

Product Category: 05.40.00 - Cold-Formed Metal Framing

Product Name: 362S350-118

Available Finish: G60, G90

*Other standard coatings referenced in ASTM A1003

Web Depth: 3-5/8 in

Flange Width: 3-1/2 in

Design Thickness: 0.1242 in

Gauge: 118 mils or 10G

Yield stress, Fy: 50 ksi

Weight: 4.95 lb/ft

Gross Section Properties

Cross sectional area (A)	1.453 in ²
Moment of inertia (Ix)	3.242 in ⁴
Section Modulus (Sx)	1.789 in ³
Radius of gyration (Rx)	1.494 in
Gross moment of inertia (Iy)	2.460 in ⁴
Gross Radius of gyration (Ry)	1.301 in

Effective Section Properties

Moment of inertia for deflection (Ix)	3.242 in ⁴
Section modulus (Sx)	1.694 in ³
Allowable bending moment (Ma)	56.210 In-k
Allowable bending moment from distortional buckling (Mad)	59.35 In-k
Allowable strong axis shear away from punch-out (Vag)	6996 lb
Allowable strong axis shear at punch out (Vanet)	784 lb

- Calculated properties are based on AISI S100-16/S240-20, North American Specification for Design of Cold-Formed Steel Structural Members and meets the requirements of the IBC 2021 Building Code.
- The centerline bend radius is based on inside corner radii shown in thickness chart.
- Effective properties incorporate the strength increase from the cold work of forming as applicable per AISI A7.2.
- Tabulated gross properties are based on full-unreduced cross section of the studs, away from punchouts.
- For deflection calculations, use the effective moment of inertia.
- Allowable moment includes cold-work of forming.
- For the steels that have both 33 and 50 ksi listing, if the design is based on 50 ksi, the 50 ksi steel needs to be specified. (ex. 3.625S137 16-50 (50 ksi))



Torsional Properties

St. Venant torsion constant (J x 1000)	7.473 in ⁴
Warping constant (Cw)	10.592 in ⁶
Distance from shear center to neutral axis (Xo)	-3.363 in
Distance from shear center to mid-plane of web (m)	1.909 in
Radii of gyration (Ro)	3.903 in
Torsional flexural constant (β)	0.258
Unbraced Length (Lu)	76.2 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