

Product Name: 3-5/8" SmartStud 23mil
Description: 362SS125-23

Physical Properties

| | | | |
|-------------------|-------|------------------------|--------|
| Web Depth (in) | 3.625 | Yield Stress Fy (KSI) | 50 |
| Flange Width (in) | 1.250 | Mils | 23 |
| Return Lip (in) | 0.250 | Design Thickness (in) | 0.0245 |
| Standard Coating | G40 | Minimum Thickness (in) | 0.0233 |
| Weight (lb/ft) | 0.548 | Gauge EQ | 20 |

Section Properties

| | |
|-------------------------------|-----------------------|
| Cross Sectional Area (A) | 0.161 in ² |
| Moment of Inertia (Ix) | 0.324 in ⁴ |
| Radius of Gyration (Rx) | 1.419 in |
| Gross Moment of Inertia (Iy) | 0.029 in ⁴ |
| Gross Radius of Gyration (Ry) | 0.423 in |

Effective Section Properties

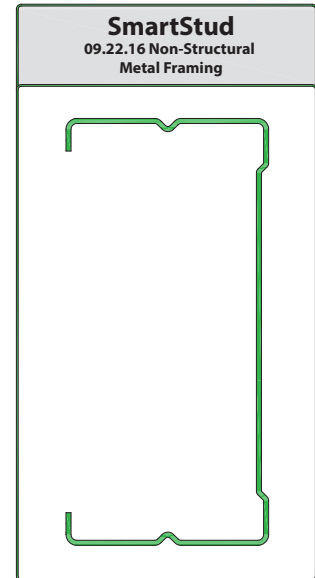
| | |
|--|-----------------------|
| Moment of Inertia for Deflection (Ixe) | 0.313 in ⁴ |
| Section Modulus (Sxe) | 0.157 in ³ |
| Allowable Bending Moment (Ma) | 3.922 in-k |

Torsional Properties

| | |
|---|------------------------|
| St. Venant Torsion Constant (Jx1000) | 0.0315 in ⁴ |
| Warping Constant (Cw) | 0.0774 in ⁶ |
| Distance from Shear Center to Neutral Axis (Xo) | -0.083 in |
| Radii of Gyration (Ro) | 1.695 in |
| Torsional Flexural Constant (Beta) | 0.762 |
| Unbraced Length (Lu) | 23.5 in |

Limiting Wall Heights - Composite

| Spacing <small>3-5/8" SmartStud23mil</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" | 23'-5" | 18'-7" | 16'-3" | 20'-05" | 16'-3" | 14'-2" | 18'-7" | 14'-9" | 12'-11" |
| 16" | 21'-3" | 16'-11" | 14'-9" | 18'-7" | 14'-9" | 12'-11" | 16'-9"f | 13'-5" | 11'-8" |
| 24" | 18'-7" | 14'-9" | 12'-11" | 15'-9"f | 12'-11" | 11'-3" | 13'-8"f | 11'-8" | 10'-2" |



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