RESCUE METAL FRAMING

1601 Australian Avenue
Riviera Beach, FL 33404
(561) 766-2192

PRODUCT SUBMITTAL DATA

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 Properties, Strong Axis	
Neutral Axis from Top Fiber (Ycg)	1.2737 in
Moment of Inertia for Deflection (Ixx)	0.2352 in^4
Section Modulus (Sxx)	0.1798 in^3
Allowable Bending Moment (Ma)	296.12 ft-lb
Allowable Distortional Buckling Moment (Mda) at Kϕ = 0	284.67 ft-lb
Gross Section Properties of Full Section, Strong Axis	
Neutral Axis from Top Fiber (Ycg)	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 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) From 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 Length	0.7595 lb/ft
Allowable Shear Force In Web (Unpunched)	975.34 lb
Allowable Shear Force In Web (Punched)	398.80 lb
Torsional Properties	
Dist. from Shear Center to Neutral Axis (Xo)	-1.4695 in
St. Venant torsion Constant (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 (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
Location (3) and (4) are flange/web 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

RESCUE METAL FRAMING

1601 Australian Avenue
Riviera Beach, FL 33404
(561) 766-2192

PRODUCT SUBMITTAL DATA

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 Properties, Strong Axis	
Neutral Axis from Top Fiber (Ycg)	1.2500 in
Moment of Inertia for Deflection (Ixx)	0.3020 in^4
Section Modulus (Sxx)	0.2416 in^3
Allowable Bending Moment (Ma)	397.84 ft-lb
Allowable Distortional Buckling Moment (Mda) at Kϕ = 0	393.46 ft-lb
Gross Section Properties 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 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, Weak Axis	
Gross Neutral Axis (Xcg) From Web Face	0.6276 in
Gross Moment of Inertia (Iyy)	0.1110 in^4
Radius of Gyration (Ry)	0.6197 in
Other Section Properties	
Member Weight per Foot of Length	0.9835 lb/ft
Allowable Shear Force In Web (Unpunched)	1265.46 lb
Allowable Shear Force In Web (Punched)	394.23 lb
Torsional Properties	
Dist. from Shear Center to Neutral 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
Location (3) and (4) are flange/web corner of compression and tension side respectively

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RESCUE METAL FRAMING

1601 Australian Avenue
Riviera Beach, FL 33404
(561) 766-2192

PRODUCT SUBMITTAL DATA

Product Name :	**250S162-54 (50 ksi) 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 Properties, Strong Axis	
Neutral Axis from Top Fiber (Ycg)	1.2666 in
Moment of Inertia for Deflection (Ixx)	0.3697 in^4
Section Modulus (Sxx)	0.2881 in^3
Allowable Bending Moment (Ma)	718.74 ft-lb
Allowable Distortional Buckling Moment (Mda) at Kϕ = 0	695.60 ft-lb
Gross Section Properties 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 of 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, Weak Axis	
Gross Neutral Axis (Xcg) From Web Face	0.6266 in
Gross Moment of Inertia (Iyy)	0.1348 in^4
Radius of Gyration (Ry)	0.6134 in
Other Section Properties	
Member Weight per Foot of Length	1.2190 lb/ft
Allowable Shear Force In Web (Unpunched)	2352.79 lb
Allowable Shear Force In Web (Punched)	564.64 lb
Torsional Properties	
Dist. from Shear Center to Neutral 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 (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
Location (3) and (4) are flange/web corner of compression and tension side respectively

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RESCUE METAL FRAMING

1601 Australian Avenue
Riviera Beach, FL 33404
(561) 766-2192

PRODUCT SUBMITTAL DATA

Product Name :	**362S162-33 (33 ksi) Structural Stud (G60)**		
PHYSICAL PROPERTIES :			
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 Properties, Strong Axis	
Neutral Axis from Top Fiber (Ycg)	1.9189 in
Moment of Inertia for Deflection (Ixx)	0.5512 in^4
Section Modulus (Sxx)	0.2677 in^3
Allowable Bending Moment (Ma)	440.87 ft-lb
Allowable Distortional Buckling Moment (Mda) at Kϕ = 0	434.51 ft-lb
Gross Section Properties 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 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, Weak Axis	
Gross Neutral Axis (Xcg) From Web Face	0.5370 in
Gross Moment of Inertia (Iyy)	0.0993 in^4
Radius of Gyration (Ry)	0.6155 in
Other Section Properties	
Member Weight per Foot of Length	0.8919 lb/ft
Allowable Shear Force In Web (Unpunched)	1023.58 lb
Allowable Shear Force In Web (Punched)	521.24 lb
Torsional Properties	
Dist. from Shear Center to Neutral 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
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Location (3) and (4) are flange/web corner of compression and tension side respectively

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RESCUE METAL FRAMING

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PRODUCT SUBMITTAL DATA

Product Name :	**362S162-43 (33 ksi) Structural Stud (G60)**		
PHYSICAL PROPERTIES :			
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 Properties, Strong Axis	
Neutral Axis from Top Fiber (Ycg)	1.8509 in
Moment of Inertia for Deflection (Ixx)	0.7098 in^4
Section Modulus (Sxx)	0.3716 in^3
Allowable Bending Moment (Ma)	611.99 ft-lb
Allowable Distortional Buckling Moment (Mda) at Kϕ = 0	609.61 ft-lb
Gross Section Properties 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 of 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, Weak Axis	
Gross Neutral Axis (Xcg) From Web Face	0.5373 in
Gross Moment of Inertia (Iyy)	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 (Unpunched)	1739.09 lb
Allowable Shear Force In Web (Punched)	675.67 lb
Torsional Properties	
Dist. from Shear Center to Neutral 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
Location (3) and (4) are flange/web corner of compression and tension side respectively

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RESCUE METAL FRAMING

1601 Australian Avenue
Riviera Beach, FL 33404
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PRODUCT SUBMITTAL DATA

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 Properties, Strong Axis	
Neutral Axis from Top Fiber (Ycg)	1.8772 in
Moment of Inertia for Deflection (Ixx)	0.8727 in^4
Section Modulus (Sxx)	0.4435 in^3
Allowable Bending Moment (Ma)	1106.66 ft-lb
Allowable Distortional Buckling Moment (Mda) at Kϕ = 0	1077.75 ft-lb
Gross Section Properties 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 of the Punched Section, Strong 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, Weak Axis	
Gross Neutral Axis (Xcg) From Web Face	0.5363 in
Gross Moment of Inertia (Iyy)	0.1541 in^4
Radius of Gyration (Ry)	0.6044 in
Other Section Properties	
Member Weight per Foot of Length	1.4357 lb/ft
Allowable Shear Force In Web (Unpunched)	3371.56 lb
Allowable Shear Force In Web (Punched)	1015.97 lb
Torsional Properties	
Dist. from Shear Center to Neutral 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 (Beta)	0.5967

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
Location (3) and (4) are flange/web corner of compression and tension side respectively

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- Effective properties include the strength increase from cold forming

RESCUE METAL FRAMING

1601 Australian Avenue
Riviera Beach, FL 33404
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PRODUCT SUBMITTAL DATA

Product Name :	**400S162-33 (33 ksi) Structural Stud (G60)**		
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 =	33.0000 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)	2.1436 in
Moment of Inertia for Deflection (Ixx)	0.6921 in^4
Section Modulus (Sxx)	0.2989 in^3
Allowable Bending Moment (Ma)	492.21 ft-lb
Allowable Distortional Buckling Moment (Mda) at Kϕ = 0	485.78 ft-lb
Gross Section Properties 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 of the Punched Section, Strong 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 Axis	
Gross Neutral Axis (Xcg) From Web 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 Length	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 Neutral 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
Location (3) and (4) are flange/web corner of compression and tension side respectively

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RESCUE METAL FRAMING

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PRODUCT SUBMITTAL DATA

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 Properties, Strong Axis	
Neutral Axis from Top Fiber (Ycg)	2.0660 in
Moment of Inertia for Deflection (Ixx)	0.8919 in^4
Section Modulus (Sxx)	0.4166 in^3
Allowable Bending Moment (Ma)	686.00 ft-lb
Allowable Distortional Buckling Moment (Mda) at Kϕ = 0	683.84 ft-lb
Gross Section Properties 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 of 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, Weak Axis	
Gross Neutral Axis (Xcg) From Web Face	0.5128 in
Gross Moment of Inertia (Iyy)	0.1311 in^4
Radius of Gyration (Ry)	0.6062 in
Other Section Properties	
Member Weight per Foot of Length	1.2137 lb/ft
Allowable Shear Force In Web (Unpunched)	1739.09 lb
Allowable Shear Force In Web (Punched)	809.56 lb
Torsional Properties	
Dist. from Shear Center to Neutral 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 (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
Location (3) and (4) are flange/web corner of compression and tension side respectively

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RESCUE METAL FRAMING

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PRODUCT SUBMITTAL DATA

Product Name :	**400S162-54 (50 ksi) Structural Stud (G60)**		
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 =	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 (Ixx)	1.0977 in^4
Section Modulus (Sxx)	0.4975 in^3
Allowable Bending Moment (Ma)	1241.34 ft-lb
Allowable Distortional Buckling Moment (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, Strong 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 Axis	
Gross Neutral Axis (Xcg) From Web 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	1.5079 lb/ft
Allowable Shear Force In Web (Unpunched)	3371.56 lb
Allowable Shear Force In Web (Punched)	1222.80 lb
Torsional Properties	
Dist. from Shear Center to Neutral Axis (Xo)	-1.2378 in
St. Venant torsion Constant (J x 1000)	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
Location (3) and (4) are flange/web 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

RESCUE METAL FRAMING

1601 Australian Avenue
Riviera Beach, FL 33404
(561) 766-2192

PRODUCT SUBMITTAL DATA

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 Properties, Strong Axis	
Neutral Axis from Top Fiber (Ycg)	3.0387 in
Moment of Inertia for Deflection (Ixx)	1.7928 in^4
Section Modulus (Sxx)	0.5773 in^3
Allowable Bending Moment (Ma)	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 (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 the Punched Section, Strong 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 Length	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 Neutral 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
Location (3) and (4) are flange/web 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

RESCUE METAL FRAMING

1601 Australian Avenue
Riviera Beach, FL 33404
(561) 766-2192

PRODUCT SUBMITTAL DATA

Product Name :	**600S162-43 (33 ksi) Structural Stud (G60)**		
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 (Ixx)	2.3158 in^4
Section Modulus (Sxx)	0.7719 in^3
Allowable Bending Moment (Ma)	1271.14 ft-lb
Allowable Distortional Buckling Moment (Mda) at Kϕ = 0	1087.91 ft-lb
Gross Section Properties of Full Section, Strong Axis	
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, Strong 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 Axis	
Gross Neutral Axis (Xcg) From Web 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	1.5206 lb/ft
Allowable Shear Force In Web (Unpunched)	1415.67 lb
Allowable Shear Force In Web (Punched)	1240.29 lb
Torsional Properties	
Dist. from Shear Center to Neutral Axis (Xo)	-1.0617 in
St. Venant torsion Constant (J x 1000)	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
Location (3) and (4) are flange/web 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

RESCUE METAL FRAMING

1601 Australian Avenue
Riviera Beach, FL 33404
(561) 766-2192

PRODUCT SUBMITTAL DATA

Product Name :	**600S162-54 (50 ksi) Structural Stud (G60)**		
PHYSICAL PROPERTIES :			
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 Properties, Strong Axis	
Neutral Axis from Top Fiber (Ycg)	3.0335 in
Moment of Inertia for Deflection (Ixx)	2.8604 in^4
Section Modulus (Sxx)	0.9272 in^3
Allowable Bending Moment (Ma)	2313.36 ft-lb
Allowable Distortional Buckling Moment (Mda) at Kϕ = 0	1930.24 ft-lb
Gross Section Properties 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 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, Weak Axis	
Gross Neutral Axis (Xcg) From Web Face	0.4136 in
Gross Moment of Inertia (Iyy)	0.1805 in^4
Radius of Gyration (Ry)	0.5695 in
Other Section Properties	
Member Weight per Foot of Length	1.8931 lb/ft
Allowable Shear Force In Web (Unpunched)	2822.88 lb
Allowable Shear Force In Web (Punched)	1947.40 lb
Torsional Properties	
Dist. from Shear Center to Neutral 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
Location (3) and (4) are flange/web 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

RESCUE METAL FRAMING

1601 Australian Avenue
Riviera Beach, FL 33404
(561) 766-2192

PRODUCT SUBMITTAL DATA

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 Properties, Strong Axis	
Neutral Axis from Top Fiber (Ycg)	4.4637 in
Moment of Inertia for Deflection (Ixx)	3.3844 in^4
Section Modulus (Sxx)	0.7098 in^3
Allowable Bending Moment (Ma)	1168.89 ft-lb
Allowable Distortional Buckling Moment (Mda) at Kϕ = 0	1017.71 ft-lb
Gross Section Properties of Full Section, Strong Axis	
Neutral Axis from Top Fiber (Ycg)	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 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 Length	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 Neutral 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 (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
Location (3) and (4) are flange/web 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

RESCUE METAL FRAMING

1601 Australian Avenue
Riviera Beach, FL 33404
(561) 766-2192

PRODUCT SUBMITTAL DATA

Product Name :	**800S162-43 (33 ksi) 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 Properties, Strong Axis	
Neutral Axis from Top Fiber (Ycg)	4.2699 in
Moment of Inertia for Deflection (Ixx)	4.4998 in^4
Section Modulus (Sxx)	1.0192 in^3
Allowable Bending Moment (Ma)	1678.40 ft-lb
Allowable Distortional Buckling Moment (Mda) at Kϕ = 0	1475.63 ft-lb
Gross Section Properties 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 of the Punched Section, Strong 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 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 Length	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 Neutral 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 (Beta)	0.9123

Location (1) and (6) are tip of compression and tension lip respectively
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Location (3) and (4) are flange/web corner of compression and tension side respectively

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RESCUE METAL FRAMING

1601 Australian Avenue
Riviera Beach, FL 33404
(561) 766-2192

PRODUCT SUBMITTAL DATA

Product Name :	**800S162-54 (50 ksi) Structural Stud (G60)**		
PHYSICAL PROPERTIES :			
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 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 Moment (Mda) at Kϕ = 0	2625.60 ft-lb
Gross Section Properties 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 of 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, Weak Axis	
Gross Neutral Axis (Xcg) From Web 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 (Unpunched)	2091.28 lb
Allowable Shear Force In Web (Punched)	2091.28 lb
Torsional Properties	
Dist. from Shear Center to Neutral 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 (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
Location (3) and (4) are flange/web corner of compression and tension side respectively

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- Effective properties include the strength increase from cold forming

RESCUE METAL FRAMING

1601 Australian Avenue
Riviera Beach, FL 33404
(561) 766-2192

PRODUCT SUBMITTAL DATA

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 Properties, Strong Axis	
Neutral Axis from Top Fiber (Ycg)	1.2737 in
Moment of Inertia for Deflection (Ixx)	0.2352 in^4
Section Modulus (Sxx)	0.1798 in^3
Allowable Bending Moment (Ma)	296.12 ft-lb
Allowable Distortional Buckling Moment (Mda) at Kϕ = 0	284.67 ft-lb
Gross Section Properties of Full Section, Strong Axis	
Neutral Axis from Top Fiber (Ycg)	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 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) From 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 Length	0.7595 lb/ft
Allowable Shear Force In Web (Unpunched)	975.34 lb
Allowable Shear Force In Web (Punched)	398.80 lb
Torsional Properties	
Dist. from Shear Center to Neutral Axis (Xo)	-1.4695 in
St. Venant torsion Constant (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 (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
Location (3) and (4) are flange/web 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

RESCUE METAL FRAMING

1601 Australian Avenue
Riviera Beach, FL 33404
(561) 766-2192

PRODUCT SUBMITTAL DATA

Product Name :	**250S162-43 (33 ksi) Structural Stud (G90)**		
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 Properties, Strong Axis	
Neutral Axis from Top Fiber (Ycg)	1.2500 in
Moment of Inertia for Deflection (Ixx)	0.3020 in^4
Section Modulus (Sxx)	0.2416 in^3
Allowable Bending Moment (Ma)	397.84 ft-lb
Allowable Distortional Buckling Moment (Mda) at Kϕ = 0	393.46 ft-lb
Gross Section Properties 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 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, Weak Axis	
Gross Neutral Axis (Xcg) From Web Face	0.6276 in
Gross Moment of Inertia (Iyy)	0.1110 in^4
Radius of Gyration (Ry)	0.6197 in
Other Section Properties	
Member Weight per Foot of Length	0.9835 lb/ft
Allowable Shear Force In Web (Unpunched)	1265.46 lb
Allowable Shear Force In Web (Punched)	394.23 lb
Torsional Properties	
Dist. from Shear Center to Neutral 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
Location (3) and (4) are flange/web 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

RESCUE METAL FRAMING

1601 Australian Avenue
Riviera Beach, FL 33404
(561) 766-2192

PRODUCT SUBMITTAL DATA

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 Properties, Strong Axis	
Neutral Axis from Top Fiber (Ycg)	1.2666 in
Moment of Inertia for Deflection (Ixx)	0.3697 in^4
Section Modulus (Sxx)	0.2881 in^3
Allowable Bending Moment (Ma)	718.74 ft-lb
Allowable Distortional Buckling Moment (Mda) at Kϕ = 0	695.60 ft-lb
Gross Section Properties 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 of 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, Weak Axis	
Gross Neutral Axis (Xcg) From Web Face	0.6266 in
Gross Moment of Inertia (Iyy)	0.1348 in^4
Radius of Gyration (Ry)	0.6134 in
Other Section Properties	
Member Weight per Foot of Length	1.2190 lb/ft
Allowable Shear Force In Web (Unpunched)	2352.79 lb
Allowable Shear Force In Web (Punched)	564.64 lb
Torsional Properties	
Dist. from Shear Center to Neutral 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 (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
Location (3) and (4) are flange/web 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

RESCUE METAL FRAMING

1601 Australian Avenue
Riviera Beach, FL 33404
(561) 766-2192

PRODUCT SUBMITTAL DATA

Product Name :	**362S162-33 (33 ksi) Structural Stud (G90)**		
PHYSICAL PROPERTIES :			
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 Properties, Strong Axis	
Neutral Axis from Top Fiber (Ycg)	1.9189 in
Moment of Inertia for Deflection (Ixx)	0.5512 in^4
Section Modulus (Sxx)	0.2677 in^3
Allowable Bending Moment (Ma)	440.87 ft-lb
Allowable Distortional Buckling Moment (Mda) at Kϕ = 0	434.51 ft-lb
Gross Section Properties 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 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, Weak Axis	
Gross Neutral Axis (Xcg) From Web Face	0.5370 in
Gross Moment of Inertia (Iyy)	0.0993 in^4
Radius of Gyration (Ry)	0.6155 in
Other Section Properties	
Member Weight per Foot of Length	0.8919 lb/ft
Allowable Shear Force In Web (Unpunched)	1023.58 lb
Allowable Shear Force In Web (Punched)	521.24 lb
Torsional Properties	
Dist. from Shear Center to Neutral 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
Location (3) and (4) are flange/web 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

RESCUE METAL FRAMING

1601 Australian Avenue
Riviera Beach, FL 33404
(561) 766-2192

PRODUCT SUBMITTAL DATA

Product Name :	**362S162-43 (33 ksi) Structural Stud (G90)**		
PHYSICAL PROPERTIES :			
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 Properties, Strong Axis	
Neutral Axis from Top Fiber (Ycg)	1.8509 in
Moment of Inertia for Deflection (Ixx)	0.7098 in^4
Section Modulus (Sxx)	0.3716 in^3
Allowable Bending Moment (Ma)	611.99 ft-lb
Allowable Distortional Buckling Moment (Mda) at Kϕ = 0	609.61 ft-lb
Gross Section Properties 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 of 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, Weak Axis	
Gross Neutral Axis (Xcg) From Web Face	0.5373 in
Gross Moment of Inertia (Iyy)	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 (Unpunched)	1739.09 lb
Allowable Shear Force In Web (Punched)	675.67 lb
Torsional Properties	
Dist. from Shear Center to Neutral 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
Location (3) and (4) are flange/web 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

RESCUE METAL FRAMING

1601 Australian Avenue
Riviera Beach, FL 33404
(561) 766-2192

PRODUCT SUBMITTAL DATA

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 Properties, Strong Axis	
Neutral Axis from Top Fiber (Ycg)	1.8772 in
Moment of Inertia for Deflection (Ixx)	0.8727 in^4
Section Modulus (Sxx)	0.4435 in^3
Allowable Bending Moment (Ma)	1106.66 ft-lb
Allowable Distortional Buckling Moment (Mda) at Kϕ = 0	1077.75 ft-lb
Gross Section Properties 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 of the Punched Section, Strong 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, Weak Axis	
Gross Neutral Axis (Xcg) From Web Face	0.5363 in
Gross Moment of Inertia (Iyy)	0.1541 in^4
Radius of Gyration (Ry)	0.6044 in
Other Section Properties	
Member Weight per Foot of Length	1.4357 lb/ft
Allowable Shear Force In Web (Unpunched)	3371.56 lb
Allowable Shear Force In Web (Punched)	1015.97 lb
Torsional Properties	
Dist. from Shear Center to Neutral 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 (Beta)	0.5967

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
Location (3) and (4) are flange/web 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

RESCUE METAL FRAMING

1601 Australian Avenue
Riviera Beach, FL 33404
(561) 766-2192

PRODUCT SUBMITTAL DATA

Product Name :	**400S162-33 (33 ksi) 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 =	33.0000 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)	2.1436 in
Moment of Inertia for Deflection (Ixx)	0.6921 in^4
Section Modulus (Sxx)	0.2989 in^3
Allowable Bending Moment (Ma)	492.21 ft-lb
Allowable Distortional Buckling Moment (Mda) at Kϕ = 0	485.78 ft-lb
Gross Section Properties 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 of the Punched Section, Strong 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 Axis	
Gross Neutral Axis (Xcg) From Web 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 Length	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 Neutral 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
Location (3) and (4) are flange/web 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)
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RESCUE METAL FRAMING

1601 Australian Avenue
Riviera Beach, FL 33404
(561) 766-2192

PRODUCT SUBMITTAL DATA

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 Properties, Strong Axis	
Neutral Axis from Top Fiber (Ycg)	2.0660 in
Moment of Inertia for Deflection (Ixx)	0.8919 in^4
Section Modulus (Sxx)	0.4166 in^3
Allowable Bending Moment (Ma)	686.00 ft-lb
Allowable Distortional Buckling Moment (Mda) at Kϕ = 0	683.84 ft-lb
Gross Section Properties 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 of 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, Weak Axis	
Gross Neutral Axis (Xcg) From Web Face	0.5128 in
Gross Moment of Inertia (Iyy)	0.1311 in^4
Radius of Gyration (Ry)	0.6062 in
Other Section Properties	
Member Weight per Foot of Length	1.2137 lb/ft
Allowable Shear Force In Web (Unpunched)	1739.09 lb
Allowable Shear Force In Web (Punched)	809.56 lb
Torsional Properties	
Dist. from Shear Center to Neutral 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 (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
Location (3) and (4) are flange/web corner of compression and tension side respectively

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RESCUE METAL FRAMING

1601 Australian Avenue
Riviera Beach, FL 33404
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PRODUCT SUBMITTAL DATA

Product Name :	**400S162-54 (50 ksi) 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 =	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 (Ixx)	1.0977 in^4
Section Modulus (Sxx)	0.4975 in^3
Allowable Bending Moment (Ma)	1241.34 ft-lb
Allowable Distortional Buckling Moment (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, Strong 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 Axis	
Gross Neutral Axis (Xcg) From Web 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	1.5079 lb/ft
Allowable Shear Force In Web (Unpunched)	3371.56 lb
Allowable Shear Force In Web (Punched)	1222.80 lb
Torsional Properties	
Dist. from Shear Center to Neutral Axis (Xo)	-1.2378 in
St. Venant torsion Constant (J x 1000)	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
Location (3) and (4) are flange/web corner of compression and tension side respectively

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RESCUE METAL FRAMING

1601 Australian Avenue
Riviera Beach, FL 33404
(561) 766-2192

PRODUCT SUBMITTAL DATA

Product Name :	**600S162-33 (33 ksi) Structural Stud (G90)**		
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 Properties, Strong Axis	
Neutral Axis from Top Fiber (Ycg)	3.0387 in
Moment of Inertia for Deflection (Ixx)	1.7928 in^4
Section Modulus (Sxx)	0.5773 in^3
Allowable Bending Moment (Ma)	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 (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 the Punched Section, Strong 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 Length	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 Neutral 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
Location (3) and (4) are flange/web corner of compression and tension side respectively

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RESCUE METAL FRAMING

1601 Australian Avenue
Riviera Beach, FL 33404
(561) 766-2192

PRODUCT SUBMITTAL DATA

Product Name :	**600S162-43 (33 ksi) 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 (Ixx)	2.3158 in^4
Section Modulus (Sxx)	0.7719 in^3
Allowable Bending Moment (Ma)	1271.14 ft-lb
Allowable Distortional Buckling Moment (Mda) at Kϕ = 0	1087.91 ft-lb
Gross Section Properties of Full Section, Strong Axis	
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, Strong 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 Axis	
Gross Neutral Axis (Xcg) From Web 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	1.5206 lb/ft
Allowable Shear Force In Web (Unpunched)	1415.67 lb
Allowable Shear Force In Web (Punched)	1240.29 lb
Torsional Properties	
Dist. from Shear Center to Neutral Axis (Xo)	-1.0617 in
St. Venant torsion Constant (J x 1000)	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
Location (3) and (4) are flange/web corner of compression and tension side respectively

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- Effective properties include the strength increase from cold forming

RESCUE METAL FRAMING

1601 Australian Avenue
Riviera Beach, FL 33404
(561) 766-2192

PRODUCT SUBMITTAL DATA

Product Name :	**600S162-54 (50 ksi) Structural Stud (G90)**		
PHYSICAL PROPERTIES :			
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 Properties, Strong Axis	
Neutral Axis from Top Fiber (Ycg)	3.0335 in
Moment of Inertia for Deflection (Ixx)	2.8604 in^4
Section Modulus (Sxx)	0.9272 in^3
Allowable Bending Moment (Ma)	2313.36 ft-lb
Allowable Distortional Buckling Moment (Mda) at Kϕ = 0	1930.24 ft-lb
Gross Section Properties 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 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, Weak Axis	
Gross Neutral Axis (Xcg) From Web Face	0.4136 in
Gross Moment of Inertia (Iyy)	0.1805 in^4
Radius of Gyration (Ry)	0.5695 in
Other Section Properties	
Member Weight per Foot of Length	1.8931 lb/ft
Allowable Shear Force In Web (Unpunched)	2822.88 lb
Allowable Shear Force In Web (Punched)	1947.40 lb
Torsional Properties	
Dist. from Shear Center to Neutral 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
Location (3) and (4) are flange/web 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

RESCUE METAL FRAMING

1601 Australian Avenue
Riviera Beach, FL 33404
(561) 766-2192

PRODUCT SUBMITTAL DATA

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 Properties, Strong Axis	
Neutral Axis from Top Fiber (Ycg)	4.4637 in
Moment of Inertia for Deflection (Ixx)	3.3844 in^4
Section Modulus (Sxx)	0.7098 in^3
Allowable Bending Moment (Ma)	1168.89 ft-lb
Allowable Distortional Buckling Moment (Mda) at Kϕ = 0	1017.71 ft-lb
Gross Section Properties of Full Section, Strong Axis	
Neutral Axis from Top Fiber (Ycg)	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 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 Length	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 Neutral 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 (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
Location (3) and (4) are flange/web 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

RESCUE METAL FRAMING

1601 Australian Avenue
Riviera Beach, FL 33404
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PRODUCT SUBMITTAL DATA

Product Name :	**800S162-43 (33 ksi) Structural Stud (G90)**		
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 Properties, Strong Axis	
Neutral Axis from Top Fiber (Ycg)	4.2699 in
Moment of Inertia for Deflection (Ixx)	4.4998 in^4
Section Modulus (Sxx)	1.0192 in^3
Allowable Bending Moment (Ma)	1678.40 ft-lb
Allowable Distortional Buckling Moment (Mda) at Kϕ = 0	1475.63 ft-lb
Gross Section Properties 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 of the Punched Section, Strong 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 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 Length	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 Neutral 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 (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
Location (3) and (4) are flange/web 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

RESCUE METAL FRAMING

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(561) 766-2192

PRODUCT SUBMITTAL DATA

Product Name :	**800S162-54 (50 ksi) Structural Stud (G90)**		
PHYSICAL PROPERTIES :			
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 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 Moment (Mda) at Kϕ = 0	2625.60 ft-lb
Gross Section Properties 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 of 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, Weak Axis	
Gross Neutral Axis (Xcg) From Web 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 (Unpunched)	2091.28 lb
Allowable Shear Force In Web (Punched)	2091.28 lb
Torsional Properties	
Dist. from Shear Center to Neutral 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 (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
Location (3) and (4) are flange/web 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

RESCUE METAL FRAMING

1601 Australian Avenue
Riviera Beach, FL 33404
(561) 766-2192

PRODUCT SUBMITTAL DATA

Product Name :	**250T100-33 (33 ksi) Track (G60)**		
PHYSICAL PROPERTIES :			
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, Strong Axis	
Neutral Axis from Top Fiber (Ycg)	1.4320 in
Moment of Inertia for Deflection (Ixx)	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 (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 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 Data	
Member Weight per Foot of Length	0.5293 lb/ft
Allowable Shear Force In Web (Unpunched)	1023.58 lb
Torsional Properties	
Dist. from Shear Center to Neutral 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)	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
Location (3) and (4) are flange/web 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

RESCUE METAL FRAMING

1601 Australian Avenue
Riviera Beach, FL 33404
(561) 766-2192

PRODUCT SUBMITTAL DATA

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 Properties, Strong Axis	
Neutral Axis from Top Fiber (Ycg)	1.3978 in
Moment of Inertia for Deflection (Ixx)	0.2065 in^4
Section Modulus (Sxx)	0.1388 in^3
Allowable Bending Moment (Ma)	228.60 ft-lb
Gross Section Properties of Full Section, Strong Axis	
Neutral Axis from Top Fiber (Ycg)	1.3307 in
Moment of Inertia (Ixxg)	0.2118 in^4
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^4
Radius of Gyration (Ry)	0.3053 in
Other Section Property Data	
Member Weight per Foot of Length	0.6892 lb/ft
Allowable Shear Force In Web (Unpunched)	1355.54 lb
Torsional Properties	
Dist. from Shear Center to Neutral Axis (Xo)	-0.5510 in
St. Venant torsion Constant (J x 1000)	0.1373 in^4
Warping Constant (Cw)	0.0231 in^6
Radii of Gyration (Ro)	1.2011 in^6
Torsional Flexural Constant (Beta)	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
Location (3) and (4) are flange/web 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

RESCUE METAL FRAMING

1601 Australian Avenue
Riviera Beach, FL 33404
(561) 766-2192

PRODUCT SUBMITTAL DATA

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 Properties, Strong Axis	
Neutral Axis from Top Fiber (Ycg)	1.4074 in
Moment of Inertia for Deflection (Ixx)	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 (Ycg)	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 Data	
Member Weight per Foot of Length	0.8643 lb/ft
Allowable Shear Force In Web (Unpunched)	2563.02 lb
Torsional Properties	
Dist. from Shear Center to Neutral 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 (Beta)	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
Location (3) and (4) are flange/web 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)
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RESCUE METAL FRAMING

1601 Australian Avenue
Riviera Beach, FL 33404
(561) 766-2192

PRODUCT SUBMITTAL DATA

Product Name :	**250T125-33 (33 ksi) Track (G60)**		
PHYSICAL PROPERTIES :			
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 Properties, Strong Axis	
Neutral Axis from Top Fiber (Ycg)	1.4924 in
Moment of Inertia for Deflection (Ixx)	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 (Ycg)	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 Data	
Member Weight per Foot of Length	0.5882 lb/ft
Allowable Shear Force In Web (Unpunched)	1023.58 lb
Torsional Properties	
Dist. from Shear Center to Neutral 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 (Beta)	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
Location (3) and (4) are flange/web 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

RESCUE METAL FRAMING

1601 Australian Avenue
Riviera Beach, FL 33404
(561) 766-2192

PRODUCT SUBMITTAL DATA

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 Properties, Strong Axis	
Neutral Axis from Top Fiber (Ycg)	1.4541 in
Moment of Inertia for Deflection (Ixx)	0.2310 in^4
Section Modulus (Sxx)	0.1472 in^3
Allowable Bending Moment (Ma)	242.41 ft-lb
Gross Section Properties of Full Section, Strong Axis	
Neutral Axis from Top Fiber (Ycg)	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 Data	
Member Weight per Foot of Length	0.7659 lb/ft
Allowable Shear Force In Web (Unpunched)	1355.54 lb
Torsional Properties	
Dist. from Shear Center to Neutral 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 (Beta)	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
Location (3) and (4) are flange/web 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

RESCUE METAL FRAMING

1601 Australian Avenue
Riviera Beach, FL 33404
(561) 766-2192

PRODUCT SUBMITTAL DATA

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 Properties, Strong Axis	
Neutral Axis from Top Fiber (Ycg)	1.4634 in
Moment of Inertia for Deflection (Ixx)	0.2967 in^4
Section Modulus (Sxx)	0.1884 in^3
Allowable Bending Moment (Ma)	470.02 ft-lb
Gross Section Properties of Full Section, Strong Axis	
Neutral Axis from Top Fiber (Ycg)	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 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 Data	
Member Weight per Foot of Length	0.9606 lb/ft
Allowable Shear Force In Web (Unpunched)	2563.02 lb
Torsional Properties	
Dist. from Shear Center to Neutral 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 (Beta)	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
Location (3) and (4) are flange/web 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

RESCUE METAL FRAMING

1601 Australian Avenue
Riviera Beach, FL 33404
(561) 766-2192

PRODUCT SUBMITTAL DATA

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 Properties, Strong Axis	
Neutral Axis from Top Fiber (Ycg)	1.5485 in
Moment of Inertia for Deflection (Ixx)	0.1795 in^4
Section Modulus (Sxx)	0.1068 in^3
Allowable Bending Moment (Ma)	175.80 ft-lb
Gross Section Properties of Full Section, Strong Axis	
Neutral Axis from Top Fiber (Ycg)	1.3228 in
Moment of Inertia (Ixxg)	0.2213 in^4
Section modules (Sxxg)	0.1673 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
Gross Moment of Inertia (Iyy)	0.0447 in^4
Radius of Gyration (Ry)	0.4849 in
Other Section Property Data	
Member Weight per Foot of Length	0.6471 lb/ft
Allowable Shear Force In Web (Unpunched)	1023.58 lb
Torsional Properties	
Dist. from Shear Center to Neutral Axis (Xo)	-0.9734 in
St. Venant torsion Constant (J x 1000)	0.0759 in^4
Warping Constant (Cw)	0.0538 in^6
Radii of Gyration (Ro)	1.5318 in^6
Torsional Flexural Constant (Beta)	0.5962

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
Location (3) and (4) are flange/web 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

RESCUE METAL FRAMING

1601 Australian Avenue
Riviera Beach, FL 33404
(561) 766-2192

PRODUCT SUBMITTAL DATA

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 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 Axis	
Gross Neutral Axis (Xcg) From Web 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 (Unpunched)	1355.54 lb
Torsional Properties	
Dist. from Shear Center to Neutral Axis (Xo)	-0.9682 in
St. Venant torsion Constant (J x 1000)	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
Location (3) and (4) are flange/web 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

RESCUE METAL FRAMING

1601 Australian Avenue
Riviera Beach, FL 33404
(561) 766-2192

PRODUCT SUBMITTAL DATA

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 Properties, Strong Axis	
Neutral Axis from Top Fiber (Ycg)	1.5174 in
Moment of Inertia for Deflection (Ixx)	0.3245 in^4
Section Modulus (Sxx)	0.1968 in^3
Allowable Bending Moment (Ma)	490.95 ft-lb
Gross Section Properties of 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 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 Data	
Member Weight per Foot of Length	1.0569 lb/ft
Allowable Shear Force In Web (Unpunched)	2563.02 lb
Torsional Properties	
Dist. from Shear Center to Neutral 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 (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
Location (3) and (4) are flange/web 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

RESCUE METAL FRAMING

1601 Australian Avenue
Riviera Beach, FL 33404
(561) 766-2192

PRODUCT SUBMITTAL DATA

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 Properties, Strong Axis	
Neutral Axis from Top Fiber (Ycg)	2.0082 in
Moment of Inertia for Deflection (Ixx)	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 (Ycg)	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 Data	
Member Weight per Foot of Length	0.6618 lb/ft
Allowable Shear Force In Web (Unpunched)	1023.58 lb
Torsional Properties	
Dist. from Shear Center to Neutral 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 (Beta)	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
Location (3) and (4) are flange/web 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

RESCUE METAL FRAMING

1601 Australian Avenue
Riviera Beach, FL 33404
(561) 766-2192

PRODUCT SUBMITTAL DATA

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 Properties, Strong Axis	
Neutral Axis from Top Fiber (Ycg)	1.9691 in
Moment of Inertia for Deflection (Ixx)	0.4810 in^4
Section Modulus (Sxx)	0.2318 in^3
Allowable Bending Moment (Ma)	381.71 ft-lb
Gross Section Properties of Full Section, Strong Axis	
Neutral Axis from Top Fiber (Ycg)	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 Data	
Member Weight per Foot of Length	0.8618 lb/ft
Allowable Shear Force In Web (Unpunched)	1739.09 lb
Torsional Properties	
Dist. from Shear Center to Neutral 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 (Beta)	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
Location (3) and (4) are flange/web 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

RESCUE METAL FRAMING

1601 Australian Avenue
Riviera Beach, FL 33404
(561) 766-2192

PRODUCT SUBMITTAL DATA

Product Name :	**362T100-54 (50 ksi) Track (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 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	
Gross Neutral Axis (Xcg) From Web 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 (Unpunched)	3371.56 lb
Torsional Properties	
Dist. from Shear Center to Neutral 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 (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
Location (3) and (4) are flange/web 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

RESCUE METAL FRAMING

1601 Australian Avenue
Riviera Beach, FL 33404
(561) 766-2192

PRODUCT SUBMITTAL DATA

Product Name :	**362T125-33 (33 ksi) Track (G60)**		
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 Properties, Strong Axis	
Neutral Axis from Top Fiber (Ycg)	2.0788 in
Moment of Inertia for Deflection (Ixx)	0.3845 in^4
Section Modulus (Sxx)	0.1739 in^3
Allowable Bending Moment (Ma)	286.44 ft-lb
Gross Section Properties of Full Section, Strong Axis	
Neutral Axis from Top Fiber (Ycg)	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 Data	
Member Weight per Foot of Length	0.7207 lb/ft
Allowable Shear Force In Web (Unpunched)	1023.58 lb
Torsional Properties	
Dist. from Shear Center to Neutral 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 (Beta)	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
Location (3) and (4) are flange/web 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

RESCUE METAL FRAMING

1601 Australian Avenue
Riviera Beach, FL 33404
(561) 766-2192

PRODUCT SUBMITTAL DATA

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 Properties, Strong Axis	
Neutral Axis from Top Fiber (Ycg)	2.0348 in
Moment of Inertia for Deflection (Ixx)	0.5308 in^4
Section Modulus (Sxx)	0.2449 in^3
Allowable Bending Moment (Ma)	403.25 ft-lb
Gross Section Properties of Full Section, Strong Axis	
Neutral Axis from Top Fiber (Ycg)	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 Data	
Member Weight per Foot of Length	0.9386 lb/ft
Allowable Shear Force In Web (Unpunched)	1739.09 lb
Torsional Properties	
Dist. from Shear Center to Neutral 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)	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
Location (3) and (4) are flange/web 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

RESCUE METAL FRAMING

1601 Australian Avenue
Riviera Beach, FL 33404
(561) 766-2192

PRODUCT SUBMITTAL DATA

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 Properties, Strong Axis	
Neutral Axis from Top Fiber (Ycg)	2.0425 in
Moment of Inertia for Deflection (Ixx)	0.6777 in^4
Section Modulus (Sxx)	0.3120 in^3
Allowable Bending Moment (Ma)	778.52 ft-lb
Gross Section Properties of Full Section, Strong Axis	
Neutral Axis from Top Fiber (Ycg)	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 (Iyy)	0.0481 in^4
Radius of Gyration (Ry)	0.3729 in
Other Section Property Data	
Member Weight per Foot of Length	1.1773 lb/ft
Allowable Shear Force In Web (Unpunched)	3371.56 lb
Torsional Properties	
Dist. from Shear Center to Neutral 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 (Beta)	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
Location (3) and (4) are flange/web 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)
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RESCUE METAL FRAMING

1601 Australian Avenue
Riviera Beach, FL 33404
(561) 766-2192

PRODUCT SUBMITTAL DATA

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 Properties, Strong Axis	
Neutral Axis from Top Fiber (Ycg)	2.1457 in
Moment of Inertia for Deflection (Ixx)	0.4136 in^4
Section Modulus (Sxx)	0.1804 in^3
Allowable Bending Moment (Ma)	297.07 ft-lb
Gross Section Properties of Full Section, Strong Axis	
Neutral Axis from Top Fiber (Ycg)	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 (Iyy)	0.0499 in^4
Radius of Gyration (Ry)	0.4667 in
Other Section Property Data	
Member Weight per Foot of Length	0.7795 lb/ft
Allowable Shear Force In Web (Unpunched)	1023.58 lb
Torsional Properties	
Dist. from Shear Center to Neutral 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 (Beta)	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
Location (3) and (4) are flange/web 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

RESCUE METAL FRAMING

1601 Australian Avenue
Riviera Beach, FL 33404
(561) 766-2192

PRODUCT SUBMITTAL DATA

Product Name :	**362T150-43 (33 ksi) Track (G60)**		
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 Properties, Strong Axis	
Neutral Axis from Top Fiber (Ycg)	2.0989 in
Moment of Inertia for Deflection (Ixx)	0.5744 in^4
Section Modulus (Sxx)	0.2551 in^3
Allowable Bending Moment (Ma)	420.05 ft-lb
Gross Section Properties of Full Section, Strong Axis	
Neutral Axis from Top Fiber (Ycg)	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 Data	
Member Weight per Foot of Length	1.0153 lb/ft
Allowable Shear Force In Web (Unpunched)	1739.09 lb
Torsional Properties	
Dist. from Shear Center to Neutral 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 (Beta)	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
Location (3) and (4) are flange/web 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

RESCUE METAL FRAMING

1601 Australian Avenue
Riviera Beach, FL 33404
(561) 766-2192

PRODUCT SUBMITTAL DATA

Product Name :	**362T150-54 (50 ksi) Track (G60)**		
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 Properties, Strong Axis	
Neutral Axis from Top Fiber (Ycg)	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 Full Section, Strong Axis	
Neutral Axis from Top Fiber (Ycg)	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 Data	
Member Weight per Foot of Length	1.2736 lb/ft
Allowable Shear Force In Web (Unpunched)	3371.56 lb
Torsional Properties	
Dist. from Shear Center to Neutral 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 (Beta)	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
Location (3) and (4) are flange/web 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

RESCUE METAL FRAMING

1601 Australian Avenue
Riviera Beach, FL 33404
(561) 766-2192

PRODUCT SUBMITTAL DATA

Product Name :	**400T100-33 (33 ksi) Track (G60)**		
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 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	
Gross Neutral Axis (Xcg) From Web 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 (Unpunched)	939.64 lb
Torsional Properties	
Dist. from Shear Center to Neutral 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
Location (3) and (4) are flange/web 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

RESCUE METAL FRAMING

1601 Australian Avenue
Riviera Beach, FL 33404
(561) 766-2192

PRODUCT SUBMITTAL DATA

Product Name :	**400T100-43 (33 ksi) Track (G60)**		
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)	0.6059 in^4
Section Modulus (Sxx)	0.2671 in^3
Allowable Bending Moment (Ma)	439.78 ft-lb
Gross Section Properties of 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	
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 (Unpunched)	1739.09 lb
Torsional Properties	
Dist. from Shear Center to Neutral Axis (Xo)	-0.4469 in
St. Venant torsion Constant (J x 1000)	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
Location (3) and (4) are flange/web 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

RESCUE METAL FRAMING

1601 Australian Avenue
Riviera Beach, FL 33404
(561) 766-2192

PRODUCT SUBMITTAL DATA

Product Name :	**400T100-54 (50 ksi) Track (G60)**		
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)	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 (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	
Gross Neutral Axis (Xcg) From Web Face	0.1863 in
Gross Moment of Inertia (Iyy)	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 (Unpunched)	3371.56 lb
Torsional Properties	
Dist. from Shear Center to Neutral 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 (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
Location (3) and (4) are flange/web 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

RESCUE METAL FRAMING

1601 Australian Avenue
Riviera Beach, FL 33404
(561) 766-2192

PRODUCT SUBMITTAL DATA

Product Name :	**400T125-33 (33 ksi) 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, Strong Axis	
Neutral Axis from Top Fiber (Ycg)	2.2722 in
Moment of Inertia for Deflection (Ixx)	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	
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 Axis	
Gross Neutral Axis (Xcg) From Web Face	0.2514 in
Gross Moment of Inertia (Iyy)	0.0309 in^4
Radius of Gyration (Ry)	0.3707 in
Other Section Property Data	
Member Weight per Foot of Length	0.7648 lb/ft
Allowable Shear Force In Web (Unpunched)	939.64 lb
Torsional Properties	
Dist. from Shear Center to Neutral Axis (Xo)	-0.6303 in
St. Venant torsion Constant (J x 1000)	0.0897 in^4
Warping Constant (Cw)	0.0946 in^6
Radii of Gyration (Ro)	1.7252 in^6
Torsional Flexural Constant (Beta)	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
Location (3) and (4) are flange/web 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

RESCUE METAL FRAMING

1601 Australian Avenue
Riviera Beach, FL 33404
(561) 766-2192

PRODUCT SUBMITTAL DATA

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 Properties, Strong Axis	
Neutral Axis from Top Fiber (Ycg)	2.2268 in
Moment of Inertia for Deflection (Ixx)	0.6662 in^4
Section Modulus (Sxx)	0.2818 in^3
Allowable Bending Moment (Ma)	464.01 ft-lb
Gross Section Properties of Full Section, Strong Axis	
Neutral Axis from Top Fiber (Ycg)	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^4
Radius of Gyration (Ry)	0.3687 in
Other Section Property Data	
Member Weight per Foot of Length	0.9961 lb/ft
Allowable Shear Force In Web (Unpunched)	1739.09 lb
Torsional Properties	
Dist. from Shear Center to Neutral 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 (Beta)	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
Location (3) and (4) are flange/web 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

RESCUE METAL FRAMING

1601 Australian Avenue
Riviera Beach, FL 33404
(561) 766-2192

PRODUCT SUBMITTAL DATA

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, Strong Axis	
Neutral Axis from Top Fiber (Ycg)	2.2341 in
Moment of Inertia for Deflection (Ixx)	0.8494 in^4
Section Modulus (Sxx)	0.3587 in^3
Allowable Bending Moment (Ma)	894.90 ft-lb
Gross Section Properties of Full Section, Strong Axis	
Neutral Axis from Top Fiber (Ycg)	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 Data	
Member Weight per Foot of Length	1.2495 lb/ft
Allowable Shear Force In Web (Unpunched)	3371.56 lb
Torsional Properties	
Dist. from Shear Center to Neutral 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 (Beta)	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
Location (3) and (4) are flange/web 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

RESCUE METAL FRAMING

1601 Australian Avenue
Riviera Beach, FL 33404
(561) 766-2192

PRODUCT SUBMITTAL DATA

Product Name :	**400T150-33 (33 ksi) Track (G60)**		
PHYSICAL PROPERTIES :			
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, Strong Axis	
Neutral Axis from Top Fiber (Ycg)	2.3420 in
Moment of Inertia for Deflection (Ixx)	0.5193 in^4
Section Modulus (Sxx)	0.2084 in^3
Allowable Bending Moment (Ma)	343.12 ft-lb
Gross Section Properties of Full Section, Strong Axis	
Neutral Axis from Top Fiber (Ycg)	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 Axis	
Gross Neutral Axis (Xcg) From Web Face	0.3317 in
Gross Moment of Inertia (Iyy)	0.0513 in^4
Radius of Gyration (Ry)	0.4601 in
Other Section Property Data	
Member Weight per Foot of Length	0.8237 lb/ft
Allowable Shear Force In Web (Unpunched)	939.64 lb
Torsional Properties	
Dist. from Shear Center to Neutral 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)	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
Location (3) and (4) are flange/web 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

RESCUE METAL FRAMING

1601 Australian Avenue
Riviera Beach, FL 33404
(561) 766-2192

PRODUCT SUBMITTAL DATA

Product Name :	**400T150-43 (33 ksi) Track (G60)**		
PHYSICAL PROPERTIES :			
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, Strong Axis	
Neutral Axis from Top Fiber (Ycg)	2.2937 in
Moment of Inertia for Deflection (Ixx)	0.7192 in^4
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 (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 Axis	
Gross Neutral Axis (Xcg) From Web Face	0.3350 in
Gross Moment of Inertia (Iyy)	0.0662 in^4
Radius of Gyration (Ry)	0.4582 in
Other Section Property Data	
Member Weight per Foot of Length	1.0728 lb/ft
Allowable Shear Force In Web (Unpunched)	1739.09 lb
Torsional Properties	
Dist. from Shear Center to Neutral 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)	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
Location (3) and (4) are flange/web 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)
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RESCUE METAL FRAMING

1601 Australian Avenue
Riviera Beach, FL 33404
(561) 766-2192

PRODUCT SUBMITTAL DATA

Product Name :	**400T150-54 (50 ksi) Track (G60)**		
PHYSICAL PROPERTIES :			
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 (Ixx)	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 Axis	
Gross Neutral Axis (Xcg) From Web Face	0.3385 in
Gross Moment of Inertia (Iyy)	0.0822 in^4
Radius of Gyration (Ry)	0.4559 in
Other Section Property Data	
Member Weight per Foot of Length	1.3458 lb/ft
Allowable Shear Force In Web (Unpunched)	3371.56 lb
Torsional Properties	
Dist. from Shear Center to Neutral 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 (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
Location (3) and (4) are flange/web corner of compression and tension side respectively

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RESCUE METAL FRAMING

1601 Australian Avenue
Riviera Beach, FL 33404
(561) 766-2192

PRODUCT SUBMITTAL DATA

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, Strong Axis	
Neutral Axis from Top Fiber (Ycg)	3.5290 in
Moment of Inertia for Deflection (Ixx)	1.1704 in^4
Section Modulus (Sxx)	0.2888 in^3
Allowable Bending Moment (Ma)	475.51 ft-lb
Gross Section Properties of 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 Axis	
Gross Neutral Axis (Xcg) From Web Face	0.1382 in
Gross Moment of Inertia (Iyy)	0.0178 in^4
Radius of Gyration (Ry)	0.2539 in
Other Section Property Data	
Member Weight per Foot of Length	0.9414 lb/ft
Allowable Shear Force In Web (Unpunched)	622.38 lb
Torsional Properties	
Dist. from Shear Center to Neutral 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)	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
Location (3) and (4) are flange/web corner of compression and tension side respectively

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RESCUE METAL FRAMING

1601 Australian Avenue
Riviera Beach, FL 33404
(561) 766-2192

PRODUCT SUBMITTAL DATA

Product Name :	**600T100-43 (33 ksi) Track (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 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	
Gross Neutral Axis (Xcg) From Web 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 (Unpunched)	1377.13 lb
Torsional Properties	
Dist. from Shear Center to Neutral Axis (Xo)	-0.3590 in
St. Venant torsion Constant (J x 1000)	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
Location (3) and (4) are flange/web corner of compression and tension side respectively

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RESCUE METAL FRAMING

1601 Australian Avenue
Riviera Beach, FL 33404
(561) 766-2192

PRODUCT SUBMITTAL DATA

Product Name :	**600T100-54 (50 ksi) Track (G60)**		
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, Strong Axis	
Neutral Axis from Top Fiber (Ycg)	3.3085 in
Moment of Inertia for Deflection (Ixx)	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 (Ycg)	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 Data	
Member Weight per Foot of Length	1.5384 lb/ft
Allowable Shear Force In Web (Unpunched)	2728.34 lb
Torsional Properties	
Dist. from Shear Center to Neutral 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)	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
Location (3) and (4) are flange/web 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

RESCUE METAL FRAMING

1601 Australian Avenue
Riviera Beach, FL 33404
(561) 766-2192

PRODUCT SUBMITTAL DATA

Product Name :	**600T125-33 (33 ksi) Track (G60)**		
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 Properties, Strong Axis	
Neutral Axis from Top Fiber (Ycg)	3.6345 in
Moment of Inertia for Deflection (Ixx)	1.2576 in^4
Section Modulus (Sxx)	0.2970 in^3
Allowable Bending Moment (Ma)	489.04 ft-lb
Gross Section Properties of Full Section, Strong Axis	
Neutral Axis from Top Fiber (Ycg)	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 Axis	
Gross Neutral Axis (Xcg) From Web Face	0.1963 in
Gross Moment of Inertia (Iyy)	0.0338 in^4
Radius of Gyration (Ry)	0.3390 in
Other Section Property Data	
Member Weight per Foot of Length	1.0003 lb/ft
Allowable Shear Force In Web (Unpunched)	622.38 lb
Torsional Properties	
Dist. from Shear Center to Neutral 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 (Beta)	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
Location (3) and (4) are flange/web corner of compression and tension side respectively

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- Effective properties include the strength increase from cold forming

RESCUE METAL FRAMING

1601 Australian Avenue
Riviera Beach, FL 33404
(561) 766-2192

PRODUCT SUBMITTAL DATA

Product Name :	**600T125-43 (33 ksi) Track (G60)**		
PHYSICAL PROPERTIES :			
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 Properties, Strong Axis	
Neutral Axis from Top Fiber (Ycg)	3.4121 in
Moment of Inertia for Deflection (Ixx)	1.7680 in^4
Section Modulus (Sxx)	0.4612 in^3
Allowable Bending Moment (Ma)	759.40 ft-lb
Gross Section Properties of Full Section, Strong Axis	
Neutral Axis from Top Fiber (Ycg)	3.0807 in
Moment of Inertia (Ixxg)	1.8611 in^4
Section modules (Sxxg)	0.6041 in^3
Cross Sectional Area (Ag)	0.3829 in^2
Radius of Gyration (Rxg)	2.2046 in
Section Properties, Weak Axis	
Gross Neutral Axis (Xcg) From Web Face	0.2001 in
Gross Moment of Inertia (Iyy)	0.0435 in^4
Radius of Gyration (Ry)	0.3371 in
Other Section Property Data	
Member Weight per Foot of Length	1.3030 lb/ft
Allowable Shear Force In Web (Unpunched)	1377.13 lb
Torsional Properties	
Dist. from Shear Center to Neutral Axis (Xo)	-0.5129 in
St. Venant torsion Constant (J x 1000)	0.2596 in^4
Warping Constant (Cw)	0.3069 in^6
Radii of Gyration (Ro)	2.2884 in^6
Torsional Flexural Constant (Beta)	0.9498

Location (1) and (6) are tip of compression and tension lip respectively
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Location (3) and (4) are flange/web corner of compression and tension side respectively

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- Effective properties include the strength increase from cold forming

RESCUE METAL FRAMING

1601 Australian Avenue
Riviera Beach, FL 33404
(561) 766-2192

PRODUCT SUBMITTAL DATA

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 Properties, Strong Axis	
Neutral Axis from Top Fiber (Ycg)	3.4000 in
Moment of Inertia for Deflection (Ixx)	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 Axis	
Gross Neutral Axis (Xcg) From Web Face	0.2044 in
Gross Moment of Inertia (Iyy)	0.0539 in^4
Radius of Gyration (Ry)	0.3349 in
Other Section Property Data	
Member Weight per Foot of Length	1.6347 lb/ft
Allowable Shear Force In Web (Unpunched)	2728.34 lb
Torsional Properties	
Dist. from Shear Center to Neutral 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 (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
Location (3) and (4) are flange/web corner of compression and tension side respectively

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- Effective properties include the strength increase from cold forming

RESCUE METAL FRAMING

1601 Australian Avenue
Riviera Beach, FL 33404
(561) 766-2192

PRODUCT SUBMITTAL DATA

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 (Ixx)	1.3343 in^4
Section Modulus (Sxx)	0.3029 in^3
Allowable Bending Moment (Ma)	498.79 ft-lb
Gross Section Properties of 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 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 Data	
Member Weight per Foot of Length	1.0592 lb/ft
Allowable Shear Force In Web (Unpunched)	622.38 lb
Torsional Properties	
Dist. from Shear Center to Neutral Axis (Xo)	-0.6840 in
St. Venant torsion Constant (J x 1000)	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
Location (3) and (4) are flange/web 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

RESCUE METAL FRAMING

1601 Australian Avenue
Riviera Beach, FL 33404
(561) 766-2192

PRODUCT SUBMITTAL DATA

Product Name :	**600T150-43 (33 ksi) Track (G60)**		
PHYSICAL PROPERTIES :			
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 Properties, Strong Axis	
Neutral Axis from Top Fiber (Ycg)	3.5062 in
Moment of Inertia for Deflection (Ixx)	1.8897 in^4
Section Modulus (Sxx)	0.4736 in^3
Allowable Bending Moment (Ma)	779.85 ft-lb
Gross Section Properties of Full Section, Strong Axis	
Neutral Axis from Top Fiber (Ycg)	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 Data	
Member Weight per Foot of Length	1.3798 lb/ft
Allowable Shear Force In Web (Unpunched)	1377.13 lb
Torsional Properties	
Dist. from Shear Center to Neutral 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 (Beta)	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
Location (3) and (4) are flange/web 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

RESCUE METAL FRAMING

1601 Australian Avenue
Riviera Beach, FL 33404
(561) 766-2192

PRODUCT SUBMITTAL DATA

Product Name :	**600T150-54 (50 ksi) Track (G60)**		
PHYSICAL PROPERTIES :			
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 Properties, Strong Axis	
Neutral Axis from Top Fiber (Ycg)	3.4931 in
Moment of Inertia for Deflection (Ixx)	2.4004 in^4
Section Modulus (Sxx)	0.6091 in^3
Allowable Bending Moment (Ma)	1519.75 ft-lb
Gross Section Properties of Full Section, Strong Axis	
Neutral Axis from Top Fiber (Ycg)	3.0991 in
Moment of Inertia (Ixxg)	2.6110 in^4
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 Data	
Member Weight per Foot of Length	1.7310 lb/ft
Allowable Shear Force In Web (Unpunched)	2728.34 lb
Torsional Properties	
Dist. from Shear Center to Neutral Axis (Xo)	-0.6752 in
St. Venant torsion Constant (J x 1000)	0.5432 in^4
Warping Constant (Cw)	0.6325 in^6
Radii of Gyration (Ro)	2.4014 in^6
Torsional Flexural Constant (Beta)	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
Location (3) and (4) are flange/web 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

RESCUE METAL FRAMING

1601 Australian Avenue
Riviera Beach, FL 33404
(561) 766-2192

PRODUCT SUBMITTAL DATA

Product Name :	**800T100-33 (33 ksi) Track (G60)**		
PHYSICAL PROPERTIES :			
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 Properties, Strong Axis	
Neutral Axis from Top Fiber (Ycg)	4.8979 in
Moment of Inertia for Deflection (Ixx)	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 (Ycg)	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 Data	
Member Weight per Foot of Length	1.1769 lb/ft
Allowable Shear Force In Web (Unpunched)	465.29 lb
Torsional Properties	
Dist. from Shear Center to Neutral 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 (Beta)	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
Location (3) and (4) are flange/web corner of compression and tension side respectively
***** WEB DEPTH-TO-THICKNESS = 229 > 200 *****

- 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

RESCUE METAL FRAMING

1601 Australian Avenue
Riviera Beach, FL 33404
(561) 766-2192

PRODUCT SUBMITTAL DATA

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 Properties, Strong Axis	
Neutral Axis from Top Fiber (Ycg)	4.6030 in
Moment of Inertia for Deflection (Ixx)	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 (Ycg)	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 Data	
Member Weight per Foot of Length	1.5332 lb/ft
Allowable Shear Force In Web (Unpunched)	1029.75 lb
Torsional Properties	
Dist. from Shear Center to Neutral 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 (Beta)	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
Location (3) and (4) are flange/web 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

RESCUE METAL FRAMING

1601 Australian Avenue
Riviera Beach, FL 33404
(561) 766-2192

PRODUCT SUBMITTAL DATA

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 Properties, Strong Axis	
Neutral Axis from Top Fiber (Ycg)	4.5819 in
Moment of Inertia for Deflection (Ixx)	4.1183 in^4
Section Modulus (Sxx)	0.7958 in^3
Allowable Bending Moment (Ma)	1985.43 ft-lb
Gross Section Properties of Full Section, Strong Axis	
Neutral Axis from Top Fiber (Ycg)	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 Axis	
Gross Neutral Axis (Xcg) From Web Face	0.1230 in
Gross Moment of Inertia (Iyy)	0.0295 in^4
Radius of Gyration (Ry)	0.2285 in
Other Section Property Data	
Member Weight per Foot of Length	1.9236 lb/ft
Allowable Shear Force In Web (Unpunched)	2038.94 lb
Torsional Properties	
Dist. from Shear Center to Neutral 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 (Beta)	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
Location (3) and (4) are flange/web 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

RESCUE METAL FRAMING

1601 Australian Avenue
Riviera Beach, FL 33404
(561) 766-2192

PRODUCT SUBMITTAL DATA

Product Name :	**800T125-33 (33 ksi) Track (G60)**		
PHYSICAL PROPERTIES :			
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 Properties, Strong Axis	
Neutral Axis from Top Fiber (Ycg)	5.0151 in
Moment of Inertia for Deflection (Ixx)	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 (Ycg)	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 Data	
Member Weight per Foot of Length	1.2358 lb/ft
Allowable Shear Force In Web (Unpunched)	465.29 lb
Torsional Properties	
Dist. from Shear Center to Neutral 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 (Beta)	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
Location (3) and (4) are flange/web corner of compression and tension side respectively
***** WEB DEPTH-TO-THICKNESS = 229 > 200 *****

- 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

RESCUE METAL FRAMING

1601 Australian Avenue
Riviera Beach, FL 33404
(561) 766-2192

PRODUCT SUBMITTAL DATA

Product Name :	**800T125-43 (33 ksi) 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, Strong Axis	
Neutral Axis from Top Fiber (Ycg)	4.7076 in
Moment of Inertia for Deflection (Ixx)	3.4838 in^4
Section Modulus (Sxx)	0.6403 in^3
Allowable Bending Moment (Ma)	1054.33 ft-lb
Gross Section Properties of 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 Axis	
Gross Neutral Axis (Xcg) From Web Face	0.1663 in
Gross Moment of Inertia (Iyy)	0.0458 in^4
Radius of Gyration (Ry)	0.3112 in
Other Section Property Data	
Member Weight per Foot of Length	1.6100 lb/ft
Allowable Shear Force In Web (Unpunched)	1029.75 lb
Torsional Properties	
Dist. from Shear Center to Neutral 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)	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
Location (3) and (4) are flange/web 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

RESCUE METAL FRAMING

1601 Australian Avenue
Riviera Beach, FL 33404
(561) 766-2192

PRODUCT SUBMITTAL DATA

Product Name :	**800T125-54 (50 ksi) Track (G60)**		
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 Properties, Strong Axis	
Neutral Axis from Top Fiber (Ycg)	4.6844 in
Moment of Inertia for Deflection (Ixx)	4.4257 in^4
Section Modulus (Sxx)	0.8237 in^3
Allowable Bending Moment (Ma)	2055.18 ft-lb
Gross Section Properties of Full Section, Strong Axis	
Neutral Axis from Top Fiber (Ycg)	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 Data	
Member Weight per Foot of Length	2.0199 lb/ft
Allowable Shear Force In Web (Unpunched)	2038.94 lb
Torsional Properties	
Dist. from Shear Center to Neutral 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 (Beta)	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
Location (3) and (4) are flange/web 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

RESCUE METAL FRAMING

1601 Australian Avenue
Riviera Beach, FL 33404
(561) 766-2192

PRODUCT SUBMITTAL DATA

Product Name :	**800T150-33 (33 ksi) Track (G60)**		
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 Properties, Strong Axis	
Neutral Axis from Top Fiber (Ycg)	5.1308 in
Moment of Inertia for Deflection (Ixx)	2.5688 in^4
Section Modulus (Sxx)	0.4138 in^3
Allowable Bending Moment (Ma)	681.40 ft-lb
Gross Section Properties of Full Section, Strong Axis	
Neutral Axis from Top Fiber (Ycg)	4.0728 in
Moment of Inertia (Ixxg)	3.1800 in^4
Section modules (Sxxg)	0.7808 in^3
Cross Sectional Area (Ag)	0.3805 in^2
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 (Iyy)	0.0600 in^4
Radius of Gyration (Ry)	0.3970 in
Other Section Property Data	
Member Weight per Foot of Length	1.2946 lb/ft
Allowable Shear Force In Web (Unpunched)	465.29 lb
Torsional Properties	
Dist. from Shear Center to Neutral Axis (Xo)	-0.5878 in
St. Venant torsion Constant (J x 1000)	0.1518 in^4
Warping Constant (Cw)	0.7515 in^6
Radii of Gyration (Ro)	2.9768 in^6
Torsional Flexural Constant (Beta)	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
Location (3) and (4) are flange/web corner of compression and tension side respectively
***** WEB DEPTH-TO-THICKNESS = 229 > 200 *****

- 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

RESCUE METAL FRAMING

1601 Australian Avenue
Riviera Beach, FL 33404
(561) 766-2192

PRODUCT SUBMITTAL DATA

Product Name :	**800T150-43 (33 ksi) Track (G60)**		
PHYSICAL PROPERTIES :			
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 Properties, Strong Axis	
Neutral Axis from Top Fiber (Ycg)	4.8147 in
Moment of Inertia for Deflection (Ixx)	3.6892 in^4
Section Modulus (Sxx)	0.6552 in^3
Allowable Bending Moment (Ma)	1078.94 ft-lb
Gross Section Properties of Full Section, Strong Axis	
Neutral Axis from Top Fiber (Ycg)	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 Data	
Member Weight per Foot of Length	1.6867 lb/ft
Allowable Shear Force In Web (Unpunched)	1029.75 lb
Torsional Properties	
Dist. from Shear Center to Neutral 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 (Beta)	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
Location (3) and (4) are flange/web 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

RESCUE METAL FRAMING

1601 Australian Avenue
Riviera Beach, FL 33404
(561) 766-2192

PRODUCT SUBMITTAL DATA

Product Name :	**800T150-54 (50 ksi) Track (G60)**		
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)	4.6923 in^4
Section Modulus (Sxx)	0.8439 in^3
Allowable Bending Moment (Ma)	2105.47 ft-lb
Gross Section Properties of 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	
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 Data	
Member Weight per Foot of Length	2.1162 lb/ft
Allowable Shear Force In Web (Unpunched)	2038.94 lb
Torsional Properties	
Dist. from Shear Center to Neutral 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 (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
Location (3) and (4) are flange/web 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

RESCUE METAL FRAMING

1601 Australian Avenue
Riviera Beach, FL 33404
(561) 766-2192

PRODUCT SUBMITTAL DATA

Product Name :	**250T100-33 (33 ksi) Track (G90)**		
PHYSICAL PROPERTIES :			
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, Strong Axis	
Neutral Axis from Top Fiber (Ycg)	1.4320 in
Moment of Inertia for Deflection (Ixx)	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 (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 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 Data	
Member Weight per Foot of Length	0.5293 lb/ft
Allowable Shear Force In Web (Unpunched)	1023.58 lb
Torsional Properties	
Dist. from Shear Center to Neutral 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)	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
Location (3) and (4) are flange/web 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

RESCUE METAL FRAMING

1601 Australian Avenue
Riviera Beach, FL 33404
(561) 766-2192

PRODUCT SUBMITTAL DATA

Product Name :	**250T100-43 (33 ksi) Track (G90)**		
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 Properties, Strong Axis	
Neutral Axis from Top Fiber (Ycg)	1.3978 in
Moment of Inertia for Deflection (Ixx)	0.2065 in^4
Section Modulus (Sxx)	0.1388 in^3
Allowable Bending Moment (Ma)	228.60 ft-lb
Gross Section Properties of Full Section, Strong Axis	
Neutral Axis from Top Fiber (Ycg)	1.3307 in
Moment of Inertia (Ixxg)	0.2118 in^4
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^4
Radius of Gyration (Ry)	0.3053 in
Other Section Property Data	
Member Weight per Foot of Length	0.6892 lb/ft
Allowable Shear Force In Web (Unpunched)	1355.54 lb
Torsional Properties	
Dist. from Shear Center to Neutral Axis (Xo)	-0.5510 in
St. Venant torsion Constant (J x 1000)	0.1373 in^4
Warping Constant (Cw)	0.0231 in^6
Radii of Gyration (Ro)	1.2011 in^6
Torsional Flexural Constant (Beta)	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
Location (3) and (4) are flange/web 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

RESCUE METAL FRAMING

1601 Australian Avenue
Riviera Beach, FL 33404
(561) 766-2192

PRODUCT SUBMITTAL DATA

Product Name :	**250T100-54 (50 ksi) Track (G90)**		
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 Properties, Strong Axis	
Neutral Axis from Top Fiber (Ycg)	1.4074 in
Moment of Inertia for Deflection (Ixx)	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 (Ycg)	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 Data	
Member Weight per Foot of Length	0.8643 lb/ft
Allowable Shear Force In Web (Unpunched)	2563.02 lb
Torsional Properties	
Dist. from Shear Center to Neutral 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 (Beta)	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
Location (3) and (4) are flange/web 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

RESCUE METAL FRAMING

1601 Australian Avenue
Riviera Beach, FL 33404
(561) 766-2192

PRODUCT SUBMITTAL DATA

Product Name :	**250T125-33 (33 ksi) Track (G90)**		
PHYSICAL PROPERTIES :			
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 Properties, Strong Axis	
Neutral Axis from Top Fiber (Ycg)	1.4924 in
Moment of Inertia for Deflection (Ixx)	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 (Ycg)	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 Data	
Member Weight per Foot of Length	0.5882 lb/ft
Allowable Shear Force In Web (Unpunched)	1023.58 lb
Torsional Properties	
Dist. from Shear Center to Neutral 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 (Beta)	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
Location (3) and (4) are flange/web 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

RESCUE METAL FRAMING

1601 Australian Avenue
Riviera Beach, FL 33404
(561) 766-2192

PRODUCT SUBMITTAL DATA

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 Properties, Strong Axis	
Neutral Axis from Top Fiber (Ycg)	1.4541 in
Moment of Inertia for Deflection (Ixx)	0.2310 in^4
Section Modulus (Sxx)	0.1472 in^3
Allowable Bending Moment (Ma)	242.41 ft-lb
Gross Section Properties of Full Section, Strong Axis	
Neutral Axis from Top Fiber (Ycg)	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 Data	
Member Weight per Foot of Length	0.7659 lb/ft
Allowable Shear Force In Web (Unpunched)	1355.54 lb
Torsional Properties	
Dist. from Shear Center to Neutral 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 (Beta)	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
Location (3) and (4) are flange/web 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

RESCUE METAL FRAMING

1601 Australian Avenue
Riviera Beach, FL 33404
(561) 766-2192

PRODUCT SUBMITTAL DATA

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 Properties, Strong Axis	
Neutral Axis from Top Fiber (Ycg)	1.4634 in
Moment of Inertia for Deflection (Ixx)	0.2967 in^4
Section Modulus (Sxx)	0.1884 in^3
Allowable Bending Moment (Ma)	470.02 ft-lb
Gross Section Properties of Full Section, Strong Axis	
Neutral Axis from Top Fiber (Ycg)	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 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 Data	
Member Weight per Foot of Length	0.9606 lb/ft
Allowable Shear Force In Web (Unpunched)	2563.02 lb
Torsional Properties	
Dist. from Shear Center to Neutral 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 (Beta)	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
Location (3) and (4) are flange/web 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

RESCUE METAL FRAMING

1601 Australian Avenue
Riviera Beach, FL 33404
(561) 766-2192

PRODUCT SUBMITTAL DATA

Product Name :	**250T150-33 (33 ksi) Track (G90)**		
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 Properties, Strong Axis	
Neutral Axis from Top Fiber (Ycg)	1.5485 in
Moment of Inertia for Deflection (Ixx)	0.1795 in^4
Section Modulus (Sxx)	0.1068 in^3
Allowable Bending Moment (Ma)	175.80 ft-lb
Gross Section Properties of Full Section, Strong Axis	
Neutral Axis from Top Fiber (Ycg)	1.3228 in
Moment of Inertia (Ixxg)	0.2213 in^4
Section modules (Sxxg)	0.1673 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
Gross Moment of Inertia (Iyy)	0.0447 in^4
Radius of Gyration (Ry)	0.4849 in
Other Section Property Data	
Member Weight per Foot of Length	0.6471 lb/ft
Allowable Shear Force In Web (Unpunched)	1023.58 lb
Torsional Properties	
Dist. from Shear Center to Neutral Axis (Xo)	-0.9734 in
St. Venant torsion Constant (J x 1000)	0.0759 in^4
Warping Constant (Cw)	0.0538 in^6
Radii of Gyration (Ro)	1.5318 in^6
Torsional Flexural Constant (Beta)	0.5962

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
Location (3) and (4) are flange/web 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

RESCUE METAL FRAMING

1601 Australian Avenue
Riviera Beach, FL 33404
(561) 766-2192

PRODUCT SUBMITTAL DATA

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 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 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 Axis	
Gross Neutral Axis (Xcg) From Web 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 (Unpunched)	1355.54 lb
Torsional Properties	
Dist. from Shear Center to Neutral Axis (Xo)	-0.9682 in
St. Venant torsion Constant (J x 1000)	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
Location (3) and (4) are flange/web 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

RESCUE METAL FRAMING

1601 Australian Avenue
Riviera Beach, FL 33404
(561) 766-2192

PRODUCT SUBMITTAL DATA

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 (Ixx)	0.3245 in^4
Section Modulus (Sxx)	0.1968 in^3
Allowable Bending Moment (Ma)	490.95 ft-lb
Gross Section Properties of 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 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 Data	
Member Weight per Foot of Length	1.0569 lb/ft
Allowable Shear Force In Web (Unpunched)	2563.02 lb
Torsional Properties	
Dist. from Shear Center to Neutral 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 (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
Location (3) and (4) are flange/web 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

RESCUE METAL FRAMING

1601 Australian Avenue
Riviera Beach, FL 33404
(561) 766-2192

PRODUCT SUBMITTAL DATA

Product Name :	**362T100-33 (33 ksi) Track (G90)**		
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 Properties, Strong Axis	
Neutral Axis from Top Fiber (Ycg)	2.0082 in
Moment of Inertia for Deflection (Ixx)	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 (Ycg)	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 Data	
Member Weight per Foot of Length	0.6618 lb/ft
Allowable Shear Force In Web (Unpunched)	1023.58 lb
Torsional Properties	
Dist. from Shear Center to Neutral 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 (Beta)	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
Location (3) and (4) are flange/web 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

RESCUE METAL FRAMING

1601 Australian Avenue
Riviera Beach, FL 33404
(561) 766-2192

PRODUCT SUBMITTAL DATA

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 Properties, Strong Axis	
Neutral Axis from Top Fiber (Ycg)	1.9691 in
Moment of Inertia for Deflection (Ixx)	0.4810 in^4
Section Modulus (Sxx)	0.2318 in^3
Allowable Bending Moment (Ma)	381.71 ft-lb
Gross Section Properties of Full Section, Strong Axis	
Neutral Axis from Top Fiber (Ycg)	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 Data	
Member Weight per Foot of Length	0.8618 lb/ft
Allowable Shear Force In Web (Unpunched)	1739.09 lb
Torsional Properties	
Dist. from Shear Center to Neutral 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 (Beta)	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
Location (3) and (4) are flange/web 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

RESCUE METAL FRAMING

1601 Australian Avenue
Riviera Beach, FL 33404
(561) 766-2192

PRODUCT SUBMITTAL DATA

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 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 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	
Gross Neutral Axis (Xcg) From Web 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 (Unpunched)	3371.56 lb
Torsional Properties	
Dist. from Shear Center to Neutral 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 (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
Location (3) and (4) are flange/web 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

RESCUE METAL FRAMING

1601 Australian Avenue
Riviera Beach, FL 33404
(561) 766-2192

PRODUCT SUBMITTAL DATA

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 Properties, Strong Axis	
Neutral Axis from Top Fiber (Ycg)	2.0788 in
Moment of Inertia for Deflection (Ixx)	0.3845 in^4
Section Modulus (Sxx)	0.1739 in^3
Allowable Bending Moment (Ma)	286.44 ft-lb
Gross Section Properties of Full Section, Strong Axis	
Neutral Axis from Top Fiber (Ycg)	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 Data	
Member Weight per Foot of Length	0.7207 lb/ft
Allowable Shear Force In Web (Unpunched)	1023.58 lb
Torsional Properties	
Dist. from Shear Center to Neutral 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 (Beta)	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
Location (3) and (4) are flange/web 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

RESCUE METAL FRAMING

1601 Australian Avenue
Riviera Beach, FL 33404
(561) 766-2192

PRODUCT SUBMITTAL DATA

Product Name :	**362T125-43 (33 ksi) 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, Strong Axis	
Neutral Axis from Top Fiber (Ycg)	2.0348 in
Moment of Inertia for Deflection (Ixx)	0.5308 in^4
Section Modulus (Sxx)	0.2449 in^3
Allowable Bending Moment (Ma)	403.25 ft-lb
Gross Section Properties of Full Section, Strong Axis	
Neutral Axis from Top Fiber (Ycg)	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 Data	
Member Weight per Foot of Length	0.9386 lb/ft
Allowable Shear Force In Web (Unpunched)	1739.09 lb
Torsional Properties	
Dist. from Shear Center to Neutral 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)	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
Location (3) and (4) are flange/web 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

RESCUE METAL FRAMING

1601 Australian Avenue
Riviera Beach, FL 33404
(561) 766-2192

PRODUCT SUBMITTAL DATA

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 Properties, Strong Axis	
Neutral Axis from Top Fiber (Ycg)	2.0425 in
Moment of Inertia for Deflection (Ixx)	0.6777 in^4
Section Modulus (Sxx)	0.3120 in^3
Allowable Bending Moment (Ma)	778.52 ft-lb
Gross Section Properties of Full Section, Strong Axis	
Neutral Axis from Top Fiber (Ycg)	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 (Iyy)	0.0481 in^4
Radius of Gyration (Ry)	0.3729 in
Other Section Property Data	
Member Weight per Foot of Length	1.1773 lb/ft
Allowable Shear Force In Web (Unpunched)	3371.56 lb
Torsional Properties	
Dist. from Shear Center to Neutral 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 (Beta)	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
Location (3) and (4) are flange/web 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)
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RESCUE METAL FRAMING

1601 Australian Avenue
Riviera Beach, FL 33404
(561) 766-2192

PRODUCT SUBMITTAL DATA

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 Properties, Strong Axis	
Neutral Axis from Top Fiber (Ycg)	2.1457 in
Moment of Inertia for Deflection (Ixx)	0.4136 in^4
Section Modulus (Sxx)	0.1804 in^3
Allowable Bending Moment (Ma)	297.07 ft-lb
Gross Section Properties of Full Section, Strong Axis	
Neutral Axis from Top Fiber (Ycg)	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 (Iyy)	0.0499 in^4
Radius of Gyration (Ry)	0.4667 in
Other Section Property Data	
Member Weight per Foot of Length	0.7795 lb/ft
Allowable Shear Force In Web (Unpunched)	1023.58 lb
Torsional Properties	
Dist. from Shear Center to Neutral 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 (Beta)	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
Location (3) and (4) are flange/web 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

RESCUE METAL FRAMING

1601 Australian Avenue
Riviera Beach, FL 33404
(561) 766-2192

PRODUCT SUBMITTAL DATA

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 Properties, Strong Axis	
Neutral Axis from Top Fiber (Ycg)	2.0989 in
Moment of Inertia for Deflection (Ixx)	0.5744 in^4
Section Modulus (Sxx)	0.2551 in^3
Allowable Bending Moment (Ma)	420.05 ft-lb
Gross Section Properties of Full Section, Strong Axis	
Neutral Axis from Top Fiber (Ycg)	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 Data	
Member Weight per Foot of Length	1.0153 lb/ft
Allowable Shear Force In Web (Unpunched)	1739.09 lb
Torsional Properties	
Dist. from Shear Center to Neutral 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 (Beta)	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
Location (3) and (4) are flange/web 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)
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RESCUE METAL FRAMING

1601 Australian Avenue
Riviera Beach, FL 33404
(561) 766-2192

PRODUCT SUBMITTAL DATA

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 Properties, Strong Axis	
Neutral Axis from Top Fiber (Ycg)	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 Full Section, Strong Axis	
Neutral Axis from Top Fiber (Ycg)	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 Data	
Member Weight per Foot of Length	1.2736 lb/ft
Allowable Shear Force In Web (Unpunched)	3371.56 lb
Torsional Properties	
Dist. from Shear Center to Neutral 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 (Beta)	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
Location (3) and (4) are flange/web 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)
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RESCUE METAL FRAMING

1601 Australian Avenue
Riviera Beach, FL 33404
(561) 766-2192

PRODUCT SUBMITTAL DATA

Product Name :	**400T100-33 (33 ksi) Track (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 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	
Gross Neutral Axis (Xcg) From Web 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 (Unpunched)	939.64 lb
Torsional Properties	
Dist. from Shear Center to Neutral 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
Location (3) and (4) are flange/web 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

RESCUE METAL FRAMING

1601 Australian Avenue
Riviera Beach, FL 33404
(561) 766-2192

PRODUCT SUBMITTAL DATA

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)	0.6059 in^4
Section Modulus (Sxx)	0.2671 in^3
Allowable Bending Moment (Ma)	439.78 ft-lb
Gross Section Properties of 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	
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 (Unpunched)	1739.09 lb
Torsional Properties	
Dist. from Shear Center to Neutral Axis (Xo)	-0.4469 in
St. Venant torsion Constant (J x 1000)	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
Location (3) and (4) are flange/web corner of compression and tension side respectively

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- Effective properties include the strength increase from cold forming

RESCUE METAL FRAMING

1601 Australian Avenue
Riviera Beach, FL 33404
(561) 766-2192

PRODUCT SUBMITTAL DATA

Product Name :	**400T100-54 (50 ksi) 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)	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 (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	
Gross Neutral Axis (Xcg) From Web Face	0.1863 in
Gross Moment of Inertia (Iyy)	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 (Unpunched)	3371.56 lb
Torsional Properties	
Dist. from Shear Center to Neutral 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 (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
Location (3) and (4) are flange/web corner of compression and tension side respectively

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- Effective properties include the strength increase from cold forming

RESCUE METAL FRAMING

1601 Australian Avenue
Riviera Beach, FL 33404
(561) 766-2192

PRODUCT SUBMITTAL DATA

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 Properties, Strong Axis	
Neutral Axis from Top Fiber (Ycg)	2.2722 in
Moment of Inertia for Deflection (Ixx)	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	
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 Axis	
Gross Neutral Axis (Xcg) From Web Face	0.2514 in
Gross Moment of Inertia (Iyy)	0.0309 in^4
Radius of Gyration (Ry)	0.3707 in
Other Section Property Data	
Member Weight per Foot of Length	0.7648 lb/ft
Allowable Shear Force In Web (Unpunched)	939.64 lb
Torsional Properties	
Dist. from Shear Center to Neutral Axis (Xo)	-0.6303 in
St. Venant torsion Constant (J x 1000)	0.0897 in^4
Warping Constant (Cw)	0.0946 in^6
Radii of Gyration (Ro)	1.7252 in^6
Torsional Flexural Constant (Beta)	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
Location (3) and (4) are flange/web 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

RESCUE METAL FRAMING

1601 Australian Avenue
Riviera Beach, FL 33404
(561) 766-2192

PRODUCT SUBMITTAL DATA

Product Name :	**400T125-43 (33 ksi) Track (G90)**		
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 Properties, Strong Axis	
Neutral Axis from Top Fiber (Ycg)	2.2268 in
Moment of Inertia for Deflection (Ixx)	0.6662 in^4
Section Modulus (Sxx)	0.2818 in^3
Allowable Bending Moment (Ma)	464.01 ft-lb
Gross Section Properties of Full Section, Strong Axis	
Neutral Axis from Top Fiber (Ycg)	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^4
Radius of Gyration (Ry)	0.3687 in
Other Section Property Data	
Member Weight per Foot of Length	0.9961 lb/ft
Allowable Shear Force In Web (Unpunched)	1739.09 lb
Torsional Properties	
Dist. from Shear Center to Neutral 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 (Beta)	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
Location (3) and (4) are flange/web 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

RESCUE METAL FRAMING

1601 Australian Avenue
Riviera Beach, FL 33404
(561) 766-2192

PRODUCT SUBMITTAL DATA

Product Name :	**400T125-54 (50 ksi) Track (G90)**		
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, Strong Axis	
Neutral Axis from Top Fiber (Ycg)	2.2341 in
Moment of Inertia for Deflection (Ixx)	0.8494 in^4
Section Modulus (Sxx)	0.3587 in^3
Allowable Bending Moment (Ma)	894.90 ft-lb
Gross Section Properties of Full Section, Strong Axis	
Neutral Axis from Top Fiber (Ycg)	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 Data	
Member Weight per Foot of Length	1.2495 lb/ft
Allowable Shear Force In Web (Unpunched)	3371.56 lb
Torsional Properties	
Dist. from Shear Center to Neutral 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 (Beta)	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
Location (3) and (4) are flange/web 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

RESCUE METAL FRAMING

1601 Australian Avenue
Riviera Beach, FL 33404
(561) 766-2192

PRODUCT SUBMITTAL DATA

Product Name :	**400T150-33 (33 ksi) Track (G90)**		
PHYSICAL PROPERTIES :			
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, Strong Axis	
Neutral Axis from Top Fiber (Ycg)	2.3420 in
Moment of Inertia for Deflection (Ixx)	0.5193 in^4
Section Modulus (Sxx)	0.2084 in^3
Allowable Bending Moment (Ma)	343.12 ft-lb
Gross Section Properties of Full Section, Strong Axis	
Neutral Axis from Top Fiber (Ycg)	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 Axis	
Gross Neutral Axis (Xcg) From Web Face	0.3317 in
Gross Moment of Inertia (Iyy)	0.0513 in^4
Radius of Gyration (Ry)	0.4601 in
Other Section Property Data	
Member Weight per Foot of Length	0.8237 lb/ft
Allowable Shear Force In Web (Unpunched)	939.64 lb
Torsional Properties	
Dist. from Shear Center to Neutral 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)	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
Location (3) and (4) are flange/web 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

RESCUE METAL FRAMING

1601 Australian Avenue
Riviera Beach, FL 33404
(561) 766-2192

PRODUCT SUBMITTAL DATA

Product Name :	**400T150-43 (33 ksi) Track (G90)**		
PHYSICAL PROPERTIES :			
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, Strong Axis	
Neutral Axis from Top Fiber (Ycg)	2.2937 in
Moment of Inertia for Deflection (Ixx)	0.7192 in^4
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 (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 Axis	
Gross Neutral Axis (Xcg) From Web Face	0.3350 in
Gross Moment of Inertia (Iyy)	0.0662 in^4
Radius of Gyration (Ry)	0.4582 in
Other Section Property Data	
Member Weight per Foot of Length	1.0728 lb/ft
Allowable Shear Force In Web (Unpunched)	1739.09 lb
Torsional Properties	
Dist. from Shear Center to Neutral 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)	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
Location (3) and (4) are flange/web 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

RESCUE METAL FRAMING

1601 Australian Avenue
Riviera Beach, FL 33404
(561) 766-2192

PRODUCT SUBMITTAL DATA

Product Name :	**400T150-54 (50 ksi) Track (G90)**		
PHYSICAL PROPERTIES :			
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 (Ixx)	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 Axis	
Gross Neutral Axis (Xcg) From Web Face	0.3385 in
Gross Moment of Inertia (Iyy)	0.0822 in^4
Radius of Gyration (Ry)	0.4559 in
Other Section Property Data	
Member Weight per Foot of Length	1.3458 lb/ft
Allowable Shear Force In Web (Unpunched)	3371.56 lb
Torsional Properties	
Dist. from Shear Center to Neutral 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 (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
Location (3) and (4) are flange/web 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

RESCUE METAL FRAMING

1601 Australian Avenue
Riviera Beach, FL 33404
(561) 766-2192

PRODUCT SUBMITTAL DATA

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 Properties, Strong Axis	
Neutral Axis from Top Fiber (Ycg)	3.5290 in
Moment of Inertia for Deflection (Ixx)	1.1704 in^4
Section Modulus (Sxx)	0.2888 in^3
Allowable Bending Moment (Ma)	475.51 ft-lb
Gross Section Properties of 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 Axis	
Gross Neutral Axis (Xcg) From Web Face	0.1382 in
Gross Moment of Inertia (Iyy)	0.0178 in^4
Radius of Gyration (Ry)	0.2539 in
Other Section Property Data	
Member Weight per Foot of Length	0.9414 lb/ft
Allowable Shear Force In Web (Unpunched)	622.38 lb
Torsional Properties	
Dist. from Shear Center to Neutral 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)	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
Location (3) and (4) are flange/web 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

RESCUE METAL FRAMING

1601 Australian Avenue
Riviera Beach, FL 33404
(561) 766-2192

PRODUCT SUBMITTAL DATA

Product Name :	**600T100-43 (33 ksi) Track (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)	1.6290 in^4
Section Modulus (Sxx)	0.4442 in^3
Allowable Bending Moment (Ma)	731.44 ft-lb
Gross Section Properties of 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	
Gross Neutral Axis (Xcg) From Web 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 (Unpunched)	1377.13 lb
Torsional Properties	
Dist. from Shear Center to Neutral Axis (Xo)	-0.3590 in
St. Venant torsion Constant (J x 1000)	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
Location (3) and (4) are flange/web 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

RESCUE METAL FRAMING

1601 Australian Avenue
Riviera Beach, FL 33404
(561) 766-2192

PRODUCT SUBMITTAL DATA

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, Strong Axis	
Neutral Axis from Top Fiber (Ycg)	3.3085 in
Moment of Inertia for Deflection (Ixx)	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 (Ycg)	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 Data	
Member Weight per Foot of Length	1.5384 lb/ft
Allowable Shear Force In Web (Unpunched)	2728.34 lb
Torsional Properties	
Dist. from Shear Center to Neutral 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)	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
Location (3) and (4) are flange/web 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

RESCUE METAL FRAMING

1601 Australian Avenue
Riviera Beach, FL 33404
(561) 766-2192

PRODUCT SUBMITTAL DATA

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 Properties, Strong Axis	
Neutral Axis from Top Fiber (Ycg)	3.6345 in
Moment of Inertia for Deflection (Ixx)	1.2576 in^4
Section Modulus (Sxx)	0.2970 in^3
Allowable Bending Moment (Ma)	489.04 ft-lb
Gross Section Properties of Full Section, Strong Axis	
Neutral Axis from Top Fiber (Ycg)	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 Axis	
Gross Neutral Axis (Xcg) From Web Face	0.1963 in
Gross Moment of Inertia (Iyy)	0.0338 in^4
Radius of Gyration (Ry)	0.3390 in
Other Section Property Data	
Member Weight per Foot of Length	1.0003 lb/ft
Allowable Shear Force In Web (Unpunched)	622.38 lb
Torsional Properties	
Dist. from Shear Center to Neutral 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 (Beta)	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
Location (3) and (4) are flange/web 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

RESCUE METAL FRAMING

1601 Australian Avenue
Riviera Beach, FL 33404
(561) 766-2192

PRODUCT SUBMITTAL DATA

Product Name :	**600T125-43 (33 ksi) Track (G90)**		
PHYSICAL PROPERTIES :			
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 Properties, Strong Axis	
Neutral Axis from Top Fiber (Ycg)	3.4121 in
Moment of Inertia for Deflection (Ixx)	1.7680 in^4
Section Modulus (Sxx)	0.4612 in^3
Allowable Bending Moment (Ma)	759.40 ft-lb
Gross Section Properties of Full Section, Strong Axis	
Neutral Axis from Top Fiber (Ycg)	3.0807 in
Moment of Inertia (Ixxg)	1.8611 in^4
Section modules (Sxxg)	0.6041 in^3
Cross Sectional Area (Ag)	0.3829 in^2
Radius of Gyration (Rxg)	2.2046 in
Section Properties, Weak Axis	
Gross Neutral Axis (Xcg) From Web Face	0.2001 in
Gross Moment of Inertia (Iyy)	0.0435 in^4
Radius of Gyration (Ry)	0.3371 in
Other Section Property Data	
Member Weight per Foot of Length	1.3030 lb/ft
Allowable Shear Force In Web (Unpunched)	1377.13 lb
Torsional Properties	
Dist. from Shear Center to Neutral Axis (Xo)	-0.5129 in
St. Venant torsion Constant (J x 1000)	0.2596 in^4
Warping Constant (Cw)	0.3069 in^6
Radii of Gyration (Ro)	2.2884 in^6
Torsional Flexural Constant (Beta)	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
Location (3) and (4) are flange/web 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

RESCUE METAL FRAMING

1601 Australian Avenue
Riviera Beach, FL 33404
(561) 766-2192

PRODUCT SUBMITTAL DATA

Product Name :	**600T125-54 (50 ksi) Track (G90)**		
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 Properties, Strong Axis	
Neutral Axis from Top Fiber (Ycg)	3.4000 in
Moment of Inertia for Deflection (Ixx)	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 Axis	
Gross Neutral Axis (Xcg) From Web Face	0.2044 in
Gross Moment of Inertia (Iyy)	0.0539 in^4
Radius of Gyration (Ry)	0.3349 in
Other Section Property Data	
Member Weight per Foot of Length	1.6347 lb/ft
Allowable Shear Force In Web (Unpunched)	2728.34 lb
Torsional Properties	
Dist. from Shear Center to Neutral 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 (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
Location (3) and (4) are flange/web 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

RESCUE METAL FRAMING

1601 Australian Avenue
Riviera Beach, FL 33404
(561) 766-2192

PRODUCT SUBMITTAL DATA

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 Properties, Strong Axis	
Neutral Axis from Top Fiber (Ycg)	3.7371 in
Moment of Inertia for Deflection (Ixx)	1.3343 in^4
Section Modulus (Sxx)	0.3029 in^3
Allowable Bending Moment (Ma)	498.79 ft-lb
Gross Section Properties of 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 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 Data	
Member Weight per Foot of Length	1.0592 lb/ft
Allowable Shear Force In Web (Unpunched)	622.38 lb
Torsional Properties	
Dist. from Shear Center to Neutral Axis (Xo)	-0.6840 in
St. Venant torsion Constant (J x 1000)	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
Location (3) and (4) are flange/web 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

RESCUE METAL FRAMING

1601 Australian Avenue
Riviera Beach, FL 33404
(561) 766-2192

PRODUCT SUBMITTAL DATA

Product Name :	**600T150-43 (33 ksi) Track (G90)**		
PHYSICAL PROPERTIES :			
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 Properties, Strong Axis	
Neutral Axis from Top Fiber (Ycg)	3.5062 in
Moment of Inertia for Deflection (Ixx)	1.8897 in^4
Section Modulus (Sxx)	0.4736 in^3
Allowable Bending Moment (Ma)	779.85 ft-lb
Gross Section Properties of Full Section, Strong Axis	
Neutral Axis from Top Fiber (Ycg)	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 Data	
Member Weight per Foot of Length	1.3798 lb/ft
Allowable Shear Force In Web (Unpunched)	1377.13 lb
Torsional Properties	
Dist. from Shear Center to Neutral 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 (Beta)	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
Location (3) and (4) are flange/web 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

RESCUE METAL FRAMING

1601 Australian Avenue
Riviera Beach, FL 33404
(561) 766-2192

PRODUCT SUBMITTAL DATA

Product Name :	**600T150-54 (50 ksi) Track (G90)**		
PHYSICAL PROPERTIES :			
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 Properties, Strong Axis	
Neutral Axis from Top Fiber (Ycg)	3.4931 in
Moment of Inertia for Deflection (Ixx)	2.4004 in^4
Section Modulus (Sxx)	0.6091 in^3
Allowable Bending Moment (Ma)	1519.75 ft-lb
Gross Section Properties of Full Section, Strong Axis	
Neutral Axis from Top Fiber (Ycg)	3.0991 in
Moment of Inertia (Ixxg)	2.6110 in^4
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 Data	
Member Weight per Foot of Length	1.7310 lb/ft
Allowable Shear Force In Web (Unpunched)	2728.34 lb
Torsional Properties	
Dist. from Shear Center to Neutral Axis (Xo)	-0.6752 in
St. Venant torsion Constant (J x 1000)	0.5432 in^4
Warping Constant (Cw)	0.6325 in^6
Radii of Gyration (Ro)	2.4014 in^6
Torsional Flexural Constant (Beta)	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
Location (3) and (4) are flange/web 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

RESCUE METAL FRAMING

1601 Australian Avenue
Riviera Beach, FL 33404
(561) 766-2192

PRODUCT SUBMITTAL DATA

Product Name :	**800T100-33 (33 ksi) Track (G90)**		
PHYSICAL PROPERTIES :			
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 Properties, Strong Axis	
Neutral Axis from Top Fiber (Ycg)	4.8979 in
Moment of Inertia for Deflection (Ixx)	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 (Ycg)	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 Data	
Member Weight per Foot of Length	1.1769 lb/ft
Allowable Shear Force In Web (Unpunched)	465.29 lb
Torsional Properties	
Dist. from Shear Center to Neutral 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 (Beta)	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
Location (3) and (4) are flange/web corner of compression and tension side respectively
***** WEB DEPTH-TO-THICKNESS = 229 > 200 *****

- 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

RESCUE METAL FRAMING

1601 Australian Avenue
Riviera Beach, FL 33404
(561) 766-2192

PRODUCT SUBMITTAL DATA

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 Properties, Strong Axis	
Neutral Axis from Top Fiber (Ycg)	4.6030 in
Moment of Inertia for Deflection (Ixx)	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 (Ycg)	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 Data	
Member Weight per Foot of Length	1.5332 lb/ft
Allowable Shear Force In Web (Unpunched)	1029.75 lb
Torsional Properties	
Dist. from Shear Center to Neutral 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 (Beta)	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
Location (3) and (4) are flange/web corner of compression and tension side respectively

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RESCUE METAL FRAMING

1601 Australian Avenue
Riviera Beach, FL 33404
(561) 766-2192

PRODUCT SUBMITTAL DATA

Product Name :	**800T100-54 (50 ksi) Track (G90)**		
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 Properties, Strong Axis	
Neutral Axis from Top Fiber (Ycg)	4.5819 in
Moment of Inertia for Deflection (Ixx)	4.1183 in^4
Section Modulus (Sxx)	0.7958 in^3
Allowable Bending Moment (Ma)	1985.43 ft-lb
Gross Section Properties of Full Section, Strong Axis	
Neutral Axis from Top Fiber (Ycg)	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 Axis	
Gross Neutral Axis (Xcg) From Web Face	0.1230 in
Gross Moment of Inertia (Iyy)	0.0295 in^4
Radius of Gyration (Ry)	0.2285 in
Other Section Property Data	
Member Weight per Foot of Length	1.9236 lb/ft
Allowable Shear Force In Web (Unpunched)	2038.94 lb
Torsional Properties	
Dist. from Shear Center to Neutral 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 (Beta)	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
Location (3) and (4) are flange/web corner of compression and tension side respectively

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RESCUE METAL FRAMING

1601 Australian Avenue
Riviera Beach, FL 33404
(561) 766-2192

PRODUCT SUBMITTAL DATA

Product Name :	**800T125-33 (33 ksi) Track (G90)**		
PHYSICAL PROPERTIES :			
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 Properties, Strong Axis	
Neutral Axis from Top Fiber (Ycg)	5.0151 in
Moment of Inertia for Deflection (Ixx)	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 (Ycg)	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 Data	
Member Weight per Foot of Length	1.2358 lb/ft
Allowable Shear Force In Web (Unpunched)	465.29 lb
Torsional Properties	
Dist. from Shear Center to Neutral 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 (Beta)	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
Location (3) and (4) are flange/web corner of compression and tension side respectively
***** WEB DEPTH-TO-THICKNESS = 229 > 200 *****

- 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

RESCUE METAL FRAMING

1601 Australian Avenue
Riviera Beach, FL 33404
(561) 766-2192

PRODUCT SUBMITTAL DATA

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 Properties, Strong Axis	
Neutral Axis from Top Fiber (Ycg)	4.7076 in
Moment of Inertia for Deflection (Ixx)	3.4838 in^4
Section Modulus (Sxx)	0.6403 in^3
Allowable Bending Moment (Ma)	1054.33 ft-lb
Gross Section Properties of 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 Axis	
Gross Neutral Axis (Xcg) From Web Face	0.1663 in
Gross Moment of Inertia (Iyy)	0.0458 in^4
Radius of Gyration (Ry)	0.3112 in
Other Section Property Data	
Member Weight per Foot of Length	1.6100 lb/ft
Allowable Shear Force In Web (Unpunched)	1029.75 lb
Torsional Properties	
Dist. from Shear Center to Neutral 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)	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
Location (3) and (4) are flange/web 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

RESCUE METAL FRAMING

1601 Australian Avenue
Riviera Beach, FL 33404
(561) 766-2192

PRODUCT SUBMITTAL DATA

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 Properties, Strong Axis	
Neutral Axis from Top Fiber (Ycg)	4.6844 in
Moment of Inertia for Deflection (Ixx)	4.4257 in^4
Section Modulus (Sxx)	0.8237 in^3
Allowable Bending Moment (Ma)	2055.18 ft-lb
Gross Section Properties of Full Section, Strong Axis	
Neutral Axis from Top Fiber (Ycg)	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 Data	
Member Weight per Foot of Length	2.0199 lb/ft
Allowable Shear Force In Web (Unpunched)	2038.94 lb
Torsional Properties	
Dist. from Shear Center to Neutral 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 (Beta)	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
Location (3) and (4) are flange/web corner of compression and tension side respectively

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RESCUE METAL FRAMING

1601 Australian Avenue
Riviera Beach, FL 33404
(561) 766-2192

PRODUCT SUBMITTAL DATA

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 Properties, Strong Axis	
Neutral Axis from Top Fiber (Ycg)	5.1308 in
Moment of Inertia for Deflection (Ixx)	2.5688 in^4
Section Modulus (Sxx)	0.4138 in^3
Allowable Bending Moment (Ma)	681.40 ft-lb
Gross Section Properties of Full Section, Strong Axis	
Neutral Axis from Top Fiber (Ycg)	4.0728 in
Moment of Inertia (Ixxg)	3.1800 in^4
Section modules (Sxxg)	0.7808 in^3
Cross Sectional Area (Ag)	0.3805 in^2
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 (Iyy)	0.0600 in^4
Radius of Gyration (Ry)	0.3970 in
Other Section Property Data	
Member Weight per Foot of Length	1.2946 lb/ft
Allowable Shear Force In Web (Unpunched)	465.29 lb
Torsional Properties	
Dist. from Shear Center to Neutral Axis (Xo)	-0.5878 in
St. Venant torsion Constant (J x 1000)	0.1518 in^4
Warping Constant (Cw)	0.7515 in^6
Radii of Gyration (Ro)	2.9768 in^6
Torsional Flexural Constant (Beta)	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
Location (3) and (4) are flange/web corner of compression and tension side respectively
***** WEB DEPTH-TO-THICKNESS = 229 > 200 *****

- 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

RESCUE METAL FRAMING

1601 Australian Avenue
Riviera Beach, FL 33404
(561) 766-2192

PRODUCT SUBMITTAL DATA

Product Name :	**800T150-43 (33 ksi) Track (G90)**		
PHYSICAL PROPERTIES :			
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 Properties, Strong Axis	
Neutral Axis from Top Fiber (Ycg)	4.8147 in
Moment of Inertia for Deflection (Ixx)	3.6892 in^4
Section Modulus (Sxx)	0.6552 in^3
Allowable Bending Moment (Ma)	1078.94 ft-lb
Gross Section Properties of Full Section, Strong Axis	
Neutral Axis from Top Fiber (Ycg)	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 Data	
Member Weight per Foot of Length	1.6867 lb/ft
Allowable Shear Force In Web (Unpunched)	1029.75 lb
Torsional Properties	
Dist. from Shear Center to Neutral 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 (Beta)	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
Location (3) and (4) are flange/web corner of compression and tension side respectively

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- Effective properties include the strength increase from cold forming

RESCUE METAL FRAMING

1601 Australian Avenue
Riviera Beach, FL 33404
(561) 766-2192

PRODUCT SUBMITTAL DATA

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)	4.6923 in^4
Section Modulus (Sxx)	0.8439 in^3
Allowable Bending Moment (Ma)	2105.47 ft-lb
Gross Section Properties of 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	
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 Data	
Member Weight per Foot of Length	2.1162 lb/ft
Allowable Shear Force In Web (Unpunched)	2038.94 lb
Torsional Properties	
Dist. from Shear Center to Neutral 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 (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
Location (3) and (4) are flange/web 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