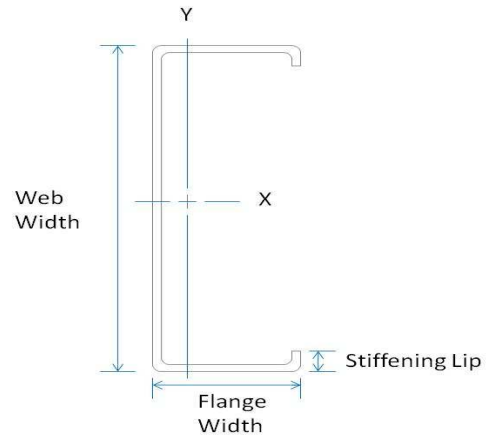


## Member Designator 400S137-33

Coating CP60

## Physical Properties

Design Thickness 0.0346 in  
Mil 33 mil  
Gauge 20 Gauge  
Web Width 4.00 in  
Flange Width 1.375 in  
Stiffening Lip 0.375 in  
Yield Strength 33 ksi



## Gross Properties

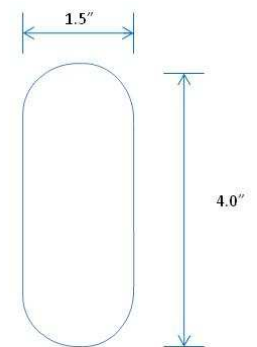
Area (in <sup>2</sup> )	Weight (lb/ft)	I <sub>x</sub> (in <sup>4</sup> )	S <sub>x</sub> (in <sup>3</sup> )	R <sub>x</sub> (in)	I <sub>y</sub> (in <sup>4</sup> )	R <sub>y</sub> (in)
0.249	0.85	0.603	0.301	1.556	0.061	0.496

## Effective Properties

I <sub>x</sub> (in <sup>4</sup> )	S <sub>x</sub> (in <sup>3</sup> )	M <sub>a</sub> (in-k)	V <sub>ag</sub> (lb)
0.603	0.259	5.12	976

## Torsional Properties

J <sup>x1000</sup> (in <sup>4</sup> )	C <sub>w</sub> (in <sup>6</sup> )	X <sub>o</sub> (in)	m (in)	R <sub>o</sub> (in)	β
0.099	0.204	-0.965	0.597	1.897	0.741



Structural Punch

## Limiting Wall Heights – Curtain Wall

Section	Spacing (in) o.c.	5 psf			15 psf			20 psf			25 psf		
		L/120	L/240	L/360	L/240	L/360	L/600	L/240	L/360	L/600	L/240	L/360	L/600
400S137-33	12	25' 1"	19' 11"	17' 4"	13' 9"	12' 0"	10' 2"	12' 6"	10' 11"	9' 2"	11' 7"	10' 2"	8' 7"
400S137-33	16	22' 9"	18' 1"	15' 9"	12' 6"	10' 11"	9' 2"	11' 4"	9' 11"	8' 4"	10' 7"	9' 2"	7' 9"
400S137-33	24	19' 11"	15' 9"	13' 9"	10' 11"	9' 6"	8' 0"	9' 11"	8' 8"	7' 4"	9' 2"	8' 0"	6' 9"

Section	Spacing (in) o.c.	30 psf			35 psf			40 psf			50 psf		
		L/240	L/360	L/600	L/240	L/360	L/600	L/240	L/360	L/600	L/240	L/360	L/600
400S137-33	12	10' 11"	9' 6"	8' 0"	10' 4"	9' 1"	7' 8"	9' 11"	8' 8"	7' 4"	9' 2"	8' 0"	6' 9"
400S137-33	16	9' 11"	8' 8"	7' 4"	9' 5"	8' 3"	6' 11"	9' 0"	7' 10"	6' 8"	8' 4"	7' 4"	6' 2"
400S137-33	24	8' 8"	7' 7"	6' 4"	8' 3"	7' 2"	6' 1"	7' 10"	6' 10"	5' 9"	7' 1"	6' 4"	5' 4"

## General Notes

- 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.
- All structural framing members have a protective coating conforming to ASTM C 955.
- Reference ASTM specification A 1003/A 1003 M table 1 for the universe of allowable coatings for light gauge steel framing.
- Stud/joists are manufactured to custom lengths. Stud/joists are manufactured with punched webs unless otherwise specified at time of order.
- Track is produced in standard lengths of 10 feet unless a custom track length is indicated. Track is manufactured with unpunched webs.
- Structural framing members are marked with product information per the requirements of ASTM C 955 section 12.
- 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.

## 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.