

Product Category: 092216 - Non-Structural Framing **Product Name:** 250PWS134-19 20GA EQ

Important Properties Notes:

- Calculated properties are based on AISI S100-16
 Supplement, North American Specification for Design of Cold-Formed
 Steel Structural Members and Meets IBC 2018 Code
- The centerline bend radius is based on inside corner radii shown in thickness chart.
- Effective properties incorporate the strength cold work of forming as applicable per AISI A7.2.
- Tabulated gross properties are based on fullsection of the studs, away from punchouts.
- · For deflection calculations, use the effective
- Allowable moment includes cold-work of forming.

Project Information

Name: Address:

Contractor Information Name:

Contact: Phone: Fax:

Architect Information

Name: Contact: Phone: Fax:

Distributor/Rep Information

Section Properties

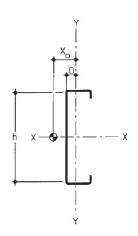
Name: Contact: Phone: Email /Web:

Properties

Weight

250PWS134-19 2	OGA EQ	Properties	250PWS13
Finish:	G40		Gross Sect
Web Depth	2-1/2"	in	Cross section
Flange Width	1-11/32"	in	Moment of in
Return Lip	0.406	in	Section Modu
Design Thickness			Radius of gyr
Yield stress, Fy	55	ksi	Gross mome

0.390 lb/ft



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Gross Section PropertiesCross sectional area (A)0.115 in2Moment of inertia (Ix)0.119 In4Section Modulus (Sx)0.095 inRadius of gyration (Rx)1.017 in4Gross moment of inertia (Iy)0.031 inGross Radius of gyration (Ry)0.515 in2

Effective Section Properties

Moment of inertia for deflection (Ixe) 0.111 in4 Section modulus (Sxe) 0.075 in3 Allowable bending moment (Ma) 2.480 In-lbs Allowable bending moment (Ma-D) 2.02 In-k (Vag) 311 lb (Vanet) 222 lb Fya 55 ksi

Torsional Properties



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Limiting Heights Properties

Non-Composite Limiting Heights - Fully Braced

Spacing (inches)	5psf		10psf			
(inches)	L/120	L/240	L/360	L/120	L/240	L/360
12	14'-6"	11'-7"	10'-2"	11'-5"	9'-2"	8'-1"
16	13'-2"	10'-7"	9'-3"	10'-1"	8'-4	7'-4"
24	11'-5"	9'-2"	8'-1"	8'-2"	7'-3"	6'-5"

Fully Braced Non-Composite Limiting Heights Table Notes

- -Calculations are based on AISI Standard, North American Specification for the Design of Cold-Formed Steel Structural Members, 2016 edition (AISI S100-2016). All calculations are based on allowable strength design (ASD).
- -When provided, factory punchouts will be located along the centerline of the webs of the members and will have a minimum center-to-center spacing of 24 inches. Punchouts for members > 2.5 inches deep are a maximum of 1.5 inches wide x 4 inches

long. Members with depths 2.5" and smaller are maximum 3/4" wide x 4 inches long.

- -For deflection determination, use the effective moment of inertia.
- -The effective moment of inertia for deflection is calculated at a stress which results in a section modulus such that the stress times the section modulus at that stress is equal to the allowable local buckling moment, Ma-L.
- -Tabulated gross and torsional properties are based on the full, unreduced section away from punchouts
- -Effective X-X Axis properties of all stud and joist sections based on punched sections.
- -Where section designations include a superscript '1', web height-to-thickness exceeds 200. Web stiffeners are required at all supports and concentrated loads.
- -Where effective properties are not listed for a section, web depth-to-thickness or flange width-to-thickness limits from the AISI S100 are exceeded. Only gross properties are available.
- -Allowable bending moment and moment of inertia for 6" studs based on the direct strength method (DSM).

Additional Specification Information

Studs Unlimited is an SFIA member. Studs Unlimited acts in accordance with the product and quality standards required by the SFIA program.

Studs Unlimited meets or exceeds ASTM C955, A653, and A1003.

Prime Wall is owned by and licensed by MRI Steel Framing

LEED Specification Information

Materials & Resources Credit 2: Construction Waste Management - Studs Unlimited Steel Framing Products are formed from steel and are 100% recyclable. (1 point)

Materials & Resources Credit 4: Recycled Content intends to increase demand for building products that incorporate recycled content materials, therefore reducing impacts resulting from extraction and processing of new virgin materials. As discussed and demonstrated below, North American steel building products contribute positively toward points under Credits 4.1 and 4.2. The following is required by LEED-NC Versions 2.2 and 2009:

Credit 4.1 (1 point) Use materials with recycled content such that the sum of post-consumer recycled content plus one-half of pre-consumer content constitutes at least 10%(based on cost) of the total value of the materials in the project.

Credit 4.2 (1 point) Use materials with recycled content such that the sum of post-consumer recycled content plus one-half of pre-consumer content constitutes at least 20% of the total value of the materials in the project.

Materials & Resources Credit 5: Regional Materials - Contact Studs Unlimited directly for information

Studs Unlimited is located in Oklahoma City, Oklahoma. (1 point)