Product Name: 362S350-118



Product Category: 05.40.00 - Cold-Formed Metal Framing

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

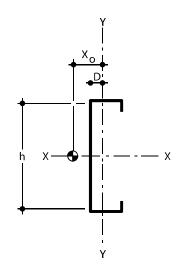
Gauge: 118 mils or 10G

Yield stress, Fy: 50 ksi Weight: 4.95 lb/ft

- 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 coldwork 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))

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 inGross 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 in⁴
Section modulus (Sx)	1.694 in ³
Allowable bending moment (Ma)	56.210 ln-k
Allowable bending moment from distortional buckling (Mad)	59.35 ln-k
Allowable strong axis shear away from punch-out (Vag)	6996 lb
Allowable strong axis shear at punch out (Vanet)	784 lb

Torsional Properties

St. Venant torsion constant (J x 1000)	7.473 in⁴
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