Product Submittal Sheet

Engineering Services: 732-662-6217
Technical Support: 732-662-6220
Sales: 732-662-6200

Super Stud Building Products, Inc.
2960 Woodbridge Ave Edison, NJ 08837
buysuperstud.com

SuperMAXX Joist [SMX]

Product Name: 1400SMX350-54

Material and Shape Property Notes:

Design Thickness: 0.0566”
Minimum Thickness: 0.0538”
Mil Thickness: ..... 54 mils
Gauge 16
Flange Width..... 3.5”
Web Depth..... 14.0”
Stiffening Lip Lengths: ..... 1-1/8” (first lip) ½” (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**): ..... 1.345 in^2
Member Weight ..... 4.58 pounds per foot
Moment of Inertia, strong axis (I_x) ..... 38.070 in^4
Radius of Gyration, strong axis (r_x) ..... 5.320 in.
Moment of Inertia, weak axis (I_y) ..... 2.2820 in^4
Radius of Gyration, weak axis (r_y) ..... 1.3020 in.

Effective Section Properties:
Effective Moment of Inertia ($I_{x\ eff}$) ..... 35.950 in^4
Effective Section Modulus ($S_{x\ eff}$) ..... 5.135 in^3
Allowable Moment (M_a) ..... 153.74 inch-kips

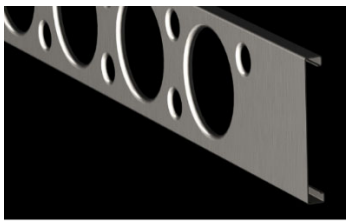
Torsional Properties:
St. Venant Torsional Constant (**J x 1000**) ..... 3.77 in^4
Warping Constant (**Cw**) ..... 92.43 in^6
Polar Radius of Gyration (**ro**) ..... 6.01 in
Distance of centroid from shear center (**Xo**) ..... 2.46 in

Beta 0.8318

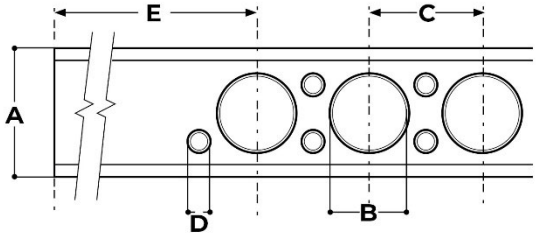
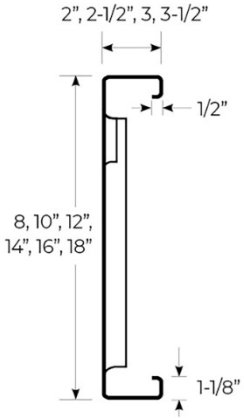
Codes & Standards:
Super Stud products comply with the applicable provisions of the following:
International Building Code (IBC) 2006 - 2018
Sheet Steel: ASTM A1003 and ASTM A653
Galvanized Coating: ASTM A653
Members & Tolerances: ASTM C955 and AISI S240
Meets ASTM C1007 when installed properly in structure
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