net)				0.4396 in^3
Cross Sectional Area (Anet)				0.2890 in^2
Section Properties, Weak	< Axis			
Gross Neutral Axis (Xcg) From	n Web Face			0.5128 in
Gross Moment of Inertia (lyy)				0.1311 in^4
Radius of Gyration (Ry)				0.6062 in
Other Section Properties				
Member Weight per Foot of Le	ength			1.2137 lb/ft
Allowable Shear Force In Web	o (Unpunched)			1739.09 lb
Allowable Shear Force In Web	o (Punched)			809.56 lb
Torsional Properties				
Dist. from Shear Center to Ne	utral Axis (Xo)			-1.2517 in
St. Venant torsion Constant (J	J x 1000)			0.2418 in^4
Warping Constant (Cw)				0.4598 in^6
Radii of Gyration (Ro)				2.1059 in^6
Torsional Flexural Constant (E	Beta)			0.6467

Location (1) and (6) are tip of compression and tension lip respectively

Location (2) and (5) are flange/lip corner of compression and tension side respectively

- Properties based upon the AISI S100-16 North American Specification for the Design of CFS Structural Members incl. Supplement 1 (S100-16/S1-18)
- Effective properties include the strength increase from cold forming



Product Name :	400S162-54 (50 ks	i) Structural Stud (G90)	
PHYSICAL PROPERTIES :		., (,	
Web Height =	4.0000 in	Steel Thickness = (0.0566 in
Top Flange =	1.6250 in	Inside Corner Radius = (0.0849 in
Bottom Flange =	1.6250 in	Yield Stress, Fy =	50.0000 ksi
Stiffening Lip =	0.5000 in	Fy With Cold-Work, Fya = 5	50.0000 ksi
Punchout Width =	1.5000 in	Punchout Length =	4.0000 in
Effective Section Properties,	Strong Axis		
Neutral Axis from Top Fiber (Ycg)			2.0948 in
Moment of Inertia for Deflection (Ix	(X)		1.0977 in^4
Section Modulus (Sxx)			0.4975 in^3
Allowable Bending Moment (Ma)			1241.34 ft-lb
Allowable Distortional Buckling Mo	oment (Mda) at Kφ = 0		1209.78 ft-lb
Gross Section Properties of	Full Section, Strong Axis	;	
Neutral Axis from Top Fiber (Ycg)			2.0000 in
Moment of Inertia (Ixxg)			1.0977 in^4
Section modules (Sxxg)			0.5489 in^3
Cross Sectional Area (Ag)			0.4431 in^2
Radius of Gyration (Rxg)			1.5739 in
Net Section Properties of the	Punched Section, Stroi	g Axis	
Moment of Inertia (Ixx-net)			1.0818 in^4
Section Modules (Sxx-net)			0.5409 in^3
Cross Sectional Area (Anet)			0.3582 in^2
Section Properties, Weak Ax	is		
Gross Neutral Axis (Xcg) From We	eb Face		0.5120 in
Gross Moment of Inertia (lyy)			0.1594 in^4
Radius of Gyration (Ry)			0.5997 in
Other Section Properties			
Member Weight per Foot of Lengtl	h		1.5079 lb/ft
Allowable Shear Force In Web (Ur	npunched)		3371.56 lb
Allowable Shear Force In Web (Pu	ınched)		1222.80 lb
Torsional Properties			
Dist. from Shear Center to Neutral	Axis (Xo)		-1.2378 in
St. Venant torsion Constant (J x 10	000)		0.4732 in^4
Warping Constant (Cw)			0.5595 in^6
Radii of Gyration (Ro)			2.0902 in^6
Torsional Flexural Constant (Beta)	<u> </u>		0.6493

Location (1) and (6) are tip of compression and tension lip respectively

Location (2) and (5) are flange/lip corner of compression and tension side respectively

[•] Properties based upon the AISI S100-16 - North American Specification for the Design of CFS Structural Members incl. Supplement 1 (S100-16/S1-18)

[•] Effective properties include the strength increase from cold forming



Product Name : PHYSICAL PROPERTIES	•) Structural Stud (G90)		
Web Height =	6.0000 in	Steel Thickness =	0.0346 in	
Top Flange =	1.6250 in	Inside Corner Radius =	0.0765 in	
Bottom Flange =	1.6250 in	Yield Stress, Fy =	33.0000 ksi	
Stiffening Lip =	0.5000 in	Fy With Cold-Work, Fya =	33.0000 ksi	
Punchout Width =	1.5000 in	Punchout Length =	4.0000 in	
Effective Section Proper	rties, Strong Axis			
Neutral Axis from Top Fiber (Ycg)			3.0387 in
Moment of Inertia for Deflecti	on (lxx)			1.7928 in^4
Section Modulus (Sxx)				0.5773 in^3
Allowable Bending Moment (Ma)			950.63 ft-lb
Allowable Distortional Bucklin	ng Moment (Mda) at Kφ = 0			760.95 ft-lb
Gross Section Propertie	s of Full Section, Strong Axis			
Neutral Axis from Top Fiber (Ycg)			3.0000 in
Moment of Inertia (Ixxg)				1.7928 in^4
Section modules (Sxxg)				0.5976 in^3
Cross Sectional Area (Ag)				0.3443 in^2
Radius of Gyration (Rxg)				2.2819 in
Net Section Properties of	of the Punched Section, Strong	g Axis		
Moment of Inertia (Ixx-net)				1.7831 in^4
Section Modules (Sxx-net)				0.5944 in^3
Cross Sectional Area (Anet)				0.2924 in^2
Section Properties, Wea	k Axis			
Gross Neutral Axis (Xcg) Fro	m Web Face			0.4129 in
Gross Moment of Inertia (Iyy))			0.1162 in^4
Radius of Gyration (Ry)				0.5809 in
Other Section Properties	5			
Member Weight per Foot of L	₋ength			1.1716 lb/ft
Allowable Shear Force In We	eb (Unpunched)			638.07 lb
Allowable Shear Force In We	eb (Punched)			638.07 lb
Torsional Properties				
Dist. from Shear Center to No	eutral Axis (Xo)			-1.0723 in
St. Venant torsion Constant (J x 1000)			0.1374 in^4
Warping Constant (Cw)				0.8615 in^6
Radii of Gyration (Ro)				2.5874 in^6
Torsional Flexural Constant (Beta)			0.8282

Location (1) and (6) are tip of compression and tension lip respectively

Location (2) and (5) are flange/lip corner of compression and tension side respectively

[•] Properties based upon the AISI S100-16 - North American Specification for the Design of CFS Structural Members incl. Supplement 1 (S100-16/S1-18)

[•] Effective properties include the strength increase from cold forming



Product Name :	600S162-43 (33 kg	si) Structural Stud (G90)		
PHYSICAL PROPERTIES :		.,		
Web Height =	6.0000 in	Steel Thickness =	0.0451 in	
Top Flange =	1.6250 in	Inside Corner Radius =	0.0712 in	
Bottom Flange =	1.6250 in	Yield Stress, Fy =	33.0000 ksi	
Stiffening Lip =	0.5000 in	Fy With Cold-Work, Fya =	33.0000 ksi	
Punchout Width =	1.5000 in	Punchout Length =	4.0000 in	
Effective Section Properties,	Strong Axis			
Neutral Axis from Top Fiber (Ycg)				3.0000 in
Moment of Inertia for Deflection (Ix	(X)			2.3158 in^4
Section Modulus (Sxx)				0.7719 in^3
Allowable Bending Moment (Ma)				1271.14 ft-lb
Allowable Distortional Buckling Mo	ment (Mda) at Kφ = 0			1087.91 ft-lb
Gross Section Properties of	Full Section, Strong Axi	8		
Neutral Axis from Top Fiber (Ycg)				3.0000 in
Moment of Inertia (Ixxg)				2.3158 in^4
Section modules (Sxxg)				0.7719 in^3
Cross Sectional Area (Ag)				0.4469 in^2
Radius of Gyration (Rxg)				2.2764 in
Net Section Properties of the	Punched Section, Stro	ng Axis		
Moment of Inertia (Ixx-net)				2.3031 in^4
Section Modules (Sxx-net)				0.7677 in^3
Cross Sectional Area (Anet)				0.3792 in^2
Section Properties, Weak Ax	is			
Gross Neutral Axis (Xcg) From We	eb Face			0.4139 in
Gross Moment of Inertia (Iyy)				0.1484 in^4
Radius of Gyration (Ry)				0.5762 in
Other Section Properties				
Member Weight per Foot of Length	า			1.5206 lb/ft
Allowable Shear Force In Web (Un	ipunched)			1415.67 lb
Allowable Shear Force In Web (Pu	inched)			1240.29 lb
Torsional Properties				
Dist. from Shear Center to Neutral	Axis (Xo)			-1.0617 in
St. Venant torsion Constant (J x 10	000)			0.3030 in^4
Warping Constant (Cw)				1.0952 in^6
Radii of Gyration (Ro)				2.5771 in^6
Torsional Flexural Constant (Beta)				0.8303

Location (1) and (6) are tip of compression and tension lip respectively

Location (2) and (5) are flange/lip corner of compression and tension side respectively

- Properties based upon the AISI S100-16 North American Specification for the Design of CFS Structural Members incl. Supplement 1 (S100-16/S1-18)
- Effective properties include the strength increase from cold forming



Product Name : PHYSICAL PROPERTIES	,	Structural Stud (G90)		
Web Height =	6.0000 in	Steel Thickness =	0.0566 in	
Top Flange =	1.6250 in	Inside Corner Radius =	0.0849 in	
Bottom Flange =	1.6250 in	Yield Stress, Fy =	50.0000 ksi	
Stiffening Lip =	0.5000 in	Fy With Cold-Work, Fya =	50.0000 ksi	
Punchout Width =	1.5000 in	Punchout Length =	4.0000 in	
Effective Section Proper	rties, Strong Axis			
Neutral Axis from Top Fiber (Ycg)			3.0335 in
Moment of Inertia for Deflecti	on (lxx)			2.8604 in^4
Section Modulus (Sxx)				0.9272 in^3
Allowable Bending Moment (I	Ma)			2313.36 ft-lb
Allowable Distortional Bucklin	ng Moment (Mda) at Kφ = 0			1930.24 ft-lb
Gross Section Propertie	s of Full Section, Strong Axis			
Neutral Axis from Top Fiber (Ycg)			3.0000 in
Moment of Inertia (Ixxg)				2.8604 in^4
Section modules (Sxxg)				0.9535 in^3
Cross Sectional Area (Ag)				0.5563 in^2
Radius of Gyration (Rxg)				2.2675 in
Net Section Properties of	of the Punched Section, Strong	Axis		
Moment of Inertia (Ixx-net)				2.8445 in^4
Section Modules (Sxx-net)				0.9482 in^3
Cross Sectional Area (Anet)				0.4714 in^2
Section Properties, Wea	k Axis			
Gross Neutral Axis (Xcg) From	m Web Face			0.4136 in
Gross Moment of Inertia (Iyy))			0.1805 in^4
Radius of Gyration (Ry)				0.5695 in
Other Section Properties	8			
Member Weight per Foot of L	ength			1.8931 lb/ft
Allowable Shear Force In We	eb (Unpunched)			2822.88 lb
Allowable Shear Force In We	eb (Punched)			1947.40 lb
Torsional Properties				
Dist. from Shear Center to Ne	eutral Axis (Xo)			-1.0487 in
St. Venant torsion Constant (J x 1000)			0.5941 in^4
Warping Constant (Cw)				1.3372 in^6
Radii of Gyration (Ro)				2.5623 in^6
Torsional Flexural Constant (Beta)			0.8325

Location (1) and (6) are tip of compression and tension lip respectively

Location (2) and (5) are flange/lip corner of compression and tension side respectively

[•] Properties based upon the AISI S100-16 - North American Specification for the Design of CFS Structural Members incl. Supplement 1 (S100-16/S1-18)

[•] Effective properties include the strength increase from cold forming



Product Name :	800S162-33 (33 ksi) Structural Stud (G90)		
PHYSICAL PROPERTIES	:			
Web Height =	8.0000 in	Steel Thickness =	0.0346 in	
Top Flange =	1.6250 in	Inside Corner Radius =	0.0765 in	
Bottom Flange =	1.6250 in	Yield Stress, Fy =	33.0000 ksi	
Stiffening Lip =	0.5000 in	Fy With Cold-Work, Fya =	33.0000 ksi	
Punchout Width =	1.5000 in	Punchout Length =	4.0000 in	
Effective Section Propert	ies, Strong Axis			
Neutral Axis from Top Fiber (Y	rcg)			4.4637 in
Moment of Inertia for Deflectio	n (lxx)			3.3844 in^4
Section Modulus (Sxx)				0.7098 in^3
Allowable Bending Moment (M	la)			1168.89 ft-lb
Allowable Distortional Buckling	g Moment (Mda) at Kφ = 0			1017.71 ft-lb
Gross Section Properties	of Full Section, Strong Axis			
Neutral Axis from Top Fiber (Y	'cg)			4.0000 in
Moment of Inertia (Ixxg)				3.5821 in^4
Section modules (Sxxg)				0.8955 in^3
Cross Sectional Area (Ag)				0.4135 in^2
Radius of Gyration (Rxg)				2.9433 in
Net Section Properties of	the Punched Section, Strong	Axis		
Moment of Inertia (Ixx-net)				3.5723 in^4
Section Modules (Sxx-net)				0.8931 in^3
Cross Sectional Area (Anet)				0.3616 in^2
Section Properties, Weak	Axis			
Gross Neutral Axis (Xcg) From	n Web Face			0.3467 in
Gross Moment of Inertia (Iyy)				0.1252 in^4
Radius of Gyration (Ry)				0.5503 in
Other Section Properties				
Member Weight per Foot of Le	ength			1.4070 lb/ft
Allowable Shear Force In Web	(Unpunched)			474.00 lb
Allowable Shear Force In Web	(Punched)			474.00 lb
Torsional Properties				
Dist. from Shear Center to Neu	utral Axis (Xo)			-0.9360 in
St. Venant torsion Constant (J	x 1000)			0.1650 in^4
Warping Constant (Cw)				1.6304 in^6
Radii of Gyration (Ro)				3.1372 in^6
Torsional Flexural Constant (B	seta)			0.9110

Location (1) and (6) are tip of compression and tension lip respectively

Location (2) and (5) are flange/lip corner of compression and tension side respectively

- Properties based upon the AISI S100-16 North American Specification for the Design of CFS Structural Members incl. Supplement 1 (S100-16/S1-18)
- Effective properties include the strength increase from cold forming



Product Name :	800S162-43 (33 ksi)	Structural Stud (G90)		
PHYSICAL PROPERTIES	3 :			
Web Height =	8.0000 in	Steel Thickness =	0.0451 in	
Top Flange =	1.6250 in	Inside Corner Radius =	0.0712 in	
Bottom Flange =	1.6250 in	Yield Stress, Fy =	33.0000 ksi	
Stiffening Lip =	0.5000 in	Fy With Cold-Work, Fya =	33.0000 ksi	
Punchout Width =	1.5000 in	Punchout Length =	4.0000 in	
Effective Section Proper	ties, Strong Axis			
Neutral Axis from Top Fiber (Ycg)			4.2699 in
Moment of Inertia for Deflection	on (lxx)			4.4998 in^4
Section Modulus (Sxx)				1.0192 in^3
Allowable Bending Moment (N	Ma)			1678.40 ft-lb
Allowable Distortional Bucklin	ng Moment (Mda) at Kφ = 0			1475.63 ft-lb
Gross Section Properties	s of Full Section, Strong Axis			
Neutral Axis from Top Fiber (Ycg)			4.0000 in
Moment of Inertia (Ixxg)				4.6334 in^4
Section modules (Sxxg)				1.1584 in^3
Cross Sectional Area (Ag)				0.5371 in^2
Radius of Gyration (Rxg)				2.9372 in
Net Section Properties o	f the Punched Section, Strong A	Axis		
Moment of Inertia (Ixx-net)				4.6208 in^4
Section Modules (Sxx-net)				1.1552 in^3
Cross Sectional Area (Anet)				0.4694 in^2
Section Properties, Wea	k Axis			
Gross Neutral Axis (Xcg) From	m Web Face			0.3482 in
Gross Moment of Inertia (Iyy)				0.1599 in^4
Radius of Gyration (Ry)				0.5456 in
Other Section Properties	5			
Member Weight per Foot of L	ength			1.8276 lb/ft
Allowable Shear Force In We	b (Unpunched)			1051.15 lb
Allowable Shear Force In We	b (Punched)			1051.15 lb
Torsional Properties				
Dist. from Shear Center to Ne	eutral Axis (Xo)			-0.9262 in
St. Venant torsion Constant (J x 1000)			0.3641 in^4
Warping Constant (Cw)				2.0758 in^6
Radii of Gyration (Ro)				3.1277 in^6
Torsional Flexural Constant (I	Beta)			0.9123

Location (1) and (6) are tip of compression and tension lip respectively

Location (2) and (5) are flange/lip corner of compression and tension side respectively

- Properties based upon the AISI S100-16 North American Specification for the Design of CFS Structural Members incl. Supplement 1 (S100-16/S1-18)
- Effective properties include the strength increase from cold forming



Product Name :	800S162-54 (50 ks	i) Structural	Stud (G90)		
PHYSICAL PROPERTIES :	(00.00	.,	())		
Web Height =	8.0000 in	;	Steel Thickness =	0.0566 in	
Top Flange =	1.6250 in	I	nside Corner Radius =	0.0849 in	
Bottom Flange =	1.6250 in	•	Yield Stress, Fy =	50.0000 ksi	
Stiffening Lip =	0.5000 in	F	y With Cold-Work, Fya =	50.0000 ksi	
Punchout Width =	1.5000 in	ı	Punchout Length =	4.0000 in	
Effective Section Properties,	Strong Axis				
Neutral Axis from Top Fiber (Ycg)					4.3087 in
Moment of Inertia for Deflection (Ixx	()				5.5998 in^4
Section Modulus (Sxx)					1.2288 in^3
Allowable Bending Moment (Ma)					3065.91 ft-lb
Allowable Distortional Buckling Mor	ment (Mda) at Kφ = 0				2625.60 ft-lb
Gross Section Properties of F	Full Section, Strong Axis	3			
Neutral Axis from Top Fiber (Ycg)					4.0000 in
Moment of Inertia (Ixxg)					5.7357 in^4
Section modules (Sxxg)					1.4339 in^3
Cross Sectional Area (Ag)					0.6695 in^2
Radius of Gyration (Rxg)					2.9269 in
Net Section Properties of the	Punched Section, Stron	ıg Axis			
Moment of Inertia (Ixx-net)					5.7198 in^4
Section Modules (Sxx-net)					1.4299 in^3
Cross Sectional Area (Anet)					0.5846 in^2
Section Properties, Weak Axi	s				
Gross Neutral Axis (Xcg) From Wel	b Face				0.3484 in
Gross Moment of Inertia (Iyy)					0.1944 in^4
Radius of Gyration (Ry)					0.5389 in
Other Section Properties					
Member Weight per Foot of Length					2.2783 lb/ft
Allowable Shear Force In Web (Unp	ounched)				2091.28 lb
Allowable Shear Force In Web (Pur	nched)				2091.28 lb
Torsional Properties					
Dist. from Shear Center to Neutral	Axis (Xo)				-0.9142 in
St. Venant torsion Constant (J x 10	00)				0.7150 in^4
Warping Constant (Cw)					2.5386 in^6
Radii of Gyration (Ro)					3.1133 in^6
Torsional Flexural Constant (Beta)					0.9138

Location (1) and (6) are tip of compression and tension lip respectively

Location (2) and (5) are flange/lip corner of compression and tension side respectively

[•] Properties based upon the AISI S100-16 - North American Specification for the Design of CFS Structural Members incl. Supplement 1 (S100-16/S1-18)

[•] Effective properties include the strength increase from cold forming



Product Name : PHYSICAL PROPERTIES :	250T100-33 (33 ksi)	Track (G60)		
Web Height =	2.6457 in	Steel Thickness =	0.0346 in	
Top Flange =	1.0000 in	Inside Corner Radius =	0.0765 in	
Bottom Flange =	1.0000 in	Yield Stress, Fy =	33.0000 ksi	
Fy With Cold-Work, Fya =	33.0000 ksi			
Effective Section Properties	s, Strong Axis			
Neutral Axis from Top Fiber (Ycg)			1.4320 in
Moment of Inertia for Deflection (lxx)			0.1498 in^4
Section Modulus (Sxx)				0.0979 in^3
Allowable Bending Moment (Ma)				161.21 ft-lb
Gross Section Properties of	f Full Section, Strong Axis			
Neutral Axis from Top Fiber (Ycg)			1.3228 in
Moment of Inertia (Ixxg)				0.1624 in^4
Section modules (Sxxg)				0.1227 in^3
Cross Sectional Area (Ag)				0.1556 in^2
Radius of Gyration (Rxg)				1.0216 in
Section Properties, Weak A	xis			
Gross Neutral Axis (Xcg) From W	/eb Face			0.2324 in
Gross Moment of Inertia (lyy)				0.0147 in^4
Radius of Gyration (Ry)				0.3073 in
Other Section Property Data	a			
Member Weight per Foot of Leng	th			0.5293 lb/ft
Allowable Shear Force In Web (U	Jnpunched)			1023.58 lb
Torsional Properties				
Dist. from Shear Center to Neutra	al Axis (Xo)			-0.5556 in
St. Venant torsion Constant (J x	1000)			0.0621 in^4
Warping Constant (Cw)				0.0179 in^6
Radii of Gyration (Ro)				1.2029 in^6
Torsional Flexural Constant (Beta	a)			0.7866

Location (1) and (6) are tip of compression and tension lip respectively

Location (2) and (5) are flange/lip corner of compression and tension side respectively

[•] Properties based upon the AISI S100-16 - North American Specification for the Design of CFS Structural Members incl. Supplement 1 (S100-16/S1-18)

[•] Effective properties include the strength increase from cold forming



Product Name :	250T100-43 (33 ksi)	Track (G60)	
PHYSICAL PROPERTIES:			
Web Height =	2.6614 in	Steel Thickness =	0.0451 in
Top Flange =	1.0000 in	Inside Corner Radius =	0.0712 in
Bottom Flange =	1.0000 in	Yield Stress, Fy =	33.0000 ksi
Fy With Cold-Work, Fya =	33.0000 ksi		
Effective Section Propertie	es, Strong Axis		
Neutral Axis from Top Fiber (Yo	eg)		1.3978 in
Moment of Inertia for Deflection	(lxx)		0.2065 in^4
Section Modulus (Sxx)			0.1388 in^3
Allowable Bending Moment (Ma	a)		228.60 ft-lb
Gross Section Properties	of Full Section, Strong Axis		
Neutral Axis from Top Fiber (Yo	:g)		1.3307 in
Moment of Inertia (Ixxg)			0.2118 in [^]
Section modules (Sxxg)			0.1592 in^3
Cross Sectional Area (Ag)			0.2025 in^2
Radius of Gyration (Rxg)			1.0227 in
Section Properties, Weak	Axis		
Gross Neutral Axis (Xcg) From	Web Face		0.2356 in
Gross Moment of Inertia (Iyy)			0.0189 in [^]
Radius of Gyration (Ry)			0.3053 in
Other Section Property Da	ta		
Member Weight per Foot of Ler	ngth		0.6892 lb/f
Allowable Shear Force In Web ((Unpunched)		1355.54 lb
Torsional Properties			
Dist. from Shear Center to Neut	tral Axis (Xo)		-0.5510 in
St. Venant torsion Constant (J x	k 1000)		0.1373 in^4
Warping Constant (Cw)			0.0231 in^6
Radii of Gyration (Ro)			1.2011 in^6
Torsional Flexural Constant (Be	eta)		0.7896

Location (1) and (6) are tip of compression and tension lip respectively

Location (2) and (5) are flange/lip corner of compression and tension side respectively

[•] Properties based upon the AISI S100-16 - North American Specification for the Design of CFS Structural Members incl. Supplement 1 (S100-16/S1-18)

 $[\]bullet$ Effective properties include the strength increase from cold forming



Product Name :	250T100-54 (50 ksi)	Track (G60)	
PHYSICAL PROPERTIES:			
Web Height =	2.6981 in	Steel Thickness =	0.0566 in
Top Flange =	1.0000 in	Inside Corner Radius =	0.0849 in
Bottom Flange =	1.0000 in	Yield Stress, Fy =	50.0000 ksi
Fy With Cold-Work, Fya =	50.0000 ksi		
Effective Section Propertie	es, Strong Axis		
Neutral Axis from Top Fiber (Yo	eg)		1.4074 in
Moment of Inertia for Deflection	(lxx)		0.2646 in^4
Section Modulus (Sxx)			0.1772 in^3
Allowable Bending Moment (Ma	a)		442.09 ft-lb
Gross Section Properties	of Full Section, Strong Axis		
Neutral Axis from Top Fiber (Yo	:g)		1.3491 in
Moment of Inertia (Ixxg)			0.2689 in^4
Section modules (Sxxg)			0.1993 in^3
Cross Sectional Area (Ag)			0.2540 in^2
Radius of Gyration (Rxg)			1.0290 in
Section Properties, Weak	Axis		
Gross Neutral Axis (Xcg) From	Web Face		0.2391 in
Gross Moment of Inertia (lyy)			0.0233 in^4
Radius of Gyration (Ry)			0.3029 in
Other Section Property Da	ta		
Member Weight per Foot of Ler	ngth		0.8643 lb/ft
Allowable Shear Force In Web	(Unpunched)		2563.02 lb
Torsional Properties			
Dist. from Shear Center to Neut	tral Axis (Xo)		-0.5452 in
St. Venant torsion Constant (J >	k 1000)		0.2712 in^4
Warping Constant (Cw)			0.0292 in^6
Radii of Gyration (Ro)			1.2032 in^6
Torsional Flexural Constant (Be	eta)		0.7947

Location (1) and (6) are tip of compression and tension lip respectively

Location (2) and (5) are flange/lip corner of compression and tension side respectively

[•] Properties based upon the AISI S100-16 - North American Specification for the Design of CFS Structural Members incl. Supplement 1 (S100-16/S1-18)

[•] Effective properties include the strength increase from cold forming



Product Name : PHYSICAL PROPERTIES :	250T125-33 (33 ksi)	Track (G60)		
Web Height =	2.6457 in	Steel Thickness =	0.0346 in	
Top Flange =	1.2500 in	Inside Corner Radius =	0.0765 in	
Bottom Flange =	1.2500 in	Yield Stress, Fy =	33.0000 ksi	
Fy With Cold-Work, Fya =	33.0000 ksi			
Effective Section Propertie	es, Strong Axis			
Neutral Axis from Top Fiber (Yo	g)			1.4924 in
Moment of Inertia for Deflection	(lxx)			0.1657 in^4
Section Modulus (Sxx)				0.1029 in^3
Allowable Bending Moment (Ma)			169.45 ft-lb
Gross Section Properties	of Full Section, Strong Axis			
Neutral Axis from Top Fiber (Yo	g)			1.3228 in
Moment of Inertia (Ixxg)				0.1919 in^4
Section modules (Sxxg)				0.1450 in^3
Cross Sectional Area (Ag)				0.1729 in^2
Radius of Gyration (Rxg)				1.0535 in
Section Properties, Weak	Axis			
Gross Neutral Axis (Xcg) From	Web Face			0.3217 in
Gross Moment of Inertia (Iyy)				0.0272 in^4
Radius of Gyration (Ry)				0.3966 in
Other Section Property Da	ta			
Member Weight per Foot of Len	gth			0.5882 lb/ft
Allowable Shear Force In Web (Unpunched)			1023.58 lb
Torsional Properties				
Dist. from Shear Center to Neut	ral Axis (Xo)			-0.7599 in
St. Venant torsion Constant (J x	1000)			0.0690 in^4
Warping Constant (Cw)				0.0328 in^6
Radii of Gyration (Ro)				1.3582 in^6
Torsional Flexural Constant (Be	ta)			0.6869

Location (1) and (6) are tip of compression and tension lip respectively

Location (2) and (5) are flange/lip corner of compression and tension side respectively

[•] Properties based upon the AISI S100-16 - North American Specification for the Design of CFS Structural Members incl. Supplement 1 (S100-16/S1-18)

[•] Effective properties include the strength increase from cold forming



Product Name :	250T125-43 (33 ksi)	Track (G60)	
PHYSICAL PROPERTIES:			
Web Height =	2.6614 in	Steel Thickness =	0.0451 in
Top Flange =	1.2500 in	Inside Corner Radius =	0.0712 in
Bottom Flange =	1.2500 in	Yield Stress, Fy =	33.0000 ksi
Fy With Cold-Work, Fya =	33.0000 ksi		
Effective Section Propertie	es, Strong Axis		
Neutral Axis from Top Fiber (Yo	eg)		1.4541 in
Moment of Inertia for Deflection	(lxx)		0.2310 in^4
Section Modulus (Sxx)			0.1472 in^3
Allowable Bending Moment (Ma	a)		242.41 ft-lb
Gross Section Properties	of Full Section, Strong Axis		
Neutral Axis from Top Fiber (Yo	:g)		1.3307 in
Moment of Inertia (Ixxg)			0.2504 in^4
Section modules (Sxxg)			0.1882 in^3
Cross Sectional Area (Ag)			0.2251 in^2
Radius of Gyration (Rxg)			1.0548 in
Section Properties, Weak	Axis		
Gross Neutral Axis (Xcg) From	Web Face		0.3247 in
Gross Moment of Inertia (Iyy)			0.0350 in^4
Radius of Gyration (Ry)			0.3946 in
Other Section Property Da	ta		
Member Weight per Foot of Ler	ngth		0.7659 lb/ft
Allowable Shear Force In Web	(Unpunched)		1355.54 lb
Torsional Properties			
Dist. from Shear Center to Neut	tral Axis (Xo)		-0.7550 in
St. Venant torsion Constant (J >	k 1000)		0.1526 in^4
Warping Constant (Cw)			0.0425 in^6
Radii of Gyration (Ro)			1.3558 in^6
Torsional Flexural Constant (Be	eta)		0.6899

Location (1) and (6) are tip of compression and tension lip respectively

Location (2) and (5) are flange/lip corner of compression and tension side respectively

[•] Properties based upon the AISI S100-16 - North American Specification for the Design of CFS Structural Members incl. Supplement 1 (S100-16/S1-18)

 $[\]bullet$ Effective properties include the strength increase from cold forming



Product Name : 250T125-54 (50 ksi) Track (G60) PHYSICAL PROPERTIES :			
Web Height =	2.6981 in	Steel Thickness =	0.0566 in
Top Flange =	1.2500 in	Inside Corner Radius =	0.0849 in
Bottom Flange =	1.2500 in	Yield Stress, Fy =	50.0000 ksi
Fy With Cold-Work, Fya =	50.0000 ksi	•	
Effective Section Propertie	es, Strong Axis		
Neutral Axis from Top Fiber (Yo	g)		1.4634 in
Moment of Inertia for Deflection	(Ixx)		0.2967 in/
Section Modulus (Sxx)			0.1884 in/
Allowable Bending Moment (Ma	1)		470.02 ft-l
Gross Section Properties	of Full Section, Strong Axis		
Neutral Axis from Top Fiber (Yo	g)		1.3491 in
Moment of Inertia (Ixxg)			0.3183 in/
Section modules (Sxxg)			0.2359 in/
Cross Sectional Area (Ag)			0.2823 in/
Radius of Gyration (Rxg)			1.0618 in
Section Properties, Weak	Axis		
Gross Neutral Axis (Xcg) From	Web Face		0.3279 in
Gross Moment of Inertia (Iyy)			0.0434 in/
Radius of Gyration (Ry)			0.3923 in
Other Section Property Da	ta		
Member Weight per Foot of Ler	ngth		0.9606 lb/
Allowable Shear Force In Web ((Unpunched)		2563.02 lb
Torsional Properties			
Dist. from Shear Center to Neut	ral Axis (Xo)		-0.7486 in
St. Venant torsion Constant (J x	(1000)		0.3015 in/
Warping Constant (Cw)			0.0539 in/
Radii of Gyration (Ro)			1.3571 in ^a
Torsional Flexural Constant (Be	ita)		0.6957

Location (1) and (6) are tip of compression and tension lip respectively

Location (2) and (5) are flange/lip corner of compression and tension side respectively

[•] Properties based upon the AISI S100-16 - North American Specification for the Design of CFS Structural Members incl. Supplement 1 (S100-16/S1-18)

[•] Effective properties include the strength increase from cold forming



Product Name :	250T150-33 (33 ksi)	Track (G60)		
PHYSICAL PROPERTIES:				
Web Height =	2.6457 in	Steel Thickness =	0.0346 in	
Top Flange =	1.5000 in	Inside Corner Radius =	0.0765 in	
Bottom Flange =	1.5000 in	Yield Stress, Fy =	33.0000 ksi	
Fy With Cold-Work, Fya =	33.0000 ksi			
Effective Section Propertie	es, Strong Axis			
Neutral Axis from Top Fiber (Yo	eg)		1.5485	in
Moment of Inertia for Deflection	(lxx)		0.1795	in^4
Section Modulus (Sxx)			0.1068	3 in^3
Allowable Bending Moment (Ma	a)		175.80) ft-lb
Gross Section Properties	of Full Section, Strong Axis			
Neutral Axis from Top Fiber (Yo	:g)		1.3228	in in
Moment of Inertia (Ixxg)			0.2213	3 in^4
Section modules (Sxxg)			0.1673	3 in^3
Cross Sectional Area (Ag)			0.1902	! in^2
Radius of Gyration (Rxg)			1.0789) in
Section Properties, Weak	Axis			
Gross Neutral Axis (Xcg) From	Web Face		0.4175	in in
Gross Moment of Inertia (Iyy)			0.0447	' in^4
Radius of Gyration (Ry)			0.4849) in
Other Section Property Da	ta			
Member Weight per Foot of Ler	ngth		0.6471	lb/ft
Allowable Shear Force In Web	(Unpunched)		1023.5	8 lb
Torsional Properties				
Dist. from Shear Center to Neut	tral Axis (Xo)		-0.9734	4 in
St. Venant torsion Constant (J >	k 1000)		0.0759) in^4
Warping Constant (Cw)			0.0538	in^6
Radii of Gyration (Ro)			1.5318	in^6
Torsional Flexural Constant (Be	eta)		0.5962	<u> </u>

Location (1) and (6) are tip of compression and tension lip respectively

Location (2) and (5) are flange/lip corner of compression and tension side respectively

[•] Properties based upon the AISI S100-16 - North American Specification for the Design of CFS Structural Members incl. Supplement 1 (S100-16/S1-18)

[•] Effective properties include the strength increase from cold forming



Product Name :	250T150-43 (33 ksi)	Track (G60)		
PHYSICAL PROPERTIES :				
Web Height =	2.6614 in	Steel Thickness =	0.0451 in	
Top Flange =	1.5000 in	Inside Corner Radius =	0.0712 in	
Bottom Flange =	1.5000 in	Yield Stress, Fy =	33.0000 ksi	
Fy With Cold-Work, Fya =	33.0000 ksi			
Effective Section Properties,	Strong Axis			
Neutral Axis from Top Fiber (Ycg)				1.5080 in
Moment of Inertia for Deflection (Ixx	()			0.2522 in^4
Section Modulus (Sxx)				0.1535 in^3
Allowable Bending Moment (Ma)				252.83 ft-lb
Gross Section Properties of F	Full Section, Strong Axis			
Neutral Axis from Top Fiber (Ycg)				1.3307 in
Moment of Inertia (Ixxg)				0.2890 in^4
Section modules (Sxxg)				0.2172 in^3
Cross Sectional Area (Ag)				0.2476 in^2
Radius of Gyration (Rxg)				1.0803 in
Section Properties, Weak Axi	S			
Gross Neutral Axis (Xcg) From Wel	b Face			0.4203 in
Gross Moment of Inertia (Iyy)				0.0578 in^4
Radius of Gyration (Ry)				0.4830 in
Other Section Property Data				
Member Weight per Foot of Length				0.8426 lb/ft
Allowable Shear Force In Web (Unp	punched)			1355.54 lb
Torsional Properties				
Dist. from Shear Center to Neutral	Axis (Xo)			-0.9682 in
St. Venant torsion Constant (J x 10	00)			0.1679 in^4
Warping Constant (Cw)				0.0698 in^6
Radii of Gyration (Ro)				1.5289 in^6
Torsional Flexural Constant (Beta)				0.5990

Location (1) and (6) are tip of compression and tension lip respectively

Location (2) and (5) are flange/lip corner of compression and tension side respectively

[•] Properties based upon the AISI S100-16 - North American Specification for the Design of CFS Structural Members incl. Supplement 1 (S100-16/S1-18)

[•] Effective properties include the strength increase from cold forming



Product Name :	250T150-54 (50 ksi) Track (G60)		
PHYSICAL PROPERTIES :		, ,		
Web Height =	2.6981 in	Steel Thickness =	0.0566 in	
Top Flange =	1.5000 in	Inside Corner Radius =	0.0849 in	
Bottom Flange =	1.5000 in	Yield Stress, Fy =	50.0000 ksi	
Fy With Cold-Work, Fya =	50.0000 ksi			
Effective Section Propertie	es, Strong Axis			
Neutral Axis from Top Fiber (Yo	eg)			1.5174 in
Moment of Inertia for Deflection	ı (lxx)			0.3245 in^4
Section Modulus (Sxx)				0.1968 in^3
Allowable Bending Moment (Ma	a)			490.95 ft-lb
Gross Section Properties	of Full Section, Strong Axis			
Neutral Axis from Top Fiber (Yo	eg)			1.3491 in
Moment of Inertia (Ixxg)				0.3677 in^4
Section modules (Sxxg)				0.2725 in^3
Cross Sectional Area (Ag)				0.3106 in^2
Radius of Gyration (Rxg)				1.0880 in
Section Properties, Weak	Axis			
Gross Neutral Axis (Xcg) From	Web Face			0.4233 in
Gross Moment of Inertia (Iyy)				0.0718 in^4
Radius of Gyration (Ry)				0.4808 in
Other Section Property Da	nta			
Member Weight per Foot of Ler	ngth			1.0569 lb/ft
Allowable Shear Force In Web	(Unpunched)			2563.02 lb
Torsional Properties				
Dist. from Shear Center to Neu	tral Axis (Xo)			-0.9614 in
St. Venant torsion Constant (J	x 1000)			0.3317 in^4
Warping Constant (Cw)				0.0887 in^6
Radii of Gyration (Ro)				1.5294 in^6
Torsional Flexural Constant (Be	eta)			0.6048

Location (1) and (6) are tip of compression and tension lip respectively

Location (2) and (5) are flange/lip corner of compression and tension side respectively

[•] Properties based upon the AISI S100-16 - North American Specification for the Design of CFS Structural Members incl. Supplement 1 (S100-16/S1-18)

[•] Effective properties include the strength increase from cold forming



Product Name :	362T100-33 (33 ksi)	Track (G60)	
PHYSICAL PROPERTIES:			
Web Height =	3.7707 in	Steel Thickness =	0.0346 in
Top Flange =	1.0000 in	Inside Corner Radius =	0.0765 in
Bottom Flange =	1.0000 in	Yield Stress, Fy =	33.0000 ksi
Fy With Cold-Work, Fya =	33.0000 ksi		
Effective Section Propertie	es, Strong Axis		
Neutral Axis from Top Fiber (Yo	g)		2.0082 in
Moment of Inertia for Deflection	(lxx)		0.3517 in^4
Section Modulus (Sxx)			0.1659 in^3
Allowable Bending Moment (Ma	n)		273.15 ft-lb
Gross Section Properties	of Full Section, Strong Axis		
Neutral Axis from Top Fiber (Yo	g)		1.8853 in
Moment of Inertia (Ixxg)			0.3778 in^4
Section modules (Sxxg)			0.2004 in^3
Cross Sectional Area (Ag)			0.1945 in^2
Radius of Gyration (Rxg)			1.3937 in
Section Properties, Weak	Axis		
Gross Neutral Axis (Xcg) From	Web Face		0.1893 in
Gross Moment of Inertia (lyy)			0.0161 in^4
Radius of Gyration (Ry)			0.2880 in
Other Section Property Da	ta		
Member Weight per Foot of Ler	ngth		0.6618 lb/ft
Allowable Shear Force In Web	(Unpunched)		1023.58 lb
Torsional Properties			
Dist. from Shear Center to Neut	ral Axis (Xo)		-0.4728 in
St. Venant torsion Constant (J)	(1000)		0.0776 in^4
Warping Constant (Cw)			0.0413 in^6
Radii of Gyration (Ro)			1.4996 in^6
Torsional Flexural Constant (Be	ta)		0.9006

Location (1) and (6) are tip of compression and tension lip respectively

Location (2) and (5) are flange/lip corner of compression and tension side respectively

[•] Properties based upon the AISI S100-16 - North American Specification for the Design of CFS Structural Members incl. Supplement 1 (S100-16/S1-18)

[•] Effective properties include the strength increase from cold forming



Product Name :	362T100-43 (33 ksi) Track (G60)		
PHYSICAL PROPERTIES:	•	, , ,		
Web Height =	3.7864 in	Steel Thickness =	0.0451 in	
Top Flange =	1.0000 in	Inside Corner Radius =	0.0712 in	
Bottom Flange =	1.0000 in	Yield Stress, Fy =	33.0000 ksi	
Fy With Cold-Work, Fya =	33.0000 ksi			
Effective Section Propertie	es, Strong Axis			
Neutral Axis from Top Fiber (Yo	eg)			1.9691 in
Moment of Inertia for Deflection	ı (Ixx)			0.4810 in^4
Section Modulus (Sxx)				0.2318 in^3
Allowable Bending Moment (Ma	a)			381.71 ft-lb
Gross Section Properties	of Full Section, Strong Axis			
Neutral Axis from Top Fiber (Yo	eg)			1.8932 in
Moment of Inertia (Ixxg)				0.4924 in^4
Section modules (Sxxg)				0.2601 in^3
Cross Sectional Area (Ag)				0.2533 in^2
Radius of Gyration (Rxg)				1.3944 in
Section Properties, Weak	Axis			
Gross Neutral Axis (Xcg) From	Web Face			0.1929 in
Gross Moment of Inertia (Iyy)				0.0207 in^4
Radius of Gyration (Ry)				0.2860 in
Other Section Property Da	ıta			
Member Weight per Foot of Ler	ngth			0.8618 lb/ft
Allowable Shear Force In Web	(Unpunched)			1739.09 lb
Torsional Properties				
Dist. from Shear Center to Neur	tral Axis (Xo)			-0.4687 in
St. Venant torsion Constant (J	x 1000)			0.1717 in^4
Warping Constant (Cw)				0.0533 in^6
Radii of Gyration (Ro)				1.4986 in^6
Torsional Flexural Constant (Be	eta)			0.9022

Location (1) and (6) are tip of compression and tension lip respectively

Location (2) and (5) are flange/lip corner of compression and tension side respectively

[•] Properties based upon the AISI S100-16 - North American Specification for the Design of CFS Structural Members incl. Supplement 1 (S100-16/S1-18)

[•] Effective properties include the strength increase from cold forming



Product Name :	362T100-54 (50 ksi) Tı	rack (G60)		
PHYSICAL PROPERTIES :	, ,	,		
Web Height =	3.8231 in	Steel Thickness =	0.0566 in	
Top Flange =	1.0000 in	Inside Corner Radius =	0.0849 in	
Bottom Flange =	1.0000 in	Yield Stress, Fy =	50.0000 ksi	
Fy With Cold-Work, Fya =	50.0000 ksi			
Effective Section Properties,	Strong Axis			
Neutral Axis from Top Fiber (Ycg)				1.9774 in
Moment of Inertia for Deflection (Ixx	<)			0.6126 in^4
Section Modulus (Sxx)				0.2947 in^3
Allowable Bending Moment (Ma)				735.36 ft-lb
Gross Section Properties of F	full Section, Strong Axis			
Neutral Axis from Top Fiber (Ycg)				1.9116 in
Moment of Inertia (Ixxg)				0.6222 in^4
Section modules (Sxxg)				0.3255 in^3
Cross Sectional Area (Ag)				0.3177 in^2
Radius of Gyration (Rxg)				1.3995 in
Section Properties, Weak Axis	s			
Gross Neutral Axis (Xcg) From Web	o Face			0.1968 in
Gross Moment of Inertia (Iyy)				0.0256 in^4
Radius of Gyration (Ry)				0.2837 in
Other Section Property Data				
Member Weight per Foot of Length				1.0810 lb/ft
Allowable Shear Force In Web (Unp	ounched)			3371.56 lb
Torsional Properties				
Dist. from Shear Center to Neutral A	Axis (Xo)			-0.4637 in
St. Venant torsion Constant (J x 10	00)			0.3392 in^4
Warping Constant (Cw)				0.0668 in^6
Radii of Gyration (Ro)				1.5014 in^6
Torsional Flexural Constant (Beta)				0.9046

Location (1) and (6) are tip of compression and tension lip respectively

Location (2) and (5) are flange/lip corner of compression and tension side respectively

[•] Properties based upon the AISI S100-16 - North American Specification for the Design of CFS Structural Members incl. Supplement 1 (S100-16/S1-18)

 $[\]bullet$ Effective properties include the strength increase from cold forming



Product Name : PHYSICAL PROPERTIES :	362T125-33 (33 ksi)	Track (G60)	
Web Height =	3.7707 in	Steel Thickness =	0.0346 in
Top Flange =	1.2500 in	Inside Corner Radius =	0.0765 in
Bottom Flange =	1.2500 in	Yield Stress, Fy =	33.0000 ksi
Fy With Cold-Work, Fya =	33.0000 ksi		
Effective Section Propertie	es, Strong Axis		
Neutral Axis from Top Fiber (Yo	g)		2.0788 in
Moment of Inertia for Deflection	(Ixx)		0.3845 in^4
Section Modulus (Sxx)			0.1739 in^3
Allowable Bending Moment (Ma	n)		286.44 ft-lb
Gross Section Properties	of Full Section, Strong Axis		
Neutral Axis from Top Fiber (Yo	g)		1.8853 in
Moment of Inertia (Ixxg)			0.4381 in^4
Section modules (Sxxg)			0.2324 in^3
Cross Sectional Area (Ag)			0.2118 in^2
Radius of Gyration (Rxg)			1.4383 in
Section Properties, Weak	Axis		
Gross Neutral Axis (Xcg) From	Web Face		0.2658 in
Gross Moment of Inertia (Iyy)			0.0301 in^4
Radius of Gyration (Ry)			0.3772 in
Other Section Property Da	ta		
Member Weight per Foot of Ler	ngth		0.7207 lb/ft
Allowable Shear Force In Web ((Unpunched)		1023.58 lb
Torsional Properties			
Dist. from Shear Center to Neut	ral Axis (Xo)		-0.6580 in
St. Venant torsion Constant (J x	(1000)		0.0845 in^4
Warping Constant (Cw)			0.0756 in^6
Radii of Gyration (Ro)			1.6260 in^6
Torsional Flexural Constant (Be	ta)		0.8363

Location (1) and (6) are tip of compression and tension lip respectively

Location (2) and (5) are flange/lip corner of compression and tension side respectively

[•] Properties based upon the AISI S100-16 - North American Specification for the Design of CFS Structural Members incl. Supplement 1 (S100-16/S1-18)

[•] Effective properties include the strength increase from cold forming



Product Name :	362T125-43 (33 ksi) Track (G60)		
PHYSICAL PROPERTIES :		, ,		
Web Height =	3.7864 in	Steel Thickness =	0.0451 in	
Top Flange =	1.2500 in	Inside Corner Radius =	0.0712 in	
Bottom Flange =	1.2500 in	Yield Stress, Fy =	33.0000 ksi	
Fy With Cold-Work, Fya =	33.0000 ksi			
Effective Section Propertie	es, Strong Axis			
Neutral Axis from Top Fiber (Yo	eg)			2.0348 in
Moment of Inertia for Deflection	ı (lxx)			0.5308 in^4
Section Modulus (Sxx)				0.2449 in^3
Allowable Bending Moment (Ma	a)			403.25 ft-lb
Gross Section Properties	of Full Section, Strong Axis			
Neutral Axis from Top Fiber (Yo	eg)			1.8932 in
Moment of Inertia (Ixxg)				0.5713 in^4
Section modules (Sxxg)				0.3018 in^3
Cross Sectional Area (Ag)				0.2758 in^2
Radius of Gyration (Rxg)				1.4392 in
Section Properties, Weak	Axis			
Gross Neutral Axis (Xcg) From	Web Face			0.2691 in
Gross Moment of Inertia (Iyy)				0.0388 in^4
Radius of Gyration (Ry)				0.3752 in
Other Section Property Da	ıta			
Member Weight per Foot of Ler	O .			0.9386 lb/ft
Allowable Shear Force In Web	(Unpunched)			1739.09 lb
Torsional Properties				
Dist. from Shear Center to Neu	tral Axis (Xo)			-0.6535 in
St. Venant torsion Constant (J	x 1000)			0.1870 in^4
Warping Constant (Cw)				0.0978 in^6
Radii of Gyration (Ro)				1.6246 in^6
Torsional Flexural Constant (Be	eta)			0.8382

Location (1) and (6) are tip of compression and tension lip respectively

Location (2) and (5) are flange/lip corner of compression and tension side respectively

[•] Properties based upon the AISI S100-16 - North American Specification for the Design of CFS Structural Members incl. Supplement 1 (S100-16/S1-18)

 $[\]bullet$ Effective properties include the strength increase from cold forming



Product Name :	362T125-54 (50 ksi) Track (G60)		
PHYSICAL PROPERTIES:				
Web Height =	3.8231 in	Steel Thickness =	0.0566 in	
Top Flange =	1.2500 in	Inside Corner Radius =	0.0849 in	
Bottom Flange =	1.2500 in	Yield Stress, Fy =	50.0000 ksi	
Fy With Cold-Work, Fya =	50.0000 ksi			
Effective Section Propertie	s, Strong Axis			
Neutral Axis from Top Fiber (Yco	g)			2.0425 in
Moment of Inertia for Deflection	(lxx)			0.6777 in^4
Section Modulus (Sxx)				0.3120 in^3
Allowable Bending Moment (Ma))			778.52 ft-lb
Gross Section Properties of	of Full Section, Strong Axis			
Neutral Axis from Top Fiber (Yog	g)			1.9116 in
Moment of Inertia (Ixxg)				0.7226 in^4
Section modules (Sxxg)				0.3780 in^3
Cross Sectional Area (Ag)				0.3460 in^2
Radius of Gyration (Rxg)				1.4452 in
Section Properties, Weak A	Axis			
Gross Neutral Axis (Xcg) From V	Veb Face			0.2728 in
Gross Moment of Inertia (lyy)				0.0481 in^4
Radius of Gyration (Ry)				0.3729 in
Other Section Property Dat	a			
Member Weight per Foot of Len	gth			1.1773 lb/ft
Allowable Shear Force In Web (Unpunched)			3371.56 lb
Torsional Properties				
Dist. from Shear Center to Neutr	ral Axis (Xo)			-0.6480 in
St. Venant torsion Constant (J x	1000)			0.3695 in^4
Warping Constant (Cw)				0.1231 in^6
Radii of Gyration (Ro)				1.6271 in^6
Torsional Flexural Constant (Bet	a)			0.8414

Location (1) and (6) are tip of compression and tension lip respectively

Location (2) and (5) are flange/lip corner of compression and tension side respectively

[•] Properties based upon the AISI S100-16 - North American Specification for the Design of CFS Structural Members incl. Supplement 1 (S100-16/S1-18)

[•] Effective properties include the strength increase from cold forming



Product Name :	362T150-33 (33 ksi) Track (G60)		
PHYSICAL PROPERTIES:				
Web Height =	3.7707 in	Steel Thickness =	0.0346 in	
Top Flange =	1.5000 in	Inside Corner Radius =	0.0765 in	
Bottom Flange =	1.5000 in	Yield Stress, Fy =	33.0000 ksi	
Fy With Cold-Work, Fya =	33.0000 ksi			
Effective Section Propertie	s, Strong Axis			
Neutral Axis from Top Fiber (Ycg	g)			2.1457 in
Moment of Inertia for Deflection	(lxx)			0.4136 in^4
Section Modulus (Sxx)				0.1804 in^3
Allowable Bending Moment (Ma))			297.07 ft-lb
Gross Section Properties of	of Full Section, Strong Axis			
Neutral Axis from Top Fiber (Yco	g)			1.8853 in
Moment of Inertia (Ixxg)				0.4985 in^4
Section modules (Sxxg)				0.2644 in^3
Cross Sectional Area (Ag)				0.2291 in^2
Radius of Gyration (Rxg)				1.4752 in
Section Properties, Weak A	Axis			
Gross Neutral Axis (Xcg) From V	Veb Face			0.3495 in
Gross Moment of Inertia (Iyy)				0.0499 in^4
Radius of Gyration (Ry)				0.4667 in
Other Section Property Dat	a			
Member Weight per Foot of Leng	gth			0.7795 lb/ft
Allowable Shear Force In Web (Unpunched)			1023.58 lb
Torsional Properties				
Dist. from Shear Center to Neutr	ral Axis (Xo)			-0.8543 in
St. Venant torsion Constant (J x	1000)			0.0914 in^4
Warping Constant (Cw)				0.1238 in^6
Radii of Gyration (Ro)				1.7674 in^6
Torsional Flexural Constant (Bet	a)			0.7664

Location (1) and (6) are tip of compression and tension lip respectively

Location (2) and (5) are flange/lip corner of compression and tension side respectively

[•] Properties based upon the AISI S100-16 - North American Specification for the Design of CFS Structural Members incl. Supplement 1 (S100-16/S1-18)

[•] Effective properties include the strength increase from cold forming



Product Name : PHYSICAL PROPERTIES :	362T150-43 (33 ksi)	Track (G60)		
Web Height =	3.7864 in	Steel Thickness =	0.0451 in	
Top Flange =	1.5000 in	Inside Corner Radius =	0.0712 in	
Bottom Flange =	1.5000 in	Yield Stress, Fy =	33.0000 ksi	
Fy With Cold-Work, Fya =	33.0000 ksi			
Effective Section Propertie	es, Strong Axis			
Neutral Axis from Top Fiber (Yo	g)			2.0989 in
Moment of Inertia for Deflection	(lxx)			0.5744 in^4
Section Modulus (Sxx)				0.2551 in^3
Allowable Bending Moment (Ma)			420.05 ft-lb
Gross Section Properties o	of Full Section, Strong Axis			
Neutral Axis from Top Fiber (Yo	g)			1.8932 in
Moment of Inertia (Ixxg)				0.6502 in^4
Section modules (Sxxg)				0.3435 in^3
Cross Sectional Area (Ag)				0.2984 in^2
Radius of Gyration (Rxg)				1.4763 in
Section Properties, Weak	Axis			
Gross Neutral Axis (Xcg) From	Web Face			0.3527 in
Gross Moment of Inertia (Iyy)				0.0644 in^4
Radius of Gyration (Ry)				0.4647 in
Other Section Property Da	ta			
Member Weight per Foot of Len	gth			1.0153 lb/ft
Allowable Shear Force In Web (Unpunched)			1739.09 lb
Torsional Properties				
Dist. from Shear Center to Neut	ral Axis (Xo)			-0.8496 in
St. Venant torsion Constant (J x	1000)			0.2023 in^4
Warping Constant (Cw)				0.1604 in^6
Radii of Gyration (Ro)				1.7655 in^6
Torsional Flexural Constant (Be	ta)			0.7684

Location (1) and (6) are tip of compression and tension lip respectively

Location (2) and (5) are flange/lip corner of compression and tension side respectively

[•] Properties based upon the AISI S100-16 - North American Specification for the Design of CFS Structural Members incl. Supplement 1 (S100-16/S1-18)

[•] Effective properties include the strength increase from cold forming



Product Name : PHYSICAL PROPERTIES :	362T150-54 (50 ksi)	Track (G60)	
Web Height =	3.8231 in	Steel Thickness =	0.0566 in
Top Flange =	1.5000 in	Inside Corner Radius =	0.0849 in
Bottom Flange =	1.5000 in	Yield Stress, Fy =	50.0000 ksi
Fy With Cold-Work, Fya =	50.0000 ksi	, ,	
Effective Section Propertie	es, Strong Axis		
Neutral Axis from Top Fiber (Yo	g)		2.1066 in
Moment of Inertia for Deflection	(lxx)		0.7346 in^4
Section Modulus (Sxx)			0.3254 in^3
Allowable Bending Moment (Ma)		811.94 ft-lb
Gross Section Properties	of Full Section, Strong Axis		
Neutral Axis from Top Fiber (Yc	g)		1.9116 in
Moment of Inertia (Ixxg)			0.8230 in^4
Section modules (Sxxg)			0.4305 in^3
Cross Sectional Area (Ag)			0.3743 in^2
Radius of Gyration (Rxg)			1.4828 in
Section Properties, Weak	Axis		
Gross Neutral Axis (Xcg) From	Web Face		0.3561 in
Gross Moment of Inertia (Iyy)			0.0800 in^4
Radius of Gyration (Ry)			0.4624 in
Other Section Property Da	ta		
Member Weight per Foot of Len	ngth		1.2736 lb/ft
Allowable Shear Force In Web ((Unpunched)		3371.56 lb
Torsional Properties			
Dist. from Shear Center to Neut	ral Axis (Xo)		-0.8436 in
St. Venant torsion Constant (J x	(1000)		0.3997 in^4
Warping Constant (Cw)			0.2023 in^6
Radii of Gyration (Ro)			1.7676 in^6
Torsional Flexural Constant (Be	ta)		0.7722

Location (1) and (6) are tip of compression and tension lip respectively

Location (2) and (5) are flange/lip corner of compression and tension side respectively

[•] Properties based upon the AISI S100-16 - North American Specification for the Design of CFS Structural Members incl. Supplement 1 (S100-16/S1-18)

[•] Effective properties include the strength increase from cold forming



Product Name : PHYSICAL PROPERTIES :	400T100-33 (33 ksi)	Track (G60)	
Web Height =	4.1457 in	Steel Thickness =	0.0346 in
Top Flange =	1.0000 in	Inside Corner Radius =	0.0765 in
Bottom Flange =	1.0000 in	Yield Stress, Fy =	33.0000 ksi
Fy With Cold-Work, Fya =	33.0000 ksi	, ,	
Effective Section Propertie	es, Strong Axis		
Neutral Axis from Top Fiber (Yo	g)		2.2602 in
Moment of Inertia for Deflection	(lxx)		0.4466 in^
Section Modulus (Sxx)			0.1810 in [^]
Allowable Bending Moment (Ma)		298.12 ft-l
Gross Section Properties	of Full Section, Strong Axis		
Neutral Axis from Top Fiber (Yo	g)		2.0728 in
Moment of Inertia (Ixxg)			0.4757 in^
Section modules (Sxxg)			0.2295 in^
Cross Sectional Area (Ag)			0.2075 in [^]
Radius of Gyration (Rxg)			1.5143 in
Section Properties, Weak	Axis		
Gross Neutral Axis (Xcg) From	Web Face		0.1786 in
Gross Moment of Inertia (Iyy)			0.0165 in [^]
Radius of Gyration (Ry)			0.2819 in
Other Section Property Da	ta		
Member Weight per Foot of Ler	ngth		0.7059 lb/
Allowable Shear Force In Web ((Unpunched)		939.64 lb
Torsional Properties			
Dist. from Shear Center to Neut	ral Axis (Xo)		-0.4508 in
St. Venant torsion Constant (J x	(1000)		0.0828 in^
Warping Constant (Cw)			0.0516 in [^]
Radii of Gyration (Ro)			1.6049 in^
Torsional Flexural Constant (Be	ta)		0.9211

Location (1) and (6) are tip of compression and tension lip respectively

Location (2) and (5) are flange/lip corner of compression and tension side respectively

[•] Properties based upon the AISI S100-16 - North American Specification for the Design of CFS Structural Members incl. Supplement 1 (S100-16/S1-18)

[•] Effective properties include the strength increase from cold forming



Product Name : PHYSICAL PROPERTIES :	400T100-43 (33 ksi)	Track (G60)	
Web Height =	4.1614 in	Steel Thickness =	0.0451 in
Top Flange =	1.0000 in	Inside Corner Radius =	0.0712 in
Bottom Flange =	1.0000 in	Yield Stress, Fy =	33.0000 ksi
Fy With Cold-Work, Fya =	33.0000 ksi	•	
Effective Section Propertie	es, Strong Axis		
Neutral Axis from Top Fiber (Yc	g)		2.1588 in
Moment of Inertia for Deflection	(lxx)		0.6059 in^
Section Modulus (Sxx)			0.2671 in^
Allowable Bending Moment (Ma)		439.78 ft-II
Gross Section Properties	of Full Section, Strong Axis		
Neutral Axis from Top Fiber (Yc	g)		2.0807 in
Moment of Inertia (Ixxg)			0.6200 in^
Section modules (Sxxg)			0.2980 in^
Cross Sectional Area (Ag)			0.2702 in^
Radius of Gyration (Rxg)			1.5148 in
Section Properties, Weak	Axis		
Gross Neutral Axis (Xcg) From	Web Face		0.1822 in
Gross Moment of Inertia (Iyy)			0.0212 in^
Radius of Gyration (Ry)			0.2800 in
Other Section Property Da	ta		
Member Weight per Foot of Len	ngth		0.9194 lb/f
Allowable Shear Force In Web ((Unpunched)		1739.09 lb
Torsional Properties			
Dist. from Shear Center to Neut	ral Axis (Xo)		-0.4469 in
St. Venant torsion Constant (J x	(1000)		0.1832 in^
Warping Constant (Cw)			0.0665 in^
Radii of Gyration (Ro)			1.6040 in^
Torsional Flexural Constant (Be	ta)		0.9224

Location (1) and (6) are tip of compression and tension lip respectively

Location (2) and (5) are flange/lip corner of compression and tension side respectively

[•] Properties based upon the AISI S100-16 - North American Specification for the Design of CFS Structural Members incl. Supplement 1 (S100-16/S1-18)

[•] Effective properties include the strength increase from cold forming



Product Name : PHYSICAL PROPERTIES :	400T100-54 (50 ksi)	Track (G60)	
Web Height =	4.1981 in	Steel Thickness =	0.0566 in
Top Flange =	1.0000 in	Inside Corner Radius =	0.0849 in
Bottom Flange =	1.0000 in	Yield Stress, Fy =	50.0000 ksi
Fy With Cold-Work, Fya =	50.0000 ksi	, . ,	
Effective Section Propertie	es, Strong Axis		
Neutral Axis from Top Fiber (Yo	g)		2.1668 in
Moment of Inertia for Deflection	(lxx)		0.7708 in^4
Section Modulus (Sxx)			0.3393 in^3
Allowable Bending Moment (Ma)		846.48 ft-lb
Gross Section Properties	of Full Section, Strong Axis		
Neutral Axis from Top Fiber (Yc	g)		2.0991 in
Moment of Inertia (Ixxg)			0.7827 in^4
Section modules (Sxxg)			0.3729 in^3
Cross Sectional Area (Ag)			0.3389 in^2
Radius of Gyration (Rxg)			1.5197 in
Section Properties, Weak	Axis		
Gross Neutral Axis (Xcg) From	Web Face		0.1863 in
Gross Moment of Inertia (lyy)			0.0261 in^4
Radius of Gyration (Ry)			0.2777 in
Other Section Property Da	ta		
Member Weight per Foot of Len	ngth		1.1532 lb/ft
Allowable Shear Force In Web ((Unpunched)		3371.56 lb
Torsional Properties			
Dist. from Shear Center to Neut	ral Axis (Xo)		-0.4421 in
St. Venant torsion Constant (J x	(1000)		0.3619 in^4
Warping Constant (Cw)			0.0834 in^6
Radii of Gyration (Ro)			1.6069 in^6
Torsional Flexural Constant (Be	ta)		0.9243

Location (1) and (6) are tip of compression and tension lip respectively

Location (2) and (5) are flange/lip corner of compression and tension side respectively

[•] Properties based upon the AISI S100-16 - North American Specification for the Design of CFS Structural Members incl. Supplement 1 (S100-16/S1-18)

 $[\]bullet$ Effective properties include the strength increase from cold forming



Product Name :	400T125-33 (33 ks	i) Track (G60)		
PHYSICAL PROPERTIES :	•			
Web Height =	4.1457 in	Steel Thickness =	0.0346 in	
Top Flange =	1.2500 in	Inside Corner Radius =	0.0765 in	
Bottom Flange =	1.2500 in	Yield Stress, Fy =	33.0000 ksi	
Fy With Cold-Work, Fya =	33.0000 ksi			
Effective Section Properties	s, Strong Axis			
Neutral Axis from Top Fiber (Ycg)				2.2722 in
Moment of Inertia for Deflection ((xx)			0.4839 in^4
Section Modulus (Sxx)				0.2010 in^3
Allowable Bending Moment (Ma)				330.96 ft-lb
Gross Section Properties of	Full Section, Strong Axis	3		
Neutral Axis from Top Fiber (Ycg)				2.0728 in
Moment of Inertia (Ixxg)				0.5488 in^4
Section modules (Sxxg)				0.2648 in^3
Cross Sectional Area (Ag)				0.2248 in^2
Radius of Gyration (Rxg)				1.5626 in
Section Properties, Weak A	xis			
Gross Neutral Axis (Xcg) From W	eb Face			0.2514 in
Gross Moment of Inertia (Iyy)				0.0309 in^4
Radius of Gyration (Ry)				0.3707 in
Other Section Property Data	l			
Member Weight per Foot of Leng	th			0.7648 lb/ft
Allowable Shear Force In Web (U	Inpunched)			939.64 lb
Torsional Properties				
Dist. from Shear Center to Neutra	l Axis (Xo)			-0.6303 in
St. Venant torsion Constant (J x 1	1000)			0.0897 in^4
Warping Constant (Cw)				0.0946 in^6
Radii of Gyration (Ro)				1.7252 in^6
Torsional Flexural Constant (Beta	<u> </u>			0.8665

Location (1) and (6) are tip of compression and tension lip respectively

Location (2) and (5) are flange/lip corner of compression and tension side respectively

[•] Properties based upon the AISI S100-16 - North American Specification for the Design of CFS Structural Members incl. Supplement 1 (S100-16/S1-18)

 $[\]bullet$ Effective properties include the strength increase from cold forming



Product Name :	400T125-43 (33 ksi)	Track (G60)		
PHYSICAL PROPERTIES:				
Web Height =	4.1614 in	Steel Thickness =	0.0451 in	
Top Flange =	1.2500 in	Inside Corner Radius =	0.0712 in	
Bottom Flange =	1.2500 in	Yield Stress, Fy =	33.0000 ksi	
Fy With Cold-Work, Fya =	33.0000 ksi			
Effective Section Propertie	es, Strong Axis			
Neutral Axis from Top Fiber (Yo	eg)			2.2268 in
Moment of Inertia for Deflection	(lxx)			0.6662 in^4
Section Modulus (Sxx)				0.2818 in^3
Allowable Bending Moment (Ma	a)			464.01 ft-lb
Gross Section Properties	of Full Section, Strong Axis			
Neutral Axis from Top Fiber (Yo	eg)			2.0807 in
Moment of Inertia (Ixxg)				0.7155 in^4
Section modules (Sxxg)				0.3439 in^3
Cross Sectional Area (Ag)				0.2927 in^2
Radius of Gyration (Rxg)				1.5634 in
Section Properties, Weak	Axis			
Gross Neutral Axis (Xcg) From	Web Face			0.2549 in
Gross Moment of Inertia (lyy)				0.0398 in^4
Radius of Gyration (Ry)				0.3687 in
Other Section Property Da	ta			
Member Weight per Foot of Ler	ngth			0.9961 lb/ft
Allowable Shear Force In Web	(Unpunched)			1739.09 lb
Torsional Properties				
Dist. from Shear Center to Neur	tral Axis (Xo)			-0.6260 in
St. Venant torsion Constant (J)	¢ 1000)			0.1985 in^4
Warping Constant (Cw)				0.1222 in^6
Radii of Gyration (Ro)				1.7240 in^6
Torsional Flexural Constant (Be	eta)			0.8681

Location (1) and (6) are tip of compression and tension lip respectively

Location (2) and (5) are flange/lip corner of compression and tension side respectively

[•] Properties based upon the AISI S100-16 - North American Specification for the Design of CFS Structural Members incl. Supplement 1 (S100-16/S1-18)

[•] Effective properties include the strength increase from cold forming



Product Name :	400T125-54 (50 ksi) Track (G60)		
PHYSICAL PROPERTIES:	-			
Web Height =	4.1981 in	Steel Thickness =	0.0566 in	
Top Flange =	1.2500 in	Inside Corner Radius =	0.0849 in	
Bottom Flange =	1.2500 in	Yield Stress, Fy =	50.0000 ksi	
Fy With Cold-Work, Fya =	50.0000 ksi			
Effective Section Properties	s, Strong Axis			
Neutral Axis from Top Fiber (Ycg	1)			2.2341 in
Moment of Inertia for Deflection	(lxx)			0.8494 in^4
Section Modulus (Sxx)				0.3587 in^3
Allowable Bending Moment (Ma)				894.90 ft-lb
Gross Section Properties o	f Full Section, Strong Axis			
Neutral Axis from Top Fiber (Ycg	g)			2.0991 in
Moment of Inertia (Ixxg)				0.9040 in^4
Section modules (Sxxg)				0.4307 in^3
Cross Sectional Area (Ag)				0.3672 in^2
Radius of Gyration (Rxg)				1.5691 in
Section Properties, Weak A	axis			
Gross Neutral Axis (Xcg) From V	Veb Face			0.2586 in
Gross Moment of Inertia (Iyy)				0.0493 in^4
Radius of Gyration (Ry)				0.3664 in
Other Section Property Dat	a			
Member Weight per Foot of Leng	gth			1.2495 lb/ft
Allowable Shear Force In Web (U	Jnpunched)			3371.56 lb
Torsional Properties				
Dist. from Shear Center to Neutr	al Axis (Xo)			-0.6207 in
St. Venant torsion Constant (J x	1000)			0.3921 in^4
Warping Constant (Cw)				0.1536 in^6
Radii of Gyration (Ro)				1.7267 in^6
Torsional Flexural Constant (Bet	a)			0.8708

Location (1) and (6) are tip of compression and tension lip respectively

Location (2) and (5) are flange/lip corner of compression and tension side respectively

[•] Properties based upon the AISI S100-16 - North American Specification for the Design of CFS Structural Members incl. Supplement 1 (S100-16/S1-18)

[•] Effective properties include the strength increase from cold forming



Product Name : PHYSICAL PROPERTIES :	400T150-33 (33 ksi)	Track (G60)		
Web Height =	4.1457 in	Steel Thickness =	0.0346 in	
Top Flange =	1.5000 in	Inside Corner Radius =	0.0765 in	
Bottom Flange =	1.5000 in	Yield Stress, Fy =	33.0000 ksi	
Fy With Cold-Work, Fya =	33.0000 ksi	·		
Effective Section Properties	s, Strong Axis			
Neutral Axis from Top Fiber (Ycg	1)			2.3420 in
Moment of Inertia for Deflection ((lxx)			0.5193 in^4
Section Modulus (Sxx)				0.2084 in^3
Allowable Bending Moment (Ma)				343.12 ft-lb
Gross Section Properties o	f Full Section, Strong Axis			
Neutral Axis from Top Fiber (Ycg	1)			2.0728 in
Moment of Inertia (Ixxg)				0.6219 in^4
Section modules (Sxxg)				0.3000 in^3
Cross Sectional Area (Ag)				0.2421 in^2
Radius of Gyration (Rxg)				1.6029 in
Section Properties, Weak A	xis			
Gross Neutral Axis (Xcg) From V	Veb Face			0.3317 in
Gross Moment of Inertia (lyy)				0.0513 in^4
Radius of Gyration (Ry)				0.4601 in
Other Section Property Data	а			
Member Weight per Foot of Leng	gth			0.8237 lb/ft
Allowable Shear Force In Web (U	Jnpunched)			939.64 lb
Torsional Properties				
Dist. from Shear Center to Neutra	al Axis (Xo)			-0.8215 in
St. Venant torsion Constant (J x	1000)			0.0966 in^4
Warping Constant (Cw)				0.1547 in^6
Radii of Gyration (Ro)				1.8590 in^6
Torsional Flexural Constant (Beta	a)			0.8047

Location (1) and (6) are tip of compression and tension lip respectively

Location (2) and (5) are flange/lip corner of compression and tension side respectively

[•] Properties based upon the AISI S100-16 - North American Specification for the Design of CFS Structural Members incl. Supplement 1 (S100-16/S1-18)

[•] Effective properties include the strength increase from cold forming



Product Name : PHYSICAL PROPERTIES :	400T150-43 (33 ksi)	Track (G60)		
Web Height =	4.1614 in	Steel Thickness =	0.0451 in	
Top Flange =	1.5000 in	Inside Corner Radius =	0.0712 in	
Bottom Flange =	1.5000 in	Yield Stress, Fy =	33.0000 ksi	
Fy With Cold-Work, Fya =	33.0000 ksi	·		
Effective Section Properties	s, Strong Axis			
Neutral Axis from Top Fiber (Ycg)			2.2937 in
Moment of Inertia for Deflection ((lxx)			0.7192 in^4
Section Modulus (Sxx)				0.2933 in^3
Allowable Bending Moment (Ma)				483.06 ft-lb
Gross Section Properties o	f Full Section, Strong Axis			
Neutral Axis from Top Fiber (Ycg)			2.0807 in
Moment of Inertia (Ixxg)				0.8110 in^4
Section modules (Sxxg)				0.3898 in^3
Cross Sectional Area (Ag)				0.3153 in^2
Radius of Gyration (Rxg)				1.6039 in
Section Properties, Weak A	xis			
Gross Neutral Axis (Xcg) From V	Veb Face			0.3350 in
Gross Moment of Inertia (Iyy)				0.0662 in^4
Radius of Gyration (Ry)				0.4582 in
Other Section Property Data	а			
Member Weight per Foot of Leng	yth			1.0728 lb/ft
Allowable Shear Force In Web (U	Jnpunched)			1739.09 lb
Torsional Properties				
Dist. from Shear Center to Neutra	al Axis (Xo)			-0.8169 in
St. Venant torsion Constant (J x	1000)			0.2138 in^4
Warping Constant (Cw)				0.2004 in^6
Radii of Gyration (Ro)				1.8573 in^6
Torsional Flexural Constant (Beta	a)			0.8066

Location (1) and (6) are tip of compression and tension lip respectively

Location (2) and (5) are flange/lip corner of compression and tension side respectively

[•] Properties based upon the AISI S100-16 - North American Specification for the Design of CFS Structural Members incl. Supplement 1 (S100-16/S1-18)

[•] Effective properties include the strength increase from cold forming



Product Name : PHYSICAL PROPERTIES :	400T150-54 (50 ksi)	Track (G60)		
Web Height =	4.1981 in	Steel Thickness =	0.0566 in	
Top Flange =	1.5000 in	Inside Corner Radius =	0.0849 in	
Bottom Flange =	1.5000 in	Yield Stress, Fy =	50.0000 ksi	
Fy With Cold-Work, Fya =	50.0000 ksi	·		
Effective Section Propertie	s, Strong Axis			
Neutral Axis from Top Fiber (Ycg	3)			2.3008 in
Moment of Inertia for Deflection	(lxx)			0.9183 in^4
Section Modulus (Sxx)				0.3738 in^3
Allowable Bending Moment (Ma))			932.71 ft-lb
Gross Section Properties o	of Full Section, Strong Axis			
Neutral Axis from Top Fiber (Ycg	g)			2.0991 in
Moment of Inertia (Ixxg)				1.0254 in^4
Section modules (Sxxg)				0.4885 in^3
Cross Sectional Area (Ag)				0.3955 in^2
Radius of Gyration (Rxg)				1.6102 in
Section Properties, Weak A	Axis			
Gross Neutral Axis (Xcg) From V	Veb Face			0.3385 in
Gross Moment of Inertia (Iyy)				0.0822 in^4
Radius of Gyration (Ry)				0.4559 in
Other Section Property Dat	a			
Member Weight per Foot of Leng	gth			1.3458 lb/ft
Allowable Shear Force In Web (Unpunched)			3371.56 lb
Torsional Properties				
Dist. from Shear Center to Neutr	al Axis (Xo)			-0.8111 in
St. Venant torsion Constant (J x	1000)			0.4223 in^4
Warping Constant (Cw)				0.2524 in^6
Radii of Gyration (Ro)				1.8597 in^6
Torsional Flexural Constant (Bet	ra)			0.8098

Location (1) and (6) are tip of compression and tension lip respectively

Location (2) and (5) are flange/lip corner of compression and tension side respectively

[•] Properties based upon the AISI S100-16 - North American Specification for the Design of CFS Structural Members incl. Supplement 1 (S100-16/S1-18)

[•] Effective properties include the strength increase from cold forming



Product Name :	600T100-33 (33 ksi) Track (G60)		
PHYSICAL PROPERTIES :				
Web Height =	6.1457 in	Steel Thickness =	0.0346 in	
Top Flange =	1.0000 in	Inside Corner Radius =	0.0765 in	
Bottom Flange =	1.0000 in	Yield Stress, Fy =	33.0000 ksi	
Fy With Cold-Work, Fya =	33.0000 ksi			
Effective Section Properties	s, Strong Axis			
Neutral Axis from Top Fiber (Ycg)			3.5290 in
Moment of Inertia for Deflection (lxx)			1.1704 in^4
Section Modulus (Sxx)				0.2888 in^3
Allowable Bending Moment (Ma)				475.51 ft-lb
Gross Section Properties of	f Full Section, Strong Axis			
Neutral Axis from Top Fiber (Ycg)			3.0728 in
Moment of Inertia (Ixxg)				1.2667 in^4
Section modules (Sxxg)				0.4122 in^3
Cross Sectional Area (Ag)				0.2767 in^2
Radius of Gyration (Rxg)				2.1397 in
Section Properties, Weak A	xis			
Gross Neutral Axis (Xcg) From W	/eb Face			0.1382 in
Gross Moment of Inertia (Iyy)				0.0178 in^4
Radius of Gyration (Ry)				0.2539 in
Other Section Property Data	a			
Member Weight per Foot of Leng	ıth			0.9414 lb/ft
Allowable Shear Force In Web (U	Jnpunched)			622.38 lb
Torsional Properties				
Dist. from Shear Center to Neutra	al Axis (Xo)			-0.3622 in
St. Venant torsion Constant (J x	1000)			0.1104 in^4
Warping Constant (Cw)				0.1291 in^6
Radii of Gyration (Ro)				2.1850 in^6
Torsional Flexural Constant (Beta	a)			0.9725

Location (1) and (6) are tip of compression and tension lip respectively

Location (2) and (5) are flange/lip corner of compression and tension side respectively

[•] Properties based upon the AISI S100-16 - North American Specification for the Design of CFS Structural Members incl. Supplement 1 (S100-16/S1-18)

 $[\]bullet$ Effective properties include the strength increase from cold forming



Product Name :	600T100-43 (33 ksi) T	rack (G60)		
PHYSICAL PROPERTIES :	,	,		
Web Height =	6.1614 in	Steel Thickness =	0.0451 in	
Top Flange =	1.0000 in	Inside Corner Radius =	0.0712 in	
Bottom Flange =	1.0000 in	Yield Stress, Fy =	33.0000 ksi	
Fy With Cold-Work, Fya =	33.0000 ksi			
Effective Section Properties,	Strong Axis			
Neutral Axis from Top Fiber (Ycg)				3.3187 in
Moment of Inertia for Deflection (Ixx	<)			1.6290 in^4
Section Modulus (Sxx)				0.4442 in^3
Allowable Bending Moment (Ma)				731.44 ft-lb
Gross Section Properties of F	full Section, Strong Axis			
Neutral Axis from Top Fiber (Ycg)				3.0807 in
Moment of Inertia (Ixxg)				1.6502 in^4
Section modules (Sxxg)				0.5357 in^3
Cross Sectional Area (Ag)				0.3604 in^2
Radius of Gyration (Rxg)				2.1399 in
Section Properties, Weak Axis	s			
Gross Neutral Axis (Xcg) From Web	o Face			0.1423 in
Gross Moment of Inertia (Iyy)				0.0229 in^4
Radius of Gyration (Ry)				0.2521 in
Other Section Property Data				
Member Weight per Foot of Length				1.2263 lb/ft
Allowable Shear Force In Web (Unp	ounched)			1377.13 lb
Torsional Properties				
Dist. from Shear Center to Neutral A	Axis (Xo)			-0.3590 in
St. Venant torsion Constant (J x 100	00)			0.2443 in^4
Warping Constant (Cw)				0.1662 in^6
Radii of Gyration (Ro)				2.1844 in^6
Torsional Flexural Constant (Beta)				0.9730

Location (1) and (6) are tip of compression and tension lip respectively

Location (2) and (5) are flange/lip corner of compression and tension side respectively

[•] Properties based upon the AISI S100-16 - North American Specification for the Design of CFS Structural Members incl. Supplement 1 (S100-16/S1-18)

 $[\]bullet$ Effective properties include the strength increase from cold forming



Product Name : PHYSICAL PROPERTIES :	600T100-54 (50 ksi)	Track (G60)		
Web Height =	6.1981 in	Steel Thickness =	0.0566 in	
Top Flange =	1.0000 in	Inside Corner Radius =	0.0849 in	
Bottom Flange =	1.0000 in	Yield Stress, Fy =	50.0000 ksi	
Fy With Cold-Work, Fya =	50.0000 ksi			
Effective Section Propertie	es, Strong Axis			
Neutral Axis from Top Fiber (Yo	g)			3.3085 in
Moment of Inertia for Deflection	(lxx)			2.0615 in^4
Section Modulus (Sxx)				0.5693 in^3
Allowable Bending Moment (Ma)			1420.48 ft-lb
Gross Section Properties	of Full Section, Strong Axis			
Neutral Axis from Top Fiber (Yc	g)			3.0991 in
Moment of Inertia (Ixxg)				2.0773 in^4
Section modules (Sxxg)				0.6703 in^3
Cross Sectional Area (Ag)				0.4521 in^2
Radius of Gyration (Rxg)				2.1435 in
Section Properties, Weak	Axis			
Gross Neutral Axis (Xcg) From	Web Face			0.1467 in
Gross Moment of Inertia (Iyy)				0.0283 in^4
Radius of Gyration (Ry)				0.2500 in
Other Section Property Da	ta			
Member Weight per Foot of Len	gth			1.5384 lb/ft
Allowable Shear Force In Web (Unpunched)			2728.34 lb
Torsional Properties				
Dist. from Shear Center to Neut	ral Axis (Xo)			-0.3550 in
St. Venant torsion Constant (J x	1000)			0.4828 in^4
Warping Constant (Cw)				0.2072 in^6
Radii of Gyration (Ro)				2.1871 in^6
Torsional Flexural Constant (Be	ta)			0.9736

Location (1) and (6) are tip of compression and tension lip respectively

Location (2) and (5) are flange/lip corner of compression and tension side respectively

[•] Properties based upon the AISI S100-16 - North American Specification for the Design of CFS Structural Members incl. Supplement 1 (S100-16/S1-18)

 $[\]bullet$ Effective properties include the strength increase from cold forming



Product Name : PHYSICAL PROPERTIES :	600T125-33 (33 ksi)) Track (G60)		
Web Height =	6.1457 in	Steel Thickness =	0.0346 in	
Top Flange =	1.2500 in	Inside Corner Radius =	0.0765 in	
Bottom Flange =	1.2500 in	Yield Stress, Fy =	33.0000 ksi	
Fy With Cold-Work, Fya =	33.0000 ksi	, . ,		
Effective Section Propertie	es, Strong Axis			
Neutral Axis from Top Fiber (Yo	:g)		3.6345 i	in
Moment of Inertia for Deflection	(lxx)		1.2576 i	in^4
Section Modulus (Sxx)			0.2970 i	in^3
Allowable Bending Moment (Ma	a)		489.04	ft-lb
Gross Section Properties	of Full Section, Strong Axis			
Neutral Axis from Top Fiber (Yo	:g)		3.0728 i	in
Moment of Inertia (Ixxg)			1.4282 i	in^4
Section modules (Sxxg)			0.4648 i	in^3
Cross Sectional Area (Ag)			0.2940 i	in^2
Radius of Gyration (Rxg)			2.2042 i	in
Section Properties, Weak	Axis			
Gross Neutral Axis (Xcg) From	Web Face		0.1963 i	in
Gross Moment of Inertia (Iyy)			0.0338 i	in^4
Radius of Gyration (Ry)			0.3390 i	in
Other Section Property Da	ta			
Member Weight per Foot of Ler	ngth		1.0003 I	lb/ft
Allowable Shear Force In Web ((Unpunched)		622.38	lb
Torsional Properties				
Dist. from Shear Center to Neut	tral Axis (Xo)		-0.5165	in
St. Venant torsion Constant (J x	(1000)		0.1173 i	in^4
Warping Constant (Cw)			0.2377 i	in^6
Radii of Gyration (Ro)			2.2891 i	in^6
Torsional Flexural Constant (Be	eta)		0.9491	

Location (1) and (6) are tip of compression and tension lip respectively

Location (2) and (5) are flange/lip corner of compression and tension side respectively

[•] Properties based upon the AISI S100-16 - North American Specification for the Design of CFS Structural Members incl. Supplement 1 (S100-16/S1-18)

[•] Effective properties include the strength increase from cold forming



Product Name : PHYSICAL PROPERTIES :	600T125-43 (33 ksi)	Track (G60)		
Web Height =	6.1614 in	Steel Thickness =	0.0451 in	
Top Flange =	1.2500 in	Inside Corner Radius =	0.0712 in	
Bottom Flange =	1.2500 in	Yield Stress, Fy =	33.0000 ksi	
Fy With Cold-Work, Fya =	33.0000 ksi	, ,		
Effective Section Propertie	es, Strong Axis			
Neutral Axis from Top Fiber (Yo	;g)		3.4121 ii	n
Moment of Inertia for Deflection	(lxx)		1.7680 ii	n^4
Section Modulus (Sxx)			0.4612 i	n^3
Allowable Bending Moment (Ma	a)		759.40 f	t-lb
Gross Section Properties	of Full Section, Strong Axis			
Neutral Axis from Top Fiber (Yo	eg)		3.0807 ii	n
Moment of Inertia (Ixxg)			1.8611 i	n^4
Section modules (Sxxg)			0.6041 i	n^3
Cross Sectional Area (Ag)			0.3829 i	n^2
Radius of Gyration (Rxg)			2.2046 ii	n
Section Properties, Weak	Axis			
Gross Neutral Axis (Xcg) From	Web Face		0.2001 ii	n
Gross Moment of Inertia (Iyy)			0.0435 i	n^4
Radius of Gyration (Ry)			0.3371 i	n
Other Section Property Da	ta			
Member Weight per Foot of Ler	ngth		1.3030	b/ft
Allowable Shear Force In Web	(Unpunched)		1377.13	lb
Torsional Properties				
Dist. from Shear Center to Neut	tral Axis (Xo)		-0.5129	in
St. Venant torsion Constant (J >	x 1000)		0.2596 i	n^4
Warping Constant (Cw)			0.3069 ii	n^6
Radii of Gyration (Ro)			2.2884 i	n^6
Torsional Flexural Constant (Be	eta)		0.9498	

Location (1) and (6) are tip of compression and tension lip respectively

Location (2) and (5) are flange/lip corner of compression and tension side respectively

[•] Properties based upon the AISI S100-16 - North American Specification for the Design of CFS Structural Members incl. Supplement 1 (S100-16/S1-18)

[•] Effective properties include the strength increase from cold forming



Product Name :	600T125-54 (50 ksi) Track (G60)		
PHYSICAL PROPERTIES:	•	•		
Web Height =	6.1981 in	Steel Thickness =	0.0566 in	
Top Flange =	1.2500 in	Inside Corner Radius =	0.0849 in	
Bottom Flange =	1.2500 in	Yield Stress, Fy =	50.0000 ksi	
Fy With Cold-Work, Fya =	50.0000 ksi			
Effective Section Propertie	es, Strong Axis			
Neutral Axis from Top Fiber (Ycg	g)			3.4000 in
Moment of Inertia for Deflection	(lxx)			2.2409 in^4
Section Modulus (Sxx)				0.5923 in^3
Allowable Bending Moment (Ma))			1477.90 ft-lb
Gross Section Properties of	of Full Section, Strong Axis			
Neutral Axis from Top Fiber (Yog	g)			3.0991 in
Moment of Inertia (Ixxg)				2.3442 in^4
Section modules (Sxxg)				0.7564 in^3
Cross Sectional Area (Ag)				0.4804 in^2
Radius of Gyration (Rxg)				2.2090 in
Section Properties, Weak A	Axis			
Gross Neutral Axis (Xcg) From V	Web Face			0.2044 in
Gross Moment of Inertia (lyy)				0.0539 in^4
Radius of Gyration (Ry)				0.3349 in
Other Section Property Dat	ta			
Member Weight per Foot of Len	gth			1.6347 lb/ft
Allowable Shear Force In Web (Unpunched)			2728.34 lb
Torsional Properties				
Dist. from Shear Center to Neutr	ral Axis (Xo)			-0.5084 in
St. Venant torsion Constant (J x	1000)			0.5130 in^4
Warping Constant (Cw)				0.3840 in^6
Radii of Gyration (Ro)				2.2913 in^6
Torsional Flexural Constant (Bet	ta)			0.9508

Location (1) and (6) are tip of compression and tension lip respectively

Location (2) and (5) are flange/lip corner of compression and tension side respectively

[•] Properties based upon the AISI S100-16 - North American Specification for the Design of CFS Structural Members incl. Supplement 1 (S100-16/S1-18)

 $[\]bullet$ Effective properties include the strength increase from cold forming



Product Name :	600T150-33 (33 ksi)	Track (G60)		
PHYSICAL PROPERTIES :				
Web Height =	6.1457 in	Steel Thickness =	0.0346 in	
Top Flange =	1.5000 in	Inside Corner Radius =	0.0765 in	
Bottom Flange =	1.5000 in	Yield Stress, Fy =	33.0000 ksi	
Fy With Cold-Work, Fya =	33.0000 ksi			
Effective Section Properties,	Strong Axis			
Neutral Axis from Top Fiber (Ycg)				3.7371 in
Moment of Inertia for Deflection (Ix	x)			1.3343 in^4
Section Modulus (Sxx)				0.3029 in^3
Allowable Bending Moment (Ma)				498.79 ft-lb
Gross Section Properties of I	Full Section, Strong Axis			
Neutral Axis from Top Fiber (Ycg)				3.0728 in
Moment of Inertia (Ixxg)				1.5897 in^4
Section modules (Sxxg)				0.5173 in^3
Cross Sectional Area (Ag)				0.3113 in^2
Radius of Gyration (Rxg)				2.2599 in
Section Properties, Weak Axi	S			
Gross Neutral Axis (Xcg) From We	b Face			0.2618 in
Gross Moment of Inertia (Iyy)				0.0566 in^4
Radius of Gyration (Ry)				0.4263 in
Other Section Property Data				
Member Weight per Foot of Length				1.0592 lb/ft
Allowable Shear Force In Web (Un	punched)			622.38 lb
Torsional Properties				
Dist. from Shear Center to Neutral	Axis (Xo)			-0.6840 in
St. Venant torsion Constant (J x 10	00)			0.1242 in^4
Warping Constant (Cw)				0.3899 in^6
Radii of Gyration (Ro)				2.3993 in^6
Torsional Flexural Constant (Beta)				0.9187

Location (1) and (6) are tip of compression and tension lip respectively

Location (2) and (5) are flange/lip corner of compression and tension side respectively

[•] Properties based upon the AISI S100-16 - North American Specification for the Design of CFS Structural Members incl. Supplement 1 (S100-16/S1-18)

 $[\]bullet$ Effective properties include the strength increase from cold forming



Product Name : PHYSICAL PROPERTIES :	600T150-43 (33 ksi)	Track (G60)		
Web Height =	6.1614 in	Steel Thickness =	0.0451 in	—
Top Flange =	1.5000 in	Inside Corner Radius =	0.0712 in	
Bottom Flange =	1.5000 in	Yield Stress, Fy =	33.0000 ksi	
Fy With Cold-Work, Fya =	33.0000 ksi	, ,		
Effective Section Propertie	es, Strong Axis			
Neutral Axis from Top Fiber (Yo	;g)		3.5062 ir	1
Moment of Inertia for Deflection	(lxx)		1.8897 ir	۱^4
Section Modulus (Sxx)			0.4736 ir	۱^3
Allowable Bending Moment (Ma	a)		779.85 ft	-lb
Gross Section Properties	of Full Section, Strong Axis			
Neutral Axis from Top Fiber (Yo	eg)		3.0807 ir	1
Moment of Inertia (Ixxg)			2.0720 ir	ւ^4
Section modules (Sxxg)			0.6726 ir	۱^3
Cross Sectional Area (Ag)			0.4055 ir	ւ^2
Radius of Gyration (Rxg)			2.2605 ir	1
Section Properties, Weak	Axis			
Gross Neutral Axis (Xcg) From	Web Face		0.2655 ir	1
Gross Moment of Inertia (lyy)			0.0730 ir	ւ^4
Radius of Gyration (Ry)			0.4244 ir	1
Other Section Property Da	ta			
Member Weight per Foot of Ler	ngth		1.3798 lb)/ft
Allowable Shear Force In Web	(Unpunched)		1377.13	lb
Torsional Properties				
Dist. from Shear Center to Neut	tral Axis (Xo)		-0.6801 i	n
St. Venant torsion Constant (J >	x 1000)		0.2749 ir	ւ^4
Warping Constant (Cw)			0.5044 ir	ւ^6
Radii of Gyration (Ro)			2.3984 ir	ւ^6
Torsional Flexural Constant (Be	eta)		0.9196	

Location (1) and (6) are tip of compression and tension lip respectively

Location (2) and (5) are flange/lip corner of compression and tension side respectively

[•] Properties based upon the AISI S100-16 - North American Specification for the Design of CFS Structural Members incl. Supplement 1 (S100-16/S1-18)

 $[\]bullet$ Effective properties include the strength increase from cold forming



Product Name : PHYSICAL PROPERTIES :	600T150-54 (50 ksi)) Track (G60)	
Web Height =	6.1981 in	Steel Thickness =	0.0566 in
Top Flange =	1.5000 in	Inside Corner Radius =	0.0849 in
Bottom Flange =	1.5000 in	Yield Stress, Fy =	50.0000 ksi
Fy With Cold-Work, Fya =	50.0000 ksi	, , , , , , , , , , , , , , , , , , ,	
Effective Section Propertie	es, Strong Axis		
Neutral Axis from Top Fiber (Yo	g)		3.4931 in
Moment of Inertia for Deflection	(lxx)		2.4004 in^2
Section Modulus (Sxx)			0.6091 in^3
Allowable Bending Moment (Ma	n)		1519.75 ft-
Gross Section Properties	of Full Section, Strong Axis		
Neutral Axis from Top Fiber (Yo	g)		3.0991 in
Moment of Inertia (Ixxg)			2.6110 in^2
Section modules (Sxxg)			0.8425 in^3
Cross Sectional Area (Ag)			0.5087 in^2
Radius of Gyration (Rxg)			2.2655 in
Section Properties, Weak	Axis		
Gross Neutral Axis (Xcg) From	Web Face		0.2695 in
Gross Moment of Inertia (Iyy)			0.0907 in^4
Radius of Gyration (Ry)			0.4222 in
Other Section Property Da	ta		
Member Weight per Foot of Ler	ngth		1.7310 lb/ft
Allowable Shear Force In Web ((Unpunched)		2728.34 lb
Torsional Properties			
Dist. from Shear Center to Neut	ral Axis (Xo)		-0.6752 in
St. Venant torsion Constant (J x	(1000)		0.5432 in^2
Warping Constant (Cw)			0.6325 in^6
Radii of Gyration (Ro)			2.4014 in^6
Torsional Flexural Constant (Be	ta)		0.9209

Location (1) and (6) are tip of compression and tension lip respectively

Location (2) and (5) are flange/lip corner of compression and tension side respectively

[•] Properties based upon the AISI S100-16 - North American Specification for the Design of CFS Structural Members incl. Supplement 1 (S100-16/S1-18)

[•] Effective properties include the strength increase from cold forming



Product Name : PHYSICAL PROPERTIES :	800T100-33 (33 ksi)	Track (G60)		
Web Height =	8.1457 in	Steel Thickness =	0.0346 in	
Top Flange =	1.0000 in	Inside Corner Radius =	0.0765 in	
Bottom Flange =	1.0000 in	Yield Stress, Fy =	33.0000 ksi	
Fy With Cold-Work, Fya =	33.0000 ksi			
Effective Section Propertie	es, Strong Axis			
Neutral Axis from Top Fiber (Yc	g)			4.8979 in
Moment of Inertia for Deflection	(lxx)			2.2947 in^4
Section Modulus (Sxx)				0.3965 in^3
Allowable Bending Moment (Ma)			652.99 ft-lb
Gross Section Properties	of Full Section, Strong Axis			
Neutral Axis from Top Fiber (Yc	g)			4.0728 in
Moment of Inertia (Ixxg)				2.6109 in^4
Section modules (Sxxg)				0.6411 in^3
Cross Sectional Area (Ag)				0.3459 in^2
Radius of Gyration (Rxg)				2.7475 in
Section Properties, Weak	Axis			
Gross Neutral Axis (Xcg) From	Web Face			0.1140 in
Gross Moment of Inertia (Iyy)				0.0186 in^4
Radius of Gyration (Ry)				0.2322 in
Other Section Property Da	ta			
Member Weight per Foot of Len	gth			1.1769 lb/ft
Allowable Shear Force In Web ((Unpunched)			465.29 lb
Torsional Properties				
Dist. from Shear Center to Neut	ral Axis (Xo)			-0.3036 in
St. Venant torsion Constant (J x	(1000)			0.1380 in^4
Warping Constant (Cw)				0.2464 in^6
Radii of Gyration (Ro)				2.7740 in^6
Torsional Flexural Constant (Be	ta)			0.9880

Location (1) and (6) are tip of compression and tension lip respectively

Location (2) and (5) are flange/lip corner of compression and tension side respectively

- Properties based upon the AISI S100-16 North American Specification for the Design of CFS Structural Members incl. Supplement 1 (S100-16/S1-18)
- Effective properties include the strength increase from cold forming

^{***} WEB DEPTH-TO-THICKNESS = 229 > 200 ***



Product Name :	800T100-43 (33 ksi)	Track (G60)		
PHYSICAL PROPERTIES:				
Web Height =	8.1614 in	Steel Thickness =	0.0451 in	
Top Flange =	1.0000 in	Inside Corner Radius =	0.0712 in	
Bottom Flange =	1.0000 in	Yield Stress, Fy =	33.0000 ksi	
Fy With Cold-Work, Fya =	33.0000 ksi			
Effective Section Propertie	es, Strong Axis			
Neutral Axis from Top Fiber (Yo	g)			4.6030 in
Moment of Inertia for Deflection	(lxx)			3.2470 in^4
Section Modulus (Sxx)				0.6196 in^3
Allowable Bending Moment (Ma)			1020.37 ft-lb
Gross Section Properties	of Full Section, Strong Axis			
Neutral Axis from Top Fiber (Yo	g)			4.0807 in
Moment of Inertia (Ixxg)				3.4012 in^4
Section modules (Sxxg)				0.8335 in^3
Cross Sectional Area (Ag)				0.4506 in^2
Radius of Gyration (Rxg)				2.7474 in
Section Properties, Weak	Axis			
Gross Neutral Axis (Xcg) From	Web Face			0.1183 in
Gross Moment of Inertia (Iyy)				0.0239 in^4
Radius of Gyration (Ry)				0.2305 in
Other Section Property Da	ta			
Member Weight per Foot of Ler	ngth			1.5332 lb/ft
Allowable Shear Force In Web ((Unpunched)			1029.75 lb
Torsional Properties				
Dist. from Shear Center to Neut	ral Axis (Xo)			-0.3008 in
St. Venant torsion Constant (J x	(1000)			0.3055 in^4
Warping Constant (Cw)				0.3169 in^6
Radii of Gyration (Ro)				2.7734 in^6
Torsional Flexural Constant (Be	ta)			0.9882

Location (1) and (6) are tip of compression and tension lip respectively

Location (2) and (5) are flange/lip corner of compression and tension side respectively

[•] Properties based upon the AISI S100-16 - North American Specification for the Design of CFS Structural Members incl. Supplement 1 (S100-16/S1-18)

[•] Effective properties include the strength increase from cold forming



Product Name :	800T100-54 (50 ksi) Track (G60)		
PHYSICAL PROPERTIES:	•			
Web Height =	8.1981 in	Steel Thickness =	0.0566 in	
Top Flange =	1.0000 in	Inside Corner Radius =	0.0849 in	
Bottom Flange =	1.0000 in	Yield Stress, Fy =	50.0000 ksi	
Fy With Cold-Work, Fya =	50.0000 ksi			
Effective Section Propertie	es, Strong Axis			
Neutral Axis from Top Fiber (Yco	g)			4.5819 in
Moment of Inertia for Deflection	(lxx)			4.1183 in^4
Section Modulus (Sxx)				0.7958 in^3
Allowable Bending Moment (Ma))			1985.43 ft-lb
Gross Section Properties o	of Full Section, Strong Axis			
Neutral Axis from Top Fiber (Yog	g)			4.0991 in
Moment of Inertia (Ixxg)				4.2761 in^4
Section modules (Sxxg)				1.0432 in^3
Cross Sectional Area (Ag)				0.5653 in^2
Radius of Gyration (Rxg)				2.7503 in
Section Properties, Weak A	Axis			
Gross Neutral Axis (Xcg) From V	Web Face			0.1230 in
Gross Moment of Inertia (lyy)				0.0295 in^4
Radius of Gyration (Ry)				0.2285 in
Other Section Property Dat	ta			
Member Weight per Foot of Len	gth			1.9236 lb/ft
Allowable Shear Force In Web (Unpunched)			2038.94 lb
Torsional Properties				
Dist. from Shear Center to Neutr	ral Axis (Xo)			-0.2975 in
St. Venant torsion Constant (J x	1000)			0.6037 in^4
Warping Constant (Cw)				0.3941 in^6
Radii of Gyration (Ro)				2.7758 in^6
Torsional Flexural Constant (Bet	ta)			0.9885

Location (1) and (6) are tip of compression and tension lip respectively

Location (2) and (5) are flange/lip corner of compression and tension side respectively

[•] Properties based upon the AISI S100-16 - North American Specification for the Design of CFS Structural Members incl. Supplement 1 (S100-16/S1-18)

 $[\]bullet$ Effective properties include the strength increase from cold forming



Product Name : PHYSICAL PROPERTIES :	800T125-33 (33 ksi)	Track (G60)	
Web Height =	8.1457 in	Steel Thickness =	0.0346 in
Top Flange =	1.2500 in	Inside Corner Radius =	0.0765 in
Bottom Flange =	1.2500 in	Yield Stress, Fy =	33.0000 ksi
Fy With Cold-Work, Fya =	33.0000 ksi		
Effective Section Propertie	es, Strong Axis		
Neutral Axis from Top Fiber (Yo	g)		5.0151 in
Moment of Inertia for Deflection	(lxx)		2.4412 in^4
Section Modulus (Sxx)			0.4066 in^3
Allowable Bending Moment (Ma)		669.49 ft-lb
Gross Section Properties	of Full Section, Strong Axis		
Neutral Axis from Top Fiber (Yo	g)		4.0728 in
Moment of Inertia (Ixxg)			2.8955 in^4
Section modules (Sxxg)			0.7109 in^3
Cross Sectional Area (Ag)			0.3632 in^2
Radius of Gyration (Rxg)			2.8236 in
Section Properties, Weak	Axis		
Gross Neutral Axis (Xcg) From	Web Face		0.1622 in
Gross Moment of Inertia (Iyy)			0.0356 in^4
Radius of Gyration (Ry)			0.3130 in
Other Section Property Da	ta		
Member Weight per Foot of Ler	ngth		1.2358 lb/ft
Allowable Shear Force In Web ((Unpunched)		465.29 lb
Torsional Properties			
Dist. from Shear Center to Neut	ral Axis (Xo)		-0.4389 in
St. Venant torsion Constant (J x	(1000)		0.1449 in^4
Warping Constant (Cw)			0.4564 in^6
Radii of Gyration (Ro)			2.8746 in^6
Torsional Flexural Constant (Be	ta)		0.9767

Location (1) and (6) are tip of compression and tension lip respectively

Location (2) and (5) are flange/lip corner of compression and tension side respectively

- Properties based upon the AISI S100-16 North American Specification for the Design of CFS Structural Members incl. Supplement 1 (S100-16/S1-18)
- Effective properties include the strength increase from cold forming

^{***} WEB DEPTH-TO-THICKNESS = 229 > 200 ***



Product Name :	800T125-43 (33 ksi	i) Track (G60)		
PHYSICAL PROPERTIES:	•			
Web Height =	8.1614 in	Steel Thickness =	0.0451 in	
Top Flange =	1.2500 in	Inside Corner Radius =	0.0712 in	
Bottom Flange =	1.2500 in	Yield Stress, Fy =	33.0000 ksi	
Fy With Cold-Work, Fya =	33.0000 ksi			
Effective Section Properties	s, Strong Axis			
Neutral Axis from Top Fiber (Ycg)			4.7076 in
Moment of Inertia for Deflection ((lxx)			3.4838 in^4
Section Modulus (Sxx)				0.6403 in^3
Allowable Bending Moment (Ma)				1054.33 ft-lb
Gross Section Properties o	f Full Section, Strong Axis			
Neutral Axis from Top Fiber (Ycg)			4.0807 in
Moment of Inertia (Ixxg)				3.7725 in^4
Section modules (Sxxg)				0.9245 in^3
Cross Sectional Area (Ag)				0.4731 in^2
Radius of Gyration (Rxg)				2.8237 in
Section Properties, Weak A	xis			
Gross Neutral Axis (Xcg) From V	Veb Face			0.1663 in
Gross Moment of Inertia (lyy)				0.0458 in^4
Radius of Gyration (Ry)				0.3112 in
Other Section Property Data	a			
Member Weight per Foot of Leng	ŋth			1.6100 lb/ft
Allowable Shear Force In Web (U	Jnpunched)			1029.75 lb
Torsional Properties				
Dist. from Shear Center to Neutra	al Axis (Xo)			-0.4357 in
St. Venant torsion Constant (J x	1000)			0.3208 in^4
Warping Constant (Cw)				0.5890 in^6
Radii of Gyration (Ro)				2.8741 in^6
Torsional Flexural Constant (Beta	a)			0.9770

Location (1) and (6) are tip of compression and tension lip respectively

Location (2) and (5) are flange/lip corner of compression and tension side respectively

[•] Properties based upon the AISI S100-16 - North American Specification for the Design of CFS Structural Members incl. Supplement 1 (S100-16/S1-18)

[•] Effective properties include the strength increase from cold forming



Product Name : PHYSICAL PROPERTIES :	800T125-54 (50 ksi) Track (G60)	
Web Height =	8.1981 in	Steel Thickness =	0.0566 in
Top Flange =	1.2500 in	Inside Corner Radius =	0.0849 in
Bottom Flange =	1.2500 in	Yield Stress, Fy =	50.0000 ksi
Fy With Cold-Work, Fya =	50.0000 ksi	riold Guess, r y	00.0000 Kgi
Effective Section Propertie	es, Strong Axis		
Neutral Axis from Top Fiber (Yo	:g)		4.6844 in
Moment of Inertia for Deflection	(lxx)		4.4257 in^4
Section Modulus (Sxx)			0.8237 in^3
Allowable Bending Moment (Ma	1)		2055.18 ft-lb
Gross Section Properties	of Full Section, Strong Axis		
Neutral Axis from Top Fiber (Yo	:g)		4.0991 in
Moment of Inertia (Ixxg)			4.7451 in^4
Section modules (Sxxg)			1.1576 in^3
Cross Sectional Area (Ag)			0.5936 in^2
Radius of Gyration (Rxg)			2.8273 in
Section Properties, Weak	Axis		
Gross Neutral Axis (Xcg) From	Web Face		0.1708 in
Gross Moment of Inertia (Iyy)			0.0567 in^4
Radius of Gyration (Ry)			0.3091 in
Other Section Property Da	ta		
Member Weight per Foot of Ler	ngth		2.0199 lb/ft
Allowable Shear Force In Web ((Unpunched)		2038.94 lb
Torsional Properties			
Dist. from Shear Center to Neut	tral Axis (Xo)		-0.4319 in
St. Venant torsion Constant (J x	c 1000)		0.6339 in^4
Warping Constant (Cw)			0.7350 in^6
Radii of Gyration (Ro)			2.8768 in^6
Torsional Flexural Constant (Be	eta)		0.9775

Location (1) and (6) are tip of compression and tension lip respectively

Location (2) and (5) are flange/lip corner of compression and tension side respectively

[•] Properties based upon the AISI S100-16 - North American Specification for the Design of CFS Structural Members incl. Supplement 1 (S100-16/S1-18)

 $[\]bullet$ Effective properties include the strength increase from cold forming



Product Name : PHYSICAL PROPERTIES :	800T150-33 (33 ksi)) Track (G60)	
Web Height =	8.1457 in	Steel Thickness =	0.0346 in
Top Flange =	1.5000 in	Inside Corner Radius =	0.0765 in
Bottom Flange =	1.5000 in	Yield Stress, Fy =	33.0000 ksi
Fy With Cold-Work, Fya =	33.0000 ksi	, , , , , , , , , , , , , , , , , , ,	
Effective Section Propertie	es, Strong Axis		
Neutral Axis from Top Fiber (Yo	·g)		5.1308 in
Moment of Inertia for Deflection	(lxx)		2.5688 in^
Section Modulus (Sxx)			0.4138 in^
Allowable Bending Moment (Ma	a)		681.40 ft-II
Gross Section Properties	of Full Section, Strong Axis		
Neutral Axis from Top Fiber (Yo	eg)		4.0728 in
Moment of Inertia (Ixxg)			3.1800 in^
Section modules (Sxxg)			0.7808 in^
Cross Sectional Area (Ag)			0.3805 in^
Radius of Gyration (Rxg)			2.8911 in
Section Properties, Weak	Axis		
Gross Neutral Axis (Xcg) From	Web Face		0.2173 in
Gross Moment of Inertia (lyy)			0.0600 in^
Radius of Gyration (Ry)			0.3970 in
Other Section Property Da	ta		
Member Weight per Foot of Ler	ngth		1.2946 lb/f
Allowable Shear Force In Web	(Unpunched)		465.29 lb
Torsional Properties			
Dist. from Shear Center to Neut	tral Axis (Xo)		-0.5878 in
St. Venant torsion Constant (J >	x 1000)		0.1518 in^
Warping Constant (Cw)			0.7515 in^
Radii of Gyration (Ro)			2.9768 in^
Torsional Flexural Constant (Be	eta)		0.9610

Location (1) and (6) are tip of compression and tension lip respectively

Location (2) and (5) are flange/lip corner of compression and tension side respectively

- Properties based upon the AISI S100-16 North American Specification for the Design of CFS Structural Members incl. Supplement 1 (S100-16/S1-18)
- Effective properties include the strength increase from cold forming

^{***} WEB DEPTH-TO-THICKNESS = 229 > 200 ***



Product Name : PHYSICAL PROPERTIES :	800T150-43 (33 ksi)	Track (G60)		
Web Height =	8.1614 in	Steel Thickness =	0.0451 in	
Top Flange =	1.5000 in	Inside Corner Radius =	0.0712 in	
Bottom Flange =	1.5000 in	Yield Stress, Fy =	33.0000 ksi	
Fy With Cold-Work, Fya =	33.0000 ksi	, . ,		
Effective Section Propertie	es, Strong Axis			
Neutral Axis from Top Fiber (Yo	·g)		4.8	147 in
Moment of Inertia for Deflection	(Ixx)		3.6	892 in^4
Section Modulus (Sxx)			0.6	552 in^3
Allowable Bending Moment (Ma	a)		107	78.94 ft-lb
Gross Section Properties	of Full Section, Strong Axis			
Neutral Axis from Top Fiber (Yo	eg)		4.0	807 in
Moment of Inertia (Ixxg)			4.1	439 in^4
Section modules (Sxxg)			1.0	155 in^3
Cross Sectional Area (Ag)			0.4	957 in^2
Radius of Gyration (Rxg)			2.8	914 in
Section Properties, Weak	Axis			
Gross Neutral Axis (Xcg) From	Web Face		0.2	213 in
Gross Moment of Inertia (Iyy)			0.0	774 in^4
Radius of Gyration (Ry)			0.3	951 in
Other Section Property Da	ta			
Member Weight per Foot of Ler	ngth		1.6	867 lb/ft
Allowable Shear Force In Web	(Unpunched)		102	29.75 lb
Torsional Properties				
Dist. from Shear Center to Neut	tral Axis (Xo)		-0.5	5844 in
St. Venant torsion Constant (J >	x 1000)		0.3	361 in^4
Warping Constant (Cw)			0.9	717 in^6
Radii of Gyration (Ro)			2.9	762 in^6
Torsional Flexural Constant (Be	eta)		0.9	614

Location (1) and (6) are tip of compression and tension lip respectively

Location (2) and (5) are flange/lip corner of compression and tension side respectively

[•] Properties based upon the AISI S100-16 - North American Specification for the Design of CFS Structural Members incl. Supplement 1 (S100-16/S1-18)

 $[\]bullet$ Effective properties include the strength increase from cold forming



Product Name : PHYSICAL PROPERTIES :	800T150-54 (50 ksi)	Track (G60)	
Web Height =	8.1981 in	Steel Thickness =	0.0566 in
Top Flange =	1.5000 in	Inside Corner Radius =	0.0849 in
Bottom Flange =	1.5000 in	Yield Stress, Fy =	50.0000 ksi
Fy With Cold-Work, Fya =	50.0000 ksi	riola Gross, i y	00.0000 Kei
Effective Section Propertie	es, Strong Axis		
Neutral Axis from Top Fiber (Yc	g)		4.7904 in
Moment of Inertia for Deflection	(lxx)		4.6923 in^4
Section Modulus (Sxx)			0.8439 in^3
Allowable Bending Moment (Ma)		2105.47 ft-
Gross Section Properties	of Full Section, Strong Axis		
Neutral Axis from Top Fiber (Yc	g)		4.0991 in
Moment of Inertia (Ixxg)			5.2140 in^4
Section modules (Sxxg)			1.2720 in^3
Cross Sectional Area (Ag)			0.6219 in^2
Radius of Gyration (Rxg)			2.8955 in
Section Properties, Weak	Axis		
Gross Neutral Axis (Xcg) From	Web Face		0.2256 in
Gross Moment of Inertia (Iyy)			0.0961 in^4
Radius of Gyration (Ry)			0.3930 in
Other Section Property Da	ta		
Member Weight per Foot of Len	ngth		2.1162 lb/f
Allowable Shear Force In Web ((Unpunched)		2038.94 lb
Torsional Properties			
Dist. from Shear Center to Neut	ral Axis (Xo)		-0.5801 in
St. Venant torsion Constant (J x	(1000)		0.6641 in^4
Warping Constant (Cw)			1.2154 in^6
Radii of Gyration (Ro)			2.9791 in^6
Torsional Flexural Constant (Be	ta)		0.9621

Location (1) and (6) are tip of compression and tension lip respectively

Location (2) and (5) are flange/lip corner of compression and tension side respectively

[•] Properties based upon the AISI S100-16 - North American Specification for the Design of CFS Structural Members incl. Supplement 1 (S100-16/S1-18)

[•] Effective properties include the strength increase from cold forming



Product Name : PHYSICAL PROPERTIES :	250T100-33 (33 ksi)	Track (G90)		
Web Height =	2.6457 in	Steel Thickness =	0.0346 in	
Top Flange =	1.0000 in	Inside Corner Radius =	0.0765 in	
Bottom Flange =	1.0000 in	Yield Stress, Fy =	33.0000 ksi	
Fy With Cold-Work, Fya =	33.0000 ksi			
Effective Section Propertie	es, Strong Axis			
Neutral Axis from Top Fiber (Yc	g)			1.4320 in
Moment of Inertia for Deflection	(lxx)			0.1498 in^4
Section Modulus (Sxx)				0.0979 in^3
Allowable Bending Moment (Ma)			161.21 ft-lb
Gross Section Properties	of Full Section, Strong Axis			
Neutral Axis from Top Fiber (Yc	g)			1.3228 in
Moment of Inertia (Ixxg)				0.1624 in^4
Section modules (Sxxg)				0.1227 in^3
Cross Sectional Area (Ag)				0.1556 in^2
Radius of Gyration (Rxg)				1.0216 in
Section Properties, Weak	Axis			
Gross Neutral Axis (Xcg) From	Web Face			0.2324 in
Gross Moment of Inertia (Iyy)				0.0147 in^4
Radius of Gyration (Ry)				0.3073 in
Other Section Property Da	ta			
Member Weight per Foot of Len	ngth			0.5293 lb/ft
Allowable Shear Force In Web ((Unpunched)			1023.58 lb
Torsional Properties				
Dist. from Shear Center to Neut	ral Axis (Xo)			-0.5556 in
St. Venant torsion Constant (J x	(1000)			0.0621 in^4
Warping Constant (Cw)				0.0179 in^6
Radii of Gyration (Ro)				1.2029 in^6
Torsional Flexural Constant (Be	ta)			0.7866

Location (1) and (6) are tip of compression and tension lip respectively

Location (2) and (5) are flange/lip corner of compression and tension side respectively

[•] Properties based upon the AISI S100-16 - North American Specification for the Design of CFS Structural Members incl. Supplement 1 (S100-16/S1-18)

 $[\]bullet$ Effective properties include the strength increase from cold forming



Product Name : PHYSICAL PROPERTIES :	250T100-43 (33 ksi)	Track (G90)		
Web Height =	2.6614 in	Steel Thickness =	0.0451 in	
Top Flange =	1.0000 in	Inside Corner Radius =	0.0712 in	
Bottom Flange =	1.0000 in	Yield Stress, Fy =	33.0000 ksi	
Fy With Cold-Work, Fya =	33.0000 ksi			
Effective Section Propertie	es, Strong Axis			
Neutral Axis from Top Fiber (Yc	g)		1.3978 i	n
Moment of Inertia for Deflection	(lxx)		0.2065 i	n^4
Section Modulus (Sxx)			0.1388 i	n^3
Allowable Bending Moment (Ma)		228.60 f	t-lb
Gross Section Properties	of Full Section, Strong Axis			
Neutral Axis from Top Fiber (Yc	g)		1.3307 i	n
Moment of Inertia (Ixxg)			0.2118 i	n^4
Section modules (Sxxg)			0.1592 i	n^3
Cross Sectional Area (Ag)			0.2025 i	n^2
Radius of Gyration (Rxg)			1.0227 i	n
Section Properties, Weak	Axis			
Gross Neutral Axis (Xcg) From	Web Face		0.2356 i	n
Gross Moment of Inertia (Iyy)			0.0189 i	n^4
Radius of Gyration (Ry)			0.3053 i	n
Other Section Property Da	ta			
Member Weight per Foot of Len	ngth		0.6892	b/ft
Allowable Shear Force In Web ((Unpunched)		1355.54	lb
Torsional Properties				
Dist. from Shear Center to Neut	ral Axis (Xo)		-0.5510	in
St. Venant torsion Constant (J x	(1000)		0.1373 i	n^4
Warping Constant (Cw)			0.0231 i	n^6
Radii of Gyration (Ro)			1.2011 i	n^6
Torsional Flexural Constant (Be	ta)		0.7896	

Location (1) and (6) are tip of compression and tension lip respectively

Location (2) and (5) are flange/lip corner of compression and tension side respectively

[•] Properties based upon the AISI S100-16 - North American Specification for the Design of CFS Structural Members incl. Supplement 1 (S100-16/S1-18)

[•] Effective properties include the strength increase from cold forming



Product Name : PHYSICAL PROPERTIES :	250T100-54 (50 ksi)	Track (G90)		
Web Height =	2.6981 in	Steel Thickness =	0.0566 in	
Top Flange =	1.0000 in	Inside Corner Radius =	0.0849 in	
Bottom Flange =	1.0000 in	Yield Stress, Fy =	50.0000 ksi	
Fy With Cold-Work, Fya =	50.0000 ksi			
Effective Section Propertie	es, Strong Axis			
Neutral Axis from Top Fiber (Yo	g)			1.4074 in
Moment of Inertia for Deflection	(lxx)			0.2646 in^4
Section Modulus (Sxx)				0.1772 in^3
Allowable Bending Moment (Ma)			442.09 ft-lb
Gross Section Properties	of Full Section, Strong Axis			
Neutral Axis from Top Fiber (Yc	g)			1.3491 in
Moment of Inertia (Ixxg)				0.2689 in^4
Section modules (Sxxg)				0.1993 in^3
Cross Sectional Area (Ag)				0.2540 in^2
Radius of Gyration (Rxg)				1.0290 in
Section Properties, Weak	Axis			
Gross Neutral Axis (Xcg) From	Web Face			0.2391 in
Gross Moment of Inertia (Iyy)				0.0233 in^4
Radius of Gyration (Ry)				0.3029 in
Other Section Property Da	ta			
Member Weight per Foot of Len	gth			0.8643 lb/ft
Allowable Shear Force In Web (Unpunched)			2563.02 lb
Torsional Properties				
Dist. from Shear Center to Neut	ral Axis (Xo)			-0.5452 in
St. Venant torsion Constant (J x	1000)			0.2712 in^4
Warping Constant (Cw)				0.0292 in^6
Radii of Gyration (Ro)				1.2032 in^6
Torsional Flexural Constant (Be	ta)			0.7947

Location (1) and (6) are tip of compression and tension lip respectively

Location (2) and (5) are flange/lip corner of compression and tension side respectively

[•] Properties based upon the AISI S100-16 - North American Specification for the Design of CFS Structural Members incl. Supplement 1 (S100-16/S1-18)

 $[\]bullet$ Effective properties include the strength increase from cold forming



Product Name : PHYSICAL PROPERTIES :	250T125-33 (33 ksi)	Track (G90)		
Web Height =	2.6457 in	Steel Thickness =	0.0346 in	
Top Flange =	1.2500 in	Inside Corner Radius =	0.0765 in	
Bottom Flange =	1.2500 in	Yield Stress, Fy =	33.0000 ksi	
Fy With Cold-Work, Fya =	33.0000 ksi			
Effective Section Propertie	es, Strong Axis			
Neutral Axis from Top Fiber (Yo	g)			1.4924 in
Moment of Inertia for Deflection	(lxx)			0.1657 in^4
Section Modulus (Sxx)				0.1029 in^3
Allowable Bending Moment (Ma)			169.45 ft-lb
Gross Section Properties	of Full Section, Strong Axis			
Neutral Axis from Top Fiber (Yc	g)			1.3228 in
Moment of Inertia (Ixxg)				0.1919 in^4
Section modules (Sxxg)				0.1450 in^3
Cross Sectional Area (Ag)				0.1729 in^2
Radius of Gyration (Rxg)				1.0535 in
Section Properties, Weak	Axis			
Gross Neutral Axis (Xcg) From	Web Face			0.3217 in
Gross Moment of Inertia (Iyy)				0.0272 in^4
Radius of Gyration (Ry)				0.3966 in
Other Section Property Da	ta			
Member Weight per Foot of Len	gth			0.5882 lb/ft
Allowable Shear Force In Web ((Unpunched)			1023.58 lb
Torsional Properties				
Dist. from Shear Center to Neut	ral Axis (Xo)			-0.7599 in
St. Venant torsion Constant (J x	(1000)			0.0690 in^4
Warping Constant (Cw)				0.0328 in^6
Radii of Gyration (Ro)				1.3582 in^6
Torsional Flexural Constant (Be	ta)			0.6869

Location (1) and (6) are tip of compression and tension lip respectively

Location (2) and (5) are flange/lip corner of compression and tension side respectively

[•] Properties based upon the AISI S100-16 - North American Specification for the Design of CFS Structural Members incl. Supplement 1 (S100-16/S1-18)

 $[\]bullet$ Effective properties include the strength increase from cold forming



Product Name :	250T125-43 (33 ksi) Track (G90)		
PHYSICAL PROPERTIES:	•			
Web Height =	2.6614 in	Steel Thickness =	0.0451 in	
Top Flange =	1.2500 in	Inside Corner Radius =	0.0712 in	
Bottom Flange =	1.2500 in	Yield Stress, Fy =	33.0000 ksi	
Fy With Cold-Work, Fya =	33.0000 ksi			
Effective Section Propertie	es, Strong Axis			
Neutral Axis from Top Fiber (Yc	g)			1.4541 in
Moment of Inertia for Deflection	(lxx)			0.2310 in^4
Section Modulus (Sxx)				0.1472 in^3
Allowable Bending Moment (Ma)			242.41 ft-lb
Gross Section Properties o	of Full Section, Strong Axis			
Neutral Axis from Top Fiber (Yc	g)			1.3307 in
Moment of Inertia (Ixxg)				0.2504 in^4
Section modules (Sxxg)				0.1882 in^3
Cross Sectional Area (Ag)				0.2251 in^2
Radius of Gyration (Rxg)				1.0548 in
Section Properties, Weak A	Axis			
Gross Neutral Axis (Xcg) From \	Web Face			0.3247 in
Gross Moment of Inertia (Iyy)				0.0350 in^4
Radius of Gyration (Ry)				0.3946 in
Other Section Property Dat	ta			
Member Weight per Foot of Len	gth			0.7659 lb/ft
Allowable Shear Force In Web (Unpunched)			1355.54 lb
Torsional Properties				
Dist. from Shear Center to Neut	ral Axis (Xo)			-0.7550 in
St. Venant torsion Constant (J x	1000)			0.1526 in^4
Warping Constant (Cw)				0.0425 in^6
Radii of Gyration (Ro)				1.3558 in^6
Torsional Flexural Constant (Bet	ta)			0.6899

Location (1) and (6) are tip of compression and tension lip respectively

Location (2) and (5) are flange/lip corner of compression and tension side respectively

[•] Properties based upon the AISI S100-16 - North American Specification for the Design of CFS Structural Members incl. Supplement 1 (S100-16/S1-18)

[•] Effective properties include the strength increase from cold forming



Product Name :	250T125-54 (50 ksi) Track (G90)		
PHYSICAL PROPERTIES:				
Web Height =	2.6981 in	Steel Thickness =	0.0566 in	
Top Flange =	1.2500 in	Inside Corner Radius =	0.0849 in	
Bottom Flange =	1.2500 in	Yield Stress, Fy =	50.0000 ksi	
Fy With Cold-Work, Fya =	50.0000 ksi			
Effective Section Propertie	es, Strong Axis			
Neutral Axis from Top Fiber (Yc	g)			1.4634 in
Moment of Inertia for Deflection	(lxx)			0.2967 in^4
Section Modulus (Sxx)				0.1884 in^3
Allowable Bending Moment (Ma)			470.02 ft-lb
Gross Section Properties o	of Full Section, Strong Axis			
Neutral Axis from Top Fiber (Yc	g)			1.3491 in
Moment of Inertia (Ixxg)				0.3183 in^4
Section modules (Sxxg)				0.2359 in^3
Cross Sectional Area (Ag)				0.2823 in^2
Radius of Gyration (Rxg)				1.0618 in
Section Properties, Weak A	Axis			
Gross Neutral Axis (Xcg) From \	Web Face			0.3279 in
Gross Moment of Inertia (Iyy)				0.0434 in^4
Radius of Gyration (Ry)				0.3923 in
Other Section Property Dat	ta			
Member Weight per Foot of Len	gth			0.9606 lb/ft
Allowable Shear Force In Web (Unpunched)			2563.02 lb
Torsional Properties				
Dist. from Shear Center to Neutr	ral Axis (Xo)			-0.7486 in
St. Venant torsion Constant (J x	1000)			0.3015 in^4
Warping Constant (Cw)				0.0539 in^6
Radii of Gyration (Ro)				1.3571 in^6
Torsional Flexural Constant (Bet	ta)			0.6957

Location (1) and (6) are tip of compression and tension lip respectively

Location (2) and (5) are flange/lip corner of compression and tension side respectively

[•] Properties based upon the AISI S100-16 - North American Specification for the Design of CFS Structural Members incl. Supplement 1 (S100-16/S1-18)

 $[\]bullet$ Effective properties include the strength increase from cold forming



Product Name : PHYSICAL PROPERTIES :	250T150-33 (33 ksi)	Track (G90)		
Web Height =	2.6457 in	Steel Thickness =	0.0346 in	
Top Flange =	1.5000 in	Inside Corner Radius =	0.0765 in	
Bottom Flange =	1.5000 in	Yield Stress, Fy =	33.0000 ksi	
Fy With Cold-Work, Fya =	33.0000 ksi	·		
Effective Section Propertie	es, Strong Axis			
Neutral Axis from Top Fiber (Yo	g)		1.54	85 in
Moment of Inertia for Deflection	(lxx)		0.17	95 in^4
Section Modulus (Sxx)			0.10	68 in^3
Allowable Bending Moment (Ma	1)		175.	80 ft-lb
Gross Section Properties	of Full Section, Strong Axis			
Neutral Axis from Top Fiber (Yo	g)		1.32	28 in
Moment of Inertia (Ixxg)			0.22	13 in^4
Section modules (Sxxg)			0.16	73 in^3
Cross Sectional Area (Ag)			0.19	02 in^2
Radius of Gyration (Rxg)			1.07	89 in
Section Properties, Weak	Axis			
Gross Neutral Axis (Xcg) From	Web Face		0.41	75 in
Gross Moment of Inertia (Iyy)			0.04	47 in^4
Radius of Gyration (Ry)			0.48	49 in
Other Section Property Da	ta			
Member Weight per Foot of Ler	ngth		0.64	71 lb/ft
Allowable Shear Force In Web ((Unpunched)		1023	3.58 lb
Torsional Properties				
Dist. from Shear Center to Neut	ral Axis (Xo)		-0.97	734 in
St. Venant torsion Constant (J x	(1000)		0.07	59 in^4
Warping Constant (Cw)			0.05	38 in^6
Radii of Gyration (Ro)			1.53	18 in^6
Torsional Flexural Constant (Be	ita)		0.59	62

Location (1) and (6) are tip of compression and tension lip respectively

Location (2) and (5) are flange/lip corner of compression and tension side respectively

[•] Properties based upon the AISI S100-16 - North American Specification for the Design of CFS Structural Members incl. Supplement 1 (S100-16/S1-18)

[•] Effective properties include the strength increase from cold forming



Product Name :	250T150-43 (33 ksi)) Track (G90)		
PHYSICAL PROPERTIES:				
Web Height =	2.6614 in	Steel Thickness =	0.0451 in	
Top Flange =	1.5000 in	Inside Corner Radius =	0.0712 in	
Bottom Flange =	1.5000 in	Yield Stress, Fy =	33.0000 ksi	
Fy With Cold-Work, Fya =	33.0000 ksi			
Effective Section Propertie	es, Strong Axis			
Neutral Axis from Top Fiber (Yo	eg)		1.508	0 in
Moment of Inertia for Deflection	(Ixx)		0.252	2 in^4
Section Modulus (Sxx)			0.153	5 in^3
Allowable Bending Moment (Ma	a)		252.8	3 ft-lb
Gross Section Properties	of Full Section, Strong Axis			
Neutral Axis from Top Fiber (Yo	eg)		1.330	7 in
Moment of Inertia (Ixxg)			0.289	0 in^4
Section modules (Sxxg)			0.217	2 in^3
Cross Sectional Area (Ag)			0.247	6 in^2
Radius of Gyration (Rxg)			1.080	3 in
Section Properties, Weak	Axis			
Gross Neutral Axis (Xcg) From	Web Face		0.420	3 in
Gross Moment of Inertia (lyy)			0.057	8 in^4
Radius of Gyration (Ry)			0.483	0 in
Other Section Property Da	ta			
Member Weight per Foot of Ler	ngth		0.842	6 lb/ft
Allowable Shear Force In Web	(Unpunched)		1355.	54 lb
Torsional Properties				
Dist. from Shear Center to Neut	tral Axis (Xo)		-0.968	32 in
St. Venant torsion Constant (J >	x 1000)		0.167	9 in^4
Warping Constant (Cw)			0.069	8 in^6
Radii of Gyration (Ro)			1.528	9 in^6
Torsional Flexural Constant (Be	eta)		0.599	0

Location (1) and (6) are tip of compression and tension lip respectively

Location (2) and (5) are flange/lip corner of compression and tension side respectively

[•] Properties based upon the AISI S100-16 - North American Specification for the Design of CFS Structural Members incl. Supplement 1 (S100-16/S1-18)

 $[\]bullet$ Effective properties include the strength increase from cold forming



Product Name :	250T150-54 (50 ksi)	Track (G90)		
PHYSICAL PROPERTIES:				
Web Height =	2.6981 in	Steel Thickness =	0.0566 in	
Top Flange =	1.5000 in	Inside Corner Radius =	0.0849 in	
Bottom Flange =	1.5000 in	Yield Stress, Fy =	50.0000 ksi	
Fy With Cold-Work, Fya =	50.0000 ksi			
Effective Section Properties,	Strong Axis			
Neutral Axis from Top Fiber (Ycg)				1.5174 in
Moment of Inertia for Deflection (Ix	x)			0.3245 in^4
Section Modulus (Sxx)				0.1968 in^3
Allowable Bending Moment (Ma)				490.95 ft-lb
Gross Section Properties of I	Full Section, Strong Axis			
Neutral Axis from Top Fiber (Ycg)				1.3491 in
Moment of Inertia (Ixxg)				0.3677 in^4
Section modules (Sxxg)				0.2725 in^3
Cross Sectional Area (Ag)				0.3106 in^2
Radius of Gyration (Rxg)				1.0880 in
Section Properties, Weak Axi	is			
Gross Neutral Axis (Xcg) From We	b Face			0.4233 in
Gross Moment of Inertia (Iyy)				0.0718 in^4
Radius of Gyration (Ry)				0.4808 in
Other Section Property Data				
Member Weight per Foot of Length	1			1.0569 lb/ft
Allowable Shear Force In Web (Un	punched)			2563.02 lb
Torsional Properties				
Dist. from Shear Center to Neutral	Axis (Xo)			-0.9614 in
St. Venant torsion Constant (J x 10	000)			0.3317 in^4
Warping Constant (Cw)				0.0887 in^6
Radii of Gyration (Ro)				1.5294 in^6
Torsional Flexural Constant (Beta)				0.6048

Location (1) and (6) are tip of compression and tension lip respectively

Location (2) and (5) are flange/lip corner of compression and tension side respectively

[•] Properties based upon the AISI S100-16 - North American Specification for the Design of CFS Structural Members incl. Supplement 1 (S100-16/S1-18)

[•] Effective properties include the strength increase from cold forming



Product Name : PHYSICAL PROPERTIES :	362T100-33 (33 ksi)	Track (G90)		
Web Height =	3.7707 in	Steel Thickness =	0.0346 in	
Top Flange =	1.0000 in	Inside Corner Radius =	0.0765 in	
Bottom Flange =	1.0000 in	Yield Stress, Fy =	33.0000 ksi	
Fy With Cold-Work, Fya =	33.0000 ksi			
Effective Section Propertie	es, Strong Axis			
Neutral Axis from Top Fiber (Yo	g)			2.0082 in
Moment of Inertia for Deflection	(lxx)			0.3517 in^4
Section Modulus (Sxx)				0.1659 in^3
Allowable Bending Moment (Ma)			273.15 ft-lb
Gross Section Properties	of Full Section, Strong Axis			
Neutral Axis from Top Fiber (Yo	g)			1.8853 in
Moment of Inertia (Ixxg)				0.3778 in^4
Section modules (Sxxg)				0.2004 in^3
Cross Sectional Area (Ag)				0.1945 in^2
Radius of Gyration (Rxg)				1.3937 in
Section Properties, Weak	Axis			
Gross Neutral Axis (Xcg) From	Web Face			0.1893 in
Gross Moment of Inertia (Iyy)				0.0161 in^4
Radius of Gyration (Ry)				0.2880 in
Other Section Property Da	ta			
Member Weight per Foot of Len	gth			0.6618 lb/ft
Allowable Shear Force In Web ((Unpunched)			1023.58 lb
Torsional Properties				
Dist. from Shear Center to Neut	ral Axis (Xo)			-0.4728 in
St. Venant torsion Constant (J x	(1000)			0.0776 in^4
Warping Constant (Cw)				0.0413 in^6
Radii of Gyration (Ro)				1.4996 in^6
Torsional Flexural Constant (Be	ta)			0.9006

Location (1) and (6) are tip of compression and tension lip respectively

Location (2) and (5) are flange/lip corner of compression and tension side respectively

[•] Properties based upon the AISI S100-16 - North American Specification for the Design of CFS Structural Members incl. Supplement 1 (S100-16/S1-18)

[•] Effective properties include the strength increase from cold forming



Product Name :	362T100-43 (33 ksi)) Track (G90)		
PHYSICAL PROPERTIES :				
Web Height =	3.7864 in	Steel Thickness =	0.0451 in	
Top Flange =	1.0000 in	Inside Corner Radius =	0.0712 in	
Bottom Flange =	1.0000 in	Yield Stress, Fy =	33.0000 ksi	
Fy With Cold-Work, Fya =	33.0000 ksi			
Effective Section Propertie	es, Strong Axis			
Neutral Axis from Top Fiber (Yo	eg)			1.9691 in
Moment of Inertia for Deflection	ı (lxx)			0.4810 in^4
Section Modulus (Sxx)				0.2318 in^3
Allowable Bending Moment (Ma	a)			381.71 ft-lb
Gross Section Properties	of Full Section, Strong Axis			
Neutral Axis from Top Fiber (Yo	eg)			1.8932 in
Moment of Inertia (Ixxg)				0.4924 in^4
Section modules (Sxxg)				0.2601 in^3
Cross Sectional Area (Ag)				0.2533 in^2
Radius of Gyration (Rxg)				1.3944 in
Section Properties, Weak	Axis			
Gross Neutral Axis (Xcg) From	Web Face			0.1929 in
Gross Moment of Inertia (Iyy)				0.0207 in^4
Radius of Gyration (Ry)				0.2860 in
Other Section Property Da	ıta			
Member Weight per Foot of Ler	ngth			0.8618 lb/ft
Allowable Shear Force In Web	(Unpunched)			1739.09 lb
Torsional Properties				
Dist. from Shear Center to Neur	tral Axis (Xo)			-0.4687 in
St. Venant torsion Constant (J	x 1000)			0.1717 in^4
Warping Constant (Cw)				0.0533 in^6
Radii of Gyration (Ro)				1.4986 in^6
Torsional Flexural Constant (Be	eta)			0.9022

Location (1) and (6) are tip of compression and tension lip respectively

Location (2) and (5) are flange/lip corner of compression and tension side respectively

[•] Properties based upon the AISI S100-16 - North American Specification for the Design of CFS Structural Members incl. Supplement 1 (S100-16/S1-18)

[•] Effective properties include the strength increase from cold forming



Product Name :	362T100-54 (50 ksi) Track (G90)		
PHYSICAL PROPERTIES:				
Web Height =	3.8231 in	Steel Thickness =	0.0566 in	
Top Flange =	1.0000 in	Inside Corner Radius =	0.0849 in	
Bottom Flange =	1.0000 in	Yield Stress, Fy =	50.0000 ksi	
Fy With Cold-Work, Fya =	50.0000 ksi			
Effective Section Propertie	s, Strong Axis			
Neutral Axis from Top Fiber (Ycg	g)			1.9774 in
Moment of Inertia for Deflection	(lxx)			0.6126 in^4
Section Modulus (Sxx)				0.2947 in^3
Allowable Bending Moment (Ma))			735.36 ft-lb
Gross Section Properties of	of Full Section, Strong Axis			
Neutral Axis from Top Fiber (Ycg	g)			1.9116 in
Moment of Inertia (Ixxg)				0.6222 in^4
Section modules (Sxxg)				0.3255 in^3
Cross Sectional Area (Ag)				0.3177 in^2
Radius of Gyration (Rxg)				1.3995 in
Section Properties, Weak A	Axis			
Gross Neutral Axis (Xcg) From V	Veb Face			0.1968 in
Gross Moment of Inertia (Iyy)				0.0256 in^4
Radius of Gyration (Ry)				0.2837 in
Other Section Property Dat	a			
Member Weight per Foot of Leng	gth			1.0810 lb/ft
Allowable Shear Force In Web (I	Unpunched)			3371.56 lb
Torsional Properties				
Dist. from Shear Center to Neutr	al Axis (Xo)			-0.4637 in
St. Venant torsion Constant (J x	1000)			0.3392 in^4
Warping Constant (Cw)				0.0668 in^6
Radii of Gyration (Ro)				1.5014 in^6
Torsional Flexural Constant (Bet	a)			0.9046

Location (1) and (6) are tip of compression and tension lip respectively

Location (2) and (5) are flange/lip corner of compression and tension side respectively

[•] Properties based upon the AISI S100-16 - North American Specification for the Design of CFS Structural Members incl. Supplement 1 (S100-16/S1-18)

 $[\]bullet$ Effective properties include the strength increase from cold forming



Product Name :	362T125-33 (33 ksi) Track (G90)		
PHYSICAL PROPERTIES :	•	, ,		
Web Height =	3.7707 in	Steel Thickness =	0.0346 in	
Top Flange =	1.2500 in	Inside Corner Radius =	0.0765 in	
Bottom Flange =	1.2500 in	Yield Stress, Fy =	33.0000 ksi	
Fy With Cold-Work, Fya =	33.0000 ksi			
Effective Section Propertie	es, Strong Axis			
Neutral Axis from Top Fiber (Yo	eg)			2.0788 in
Moment of Inertia for Deflection	ı (lxx)			0.3845 in^4
Section Modulus (Sxx)				0.1739 in^3
Allowable Bending Moment (Ma	a)			286.44 ft-lb
Gross Section Properties	of Full Section, Strong Axis			
Neutral Axis from Top Fiber (Yo	eg)			1.8853 in
Moment of Inertia (Ixxg)				0.4381 in^4
Section modules (Sxxg)				0.2324 in^3
Cross Sectional Area (Ag)				0.2118 in^2
Radius of Gyration (Rxg)				1.4383 in
Section Properties, Weak	Axis			
Gross Neutral Axis (Xcg) From	Web Face			0.2658 in
Gross Moment of Inertia (Iyy)				0.0301 in^4
Radius of Gyration (Ry)				0.3772 in
Other Section Property Da	ıta			
Member Weight per Foot of Ler	ngth			0.7207 lb/ft
Allowable Shear Force In Web	(Unpunched)			1023.58 lb
Torsional Properties				
Dist. from Shear Center to Neur	tral Axis (Xo)			-0.6580 in
St. Venant torsion Constant (J	x 1000)			0.0845 in^4
Warping Constant (Cw)				0.0756 in^6
Radii of Gyration (Ro)				1.6260 in^6
Torsional Flexural Constant (Be	eta)			0.8363

Location (1) and (6) are tip of compression and tension lip respectively

Location (2) and (5) are flange/lip corner of compression and tension side respectively

[•] Properties based upon the AISI S100-16 - North American Specification for the Design of CFS Structural Members incl. Supplement 1 (S100-16/S1-18)

[•] Effective properties include the strength increase from cold forming



Product Name :	362T125-43 (33 ksi	i) Track (G90)		
PHYSICAL PROPERTIES:				
Web Height =	3.7864 in	Steel Thickness =	0.0451 in	
Top Flange =	1.2500 in	Inside Corner Radius =	0.0712 in	
Bottom Flange =	1.2500 in	Yield Stress, Fy =	33.0000 ksi	
Fy With Cold-Work, Fya =	33.0000 ksi			
Effective Section Properties	s, Strong Axis			
Neutral Axis from Top Fiber (Ycg	1)			2.0348 in
Moment of Inertia for Deflection ((lxx)			0.5308 in^4
Section Modulus (Sxx)				0.2449 in^3
Allowable Bending Moment (Ma)				403.25 ft-lb
Gross Section Properties o	f Full Section, Strong Axis			
Neutral Axis from Top Fiber (Ycg	1)			1.8932 in
Moment of Inertia (Ixxg)				0.5713 in^4
Section modules (Sxxg)				0.3018 in^3
Cross Sectional Area (Ag)				0.2758 in^2
Radius of Gyration (Rxg)				1.4392 in
Section Properties, Weak A	xis			
Gross Neutral Axis (Xcg) From V	Veb Face			0.2691 in
Gross Moment of Inertia (Iyy)				0.0388 in^4
Radius of Gyration (Ry)				0.3752 in
Other Section Property Data	a			_
Member Weight per Foot of Leng	gth			0.9386 lb/ft
Allowable Shear Force In Web (U	Jnpunched)			1739.09 lb
Torsional Properties				
Dist. from Shear Center to Neutro	al Axis (Xo)			-0.6535 in
St. Venant torsion Constant (J x	1000)			0.1870 in^4
Warping Constant (Cw)				0.0978 in^6
Radii of Gyration (Ro)				1.6246 in^6
Torsional Flexural Constant (Beta	a)			0.8382

Location (1) and (6) are tip of compression and tension lip respectively

Location (2) and (5) are flange/lip corner of compression and tension side respectively

[•] Properties based upon the AISI S100-16 - North American Specification for the Design of CFS Structural Members incl. Supplement 1 (S100-16/S1-18)

 $[\]bullet$ Effective properties include the strength increase from cold forming



Product Name :	362T125-54 (50 ksi)	Track (G90)	
PHYSICAL PROPERTIES:			
Web Height =	3.8231 in	Steel Thickness =	0.0566 in
Top Flange =	1.2500 in	Inside Corner Radius =	0.0849 in
Bottom Flange =	1.2500 in	Yield Stress, Fy =	50.0000 ksi
Fy With Cold-Work, Fya =	50.0000 ksi		
Effective Section Propertie	es, Strong Axis		
Neutral Axis from Top Fiber (Yo	eg)		2.0425 in
Moment of Inertia for Deflection	(lxx)		0.6777 in^4
Section Modulus (Sxx)			0.3120 in^3
Allowable Bending Moment (Ma	a)		778.52 ft-lb
Gross Section Properties	of Full Section, Strong Axis		
Neutral Axis from Top Fiber (Yo	:g)		1.9116 in
Moment of Inertia (Ixxg)			0.7226 in^4
Section modules (Sxxg)			0.3780 in^3
Cross Sectional Area (Ag)			0.3460 in^2
Radius of Gyration (Rxg)			1.4452 in
Section Properties, Weak	Axis		
Gross Neutral Axis (Xcg) From	Web Face		0.2728 in
Gross Moment of Inertia (lyy)			0.0481 in^4
Radius of Gyration (Ry)			0.3729 in
Other Section Property Da	ta		
Member Weight per Foot of Ler	ngth		1.1773 lb/ft
Allowable Shear Force In Web	(Unpunched)		3371.56 lb
Torsional Properties			
Dist. from Shear Center to Neut	tral Axis (Xo)		-0.6480 in
St. Venant torsion Constant (J >	k 1000)		0.3695 in^4
Warping Constant (Cw)			0.1231 in^6
Radii of Gyration (Ro)			1.6271 in^6
Torsional Flexural Constant (Be	eta)		0.8414

Location (1) and (6) are tip of compression and tension lip respectively

Location (2) and (5) are flange/lip corner of compression and tension side respectively

[•] Properties based upon the AISI S100-16 - North American Specification for the Design of CFS Structural Members incl. Supplement 1 (S100-16/S1-18)

[•] Effective properties include the strength increase from cold forming



Product Name :	362T150-33 (33 ksi)	Track (G90)	
PHYSICAL PROPERTIES:			
Web Height =	3.7707 in	Steel Thickness =	0.0346 in
Top Flange =	1.5000 in	Inside Corner Radius =	0.0765 in
Bottom Flange =	1.5000 in	Yield Stress, Fy =	33.0000 ksi
Fy With Cold-Work, Fya =	33.0000 ksi		
Effective Section Propertie	es, Strong Axis		
Neutral Axis from Top Fiber (Yo	eg)		2.1457 in
Moment of Inertia for Deflection	(lxx)		0.4136 in^4
Section Modulus (Sxx)			0.1804 in^3
Allowable Bending Moment (Ma	a)		297.07 ft-lk
Gross Section Properties	of Full Section, Strong Axis		
Neutral Axis from Top Fiber (Yo	:g)		1.8853 in
Moment of Inertia (Ixxg)			0.4985 in^4
Section modules (Sxxg)			0.2644 in^3
Cross Sectional Area (Ag)			0.2291 in^2
Radius of Gyration (Rxg)			1.4752 in
Section Properties, Weak	Axis		
Gross Neutral Axis (Xcg) From	Web Face		0.3495 in
Gross Moment of Inertia (lyy)			0.0499 in^4
Radius of Gyration (Ry)			0.4667 in
Other Section Property Da	ta		
Member Weight per Foot of Ler	ngth		0.7795 lb/f
Allowable Shear Force In Web	(Unpunched)		1023.58 lb
Torsional Properties			
Dist. from Shear Center to Neut	tral Axis (Xo)		-0.8543 in
St. Venant torsion Constant (J)	c 1000)		0.0914 in^4
Warping Constant (Cw)			0.1238 in^(
Radii of Gyration (Ro)			1.7674 in^(
Torsional Flexural Constant (Be	eta)		0.7664

Location (1) and (6) are tip of compression and tension lip respectively

Location (2) and (5) are flange/lip corner of compression and tension side respectively

[•] Properties based upon the AISI S100-16 - North American Specification for the Design of CFS Structural Members incl. Supplement 1 (S100-16/S1-18)

 $[\]bullet$ Effective properties include the strength increase from cold forming



Product Name :	362T150-43 (33 ksi)	Track (G90)	
PHYSICAL PROPERTIES:			
Web Height =	3.7864 in	Steel Thickness =	0.0451 in
Top Flange =	1.5000 in	Inside Corner Radius =	0.0712 in
Bottom Flange =	1.5000 in	Yield Stress, Fy =	33.0000 ksi
Fy With Cold-Work, Fya =	33.0000 ksi		
Effective Section Propertie	es, Strong Axis		
Neutral Axis from Top Fiber (Yo	eg)		2.0989 in
Moment of Inertia for Deflection	(lxx)		0.5744 in^
Section Modulus (Sxx)			0.2551 in^
Allowable Bending Moment (Ma	a)		420.05 ft-I
Gross Section Properties	of Full Section, Strong Axis		
Neutral Axis from Top Fiber (Yo	:g)		1.8932 in
Moment of Inertia (Ixxg)			0.6502 in^
Section modules (Sxxg)			0.3435 in^
Cross Sectional Area (Ag)			0.2984 in^
Radius of Gyration (Rxg)			1.4763 in
Section Properties, Weak	Axis		
Gross Neutral Axis (Xcg) From	Web Face		0.3527 in
Gross Moment of Inertia (lyy)			0.0644 in^
Radius of Gyration (Ry)			0.4647 in
Other Section Property Da	ta		
Member Weight per Foot of Ler	ngth		1.0153 lb/t
Allowable Shear Force In Web	(Unpunched)		1739.09 lb
Torsional Properties			
Dist. from Shear Center to Neut	tral Axis (Xo)		-0.8496 in
St. Venant torsion Constant (J >	x 1000)		0.2023 in^
Warping Constant (Cw)			0.1604 in^
Radii of Gyration (Ro)			1.7655 in^
Torsional Flexural Constant (Be	eta)		0.7684

Location (1) and (6) are tip of compression and tension lip respectively

Location (2) and (5) are flange/lip corner of compression and tension side respectively

[•] Properties based upon the AISI S100-16 - North American Specification for the Design of CFS Structural Members incl. Supplement 1 (S100-16/S1-18)

 $[\]bullet$ Effective properties include the strength increase from cold forming



Product Name :	362T150-54 (50 ksi) Track (G90)		
PHYSICAL PROPERTIES:				
Web Height =	3.8231 in	Steel Thickness =	0.0566 in	
Top Flange =	1.5000 in	Inside Corner Radius =	0.0849 in	
Bottom Flange =	1.5000 in	Yield Stress, Fy =	50.0000 ksi	
Fy With Cold-Work, Fya =	50.0000 ksi			
Effective Section Propertie	s, Strong Axis			
Neutral Axis from Top Fiber (Ycg	g)			2.1066 in
Moment of Inertia for Deflection	(Ixx)			0.7346 in^4
Section Modulus (Sxx)				0.3254 in^3
Allowable Bending Moment (Ma))			811.94 ft-lb
Gross Section Properties of	of Full Section, Strong Axis			
Neutral Axis from Top Fiber (Yco	g)			1.9116 in
Moment of Inertia (Ixxg)				0.8230 in^4
Section modules (Sxxg)				0.4305 in^3
Cross Sectional Area (Ag)				0.3743 in^2
Radius of Gyration (Rxg)				1.4828 in
Section Properties, Weak A	Axis			
Gross Neutral Axis (Xcg) From V	Veb Face			0.3561 in
Gross Moment of Inertia (Iyy)				0.0800 in^4
Radius of Gyration (Ry)				0.4624 in
Other Section Property Dat	a			
Member Weight per Foot of Leng	gth			1.2736 lb/ft
Allowable Shear Force In Web (Unpunched)			3371.56 lb
Torsional Properties				
Dist. from Shear Center to Neutr	al Axis (Xo)			-0.8436 in
St. Venant torsion Constant (J x	1000)			0.3997 in^4
Warping Constant (Cw)				0.2023 in^6
Radii of Gyration (Ro)				1.7676 in^6
Torsional Flexural Constant (Bet	a)			0.7722

Location (1) and (6) are tip of compression and tension lip respectively

Location (2) and (5) are flange/lip corner of compression and tension side respectively

[•] Properties based upon the AISI S100-16 - North American Specification for the Design of CFS Structural Members incl. Supplement 1 (S100-16/S1-18)

[•] Effective properties include the strength increase from cold forming



Product Name :	400T100-33 (33 ksi) Tı	rack (G90)		
PHYSICAL PROPERTIES :	, ,	,		
Web Height =	4.1457 in	Steel Thickness =	0.0346 in	
Top Flange =	1.0000 in	Inside Corner Radius =	0.0765 in	
Bottom Flange =	1.0000 in	Yield Stress, Fy =	33.0000 ksi	
Fy With Cold-Work, Fya =	33.0000 ksi			
Effective Section Properties,	Strong Axis			
Neutral Axis from Top Fiber (Ycg)				2.2602 in
Moment of Inertia for Deflection (Ixx	<)			0.4466 in^4
Section Modulus (Sxx)				0.1810 in^3
Allowable Bending Moment (Ma)				298.12 ft-lb
Gross Section Properties of F	full Section, Strong Axis			
Neutral Axis from Top Fiber (Ycg)				2.0728 in
Moment of Inertia (Ixxg)				0.4757 in^4
Section modules (Sxxg)				0.2295 in^3
Cross Sectional Area (Ag)				0.2075 in^2
Radius of Gyration (Rxg)				1.5143 in
Section Properties, Weak Axis	s			
Gross Neutral Axis (Xcg) From Web	o Face			0.1786 in
Gross Moment of Inertia (Iyy)				0.0165 in^4
Radius of Gyration (Ry)				0.2819 in
Other Section Property Data				
Member Weight per Foot of Length				0.7059 lb/ft
Allowable Shear Force In Web (Unp	ounched)			939.64 lb
Torsional Properties				
Dist. from Shear Center to Neutral A	Axis (Xo)			-0.4508 in
St. Venant torsion Constant (J x 1000)			0.0828 in^4	
Warping Constant (Cw)				0.0516 in^6
Radii of Gyration (Ro)				1.6049 in^6
Torsional Flexural Constant (Beta)				0.9211

Location (1) and (6) are tip of compression and tension lip respectively

Location (2) and (5) are flange/lip corner of compression and tension side respectively

[•] Properties based upon the AISI S100-16 - North American Specification for the Design of CFS Structural Members incl. Supplement 1 (S100-16/S1-18)

[•] Effective properties include the strength increase from cold forming



Product Name :	400T100-43 (33 ksi)	Track (G90)		
PHYSICAL PROPERTIES :	, ,	,		
Web Height =	4.1614 in	Steel Thickness =	0.0451 in	
Top Flange =	1.0000 in	Inside Corner Radius =	0.0712 in	
Bottom Flange =	1.0000 in	Yield Stress, Fy =	33.0000 ksi	
Fy With Cold-Work, Fya =	33.0000 ksi			
Effective Section Properties,	Strong Axis			
Neutral Axis from Top Fiber (Ycg)				2.1588 in
Moment of Inertia for Deflection (Ixx	x)			0.6059 in^4
Section Modulus (Sxx)				0.2671 in^3
Allowable Bending Moment (Ma)				439.78 ft-lb
Gross Section Properties of F	full Section, Strong Axis			
Neutral Axis from Top Fiber (Ycg)				2.0807 in
Moment of Inertia (Ixxg)				0.6200 in^4
Section modules (Sxxg)				0.2980 in^3
Cross Sectional Area (Ag)				0.2702 in^2
Radius of Gyration (Rxg)				1.5148 in
Section Properties, Weak Axis	s			
Gross Neutral Axis (Xcg) From Web	Face			0.1822 in
Gross Moment of Inertia (Iyy)				0.0212 in^4
Radius of Gyration (Ry)				0.2800 in
Other Section Property Data				
Member Weight per Foot of Length				0.9194 lb/ft
Allowable Shear Force In Web (Unp	ounched)			1739.09 lb
Torsional Properties				
Dist. from Shear Center to Neutral A	Axis (Xo)			-0.4469 in
St. Venant torsion Constant (J x 10	00)			0.1832 in^4
Warping Constant (Cw)				0.0665 in^6
Radii of Gyration (Ro)				1.6040 in^6
Torsional Flexural Constant (Beta)				0.9224

Location (1) and (6) are tip of compression and tension lip respectively

Location (2) and (5) are flange/lip corner of compression and tension side respectively

[•] Properties based upon the AISI S100-16 - North American Specification for the Design of CFS Structural Members incl. Supplement 1 (S100-16/S1-18)

 $[\]bullet$ Effective properties include the strength increase from cold forming



Product Name :	400T100-54 (50 ksi) 1	Track (G90)		
PHYSICAL PROPERTIES :	, ,	,		
Web Height =	4.1981 in	Steel Thickness =	0.0566 in	
Top Flange =	1.0000 in	Inside Corner Radius =	0.0849 in	
Bottom Flange =	1.0000 in	Yield Stress, Fy =	50.0000 ksi	
Fy With Cold-Work, Fya =	50.0000 ksi			
Effective Section Properties,	Strong Axis			
Neutral Axis from Top Fiber (Ycg)				2.1668 in
Moment of Inertia for Deflection (Ixx	x)			0.7708 in^4
Section Modulus (Sxx)				0.3393 in^3
Allowable Bending Moment (Ma)				846.48 ft-lb
Gross Section Properties of F	full Section, Strong Axis			
Neutral Axis from Top Fiber (Ycg)				2.0991 in
Moment of Inertia (Ixxg)				0.7827 in^4
Section modules (Sxxg)				0.3729 in^3
Cross Sectional Area (Ag)				0.3389 in^2
Radius of Gyration (Rxg)				1.5197 in
Section Properties, Weak Axis	s			
Gross Neutral Axis (Xcg) From Web	Face			0.1863 in
Gross Moment of Inertia (lyy)				0.0261 in^4
Radius of Gyration (Ry)				0.2777 in
Other Section Property Data				
Member Weight per Foot of Length				1.1532 lb/ft
Allowable Shear Force In Web (Unp	ounched)			3371.56 lb
Torsional Properties				
Dist. from Shear Center to Neutral A	Axis (Xo)			-0.4421 in
St. Venant torsion Constant (J x 100	00)			0.3619 in^4
Warping Constant (Cw)				0.0834 in^6
Radii of Gyration (Ro)				1.6069 in^6
Torsional Flexural Constant (Beta)				0.9243

Location (1) and (6) are tip of compression and tension lip respectively

Location (2) and (5) are flange/lip corner of compression and tension side respectively

[•] Properties based upon the AISI S100-16 - North American Specification for the Design of CFS Structural Members incl. Supplement 1 (S100-16/S1-18)

[•] Effective properties include the strength increase from cold forming



Product Name :	400T125-33 (33 ksi)	Track (G90)		
PHYSICAL PROPERTIES:				
Web Height =	4.1457 in	Steel Thickness =	0.0346 in	
Top Flange =	1.2500 in	Inside Corner Radius =	0.0765 in	
Bottom Flange =	1.2500 in	Yield Stress, Fy =	33.0000 ksi	
Fy With Cold-Work, Fya =	33.0000 ksi			
Effective Section Propertie	es, Strong Axis			
Neutral Axis from Top Fiber (Yo	eg)		2.2	722 in
Moment of Inertia for Deflection	(lxx)		0.4	839 in^4
Section Modulus (Sxx)			0.2	2010 in^3
Allowable Bending Moment (Ma	a)		330	0.96 ft-lb
Gross Section Properties	of Full Section, Strong Axis			
Neutral Axis from Top Fiber (Yo	:g)		2.0	728 in
Moment of Inertia (Ixxg)			0.5	488 in^4
Section modules (Sxxg)			0.2	.648 in^3
Cross Sectional Area (Ag)			0.2	248 in^2
Radius of Gyration (Rxg)			1.5	626 in
Section Properties, Weak	Axis			
Gross Neutral Axis (Xcg) From	Web Face		0.2	2514 in
Gross Moment of Inertia (lyy)			0.0	309 in^4
Radius of Gyration (Ry)			0.3	707 in
Other Section Property Da	ta			
Member Weight per Foot of Ler	ngth		0.7	'648 lb/ft
Allowable Shear Force In Web	(Unpunched)		939	9.64 lb
Torsional Properties				
Dist. from Shear Center to Neut	tral Axis (Xo)		-0.6	6303 in
St. Venant torsion Constant (J >	k 1000)		0.0	897 in^4
Warping Constant (Cw)			0.0	946 in^6
Radii of Gyration (Ro)			1.7	'252 in^6
Torsional Flexural Constant (Be	eta)		0.8	665

Location (1) and (6) are tip of compression and tension lip respectively

Location (2) and (5) are flange/lip corner of compression and tension side respectively

[•] Properties based upon the AISI S100-16 - North American Specification for the Design of CFS Structural Members incl. Supplement 1 (S100-16/S1-18)

[•] Effective properties include the strength increase from cold forming



Product Name : PHYSICAL PROPERTIES :	400T125-43 (33 ksi)	Track (G90)	
Web Height =	4.1614 in	Steel Thickness =	0.0451 in
Top Flange =	1.2500 in	Inside Corner Radius =	0.0712 in
Bottom Flange =	1.2500 in	Yield Stress, Fy =	33.0000 ksi
Fy With Cold-Work, Fya =	33.0000 ksi	• •	
Effective Section Propertie	es, Strong Axis		
Neutral Axis from Top Fiber (Yo	g)		2.2268 in
Moment of Inertia for Deflection	(lxx)		0.6662 in [^]
Section Modulus (Sxx)			0.2818 in^3
Allowable Bending Moment (Ma)		464.01 ft-lk
Gross Section Properties	of Full Section, Strong Axis		
Neutral Axis from Top Fiber (Yc	g)		2.0807 in
Moment of Inertia (Ixxg)			0.7155 in^ ₄
Section modules (Sxxg)			0.3439 in^3
Cross Sectional Area (Ag)			0.2927 in^2
Radius of Gyration (Rxg)			1.5634 in
Section Properties, Weak	Axis		
Gross Neutral Axis (Xcg) From	Web Face		0.2549 in
Gross Moment of Inertia (Iyy)			0.0398 in [^]
Radius of Gyration (Ry)			0.3687 in
Other Section Property Da	ta		
Member Weight per Foot of Len	ngth		0.9961 lb/f
Allowable Shear Force In Web ((Unpunched)		1739.09 lb
Torsional Properties			
Dist. from Shear Center to Neut	ral Axis (Xo)		-0.6260 in
St. Venant torsion Constant (J x	(1000)		0.1985 in^₄
Warping Constant (Cw)			0.1222 in^6
Radii of Gyration (Ro)			1.7240 in^6
Torsional Flexural Constant (Be	ta)		0.8681

Location (1) and (6) are tip of compression and tension lip respectively

Location (2) and (5) are flange/lip corner of compression and tension side respectively

[•] Properties based upon the AISI S100-16 - North American Specification for the Design of CFS Structural Members incl. Supplement 1 (S100-16/S1-18)

[•] Effective properties include the strength increase from cold forming



Product Name : PHYSICAL PROPERTIES :	400T125-54 (50 ksi)	Track (G90)	
Web Height =	4.1981 in	Steel Thickness =	0.0566 in
Top Flange =	1.2500 in	Inside Corner Radius =	0.0849 in
Bottom Flange =	1.2500 in	Yield Stress, Fy =	50.0000 ksi
Fy With Cold-Work, Fya =	50.0000 ksi	• •	
Effective Section Propertie	es, Strong Axis		
Neutral Axis from Top Fiber (Yo	g)		2.2341 in
Moment of Inertia for Deflection	(lxx)		0.8494 in^4
Section Modulus (Sxx)			0.3587 in^3
Allowable Bending Moment (Ma)		894.90 ft-lb
Gross Section Properties o	of Full Section, Strong Axis		
Neutral Axis from Top Fiber (Yo	g)		2.0991 in
Moment of Inertia (Ixxg)			0.9040 in^4
Section modules (Sxxg)			0.4307 in^3
Cross Sectional Area (Ag)			0.3672 in^2
Radius of Gyration (Rxg)			1.5691 in
Section Properties, Weak	Axis		
Gross Neutral Axis (Xcg) From	Web Face		0.2586 in
Gross Moment of Inertia (Iyy)			0.0493 in^4
Radius of Gyration (Ry)			0.3664 in
Other Section Property Da	ta		
Member Weight per Foot of Len	gth		1.2495 lb/ft
Allowable Shear Force In Web ((Unpunched)		3371.56 lb
Torsional Properties			
Dist. from Shear Center to Neut	ral Axis (Xo)		-0.6207 in
St. Venant torsion Constant (J x	(1000)		0.3921 in^4
Warping Constant (Cw)			0.1536 in^6
Radii of Gyration (Ro)			1.7267 in^6
Torsional Flexural Constant (Be	ta)		0.8708

Location (1) and (6) are tip of compression and tension lip respectively

Location (2) and (5) are flange/lip corner of compression and tension side respectively

[•] Properties based upon the AISI S100-16 - North American Specification for the Design of CFS Structural Members incl. Supplement 1 (S100-16/S1-18)

[•] Effective properties include the strength increase from cold forming



Product Name : PHYSICAL PROPERTIES :	400T150-33 (33 ksi)) Track (G90)		
Web Height =	4.1457 in	Steel Thickness =	0.0346 in	
Top Flange =	1.5000 in	Inside Corner Radius =	0.0765 in	
Bottom Flange =	1.5000 in	Yield Stress, Fy =	33.0000 ksi	
Fy With Cold-Work, Fya =	33.0000 ksi	, . ,		
Effective Section Propertie	es, Strong Axis			
Neutral Axis from Top Fiber (Yo	g)		2.3420 ir	n
Moment of Inertia for Deflection	(lxx)		0.5193 ir	n^4
Section Modulus (Sxx)			0.2084 ir	n^3
Allowable Bending Moment (Ma)		343.12 ft	t-lb
Gross Section Properties	of Full Section, Strong Axis			
Neutral Axis from Top Fiber (Yo	g)		2.0728 ir	n
Moment of Inertia (Ixxg)			0.6219 ir	n^4
Section modules (Sxxg)			0.3000 ir	n^3
Cross Sectional Area (Ag)			0.2421 ir	n^2
Radius of Gyration (Rxg)			1.6029 ir	n
Section Properties, Weak	Axis			
Gross Neutral Axis (Xcg) From	Web Face		0.3317 ir	n
Gross Moment of Inertia (Iyy)			0.0513 ir	n^4
Radius of Gyration (Ry)			0.4601 ir	n
Other Section Property Da	ta			
Member Weight per Foot of Ler	ngth		0.8237 lb	b/ft
Allowable Shear Force In Web ((Unpunched)		939.64 lb	b
Torsional Properties				
Dist. from Shear Center to Neut	ral Axis (Xo)		-0.8215 i	in
St. Venant torsion Constant (J x	(1000)		0.0966 ir	n^4
Warping Constant (Cw)			0.1547 ir	n^6
Radii of Gyration (Ro)			1.8590 ir	n^6
Torsional Flexural Constant (Be	ta)		0.8047	

Location (1) and (6) are tip of compression and tension lip respectively

Location (2) and (5) are flange/lip corner of compression and tension side respectively

[•] Properties based upon the AISI S100-16 - North American Specification for the Design of CFS Structural Members incl. Supplement 1 (S100-16/S1-18)

 $[\]bullet$ Effective properties include the strength increase from cold forming



Product Name : PHYSICAL PROPERTIES :	400T150-43 (33 ksi)	Track (G90)	
Web Height =	4.1614 in	Steel Thickness =	0.0451 in
Top Flange =	1.5000 in	Inside Corner Radius =	0.0712 in
Bottom Flange =	1.5000 in	Yield Stress, Fy =	33.0000 ksi
Fy With Cold-Work, Fya =	33.0000 ksi	,.,,	
Effective Section Propertie	es, Strong Axis		
Neutral Axis from Top Fiber (Yo	g)		2.2937 in
Moment of Inertia for Deflection	(lxx)		0.7192 in^2
Section Modulus (Sxx)			0.2933 in^3
Allowable Bending Moment (Ma)		483.06 ft-lb
Gross Section Properties	of Full Section, Strong Axis		
Neutral Axis from Top Fiber (Yo	g)		2.0807 in
Moment of Inertia (Ixxg)			0.8110 in^2
Section modules (Sxxg)			0.3898 in^3
Cross Sectional Area (Ag)			0.3153 in^2
Radius of Gyration (Rxg)			1.6039 in
Section Properties, Weak	Axis		
Gross Neutral Axis (Xcg) From	Web Face		0.3350 in
Gross Moment of Inertia (Iyy)			0.0662 in^2
Radius of Gyration (Ry)			0.4582 in
Other Section Property Da	ta		
Member Weight per Foot of Ler	ngth		1.0728 lb/fl
Allowable Shear Force In Web ((Unpunched)		1739.09 lb
Torsional Properties			
Dist. from Shear Center to Neut	ral Axis (Xo)		-0.8169 in
St. Venant torsion Constant (J x	(1000)		0.2138 in^2
Warping Constant (Cw)			0.2004 in^6
Radii of Gyration (Ro)			1.8573 in^6
Torsional Flexural Constant (Be	ta)		0.8066

Location (1) and (6) are tip of compression and tension lip respectively

Location (2) and (5) are flange/lip corner of compression and tension side respectively

[•] Properties based upon the AISI S100-16 - North American Specification for the Design of CFS Structural Members incl. Supplement 1 (S100-16/S1-18)

[•] Effective properties include the strength increase from cold forming



Product Name : PHYSICAL PROPERTIES :	400T150-54 (50 ksi)	Track (G90)		
Web Height =	4.1981 in	Steel Thickness =	0.0566 in	
Top Flange =	1.5000 in	Inside Corner Radius =	0.0849 in	
Bottom Flange =	1.5000 in	Yield Stress, Fy =	50.0000 ksi	
Fy With Cold-Work, Fya =	50.0000 ksi	, ,		
Effective Section Properties	, Strong Axis			
Neutral Axis from Top Fiber (Ycg)				2.3008 in
Moment of Inertia for Deflection (I	xx)			0.9183 in^4
Section Modulus (Sxx)				0.3738 in^3
Allowable Bending Moment (Ma)				932.71 ft-lb
Gross Section Properties of	Full Section, Strong Axis			
Neutral Axis from Top Fiber (Ycg)				2.0991 in
Moment of Inertia (Ixxg)				1.0254 in^4
Section modules (Sxxg)				0.4885 in^3
Cross Sectional Area (Ag)				0.3955 in^2
Radius of Gyration (Rxg)				1.6102 in
Section Properties, Weak Ax	cis .			
Gross Neutral Axis (Xcg) From W	eb Face			0.3385 in
Gross Moment of Inertia (Iyy)				0.0822 in^4
Radius of Gyration (Ry)				0.4559 in
Other Section Property Data	l .			
Member Weight per Foot of Lengt	th			1.3458 lb/ft
Allowable Shear Force In Web (U	npunched)			3371.56 lb
Torsional Properties				
Dist. from Shear Center to Neutra	I Axis (Xo)			-0.8111 in
St. Venant torsion Constant (J x 1	000)			0.4223 in^4
Warping Constant (Cw)				0.2524 in^6
Radii of Gyration (Ro)				1.8597 in^6
Torsional Flexural Constant (Beta)			0.8098

Location (1) and (6) are tip of compression and tension lip respectively

Location (2) and (5) are flange/lip corner of compression and tension side respectively

[•] Properties based upon the AISI S100-16 - North American Specification for the Design of CFS Structural Members incl. Supplement 1 (S100-16/S1-18)

 $[\]bullet$ Effective properties include the strength increase from cold forming



Product Name :	600T100-33 (33 ksi)	Track (G90)	
PHYSICAL PROPERTIES:			
Web Height =	6.1457 in	Steel Thickness =	0.0346 in
Top Flange =	1.0000 in	Inside Corner Radius =	0.0765 in
Bottom Flange =	1.0000 in	Yield Stress, Fy =	33.0000 ksi
Fy With Cold-Work, Fya =	33.0000 ksi		
Effective Section Propertie	es, Strong Axis		
Neutral Axis from Top Fiber (Yo	;g)		3.5290 in
Moment of Inertia for Deflection	(Ixx)		1.1704 in
Section Modulus (Sxx)			0.2888 in/
Allowable Bending Moment (Ma	a)		475.51 ft-
Gross Section Properties	of Full Section, Strong Axis		
Neutral Axis from Top Fiber (Yo	eg)		3.0728 in
Moment of Inertia (Ixxg)			1.2667 in
Section modules (Sxxg)			0.4122 in
Cross Sectional Area (Ag)			0.2767 in/
Radius of Gyration (Rxg)			2.1397 in
Section Properties, Weak	Axis		
Gross Neutral Axis (Xcg) From	Web Face		0.1382 in
Gross Moment of Inertia (lyy)			0.0178 in/
Radius of Gyration (Ry)			0.2539 in
Other Section Property Da	ta		
Member Weight per Foot of Ler	ngth		0.9414 lb/
Allowable Shear Force In Web	(Unpunched)		622.38 lb
Torsional Properties			
Dist. from Shear Center to Neut	tral Axis (Xo)		-0.3622 in
St. Venant torsion Constant (J)	x 1000)		0.1104 in
Warping Constant (Cw)			0.1291 in ⁴
Radii of Gyration (Ro)			2.1850 in/
Torsional Flexural Constant (Be	eta)		0.9725

Location (1) and (6) are tip of compression and tension lip respectively

Location (2) and (5) are flange/lip corner of compression and tension side respectively

[•] Properties based upon the AISI S100-16 - North American Specification for the Design of CFS Structural Members incl. Supplement 1 (S100-16/S1-18)

 $[\]bullet$ Effective properties include the strength increase from cold forming



Product Name :	600T100-43 (33 ksi) T	rack (G90)		
PHYSICAL PROPERTIES :	, ,	, ,		
Web Height =	6.1614 in	Steel Thickness =	0.0451 in	
Top Flange =	1.0000 in	Inside Corner Radius =	0.0712 in	
Bottom Flange =	1.0000 in	Yield Stress, Fy =	33.0000 ksi	
Fy With Cold-Work, Fya =	33.0000 ksi			
Effective Section Properties,	Strong Axis			
Neutral Axis from Top Fiber (Ycg)				3.3187 in
Moment of Inertia for Deflection (Ixx	x)			1.6290 in^4
Section Modulus (Sxx)				0.4442 in^3
Allowable Bending Moment (Ma)				731.44 ft-lb
Gross Section Properties of F	ull Section, Strong Axis			
Neutral Axis from Top Fiber (Ycg)				3.0807 in
Moment of Inertia (Ixxg)				1.6502 in^4
Section modules (Sxxg)				0.5357 in^3
Cross Sectional Area (Ag)				0.3604 in^2
Radius of Gyration (Rxg)				2.1399 in
Section Properties, Weak Axis	s			
Gross Neutral Axis (Xcg) From Web	Face			0.1423 in
Gross Moment of Inertia (lyy)				0.0229 in^4
Radius of Gyration (Ry)				0.2521 in
Other Section Property Data				
Member Weight per Foot of Length				1.2263 lb/ft
Allowable Shear Force In Web (Unp	ounched)			1377.13 lb
Torsional Properties				
Dist. from Shear Center to Neutral A	Axis (Xo)			-0.3590 in
St. Venant torsion Constant (J x 100	00)			0.2443 in^4
Warping Constant (Cw)				0.1662 in^6
Radii of Gyration (Ro)				2.1844 in^6
Torsional Flexural Constant (Beta)				0.9730

Location (1) and (6) are tip of compression and tension lip respectively

Location (2) and (5) are flange/lip corner of compression and tension side respectively

[•] Properties based upon the AISI S100-16 - North American Specification for the Design of CFS Structural Members incl. Supplement 1 (S100-16/S1-18)

 $[\]bullet$ Effective properties include the strength increase from cold forming



Product Name :	600T100-54 (50 ksi) Track (G90)		
PHYSICAL PROPERTIES:	•	, ,		
Web Height =	6.1981 in	Steel Thickness =	0.0566 in	
Top Flange =	1.0000 in	Inside Corner Radius =	0.0849 in	
Bottom Flange =	1.0000 in	Yield Stress, Fy =	50.0000 ksi	
Fy With Cold-Work, Fya =	50.0000 ksi			
Effective Section Properties	s, Strong Axis			
Neutral Axis from Top Fiber (Ycg	1)			3.3085 in
Moment of Inertia for Deflection ((lxx)			2.0615 in^4
Section Modulus (Sxx)				0.5693 in^3
Allowable Bending Moment (Ma)				1420.48 ft-lb
Gross Section Properties o	f Full Section, Strong Axis			
Neutral Axis from Top Fiber (Ycg	1)			3.0991 in
Moment of Inertia (Ixxg)				2.0773 in^4
Section modules (Sxxg)				0.6703 in^3
Cross Sectional Area (Ag)				0.4521 in^2
Radius of Gyration (Rxg)				2.1435 in
Section Properties, Weak A	xis			
Gross Neutral Axis (Xcg) From V	Veb Face			0.1467 in
Gross Moment of Inertia (Iyy)				0.0283 in^4
Radius of Gyration (Ry)				0.2500 in
Other Section Property Data	а			
Member Weight per Foot of Leng	gth			1.5384 lb/ft
Allowable Shear Force In Web (U	Jnpunched)			2728.34 lb
Torsional Properties				
Dist. from Shear Center to Neutra	al Axis (Xo)			-0.3550 in
St. Venant torsion Constant (J x	1000)			0.4828 in^4
Warping Constant (Cw)				0.2072 in^6
Radii of Gyration (Ro)				2.1871 in^6
Torsional Flexural Constant (Beta	a)			0.9736

Location (1) and (6) are tip of compression and tension lip respectively

Location (2) and (5) are flange/lip corner of compression and tension side respectively

[•] Properties based upon the AISI S100-16 - North American Specification for the Design of CFS Structural Members incl. Supplement 1 (S100-16/S1-18)

[•] Effective properties include the strength increase from cold forming



Product Name :	600T125-33 (33 ksi) Track (G90)		
PHYSICAL PROPERTIES:	·			
Web Height =	6.1457 in	Steel Thickness =	0.0346 in	
Top Flange =	1.2500 in	Inside Corner Radius =	0.0765 in	
Bottom Flange =	1.2500 in	Yield Stress, Fy =	33.0000 ksi	
Fy With Cold-Work, Fya =	33.0000 ksi			
Effective Section Propertie	s, Strong Axis			
Neutral Axis from Top Fiber (Ycg	g)			3.6345 in
Moment of Inertia for Deflection	(lxx)			1.2576 in^4
Section Modulus (Sxx)				0.2970 in^3
Allowable Bending Moment (Ma))			489.04 ft-lb
Gross Section Properties of	of Full Section, Strong Axis			
Neutral Axis from Top Fiber (Yco	a)			3.0728 in
Moment of Inertia (Ixxg)				1.4282 in^4
Section modules (Sxxg)				0.4648 in^3
Cross Sectional Area (Ag)				0.2940 in^2
Radius of Gyration (Rxg)				2.2042 in
Section Properties, Weak A	Axis			
Gross Neutral Axis (Xcg) From V	Veb Face			0.1963 in
Gross Moment of Inertia (Iyy)				0.0338 in^4
Radius of Gyration (Ry)				0.3390 in
Other Section Property Dat	a			
Member Weight per Foot of Leng	gth			1.0003 lb/ft
Allowable Shear Force In Web (Unpunched)			622.38 lb
Torsional Properties				
Dist. from Shear Center to Neutr	al Axis (Xo)			-0.5165 in
St. Venant torsion Constant (J x	1000)			0.1173 in^4
Warping Constant (Cw)				0.2377 in^6
Radii of Gyration (Ro)				2.2891 in^6
Torsional Flexural Constant (Bet	a)			0.9491

Location (1) and (6) are tip of compression and tension lip respectively

Location (2) and (5) are flange/lip corner of compression and tension side respectively

[•] Properties based upon the AISI S100-16 - North American Specification for the Design of CFS Structural Members incl. Supplement 1 (S100-16/S1-18)

 $[\]bullet$ Effective properties include the strength increase from cold forming



Product Name : PHYSICAL PROPERTIES :	600T125-43 (33 ksi)	Track (G90)		
Web Height =	6.1614 in	Steel Thickness =	0.0451 in	
Top Flange =	1.2500 in	Inside Corner Radius =	0.0712 in	
Bottom Flange =	1.2500 in	Yield Stress, Fy =	33.0000 ksi	
Fy With Cold-Work, Fya =	33.0000 ksi	, ,		
Effective Section Propertie	es, Strong Axis			
Neutral Axis from Top Fiber (Yo	;g)		3.4121 i	n
Moment of Inertia for Deflection	(lxx)		1.7680 i	n^4
Section Modulus (Sxx)			0.4612 i	n^3
Allowable Bending Moment (Ma	a)		759.40 1	ft-lb
Gross Section Properties	of Full Section, Strong Axis			
Neutral Axis from Top Fiber (Yo	eg)		3.0807 i	n
Moment of Inertia (Ixxg)			1.8611 i	n^4
Section modules (Sxxg)			0.6041 i	n^3
Cross Sectional Area (Ag)			0.3829 i	n^2
Radius of Gyration (Rxg)			2.2046 i	n
Section Properties, Weak	Axis			
Gross Neutral Axis (Xcg) From	Web Face		0.2001 i	n
Gross Moment of Inertia (lyy)			0.0435 i	n^4
Radius of Gyration (Ry)			0.3371 i	n
Other Section Property Da	ta			
Member Weight per Foot of Ler	ngth		1.3030	b/ft
Allowable Shear Force In Web	(Unpunched)		1377.13	lb
Torsional Properties				
Dist. from Shear Center to Neut	tral Axis (Xo)		-0.5129	in
St. Venant torsion Constant (J >	x 1000)		0.2596 i	n^4
Warping Constant (Cw)			0.3069 i	n^6
Radii of Gyration (Ro)			2.2884 i	n^6
Torsional Flexural Constant (Be	eta)		0.9498	

Location (1) and (6) are tip of compression and tension lip respectively

Location (2) and (5) are flange/lip corner of compression and tension side respectively

[•] Properties based upon the AISI S100-16 - North American Specification for the Design of CFS Structural Members incl. Supplement 1 (S100-16/S1-18)

[•] Effective properties include the strength increase from cold forming



Product Name : PHYSICAL PROPERTIES :	600T125-54 (50 ksi)	Track (G90)		
Web Height =	6.1981 in	Steel Thickness =	0.0566 in	
Top Flange =	1.2500 in	Inside Corner Radius =	0.0849 in	
Bottom Flange =	1.2500 in	Yield Stress, Fy =	50.0000 ksi	
Fy With Cold-Work, Fya =	50.0000 ksi			
Effective Section Properties	, Strong Axis			
Neutral Axis from Top Fiber (Ycg)				3.4000 in
Moment of Inertia for Deflection (I	xx)			2.2409 in^4
Section Modulus (Sxx)				0.5923 in^3
Allowable Bending Moment (Ma)				1477.90 ft-lb
Gross Section Properties of	Full Section, Strong Axis			
Neutral Axis from Top Fiber (Ycg)				3.0991 in
Moment of Inertia (Ixxg)				2.3442 in^4
Section modules (Sxxg)				0.7564 in^3
Cross Sectional Area (Ag)				0.4804 in^2
Radius of Gyration (Rxg)				2.2090 in
Section Properties, Weak Ax	(is			
Gross Neutral Axis (Xcg) From W	eb Face			0.2044 in
Gross Moment of Inertia (Iyy)				0.0539 in^4
Radius of Gyration (Ry)				0.3349 in
Other Section Property Data	1			
Member Weight per Foot of Lengt	th			1.6347 lb/ft
Allowable Shear Force In Web (U	npunched)			2728.34 lb
Torsional Properties				
Dist. from Shear Center to Neutra	l Axis (Xo)			-0.5084 in
St. Venant torsion Constant (J x 1	000)			0.5130 in^4
Warping Constant (Cw)				0.3840 in^6
Radii of Gyration (Ro)				2.2913 in^6
Torsional Flexural Constant (Beta)			0.9508

Location (1) and (6) are tip of compression and tension lip respectively

Location (2) and (5) are flange/lip corner of compression and tension side respectively

[•] Properties based upon the AISI S100-16 - North American Specification for the Design of CFS Structural Members incl. Supplement 1 (S100-16/S1-18)

 $[\]bullet$ Effective properties include the strength increase from cold forming



Product Name :	600T150-33 (33 ksi)) Track (G90)		
PHYSICAL PROPERTIES:				
Web Height =	6.1457 in	Steel Thickness =	0.0346 in	
Top Flange =	1.5000 in	Inside Corner Radius =	0.0765 in	
Bottom Flange =	1.5000 in	Yield Stress, Fy =	33.0000 ksi	
Fy With Cold-Work, Fya =	33.0000 ksi			
Effective Section Propertie	es, Strong Axis			
Neutral Axis from Top Fiber (Yo	eg)			3.7371 in
Moment of Inertia for Deflection	(lxx)			1.3343 in^4
Section Modulus (Sxx)				0.3029 in^3
Allowable Bending Moment (Ma	a)			498.79 ft-lb
Gross Section Properties	of Full Section, Strong Axis			
Neutral Axis from Top Fiber (Yo	:g)			3.0728 in
Moment of Inertia (Ixxg)				1.5897 in^4
Section modules (Sxxg)				0.5173 in^3
Cross Sectional Area (Ag)				0.3113 in^2
Radius of Gyration (Rxg)				2.2599 in
Section Properties, Weak	Axis			
Gross Neutral Axis (Xcg) From	Web Face			0.2618 in
Gross Moment of Inertia (Iyy)				0.0566 in^4
Radius of Gyration (Ry)				0.4263 in
Other Section Property Da	ta			
Member Weight per Foot of Ler	ngth			1.0592 lb/ft
Allowable Shear Force In Web	(Unpunched)			622.38 lb
Torsional Properties				
Dist. from Shear Center to Neut	tral Axis (Xo)			-0.6840 in
St. Venant torsion Constant (J >	< 1000)			0.1242 in^4
Warping Constant (Cw)				0.3899 in^6
Radii of Gyration (Ro)				2.3993 in^6
Torsional Flexural Constant (Be	eta)			0.9187

Location (1) and (6) are tip of compression and tension lip respectively

Location (2) and (5) are flange/lip corner of compression and tension side respectively

[•] Properties based upon the AISI S100-16 - North American Specification for the Design of CFS Structural Members incl. Supplement 1 (S100-16/S1-18)

[•] Effective properties include the strength increase from cold forming



Product Name : PHYSICAL PROPERTIES :	600T150-43 (33 ksi)	Track (G90)	
Web Height =	6.1614 in	Steel Thickness =	0.0451 in
Top Flange =	1.5000 in	Inside Corner Radius =	0.0712 in
Bottom Flange =	1.5000 in	Yield Stress, Fy =	33.0000 ksi
Fy With Cold-Work, Fya =	33.0000 ksi		
Effective Section Propertie	es, Strong Axis		
Neutral Axis from Top Fiber (Yo	g)		3.5062 in
Moment of Inertia for Deflection	(lxx)		1.8897 in^4
Section Modulus (Sxx)			0.4736 in^3
Allowable Bending Moment (Ma	n)		779.85 ft-lb
Gross Section Properties	of Full Section, Strong Axis		
Neutral Axis from Top Fiber (Yo	g)		3.0807 in
Moment of Inertia (Ixxg)			2.0720 in^4
Section modules (Sxxg)			0.6726 in^3
Cross Sectional Area (Ag)			0.4055 in^2
Radius of Gyration (Rxg)			2.2605 in
Section Properties, Weak	Axis		
Gross Neutral Axis (Xcg) From	Web Face		0.2655 in
Gross Moment of Inertia (Iyy)			0.0730 in^4
Radius of Gyration (Ry)			0.4244 in
Other Section Property Da	ta		
Member Weight per Foot of Ler	ngth		1.3798 lb/ft
Allowable Shear Force In Web ((Unpunched)		1377.13 lb
Torsional Properties			
Dist. from Shear Center to Neut	ral Axis (Xo)		-0.6801 in
St. Venant torsion Constant (J x	(1000)		0.2749 in^4
Warping Constant (Cw)			0.5044 in^6
Radii of Gyration (Ro)			2.3984 in^6
Torsional Flexural Constant (Be	eta)		0.9196

Location (1) and (6) are tip of compression and tension lip respectively

Location (2) and (5) are flange/lip corner of compression and tension side respectively

[•] Properties based upon the AISI S100-16 - North American Specification for the Design of CFS Structural Members incl. Supplement 1 (S100-16/S1-18)

 $[\]bullet$ Effective properties include the strength increase from cold forming



Product Name : PHYSICAL PROPERTIES :	600T150-54 (50 ksi)	Track (G90)		
Web Height =	6.1981 in	Steel Thickness =	0.0566 in	
Top Flange =	1.5000 in	Inside Corner Radius =	0.0849 in	
Bottom Flange =	1.5000 in	Yield Stress, Fy =	50.0000 ksi	
Fy With Cold-Work, Fya =	50.0000 ksi		00.0000	
Effective Section Propertie	es, Strong Axis			
Neutral Axis from Top Fiber (Yo	g)		3.493	1 in
Moment of Inertia for Deflection	(lxx)		2.4004	4 in^4
Section Modulus (Sxx)			0.609	1 in^3
Allowable Bending Moment (Ma	n)		1519.7	75 ft-lb
Gross Section Properties	of Full Section, Strong Axis			
Neutral Axis from Top Fiber (Yo	g)		3.099	1 in
Moment of Inertia (Ixxg)			2.6110	0 in^4
Section modules (Sxxg)			0.842	5 in^3
Cross Sectional Area (Ag)			0.5087	7 in^2
Radius of Gyration (Rxg)			2.265	5 in
Section Properties, Weak	Axis			
Gross Neutral Axis (Xcg) From	Web Face		0.269	5 in
Gross Moment of Inertia (Iyy)			0.0907	7 in^4
Radius of Gyration (Ry)			0.4222	2 in
Other Section Property Da	ta			
Member Weight per Foot of Ler	ngth		1.7310	0 lb/ft
Allowable Shear Force In Web ((Unpunched)		2728.3	34 lb
Torsional Properties				
Dist. from Shear Center to Neut	ral Axis (Xo)		-0.675	52 in
St. Venant torsion Constant (J x	(1000)		0.5432	2 in^4
Warping Constant (Cw)			0.632	5 in^6
Radii of Gyration (Ro)			2.4014	4 in^6
Torsional Flexural Constant (Be	eta)		0.9209	9

Location (1) and (6) are tip of compression and tension lip respectively

Location (2) and (5) are flange/lip corner of compression and tension side respectively

[•] Properties based upon the AISI S100-16 - North American Specification for the Design of CFS Structural Members incl. Supplement 1 (S100-16/S1-18)

 $[\]bullet$ Effective properties include the strength increase from cold forming



Product Name : PHYSICAL PROPERTIES :	800T100-33 (33 ksi)	Track (G90)		
Web Height =	8.1457 in	Steel Thickness =	0.0346 in	
Top Flange =	1.0000 in	Inside Corner Radius =	0.0765 in	
Bottom Flange =	1.0000 in	Yield Stress, Fy =	33.0000 ksi	
Fy With Cold-Work, Fya =	33.0000 ksi			
Effective Section Propertie	es, Strong Axis			
Neutral Axis from Top Fiber (Yc	g)			4.8979 in
Moment of Inertia for Deflection	(lxx)			2.2947 in^4
Section Modulus (Sxx)				0.3965 in^3
Allowable Bending Moment (Ma)			652.99 ft-lb
Gross Section Properties	of Full Section, Strong Axis			
Neutral Axis from Top Fiber (Yc	g)			4.0728 in
Moment of Inertia (Ixxg)				2.6109 in^4
Section modules (Sxxg)				0.6411 in^3
Cross Sectional Area (Ag)				0.3459 in^2
Radius of Gyration (Rxg)				2.7475 in
Section Properties, Weak	Axis			
Gross Neutral Axis (Xcg) From	Web Face			0.1140 in
Gross Moment of Inertia (Iyy)				0.0186 in^4
Radius of Gyration (Ry)				0.2322 in
Other Section Property Da	ta			
Member Weight per Foot of Len	gth			1.1769 lb/ft
Allowable Shear Force In Web ((Unpunched)			465.29 lb
Torsional Properties				
Dist. from Shear Center to Neut	ral Axis (Xo)			-0.3036 in
St. Venant torsion Constant (J x	(1000)			0.1380 in^4
Warping Constant (Cw)				0.2464 in^6
Radii of Gyration (Ro)				2.7740 in^6
Torsional Flexural Constant (Be	ta)			0.9880

Location (1) and (6) are tip of compression and tension lip respectively

Location (2) and (5) are flange/lip corner of compression and tension side respectively

- Properties based upon the AISI S100-16 North American Specification for the Design of CFS Structural Members incl. Supplement 1 (S100-16/S1-18)
- Effective properties include the strength increase from cold forming

^{***} WEB DEPTH-TO-THICKNESS = 229 > 200 ***



Product Name :	800T100-43 (33 ksi) Track (G90)		
PHYSICAL PROPERTIES:	•	•		
Web Height =	8.1614 in	Steel Thickness =	0.0451 in	
Top Flange =	1.0000 in	Inside Corner Radius =	0.0712 in	
Bottom Flange =	1.0000 in	Yield Stress, Fy =	33.0000 ksi	
Fy With Cold-Work, Fya =	33.0000 ksi			
Effective Section Propertie	s, Strong Axis			
Neutral Axis from Top Fiber (Ycg	a)			4.6030 in
Moment of Inertia for Deflection	(lxx)			3.2470 in^4
Section Modulus (Sxx)				0.6196 in^3
Allowable Bending Moment (Ma))			1020.37 ft-lb
Gross Section Properties of	of Full Section, Strong Axis			
Neutral Axis from Top Fiber (Yco	a)			4.0807 in
Moment of Inertia (Ixxg)				3.4012 in^4
Section modules (Sxxg)				0.8335 in^3
Cross Sectional Area (Ag)				0.4506 in^2
Radius of Gyration (Rxg)				2.7474 in
Section Properties, Weak A	Axis			
Gross Neutral Axis (Xcg) From V	Veb Face			0.1183 in
Gross Moment of Inertia (Iyy)				0.0239 in^4
Radius of Gyration (Ry)				0.2305 in
Other Section Property Dat	a			
Member Weight per Foot of Leng	gth			1.5332 lb/ft
Allowable Shear Force In Web (Unpunched)			1029.75 lb
Torsional Properties				
Dist. from Shear Center to Neutr	al Axis (Xo)			-0.3008 in
St. Venant torsion Constant (J x	1000)			0.3055 in^4
Warping Constant (Cw)				0.3169 in^6
Radii of Gyration (Ro)				2.7734 in^6
Torsional Flexural Constant (Bet	a)			0.9882

Location (1) and (6) are tip of compression and tension lip respectively

Location (2) and (5) are flange/lip corner of compression and tension side respectively

[•] Properties based upon the AISI S100-16 - North American Specification for the Design of CFS Structural Members incl. Supplement 1 (S100-16/S1-18)

 $[\]bullet$ Effective properties include the strength increase from cold forming



Product Name : PHYSICAL PROPERTIES :	800T100-54 (50 ksi) Track (G90)	
Web Height =	8.1981 in	Steel Thickness =	0.0566 in
Top Flange =	1.0000 in	Inside Corner Radius =	0.0849 in
Bottom Flange =	1.0000 in	Yield Stress, Fy =	50.0000 ksi
Fy With Cold-Work, Fya =	50.0000 ksi	, · ,	
Effective Section Propertie	es, Strong Axis		
Neutral Axis from Top Fiber (Yo	:g)		4.5819 in
Moment of Inertia for Deflection	(lxx)		4.1183 in^
Section Modulus (Sxx)			0.7958 in [^]
Allowable Bending Moment (Ma	a)		1985.43 ft
Gross Section Properties	of Full Section, Strong Axis		
Neutral Axis from Top Fiber (Yo	eg)		4.0991 in
Moment of Inertia (Ixxg)			4.2761 in^
Section modules (Sxxg)			1.0432 in^
Cross Sectional Area (Ag)			0.5653 in^
Radius of Gyration (Rxg)			2.7503 in
Section Properties, Weak	Axis		
Gross Neutral Axis (Xcg) From	Web Face		0.1230 in
Gross Moment of Inertia (Iyy)			0.0295 in [^]
Radius of Gyration (Ry)			0.2285 in
Other Section Property Da	ta		
Member Weight per Foot of Ler	ngth		1.9236 lb/
Allowable Shear Force In Web ((Unpunched)		2038.94 lb
Torsional Properties			
Dist. from Shear Center to Neut	tral Axis (Xo)		-0.2975 in
St. Venant torsion Constant (J x	c 1000)		0.6037 in^
Warping Constant (Cw)			0.3941 in [^]
Radii of Gyration (Ro)			2.7758 in^
Torsional Flexural Constant (Be	eta)		0.9885

Location (1) and (6) are tip of compression and tension lip respectively

Location (2) and (5) are flange/lip corner of compression and tension side respectively

[•] Properties based upon the AISI S100-16 - North American Specification for the Design of CFS Structural Members incl. Supplement 1 (S100-16/S1-18)

 $[\]bullet$ Effective properties include the strength increase from cold forming



Product Name : PHYSICAL PROPERTIES :	800T125-33 (33 ksi)) Track (G90)	
Web Height =	8.1457 in	Steel Thickness =	0.0346 in
Top Flange =	1.2500 in	Inside Corner Radius =	0.0765 in
Bottom Flange =	1.2500 in	Yield Stress, Fy =	33.0000 ksi
Fy With Cold-Work, Fya =	33.0000 ksi	, , , , , , , , , , , , , , , , , , ,	
Effective Section Propertie	es, Strong Axis		
Neutral Axis from Top Fiber (Yo	·g)		5.0151 in
Moment of Inertia for Deflection	(lxx)		2.4412 in^4
Section Modulus (Sxx)			0.4066 in^3
Allowable Bending Moment (Ma	a)		669.49 ft-lb
Gross Section Properties	of Full Section, Strong Axis		
Neutral Axis from Top Fiber (Yo	eg)		4.0728 in
Moment of Inertia (Ixxg)			2.8955 in^4
Section modules (Sxxg)			0.7109 in^3
Cross Sectional Area (Ag)			0.3632 in^2
Radius of Gyration (Rxg)			2.8236 in
Section Properties, Weak	Axis		
Gross Neutral Axis (Xcg) From	Web Face		0.1622 in
Gross Moment of Inertia (Iyy)			0.0356 in^4
Radius of Gyration (Ry)			0.3130 in
Other Section Property Da	ta		
Member Weight per Foot of Ler	ngth		1.2358 lb/ft
Allowable Shear Force In Web	(Unpunched)		465.29 lb
Torsional Properties			
Dist. from Shear Center to Neut	tral Axis (Xo)		-0.4389 in
St. Venant torsion Constant (J >	x 1000)		0.1449 in^4
Warping Constant (Cw)			0.4564 in^6
Radii of Gyration (Ro)			2.8746 in^6
Torsional Flexural Constant (Be	eta)		0.9767

Location (1) and (6) are tip of compression and tension lip respectively

Location (2) and (5) are flange/lip corner of compression and tension side respectively

- Properties based upon the AISI S100-16 North American Specification for the Design of CFS Structural Members incl. Supplement 1 (S100-16/S1-18)
- Effective properties include the strength increase from cold forming

^{***} WEB DEPTH-TO-THICKNESS = 229 > 200 ***



Product Name :	800T125-43 (33 ksi)	Track (G90)		
PHYSICAL PROPERTIES :		, ,		
Web Height =	8.1614 in	Steel Thickness =	0.0451 in	
Top Flange =	1.2500 in	Inside Corner Radius =	0.0712 in	
Bottom Flange =	1.2500 in	Yield Stress, Fy =	33.0000 ksi	
Fy With Cold-Work, Fya =	33.0000 ksi			
Effective Section Propertie	es, Strong Axis			
Neutral Axis from Top Fiber (Yo	eg)			4.7076 in
Moment of Inertia for Deflection	(lxx)			3.4838 in^4
Section Modulus (Sxx)				0.6403 in^3
Allowable Bending Moment (Ma	a)			1054.33 ft-lb
Gross Section Properties	of Full Section, Strong Axis			
Neutral Axis from Top Fiber (Yo	eg)			4.0807 in
Moment of Inertia (Ixxg)				3.7725 in^4
Section modules (Sxxg)				0.9245 in^3
Cross Sectional Area (Ag)				0.4731 in^2
Radius of Gyration (Rxg)				2.8237 in
Section Properties, Weak	Axis			
Gross Neutral Axis (Xcg) From	Web Face			0.1663 in
Gross Moment of Inertia (lyy)				0.0458 in^4
Radius of Gyration (Ry)				0.3112 in
Other Section Property Da	ta			
Member Weight per Foot of Ler	ngth			1.6100 lb/ft
Allowable Shear Force In Web	(Unpunched)			1029.75 lb
Torsional Properties				
Dist. from Shear Center to Neur	tral Axis (Xo)			-0.4357 in
St. Venant torsion Constant (J	k 1000)			0.3208 in^4
Warping Constant (Cw)				0.5890 in^6
Radii of Gyration (Ro)				2.8741 in^6
Torsional Flexural Constant (Be	eta)			0.9770

Location (1) and (6) are tip of compression and tension lip respectively

Location (2) and (5) are flange/lip corner of compression and tension side respectively

[•] Properties based upon the AISI S100-16 - North American Specification for the Design of CFS Structural Members incl. Supplement 1 (S100-16/S1-18)

 $[\]bullet$ Effective properties include the strength increase from cold forming



Product Name :	800T125-54 (50 ksi) Track (G90)		
PHYSICAL PROPERTIES :		, ,		
Web Height =	8.1981 in	Steel Thickness =	0.0566 in	
Top Flange =	1.2500 in	Inside Corner Radius =	0.0849 in	
Bottom Flange =	1.2500 in	Yield Stress, Fy =	50.0000 ksi	
Fy With Cold-Work, Fya =	50.0000 ksi			
Effective Section Properti	es, Strong Axis			
Neutral Axis from Top Fiber (Yo	eg)			4.6844 in
Moment of Inertia for Deflection	ı (lxx)			4.4257 in^4
Section Modulus (Sxx)				0.8237 in^3
Allowable Bending Moment (Ma	a)			2055.18 ft-lb
Gross Section Properties	of Full Section, Strong Axis			
Neutral Axis from Top Fiber (Yo	eg)			4.0991 in
Moment of Inertia (Ixxg)				4.7451 in^4
Section modules (Sxxg)				1.1576 in^3
Cross Sectional Area (Ag)				0.5936 in^2
Radius of Gyration (Rxg)				2.8273 in
Section Properties, Weak	Axis			
Gross Neutral Axis (Xcg) From	Web Face			0.1708 in
Gross Moment of Inertia (Iyy)				0.0567 in^4
Radius of Gyration (Ry)				0.3091 in
Other Section Property Da	nta			
Member Weight per Foot of Le	ngth			2.0199 lb/ft
Allowable Shear Force In Web	(Unpunched)			2038.94 lb
Torsional Properties				
Dist. from Shear Center to Neu	tral Axis (Xo)			-0.4319 in
St. Venant torsion Constant (J	x 1000)			0.6339 in^4
Warping Constant (Cw)				0.7350 in^6
Radii of Gyration (Ro)				2.8768 in^6
Torsional Flexural Constant (Be	eta)			0.9775

Location (1) and (6) are tip of compression and tension lip respectively

Location (2) and (5) are flange/lip corner of compression and tension side respectively

[•] Properties based upon the AISI S100-16 - North American Specification for the Design of CFS Structural Members incl. Supplement 1 (S100-16/S1-18)

[•] Effective properties include the strength increase from cold forming



Product Name :	800T150-33 (33 ksi)	Track (G90)		
PHYSICAL PROPERTIES:				
Web Height =	8.1457 in	Steel Thickness =	0.0346 in	
Top Flange =	1.5000 in	Inside Corner Radius =	0.0765 in	
Bottom Flange =	1.5000 in	Yield Stress, Fy =	33.0000 ksi	
Fy With Cold-Work, Fya =	33.0000 ksi			
Effective Section Propertie	es, Strong Axis			
Neutral Axis from Top Fiber (Yo	g)		Ę	5.1308 in
Moment of Inertia for Deflection	(lxx)		2	2.5688 in^4
Section Modulus (Sxx)			(0.4138 in^3
Allowable Bending Moment (Ma	n)		6	681.40 ft-lb
Gross Section Properties	of Full Section, Strong Axis			
Neutral Axis from Top Fiber (Yo	g)		4	4.0728 in
Moment of Inertia (Ixxg)			3	3.1800 in^4
Section modules (Sxxg)			(0.7808 in^3
Cross Sectional Area (Ag)			(0.3805 in^2
Radius of Gyration (Rxg)			2	2.8911 in
Section Properties, Weak	Axis			
Gross Neutral Axis (Xcg) From	Web Face		(0.2173 in
Gross Moment of Inertia (lyy)			(0.0600 in^4
Radius of Gyration (Ry)			(0.3970 in
Other Section Property Da	ta			
Member Weight per Foot of Ler	ngth		•	1.2946 lb/ft
Allowable Shear Force In Web	(Unpunched)		2	465.29 lb
Torsional Properties				
Dist. from Shear Center to Neut	ral Axis (Xo)		-	-0.5878 in
St. Venant torsion Constant (J >	(1000)		(0.1518 in^4
Warping Constant (Cw)			(0.7515 in^6
Radii of Gyration (Ro)			2	2.9768 in^6
Torsional Flexural Constant (Be	ta)		(0.9610

Location (1) and (6) are tip of compression and tension lip respectively

Location (2) and (5) are flange/lip corner of compression and tension side respectively

- Properties based upon the AISI S100-16 North American Specification for the Design of CFS Structural Members incl. Supplement 1 (S100-16/S1-18)
- Effective properties include the strength increase from cold forming

^{***} WEB DEPTH-TO-THICKNESS = 229 > 200 ***



Product Name : PHYSICAL PROPERTIES :	800T150-43 (33 ksi)	Track (G90)		
Web Height =	8.1614 in	Steel Thickness =	0.0451 in	
Top Flange =	1.5000 in	Inside Corner Radius =	0.0712 in	
Bottom Flange =	1.5000 in	Yield Stress, Fy =	33.0000 ksi	
Fy With Cold-Work, Fya =	33.0000 ksi			
Effective Section Propertie	es, Strong Axis			
Neutral Axis from Top Fiber (Yc	g)			4.8147 in
Moment of Inertia for Deflection	(lxx)			3.6892 in^4
Section Modulus (Sxx)				0.6552 in^3
Allowable Bending Moment (Ma)			1078.94 ft-lb
Gross Section Properties o	of Full Section, Strong Axis			
Neutral Axis from Top Fiber (Yc	g)			4.0807 in
Moment of Inertia (Ixxg)				4.1439 in^4
Section modules (Sxxg)				1.0155 in^3
Cross Sectional Area (Ag)				0.4957 in^2
Radius of Gyration (Rxg)				2.8914 in
Section Properties, Weak	Axis			
Gross Neutral Axis (Xcg) From \	Web Face			0.2213 in
Gross Moment of Inertia (Iyy)				0.0774 in^4
Radius of Gyration (Ry)				0.3951 in
Other Section Property Date	ta			
Member Weight per Foot of Len	gth			1.6867 lb/ft
Allowable Shear Force In Web (Unpunched)			1029.75 lb
Torsional Properties				
Dist. from Shear Center to Neut	ral Axis (Xo)			-0.5844 in
St. Venant torsion Constant (J x	1000)			0.3361 in^4
Warping Constant (Cw)				0.9717 in^6
Radii of Gyration (Ro)				2.9762 in^6
Torsional Flexural Constant (Be	ta)			0.9614

Location (1) and (6) are tip of compression and tension lip respectively

Location (2) and (5) are flange/lip corner of compression and tension side respectively

[•] Properties based upon the AISI S100-16 - North American Specification for the Design of CFS Structural Members incl. Supplement 1 (S100-16/S1-18)

 $[\]bullet$ Effective properties include the strength increase from cold forming



Product Name :	800T150-54 (50 ksi)	Track (G90)		
PHYSICAL PROPERTIES :	, ,	,		
Web Height =	8.1981 in	Steel Thickness =	0.0566 in	
Top Flange =	1.5000 in	Inside Corner Radius =	0.0849 in	
Bottom Flange =	1.5000 in	Yield Stress, Fy =	50.0000 ksi	
Fy With Cold-Work, Fya =	50.0000 ksi			
Effective Section Properties,	Strong Axis			
Neutral Axis from Top Fiber (Ycg)				4.7904 in
Moment of Inertia for Deflection (Ixx	x)			4.6923 in^4
Section Modulus (Sxx)				0.8439 in^3
Allowable Bending Moment (Ma)				2105.47 ft-lb
Gross Section Properties of F	full Section, Strong Axis			
Neutral Axis from Top Fiber (Ycg)				4.0991 in
Moment of Inertia (Ixxg)				5.2140 in^4
Section modules (Sxxg)				1.2720 in^3
Cross Sectional Area (Ag)				0.6219 in^2
Radius of Gyration (Rxg)				2.8955 in
Section Properties, Weak Axis	s			
Gross Neutral Axis (Xcg) From Web	Face			0.2256 in
Gross Moment of Inertia (lyy)				0.0961 in^4
Radius of Gyration (Ry)				0.3930 in
Other Section Property Data				
Member Weight per Foot of Length				2.1162 lb/ft
Allowable Shear Force In Web (Unp	ounched)			2038.94 lb
Torsional Properties				
Dist. from Shear Center to Neutral A	Axis (Xo)			-0.5801 in
St. Venant torsion Constant (J x 100	00)			0.6641 in^4
Warping Constant (Cw)				1.2154 in^6
Radii of Gyration (Ro)				2.9791 in^6
Torsional Flexural Constant (Beta)				0.9621

Location (1) and (6) are tip of compression and tension lip respectively

Location (2) and (5) are flange/lip corner of compression and tension side respectively

[•] Properties based upon the AISI S100-16 - North American Specification for the Design of CFS Structural Members incl. Supplement 1 (S100-16/S1-18)

 $[\]bullet$ Effective properties include the strength increase from cold forming