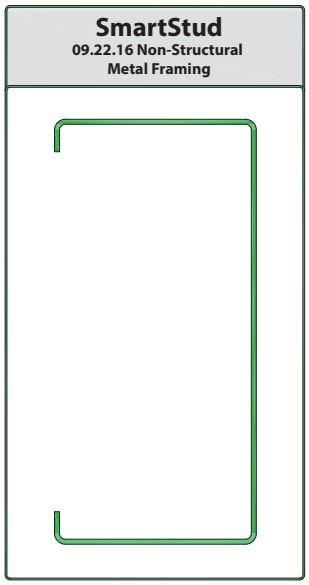
SmartSpec Submittal

Sales Support: 803-684-5544
Technical Support: 803-389-4425
Email Support: smartframe@cracometals.com

Product Name: **4" SmartStud 30mil**
Description: **400SS125-30**



Physical Properties

Web Depth (in)	4.000	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)	0.700	Gauge	20

Section Properties

Cross Sectional Area (A)	0.206	in^2
Moment of Inertia (Ix)	0.481	in^4
Radius of Gyration (Rx)	1.529	in
Gross Moment of Inertia (Iy)	0.034	in^4
Gross Radius of Gyration (Ry)	0.408	in

Effective Section Properties

Moment of Inertia for Deflection (Ixe)	0.474	in^4
Section Modulus (Sxe)	0.174	in^3
Allowable Bending Moment (Ma)	3.440	in-k

Torsional Properties

St. Venant Torsion Constant (Jx1000)	0.0670	in^4
Warping Constant (Cw)	0.1070	in^6
Distance from Shear Center to Neutral Axis (Xo)	-0.741	in
Radii of Gyration (Ro)	1.748	in
Torsional Flexural Constant (Beta)	0.820	
Unbraced Length (Lu)	28.5	in

Limiting Wall Heights - Composite

Spacing 4" 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"	24'-0"	19'-0"	16'-6"	20'-11"	16'-6"	14'-4"	19'-0"	14'-11"	12'-11"
16"	22'-0"	17'-6"	15'-2"	19'-3"	15'-2"	13'-1"	17'-6"	13'-8"	11'-10"
24"	19'-8"	15'-7"	13'-5"	17'-1"	13'-5"	11'-7"	14'-9"	12'-1"	10'-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

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