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: 09.22.16 - Non-Structural Metal Framing **Product Name:** 600T125-18

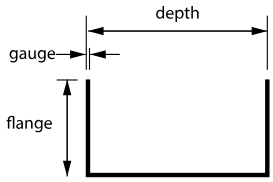
Available Finish: G40, G60
*Other standard coatings referenced in ASTM A1003

Web Depth: 6 in
Flange Width: 1-1/4 in
Design Thickness: 0.0188 in
Gauge: 18 mils or 25G
Yield stress, Fy: 33 ksi
Weight: 0.540 lb/ft

- Calculated properties are based on AISI S100-16/S2-20, 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.
- Web depth for track sections is equal to the nominal height plus 2 times the design thickness plus the bend radius. Hems on nonstructural rack sections are ignored.

Gross Section Properties

Cross sectional area (A)	0.160 in^2
Moment of inertia (Ix)	0.783 in^4
Section Modulus (Sx)	0.000 in^3
Radius of gyration (Rx)	2.212 in
Gross moment of inertia (Iy)	0.019 in^4
Gross Radius of gyration (Ry)	0.342 in



Effective Section Properties

Moment of inertia for deflection (Ix)	0.000 in^4
Section modulus (Sx)	0.000 in^3
Allowable bending moment (Ma)	0.00 In-k
Allowable bending moment from distortional buckling (Mad)	0 In-k
Allowable strong axis shear away from punch-out (Vag)	0 lb
Allowable strong axis shear at punch out (Vanet)	0 lb

Torsional Properties

St. Venant torsion constant (J x 1000)	0.019 in^4
Warping constant (Cw)	0.133 in^6
Distance from shear center to neutral axis (Xo)	-0.530 in
Distance from shear center to mid-plane of web (m)	0.000 in
Radii of gyration (Ro)	2.300 in
Torsional flexural constant (β)	0.947

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 C645, A653, and A1003.

Current LEED credits available upon request