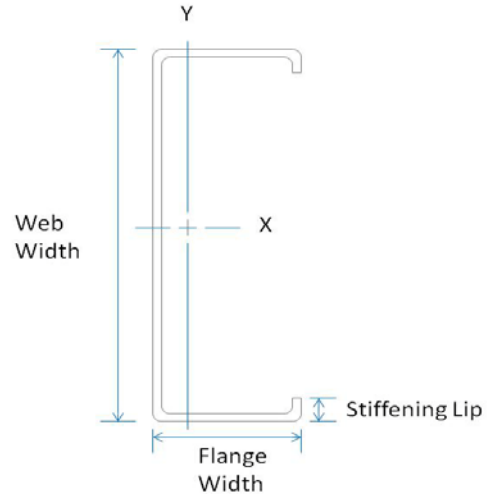


**Member Designator** 250PS125-33  
**Coating** G40 EQ

## Physical Properties

**Design Thickness** 0.0346 in  
**Mil** 33 mil  
**Gauge** 20 Gauge  
**Web Width** 2.50 in  
**Flange Width** 1.25 in  
**Stiffening Lip** 0.25 in  
**Yield Strength** 33 ksi



## Gross Properties

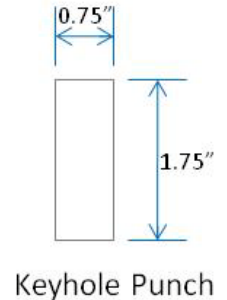
Area (in <sup>2</sup> )	Weight (lb/ft)	I <sub>x</sub> (in <sup>4</sup> )	S <sub>x</sub> (in <sup>3</sup> )	R <sub>x</sub> (in)	I <sub>y</sub> (in <sup>4</sup> )	R <sub>y</sub> (in)
0.182	0.620	0.186	0.149	1.010	0.037	0.449

## Effective Properties

A <sub>e</sub> (in <sup>2</sup> )	I <sub>xe</sub> (in <sup>4</sup> )	S <sub>xe</sub> (in <sup>3</sup> )	M <sub>a</sub> (in-lbs)
0.125	0.186	0.138	2735

## Torsional Properties

J <sup>x1000</sup> (in <sup>4</sup> )	C <sub>w</sub> (in <sup>6</sup> )	X <sub>o</sub> (in)	R <sub>o</sub> (in)	β
0.073	0.046	-0.937	1.449	0.582



## Composite Limiting Wall Heights (5/8" Type X Gypsum Board)

Section	Spacing (in) o.c.	5 psf			7.5 psf			10 psf			15 psf		
		L/120	L/240	L/360	L/120	L/240	L/360	L/120	L/240	L/360	L/120	L/240	L/360
250PS125-33	12	20' - 0"	15' - 11"	13' - 10"	17' - 6"	13' - 10"	12' - 1"	15' - 11"	12' - 7"	11' - 0"	13' - 10"	11' - 0"	9' - 7"
250PS125-33	16	18' - 2"	14' - 5"	12' - 7"	15' - 11"	12' - 7"	11' - 0"	14' - 5"	11' - 5"	10' - 0"	12' - 1" f	10' - 0"	8' - 6"
250PS125-33	24	15' - 11"	12' - 7"	11' - 0"	13' - 10"	11' - 0"	9' - 7"	12' - 7"	10' - 0"	8' - 6"	9' - 11" f	8' - 6"	

## General Notes

- MBA Building Supplies is a SSMA member company. MBA adheres to the product standards and quality standards as required by SSMA.
- Physical properties and load tables have been calculated in conformance with the 2001 NASPEC for the Design of Cold-Formed Steel Structural Members, including the 2004 Supplement, and the IBC 2006, unless noted otherwise.
- Allowable composite heights are calculated using ICC-ES AC86-2010. The 1/3 stress increase was not used.
- Drywall framing members have a protective coating conforming to ASTM spec A 653/A 653M, G-40 min, or equivalent corrosion resistance.
- Reference ASTM specification A 1003/A 1003 M table 1 for the universe of allowable coatings for light gauge steel framing.
- Drywall framing members are marked with product information per the requirements of ASTM C 645 section 14.
- All delivered material must be kept dry, preferably by being stored inside a building under a roof. If it is necessary to store material outside, it must be stacked off the ground, properly supported on a level platform, and fully protected from the weather. Reference ASTM C 754 section 8 and ASTM C 1007 section 4.
- Drywall framing [nonstructural 25 gauge, 22 gauge and 20 gauge] is not permitted in load bearing (i.e. axial load greater than 200 lbs.) or exterior applications (i.e. transverse load greater than 10 PSF). Reference ASTM C 645 section 3.2.2.

## LEED Green Building Credits

MR Credit 2: Construction Waste Management – MBA steel framing is 100% recyclable.

MR Credit 4: Recycled Content – MBA steel framing is formed from no less than 25.5% post-consumer and 6.8% pre-consumer recycled content.

MR Credit 5: Regional Materials – MBA has manufacturing facilities in Illinois and Alabama.