



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: 400PWT125-19 PrimeWall Track 20 EQ

Available Finish: G40
 (G60/G90 coatings available upon request)
 *Other standard coatings referenced in ASTM A1003
Web Depth: 4 in
Flange Width: 1-1/4 in
Design Thickness: 0.0200 in
Gauge: 19 mils or 20 EQ
Yield stress, Fy: 55 ksi
Weight: 0.440 lb/ft

Gross Section Properties

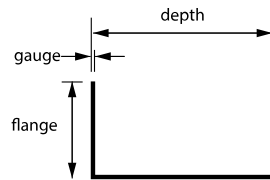
Cross sectional area (A)	0.130 in ²
Moment of inertia (I _{xx})	0.315 in ⁴
Section Modulus (S _{xx})	0.153 in ³
Radius of gyration (R _x)	1.556 in
Gross moment of inertia (I _{yy})	0.018 in ⁴
Gross Radius of gyration (R _y)	0.374 in

Effective Section Properties

Moment of inertia for deflection (I _{xx})	0.226 in ⁴
Section modulus (S _{xx})	0.061 in ³
Allowable bending moment (M _a)	2.00 In-k
Allowable strong axis shear away from punch-out (V _a)	181 lb

Torsional Properties

St. Venant torsion constant (J x 1000)	0.017 in ⁴
Warping constant (C _w)	0.055 in ⁶
Distance from shear center to neutral axis (X _o)	-0.637 in
Distance from shear center to mid-plane of web (m)	0.400 in
Radii of gyration (R _o)	1.722 in
Torsional flexural constant (β)	0.863



- 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.

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
 PrimeWall is a licensed product of The Steel Network.