

# Product Submittal Sheet



\*Picture is reference only; it may differ from the actual product

Product Category: Structural Stud  
 Product Name: C- Shaped Framing Member  
 Member: 800S162-43 S  
 KSI: 33  
 Coating: G60

## Geometric Category:

| Web Depth | Flange Width | Stiffening Lip | Design Thickness | Yield Stress, Fy | Weight     | Minimum Thickness |
|-----------|--------------|----------------|------------------|------------------|------------|-------------------|
| 8 in      | 1 5/8 in     | 1/2 in         | 0.0451 in        | 33 KSI           | 1.83 LB/FT | 0.0428 in         |

## Gross Section Properties of Full Section, Strong Axis

| Moment of Inertia (Ix) | Section Modulus (Sx) | Section Modulus (Rx) | Gross Moment of Inertia (Iy) | Gross Radius of Gyration (Ry) |
|------------------------|----------------------|----------------------|------------------------------|-------------------------------|
| 4.635 in <sup>4</sup>  | 1.59 in <sup>3</sup> | 2.938 in             | 0.160 in <sup>4</sup>        | 0.546 in <sup>4</sup>         |

## Effective Section Properties, Strong Axis

| Moment of Inertia for Deflection (Ixe) | Section Modulus (Sxe) | Allowable Bending Moment (Ma) | Allowable Bending Moment (Mad) | Allowable Shear Force in Web (Unpunched) (Vag) | Allowable Shear Force in Web (Punched) (Vanet) |
|--|-----------------------|-------------------------------|--------------------------------|--|--|
| 4.500 in <sup>4</sup>                  | 1.019 in <sup>3</sup> | 20.19 in-k                    | 17.62 in-k                     | 1051 LB  | 1051 LB  |

## ASTM STANDARDS AND COMPLIANCE CODES

AISI S 100-16 y AISI S240-15  
 Meets or exceeds ASTM C955 & C754  
 ASTM C653, A 924/A924 & A 1003  
 STUD Complies with the SFIA Code Compliance Certification Program  
 SDS & Product Certification Information Available at [www.panelrey.com](http://www.panelrey.com)  
 2018 IBC

## Notes

- 1.- Calculated properties are based on AISI S100-16, "North American Specification for Design of Cold-Formed Structural Members".
- 2.- The centerline bend radius is based upon inside standard corner radii.
- 3.- Effective properties incorporate the strength increase from the cold work of forming as applicable per AISI A3.3.2.
- 4.- Tabulated gross properties, including torsional properties are based upon full-unreduced cross section of the studs, away from punchouts.
- 5.- For deflection calculations, use the effective moment of inertia.
- 6.- Allowable moment includes cold-work of forming.
- 7.- For the steels that have both 33 and 50 ksi listing, if the design is based upon 50 ksi, the 50 ksi steel needs to be specified. (Example: 3625S137 16-50 (50 ksi)).
- 8.- Web depth for tracks sections is equal to the nominal stud width plus 2 times the design thickness plus the bend radius. Hems on nonstructural track sections are ignored.

## LEED CREDITS

Leed v4 MR. Raw Material Supply.

Leed v4 MR. Construction and Demolition Waste Management.

Leed v3 MR2. Construction Waste Management. The steel used is 100 % recyclable.

Leed v3MR4. Recycled Content. The steel used in the profiles has a minimum of

Total recycled content: 49%

Post-Consumer recycled content: 37%

Prec-Consumer recycled content: 12%

| PROJECT INFORMATION | CONTRACTOR INFORMATION | ARCHITECT INFORMATION |
|---------------------|------------------------|-----------------------|
| Name:               | Name:                  | Name:                 |
| Address:            | Contact:               | Contact:              |
|                     | Phone:                 | Phone:                |
|                     | Fax:                   | Fax:                  |