

Product Name: 1-5/8" SmartStud 33mil

Description: 162SS125-33

Physical Properties

Web Depth (in)	1.625	Yield Stress Fy (KSI)	33
Flange Width (in)	1.250	Mils	33
Return Lip (in)	0.250	Design Thickness (in)	0.0346
Standard Coating	G40	Minimum Thickness (in)	0.0329
Weight (lb/ft)	0.490	Gauge	20

Section Properties

Cross Sectional Area (A)	0.145 in ²
Moment of Inertia (Ix)	0.067 in ⁴
Radius of Gyration (Rx)	0.679 in
Gross Moment of Inertia (Iy)	0.028 in ⁴
Gross Radius of Gyration (Ry)	0.440 in

Effective Section Properties

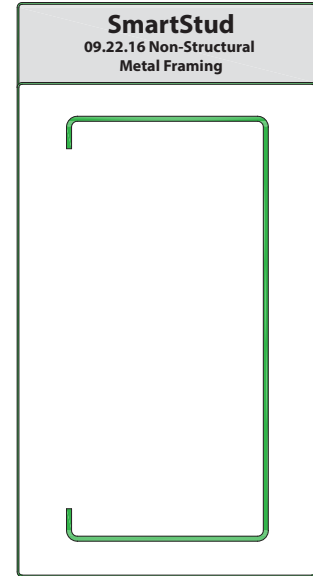
Moment of Inertia for Deflection (Ixe)	0.066 in ⁴
Section Modulus (Sxe)	0.069 in ³
Allowable Bending Moment (Ma)	1.370 in-k

Torsional Properties

St. Venant Torsion Constant (Jx1000)	0.0580 in ⁴
Warping Constant (Cw)	0.0160 in ⁶
Distance from Shear Center to Neutral Axis (Xo)	-1.010 in
Radii of Gyration (Ro)	1.297 in
Torsional Flexural Constant (Beta)	0.391
Unbraced Length (Lu)	29.2 in

Limiting Wall Heights - Composite

Spacing <small>1-5/8" SmartStud33</small>	5 psf			7.5 psf			10 psf		
	L/120	L/240	L/360	L/120	L/240	L/360	L/120	L/240	L/360
12"	13'-0"	10'-4"	9'-0"	11'-4"	9'-0"	N/A	10'-4"	N/A	N/A
16"	12'-1"	9'-8"	8'-5"	10'-7"	8'-5"	N/A	9'-8"	N/A	N/A
24"	11'-0"	8'-9"	7'-8"	9'-7"	7'-8"	N/A	8'-9"	N/A	N/A



MANUFACTURING Codes & Standards

- NASPEC AISI S100-07 IBC 2009 2012 Compliant
- Coated in accordance to ASTM A1003 & A653
- Meets or exceeds ASTM C645 & C745 & AISI S220
- Multiple UL Design Listings including U419
- 3rd Party Code Evaluation Report ICC-ESR #3943
- US Patent No. D618,365S

GREEN Benefits & LEED Data:

- LEED Credit MR 2 - Construction Waste Mgmt - 1-2 Points
- LEED Credit MR 4 - Recycled Credit - 1-2 Points
- LEED Credit MR 5 - Regional Materials - 1-2 Points
- CRACO products are 100% recyclable
- Contact Technical Services for more information