

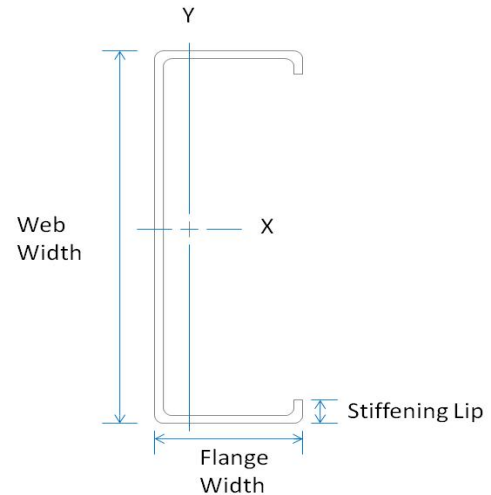
Member Designator **400PS125-15**

Coating **G40 EQ**

Physical Properties

Design Thickness **0.0158 in**
 Mil **15 mil**
 Gauge **25 Gauge**
 Web Width **4.00 in**
 Flange Width **1.25 in**
 Stiffening Lip **0.25 in**
 Yield Strength **50 ksi**

Note : Web depth to thickness ratio exceeds 200, web stiffeners are required at bearing locations in non-composite conditions



Gross Properties

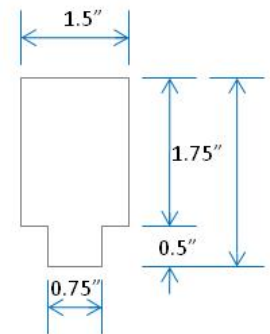
Area (in ²)	Weight (lb/ft)	I _x (in ⁴)	R _x (in)	I _y (in ⁴)	R _y (in)
0.108	0.37	0.260	1.549	0.021	0.436

Effective Properties

A _e (in ²)	I _x (in ⁴)	S _x (in ³)	M _a (in-lbs)	V _a (lb)	V _a _{net} (lb)
0.034	0.233	0.062	1870	90	90

Torsional Properties

Jx1000 (in ⁴)	C _w (in ⁶)	X _o (in)	R _o (in)	β
0.00901	0.064	-0.803	1.798	0.800



Keyhole Punch

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

Member	Spacing (inches)	5 psf			7.5 psf			10 psf		
		L/120	L/240	L/360	L/120	L/240	L/360	L/120	L/240	L/360
400PS125-15	12	22' 8"	18' 0"	15' 9"	19' 1" f	15' 9"	13' 9"	16' 6" f	14' 4"	12' 6"
	16	20' 3" f	16' 4"	14' 4"	16' 6" f	14' 4"	12' 6"	14' 4" f	13' 0"	11' 3"
	24	16' 6" f	14' 4"	12' 6"	13' 6" f	12' 6"	10' 8"	11' 8" f	11' 3"	9' 6"

General Notes

- Physical properties and load tables have been calculated based on AISI S100-07, NASPEC for Design of Cold-Formed Steel Structural Members.
- Effective properties incorporate the strength increase from the cold work of forming as applicable per AISI A7.2.
- Allowable moment includes cold-work of forming.
- Tabulated gross properties, including torsional properties, are based on full-unreduced cross section of the studs (away from punchouts) & tracks.
- Allowable moment is taken as the lowest value based on local or distortional buckling. Distortional buckling strength is based on a k-phi = 0.
- 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. 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 multiple states.