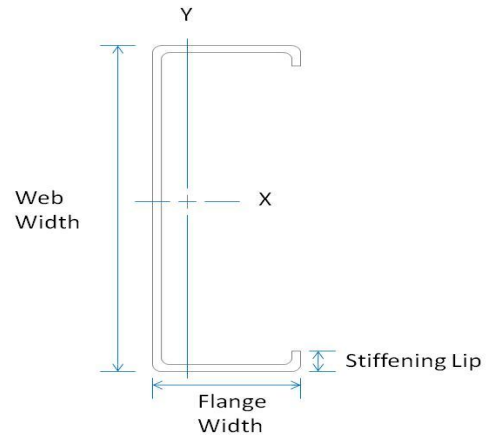


Member Designator **400S137-54**

Coating **CP60**

Physical Properties

Design Thickness **0.0566 in**
 Mil **54 mil**
 Gauge **16 Gauge**
 Web Width **4.00 in**
 Flange Width **1.375 in**
 Stiffening Lip **0.375 in**
 Yield Strength **50 ksi**



Gross Properties

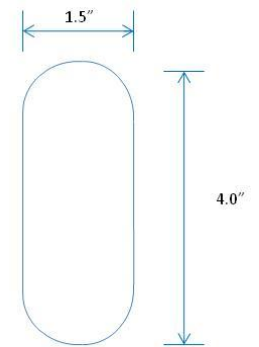
Area (in ²)	Weight (lb/ft)	I _x (in ⁴)	S _x (in ³)	R _x (in)	I _y (in ⁴)	R _y (in)
0.401	1.36	0.953	0.477	1.542	0.094	0.484

Effective Properties

I _{xx} (in ⁴)	S _{xx} (in ³)	M _a (in-k)	V _{ag} (lb)
0.953	0.428	12.82	3372

Torsional Properties

J ^{x1000} (in ⁴)	C _w (in ⁶)	X _o (in)	m (in)	R _o (in)	β
0.428	0.311	-0.940	0.583	1.870	0.747



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
400S137-54	12	29' 2"	23' 2"	20' 3"	16' 1"	14' 0"	11' 10"	14' 7"	12' 9"	10' 9"	13' 6"	11' 10"	9' 11"
400S137-54	16	26' 6"	21' 1"	18' 5"	14' 7"	12' 9"	10' 9"	13' 3"	11' 7"	9' 9"	12' 3"	10' 9"	9' 1"
400S137-54	24	23' 2"	18' 5"	16' 1"	12' 9"	11' 1"	9' 4"	11' 7"	10' 1"	8' 6"	10' 9"	9' 4"	7' 11"

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
400S337-54	12	12' 9"	11' 1"	9' 4"	12' 1"	10' 7"	8' 11"	11' 7"	10' 1"	8' 6"	10' 9"	9' 4"	7' 11"
400S137-54	16	11' 7"	10' 1"	8' 6"	11' 0"	9' 7"	8' 1"	10' 6"	9' 2"	7' 9"	9' 9"	8' 6"	7' 2"
400S337-54	24	10' 1"	8' 10"	7' 5"	9' 7"	8' 4"	7' 1"	9' 2"	8' 0"	6' 9"	8' 6"	7' 5"	6' 3"

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.