Product Name: 250SLT250-54



Product Category: 05.40.00 - Cold-Formed Metal Framing

Available Finish:	G60, G90	Gross Section Propert	<u>ies</u>
*Other standard coatings referenced in ASTM A1003		Cross sectional area (A)	0.42
Web Depth:	2-1/2 in	Moment of inertia (Ix)	0.28
Flange Width:	2-1/2 in	Section Modulus (Sx)	0.00
Slot Width:	1-1/2 in	Radius of gyration (Rx)	0.82
Design Thickness:	0.0566 in	Gross moment of inertia (Iy)	0.56
Gauge:	54 mils or 16G	Gross Radius of gyration (Ry)	1.15
Yield stress, Fy:	50 ksi	3, (,,	
Weight:	1.442 lb/ft		

- Gross properties calculated at the gross section, away from slots.
- Web depth taken as nominal depth + (2 x thickness) + inside corner radius.
- Effective properties based on the 2007 NASPEC with 2010 Supplement and the following: net flange on tension side; effective flange on compression side, ignoring steel below the slot; effective web per NASPEC B2.3; Ωb = 2.0 per AISI S100-16/S240-20, A1.2; meets the requirements of the IBC 2021 Building Code.
- Effective properties are not available for 6" x 18-mil products. Web h/t > 260.

Effective Section Properties

Moment of inertia for deflection (Ix)		
Section modulus (Sx)	0.141 in ³	
Allowable bending moment (Ma)		
Allowable bending moment from distortional buckling (Mad)		
Allowable strong axis shear away from punch-out (Vag)		
Allowable strong axis shear at punch out (Vanet)		

Torsional Properties

St. Venant torsion constant (J x 1000)	NA in ⁴
Warping constant (Cw)	$\rm NA~in^6$
Distance from shear center to neutral axis (Xo)	NA in
Distance from shear center to mid-plane of web (m)	NA in
Radii of gyration (Ro)	NA in
Torsional flexural constant (β)	



0.424 in² 0.287 in⁴ 0.000 in³ 0.824 in 0.565 in⁴ 1.155 in

Additional Information

MRI Steel Framing, LLC is an SFIA member. MRI acts in accordance with the product and quality standards required by the SFIA program. MRI meets or exceeds ASTM C955, A653, and A1003.

Current LEED credits available upon request