

Product Name: 3-5/8" SmartStud 30mil
Description: 362SS125-30

Physical Properties

Web Depth (in)	3.625	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)	0.660	Gauge	20

Section Properties

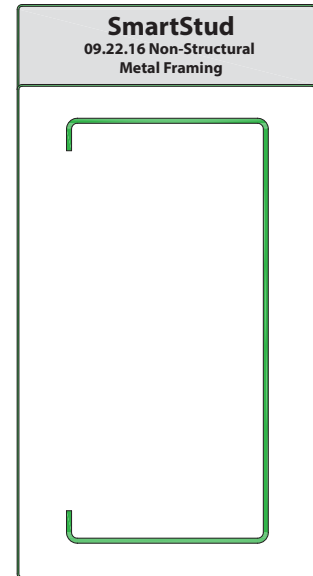
Cross Sectional Area (A)	0.194 in ²
Moment of Inertia (Ix)	0.381 in ⁴
Radius of Gyration (Rx)	1.402 in
Gross Moment of Inertia (Iy)	0.003 in ⁴
Gross Radius of Gyration (Ry)	0.415 in

Effective Section Properties

Moment of Inertia for Deflection (Ixe)	0.376 in ⁴
Section Modulus (Sxe)	0.156 in ³
Allowable Bending Moment (Ma)	3.080 in-k

Torsional Properties

St. Venant Torsion Constant (Jx1000)	0.0630 in ⁴
Warping Constant (Cw)	0.0860 in ⁶
Distance from Shear Center to Neutral Axis (Xo)	-0.773 in
Radii of Gyration (Ro)	1.654 in
Torsional Flexural Constant (Beta)	0.782
Unbraced Length (Lu)	28.6 in



Limiting Wall Heights - Composite

Spacing <small>3-5/8" 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"	22'-10"	18'-3"	16'-4"	19'-11"	16'-9"	14'-8"	19'-2"	15'-3"	13'-4"
16"	20'-8"	16'-7"	14'-10"	19'-2"	15'-3"	13'-4"	17'-5"	13'-10"	11'-11"
24"	18'-1"	14'-6"	12'-11"	16'-8"	13'-4"	11'-4"	14'-5"	11'-11"	10'-1"

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