

Product Name: 2-1/2" SmartStud 30mil

Description: 250SS125-30

Physical Properties

Web Depth (in)	2.500	Yield Stress Fy (KSI)	33
Flange Width (in)	1.250	Mils	30
Return Lip (in)	0.250	Design Thickness (in)	0.0312
Standard Coating	G40	Minimum Thickness (in)	0.0296
Weight (lb/ft)	0.540	Gauge	20

Section Properties

Cross Sectional Area (A)	0.159 in ²
Moment of Inertia (Ix)	0.161 in ⁴
Radius of Gyration (Rx)	1.008 in
Gross Moment of Inertia (Iy)	0.030 in ⁴
Gross Radius of Gyration (Ry)	0.433 in

Effective Section Properties

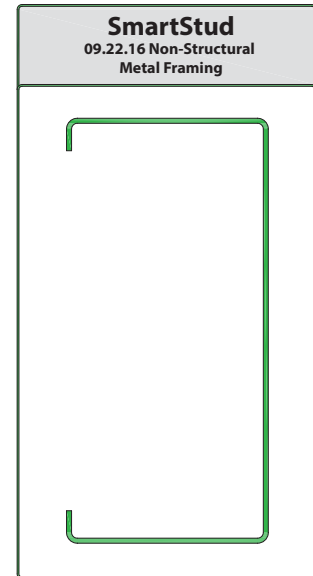
Moment of Inertia for Deflection (Ixe)	0.159 in ⁴
Section Modulus (Sxe)	0.110 in ³
Allowable Bending Moment (Ma)	2.170 in-k

Torsional Properties

St. Venant Torsion Constant (Jx1000)	0.0520 in ⁴
Warping Constant (Cw)	0.0370 in ⁶
Distance from Shear Center to Neutral Axis (Xo)	-0.889 in
Radii of Gyration (Ro)	1.412 in
Torsional Flexural Constant (Beta)	0.603
Unbraced Length (Lu)	28.9 in

Limiting Wall Heights - Composite

Spacing <small>2-1/2" SmartStud30</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"	18'-5"	15'-10"	14'-1"	16'-1"	13'-10"	12'-4"	14'-7"	12'-7"	11'-2"
16"	16'-9"	14'-5"	12'-10"	14'-7"	12'-7"	11'-2"	13'-3"	11'-5"	10'-2"
24"	14'-7"	12'-7"	11'-2"	12'-9"	11'-0"	9'-9"	11'-7"	10'-0"	8'-8"



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