



STEEL FRAMING LLC

#### Corporate Headquarters

15 Salt Creek Lane, Suite 412  
Hinsdale, IL 60521  
Phone: 1.630.616.1850  
Fax: 1.630.568.5979  
info@mrsteelframing.com

#### Production Facility

201 Mississippi St Dock #Q40  
Gary, IN 46402  
Phone: 1.630.616.1850  
Fax: 1.219.886.3341  
info@mrsteelframing.com

## GREEN Benefits & Recycled Content

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Project:

MRI Steel Framing is committed to supplying quality products that contribute to developing greener building projects as well as sustainability and environmental management.

MRI Steel Framing has an Environmental Product Declaration (EPD), Number SCS-EPD-08959, covering our Cold-Formed Steel Framing Products, which conforms to ISO 14025, 14040, 14044, and ISO 21930. This EPD is a Product Specific Type III and has a Cradle to Gate scope. More specifically, this Type III EPD has been externally reviewed following ISO 14071 and externally verified, and as such, is eligible to contribute 150% of a product for the purposes of LEED® credits under the LEED® v4.1 standard.

The MRI Steel Framing Environmental Product Declaration (EPD) can help your building project qualify for the following LEED® v4.1 for BD+C points:

#### MATERIALS AND RESOURCES CREDIT (MR)

- Environmental Product Declarations - Up to 2 Points
- Sourcing of Raw Materials - Up to 2 Points
- Material Ingredients - Up to 2 Points
- Construction and Demolition Waste Management - Up to 2 Points

#### INDOOR ENVIRONMENTAL QUALITY CREDIT (EQ)

- Low-Emitting Materials - Up to 3 Points
- Construction Indoor Air Quality Management Plan - Up to 1 Point
- Indoor Air Quality Assessment - Up to 2 Points

MRI Steel Framing products and accessories are manufactured from steel coil (100% by weight) containing 19.8% post-consumer recycled content and 14.4% post-industrial/pre-consumer recycled content for a total of 34.2% recycled content. These calculations are based upon information provided by the Steel Recycling Institute on minimum BOF (Basic Oxygen Furnace) steel recycled content.

In addition to the above mentioned EPD and LEED® information, MRI Steel Framing also has a Health Product Declaration (HPD) with a Unique Identifier Number of 27459 covering our full line of Interior Framing, Structural Framing, Slotted Deflection Track and Accessories; MasterSpec 05.40.00 and 09.22.16.

**Product Category:** 09.22.16 - Non-Structural Metal Framing

**Product Name:** 250SLT250-18

**Available Finish:** G40, G60

\*Other standard coatings referenced in ASTM A1003

**Web Depth:** 2-1/2 in

**Flange Width:** 2-1/2 in

**Slot Width:** 1-1/2 in

**Design Thickness:** 0.0188 in

**Gauge:** 18 mils or 25G

**Yield stress, Fy:** 33 ksi

**Weight:** 0.457 lb/ft

### Gross Section Properties

Cross sectional area (A)	0.134 in <sup>2</sup>
Moment of inertia (Ix)	0.093 in <sup>4</sup>
Section Modulus (Sx)	0.000 in <sup>3</sup>
Radius of gyration (Rx)	0.830 in
Gross moment of inertia (Iy)	0.175 in <sup>4</sup>
Gross Radius of gyration (Ry)	1.141 in

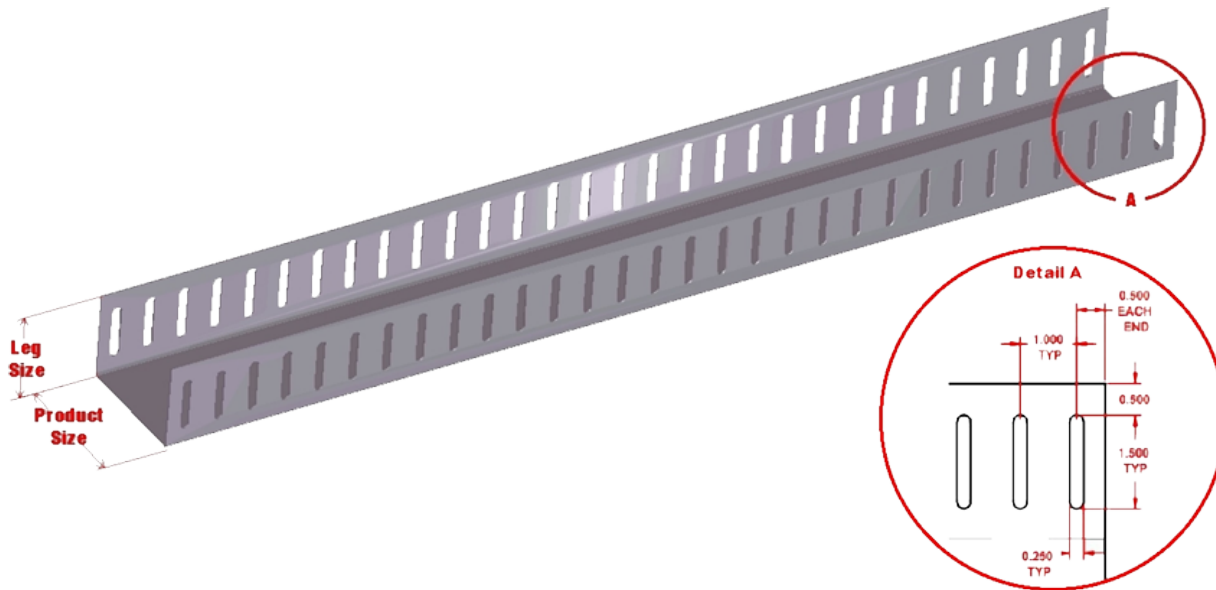
### Effective Section Properties

Moment of inertia for deflection (Ix)	0.061 in <sup>4</sup>
Section modulus (Sx)	0.035 in <sup>3</sup>
Allowable bending moment (Ma)	0.58 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)	NA in <sup>4</sup>
Warping constant (Cw)	NA in <sup>6</sup>
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)	NA in
Torsional flexural constant (β)	NA

- 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/S2-20, 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.



### **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