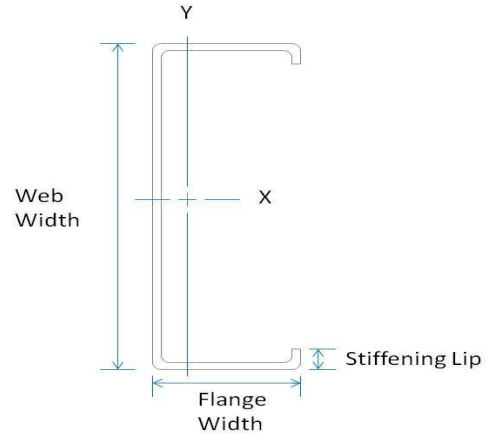


Member Designator **800S137-33**

Coating **CP60**

Physical Properties

Design Thickness **0.0346 in**
 Mil **33 mil**
 Gauge **20 Gauge**
 Web Width **8.00 in**
 Flange Width **1.375 in**
 Stiffening Lip **0.375 in**
 Yield Strength **33 ksi**



Gross Properties

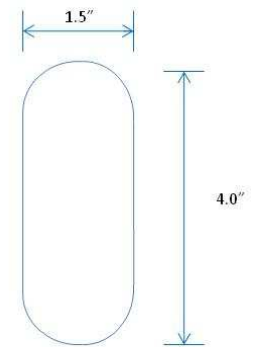
| Area (in ²) | Weight (lb/ft) | I _x (in ⁴) | S _x (in ³) | R _x (in) | I _y (in ⁴) | R _y (in) |
|----------------------------|-------------------|--------------------------------------|--------------------------------------|------------------------|--------------------------------------|------------------------|
| 0.388 | 1.32 | 3.198 | 0.799 | 2.873 | 0.073 | 0.435 |

Effective Properties

| I _x (in ⁴) | S _x (in ³) | M _a (in-k) | V _{ag} (lb) |
|--------------------------------------|--------------------------------------|--------------------------|-------------------------|
| 2.998 | 0.622 | 12.30 | 474 |

Torsional Properties

| J ^{x1000} (in ⁴) | C _w (in ⁶) | X _o (in) | m (in) | R _o (in) | β |
|--|--------------------------------------|------------------------|-----------|------------------------|-------|
| 0.155 | 0.957 | -0.696 | 0.460 | 2.987 | 0.946 |



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 |
| 800S137-33 | 12 | 43' 9" | 34' 8" | 30' 4" | 24' 1" | 21' 0" | 17' 8" | 21' 10" | 19' 1" | 16' 1" | 20' 3" | 17' 8" | 14' 11" |
| 800S137-33 | 16 | 39' 9" | 31' 6" | 27' 6" | 21' 10" | 19' 1" | 16' 1" | 19' 10" | 17' 4" | 14' 7" | 18' 5" | 16' 1" | 13' 7" |
| 800S137-33 | 24 | 34' 1" f | 27' 6" | 24' 1" | 19' 1" | 16' 8" | 14' 1" | 17' 0" f | 15' 2" | 12' 9" | 15' 3" f | 14' 1" | 11' 10" |

| 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 |
| 800S137-33 | 12 | 19' 1" | 16' 8" | 14' 1" | 18' 1" | 15' 10" | 13' 4" | 17' 0" f | 15' 2" | 12' 9" | 15' 3" f | 14' 1" | 11' 10" |
| 800S137-33 | 16 | 17' 0" f | 15' 2" | 12' 9" | 15' 9" f | 14' 4" | 12' 1" | 14' 9" f | 13' 9" | 11' 7" | 13' 2" f | 12' 9" | 10' 9" |
| 800S137-33 | 24 | 13' 11" f | 13' 3" | 11' 2" | 12' 10" f | 12' 7" | 10' 7" | 12' 0" f | 12' 0" | 10' 1" | 10' 9" f | 10' 9" f | 9' 5" |

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.