

# 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: 250S162S-54 S  
 KSI: 50  
 Coating: G60

## Geometric Category:

Web Depth	Flange Width	Stiffening Lip	Design Thickness	Yield Stress, Fy	Weight	Minimum Thickness
2 1/2 in	1 5/8 in	1/2 in	0.0566 in	50 KSI	1.22 LB/FT	0.0538 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)
0.370 in <sup>4</sup>	0.296 in <sup>3</sup>	1.016 in	0.135 in <sup>4</sup>	0.613 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)
0.370 in <sup>4</sup>	0.284 in <sup>3</sup>	9.42 in-k	8.32 in-k	2353 LB	565 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%

Pre-Consumer recycled content: 12%

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