Product Name: 400SLT250-43



Product Category: 05.40.00 - Cold-Formed Metal Framing

Available Finish:	G60, G90	Gross Section Properties	
*Other standard coatings referenced in ASTM A1003		Cross sectional area (A)	0.405 in ²
Web Depth:	4 in	Moment of inertia (Ix)	0.268 in ⁴
Flange Width:	2-1/2 in	Section Modulus (Sx)	0.000 in ³
Slot Width:	1-1/2 in	Radius of gyration (Rx)	0.813 in
Design Thickness:	0.0451 in	Gross moment of inertia (Iy)	1.193 in⁴
Gauge:	43 mils or 18	Gross Radius of gyration (Ry)	1.715 in
Yield stress, Fy:	33 ksi	e (, ,	
Weight:	1.380 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)	
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)	0 lb

Torsional Properties

St. Venant torsion constant (J x 1000)	NA in ⁴
Warping constant (Cw)	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)	
Torsional flexural constant (β)	



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