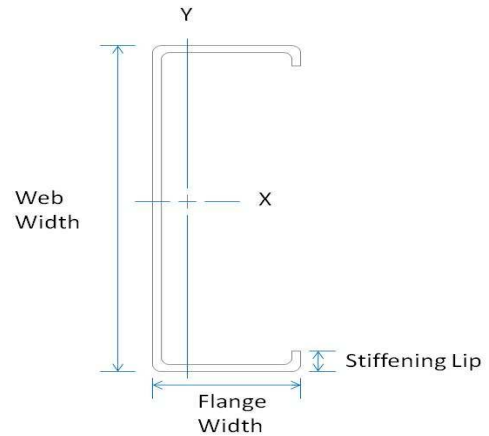


## Member Designator **400S137-43**

Coating CP60

## Physical Properties

Design Thickness 0.0451 in  
 Mil 43 mil  
 Gauge 18 Gauge  
 Web Width 4.00 in  
 Flange Width 1.375 in  
 Stiffening Lip 0.375 in  
 Yield Strength 33 ksi



## Gross Properties

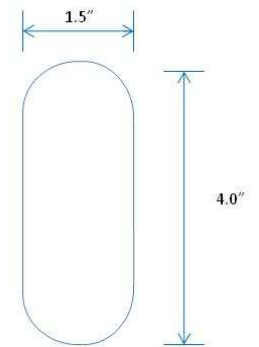
Area (in <sup>2</sup> )	Weight (lb/ft)	I <sub>x</sub> (in <sup>4</sup> )	S <sub>x</sub> (in <sup>3</sup> )	R <sub>x</sub> (in)	I <sub>y</sub> (in <sup>4</sup> )	R <sub>y</sub> (in)
0.323	1.10	0.776	0.388	1.551	0.078	0.491

## 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)
0.776	0.359	7.09	1739

## 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
0.219	0.257	-0.954	0.591	1.885	0.744



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
400S137-43	12	27' 3"	21' 8"	18' 11"	15' 0"	13' 1"	11' 0"	13' 7"	11' 11"	10' 0"	12' 8"	11' 0"	9' 4"
400S137-43	16	24' 9"	19' 8"	17' 2"	13' 7"	11' 11"	10' 0"	12' 4"	10' 10"	9' 1"	11' 6"	10' 0"	8' 5"
400S137-43	24	21' 8"	17' 2"	15' 0"	11' 11"	10' 5"	8' 9"	10' 10"	9' 5"	7' 11"	10' 0"	8' 9"	7' 4"

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
400S137-43	12	11' 11"	10' 5"	8' 9"	11' 3"	9' 10"	8' 4"	10' 10"	9' 5"	7' 11"	10' 0"	8' 9"	7' 4"
400S137-43	16	10' 11"	9' 5"	7' 11"	10' 3"	8' 11"	7' 7"	9' 10"	8' 7"	7' 3"	9' 1"	7' 11"	6' 8"
400S137-43	24	9' 5"	8' 3"	6' 11"	8' 11"	7' 10"	6' 7"	8' 7"	7' 6"	6' 4"	7' 11"	6' 11"	5' 10"

## 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.