

Product Name: 6" SmartStud 33mil

Description: 600SS125-33

Physical Properties

Web Depth (in)	6.000	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)	1.010	Gauge	20

Section Properties

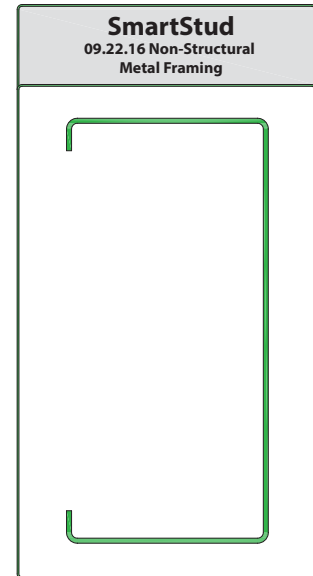
Cross Sectional Area (A)	0.297 in ²
Moment of Inertia (Ix)	1.409 in ⁴
Radius of Gyration (Rx)	2.179 in
Gross Moment of Inertia (Iy)	0.042 in ⁴
Gross Radius of Gyration (Ry)	0.374 in

Effective Section Properties

Moment of Inertia for Deflection (Ixe)	1.361 in ⁴
Section Modulus (Sxe)	0.369 in ³
Allowable Bending Moment (Ma)	7.300 in-k

Torsional Properties

St. Venant Torsion Constant (Jx1000)	0.1180 in ⁴
Warping Constant (Cw)	0.3000 in ⁶
Distance from Shear Center to Neutral Axis (Xo)	-0.608 in
Radii of Gyration (Ro)	2.293 in
Torsional Flexural Constant (Beta)	0.930
Unbraced Length (Lu)	27.6 in



Limiting Wall Heights - Composite

Spacing 6" SmartStud33	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"	33'-9"	26'-9"	23'-5"	29'-6"	23'-5"	20'-6"	26'-9"	21'-3"	18'-7"
16"	30'-10"	24'-6"	21'-4"	27'-0"	21'-4"	18'-9"	24'-6"	19'-5"	17'-0"
24"	27'-2"	21'-7"	18'-10"	23'-10"	18'-10"	16'-7"	19'-1"	17'-2"	15'-0"

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