SmartSpec Submittal

Sales Support: 803-684-5544
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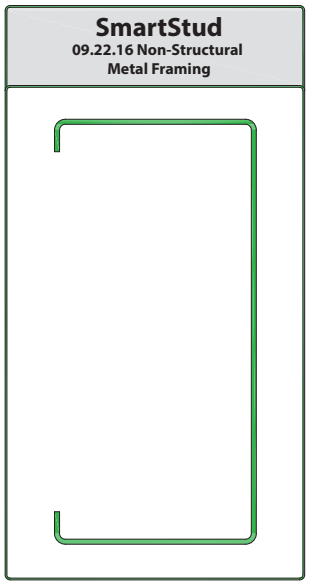
Product Name: **3-5/8" SmartStud 30mil**
Description: **362SS125-30**



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 3-5/8"SmartStud30	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'-8"	17'-1"	14'-10"	18'-11"	14'-10"	12'-10"	17'-1"	13'-5"	11'-8"
16"	19'-11"	15'-8"	13'-7"	17'-5"	13'-7"	11'-9"	15'-8"	12'-3"	10'-7"
24"	17'-9"	14'-0"	12'-0"	15'-6"	12'-0"	10'-5"	14'-0"	10'-10"	9'-4"

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

