

Product Name: 3-5/8" SmartStud20

Description: 362SS125-19

Physical Properties

Web Depth (in)	3.625	Yield Stress Fy (KSI)	50
Flange Width (in)	1.250	Mils	19
Return Lip (in)	0.250	Design Thickness (in)	0.0200
Standard Coating	G40	Minimum Thickness (in)	0.0190
Weight (lb/ft)	0.448	Gauge EQ	20

Section Properties

Cross Sectional Area (A)	0.132 in ²
Moment of Inertia (Ix)	0.266 in ⁴
Radius of Gyration (Rx)	1.422 in
Gross Moment of Inertia (Iy)	0.024 in ⁴
Gross Radius of Gyration (Ry)	0.423 in

Effective Section Properties

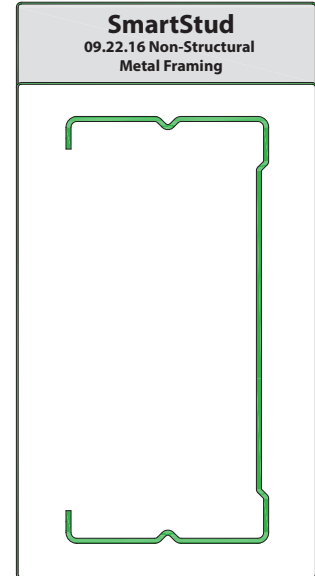
Moment of Inertia for Deflection (Ixe)	0.247 in ⁴
Section Modulus (Sxe)	0.117 in ³
Allowable Bending Moment (Ma)	2.932 in-k

Torsional Properties

St. Venant Torsion Constant (Jx1000)	0.0171 in ⁴
Warping Constant (Cw)	0.0641 in ⁶
Distance from Shear Center to Neutral Axis (Xo)	-0.083 in
Radii of Gyration (Ro)	1.698 in
Torsional Flexural Constant (Beta)	0.761
Unbraced Length (Lu)	23.5 in

Limiting Wall Heights - Composite

Spacing <small>3-5/8" SmartStud20</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"	21'-10"	17'-4"	15'-2"	18'-11"	15'-2"	13'-3"	16'-5"	13'-9"	12'-0"
16"	19'-10"	15'-9"	13'-9"	16'-5"f	13'-9"	12'-0"	14'-2"f	12'-6"	10'-11"
24"	16'-5"f	13'-9"	12'-0"	13'-4"f	12'-0"	10'-6"	11'-7"f	10'-11"	9'-5"



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