

SuperMAXX Joist [SMX]

Product Name: 1400SMX300-68

Material and Shape Property Notes:

Design Thickness: 0.0713"

Minimum Thickness: 0.0677"

Mil Thickness: 68 mils

Gauge 14

Flange Width 3"

Web Depth 14.0"

Stiffening Lip Lengths: 1-1/8" (first lip) 1/2" (2nd lip)

Corrosion Protection: G60 (standard) G90 (available)

Yield Strength: 50 kips per square inch (KSI) minimum

Product Application & Attributes:

Large stiffened punchouts in joist members provide industry-best accessibility along the length of the web, accommodating all trade installations. In addition to the large reinforced punchouts, SuperMAXX Joists have flanges with double returns for superior strength and stiffness that dramatically increase spans and capacities.

Section Properties:

Gross Section Properties:

Cross Section Area (**A**): 1.589 in²

Member Weight 5.41 pounds per foot

Moment of Inertia, strong axis (**I_x**) 43.330 in⁴

Radius of Gyration, strong axis (**r_x**) 5.222 in.

Moment of Inertia, weak axis (**I_y**) 1.9240 in⁴

Radius of Gyration, weak axis (**r_y**) 1.1010 in.

Effective Section Properties:

Effective Moment of Inertia (**I_{x eff}**) 40.150 in⁴

Effective Section Modulus (**S_{x eff}**) 5.736 in³

Allowable Moment (**M_a**) 171.74 inch-kips

Torsional Properties:

St. Venant Torsional Constant (**J x 1000**) 3.37 in⁴

Warping Constant (**C_w**) 78.81 in⁶

Polar Radius of Gyration (**r_o**) 5.71 in

Distance of centroid from shear center (**X_o**) 2.04 in

Beta 0.8731

Codes & Standards:

Super Stud products comply with the applicable provisions of the following:

International Building Code (IBC) 2006 - 2018

Sheet Steel: ASTM A1003 and ASTM A653

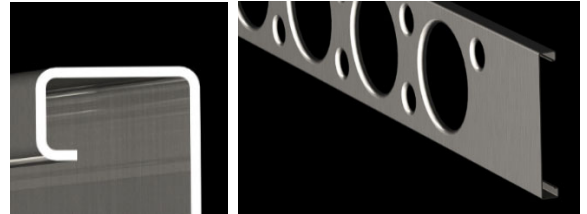
Galvanized Coating: ASTM A653

Members & Tolerances: ASTM C955 and AISI S240

Meets ASTM C1007 when installed properly in structure

3rd Party Certification: Manufacturing verified & inspected by Home Innovation Research Labs, Inc.

SUPERMAXX JOIST



SuperMAXX Joists feature a double flange return

Super Joist & SuperMAXX Hole Pattern: 8" – 18" Web Depth

Joist Member Hole Sizing & Spacing

A	B	C	D	E
Section Web Depth (in.)	Large Hole Diameter (in.)	Large Hole Spacing (in. O.C.)	Small Hole Diameter (in.)	Min. Distance from end to center of First Large Hole (in.)
12	8.25	12	2.25	33
14	8.25	12	2.25	33

