MRI STEEL FRAMING LLC

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Production Facility: 201 Mississippi St, Dock #Q40, Gary, IN 46402 **P:** 630-616-1850 **F:** 219-886-3341

Product Category: 05.40.00 - Cold-Formed Metal Framing **Product Name:** 362S400-43

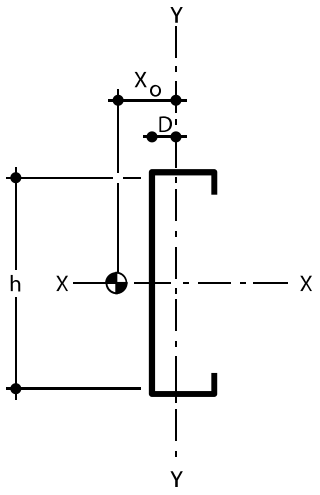
Available Finish: G60, G90
*Other standard coatings referenced in ASTM A1003

Web Depth: 3-5/8 in
Flange Width: 4 in
Design Thickness: 0.0451 in
Gauge: 43 mils or 18
Yield stress, Fy: 50 ksi
Weight: 2.04 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 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))

Gross Section Properties

Cross sectional area (A)	0.599 in^2
Moment of inertia (Ix)	1.448 in^4
Section Modulus (Sx)	0.799 in^3
Radius of gyration (Rx)	1.555 in
Gross moment of inertia (Iy)	1.377 in^4
Gross Radius of gyration (Ry)	1.516 in



Effective Section Properties

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

Torsional Properties

St. Venant torsion constant (J x 1000)	0.406 in^4
Warping constant (Cw)	5.980 in^6
Distance from shear center to neutral axis (Xo)	-3.955 in
Distance from shear center to mid-plane of web (m)	2.219 in
Radii of gyration (Ro)	4.512 in
Torsional flexural constant (β)	0.232
Unbraced Length (Lu)	106.8 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