

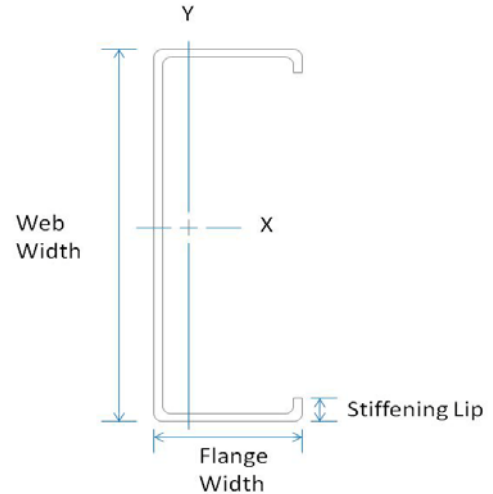
## Member Designator 600S125-30

Coating G40 EQ

### Physical Properties

Design Thickness 0.0312 in  
 Mil 30 mil  
 Gauge 20 Gauge  
 Web Width 6.00 in  
 Flange Width 1.25 in  
 Stiffening Lip 0.25 in  
 Yield Strength 33 ksi

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



### Gross Properties

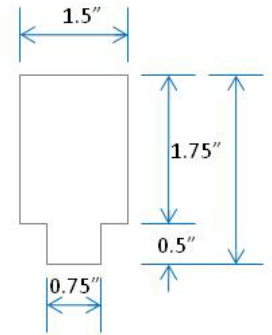
Area (in <sup>2</sup> )	Weight (lb/ft)	I <sub>x</sub> (in <sup>4</sup> )	S <sub>x</sub> (in <sup>3</sup> )	R <sub>x</sub> (in)	I <sub>y</sub> (in <sup>4</sup> )	R <sub>y</sub> (in)
0.274	0.932	1.324	0.441	2.199	0.043	0.396

### 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)
0.109	1.281	0.338	6671

### 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
0.089	0.303	-0.651	2.327	0.922



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
600PS125-30	12	36'-3"	28'-10"	25'-2"	31'-8"	25'-2"	22'-0"	28'-10"	22'-10"	20'-0"	20'-2" f	20'-0"	17'-5"
600PS125-30	16	33'-0"	26'-2"	22'-10"	28'-10"	22'-10"	20'-0"	26'-2"	20'-9"	18'-2"	17'-6" f	17'-6" f	15'-10"
600PS125-30	24	28'-10"	22'-10"	20'-0"	25'-1" f	20'-0"	17'-5"	21'-9" f	18'-2"	15'-10"	14'-3" f	14'-3" f	13'-10"

### 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.