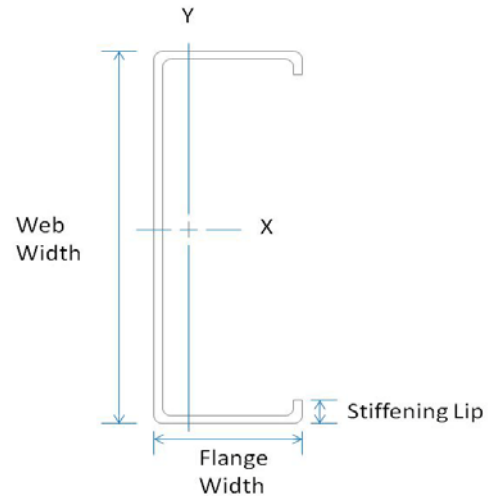


**Member Designator** 400PS125-33  
**Coating** G40 EQ

## Physical Properties

**Design Thickness** 0.0346 in  
**Mil** 33 mil  
**Gauge** 20 Gauge  
**Web Width** 4.00 in  
**Flange Width** 1.25 in  
**Stiffening Lip** 0.25 in  
**Yield Strength** 33 ksi



## Gross Properties

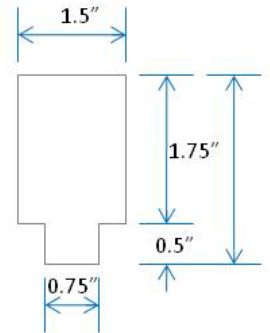
Area (in <sup>2</sup> )	Weight (lb/ft)	I <sub>x</sub> (in <sup>4</sup> )	S <sub>x</sub> (in <sup>3</sup> )	R <sub>x</sub> (in)	I <sub>y</sub> (in <sup>4</sup> )	R <sub>y</sub> (in)
0.234	0.796	0.553	0.277	1.538	0.043	0.426

## 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)
0.128	0.537	0.232	4590

## 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
0.093	0.132	-0.783	1.777	0.806



Keyhole Punch

## 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
400PS125-33	12	28' - 1"	22' - 3"	19' - 5"	24' - 6"	19' - 5"	17' - 0"	22' - 3"	17' - 8"	15' - 5"	17' - 7" f	15' - 5"	13' - 6"
400PS125-33	16	25' - 6"	20' - 3"	17' - 8"	22' - 3"	17' - 8"	15' - 5"	20' - 3"	16' - 1"	14' - 0"	15' - 3" f	14' - 0"	12' - 3"
400PS125-33	24	22' - 3"	17' - 8"	15' - 5"	19' - 5"	15' - 5"	13' - 6"	17' - 8"	14' - 0"	12' - 3"	12' - 5" f	12' - 3"	10' - 7"

## 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.