

Product Name: 1-5/8" SmartStud25

Description: 162SS125-15

Physical Properties

Web Depth (in)	1.625	Yield Stress Fy (KSI)	50
Flange Width (in)	1.250	Mils	15
Return Lip (in)	0.250	Design Thickness (in)	0.0157
Standard Coating	G40	Minimum Thickness (in)	0.0149
Weight (lb/ft)	0.246	Gauge EQ	25

Section Properties

Cross Sectional Area (A)	0.072 in ²
Moment of Inertia (Ix)	0.034 in ⁴
Radius of Gyration (Rx)	0.686 in
Gross Moment of Inertia (Iy)	0.015 in ⁴
Gross Radius of Gyration (Ry)	0.451 in

Effective Section Properties

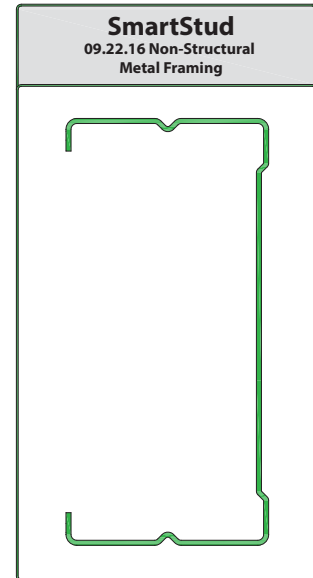
Moment of Inertia for Deflection (Ixe)	0.032 in ⁴
Section Modulus (Sxe)	0.038 in ³
Allowable Bending Moment (Ma)	0.943 in-k

Torsional Properties

St. Venant Torsion Constant (Jx1000)	0.0057 in ⁴
Warping Constant (Cw)	0.0093 in ⁶
Distance from Shear Center to Neutral Axis (Xo)	-1.087 in
Radius of Gyration (Ro)	1.367 in
Torsional Flexural Constant (Beta)	0.367
Unbraced Length (Lu)	24.2 in

Limiting Wall Heights - Composite

Spacing <small>1-5/8" SmartStud25</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'-3"	10'-6"	9'-0"	11'-7"	9'-0"	N/A	10'-6"	8'-1"	N/A
16"	12'-1"	9'-5"	8'-1"	10'-6"	8'-1"	N/A	9'-5"	N/A	N/A
24"	10'-6"	8'-1"	N/A	9'-0"	N/A	N/A	8'-0"	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