

Marino\WARE® Product Submittal Data

PRODUCT NAME: 1200JR250-54

05.42.00 Cold-Formed Metal Joist Framing

MARINO\WARE PART # 120RE16

PROPERTIES:

A. Web (in)	12"	Yield Strength Fy (KSI)	50
B. Flange (in)	2.5"	Tensile Strength Fu (KSI)	65
C. Lip (in)	0.75"	Design Thickness (in)	0.0566
Mils	54	Minimum Thickness (in)	0.0538
Available Finish	G60, G90	Gauge	16

SECTION PROPERTIES

GROSS SECTION PROPERTIES

Weight of Member: (lb/ft)	2.69
Cross Sectional Area: A (in ²)	0.566
Moment of Inertia: Ix (in ⁴)	17.9
Section Modulus: Sx (in ³)	2.98
Radius of Gyration: Rx (in)	5.61
Gross Moment of Inertia: Iy (in ⁴)	0.465
Gross Radius of Gyration: Ry (in)	0.906

EFFECTIVE SECTION PROPERTIES

Moment of Inertia-Deflection: Ixe (in ⁴)	17.7
Section Modulus: Sxe (in ³)	2.61
Allowable Bending Moment: Ma (in-k)	73.6
Allowable Shear Force: Va (k)	1.08

TORSIONAL SECTION PROPERTIES

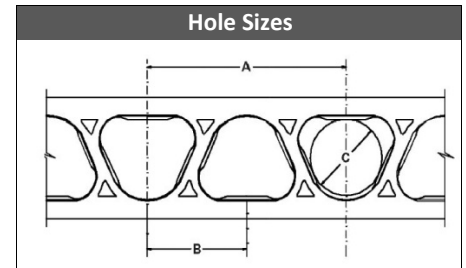
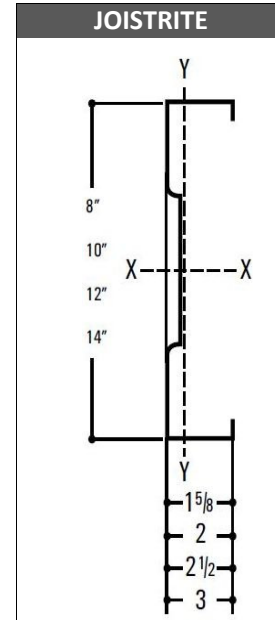
St. Venant Torsional Constant: Jx1000 (in ⁴)	0.605
Torsional Warping Constant: Cw (in ⁶)	17.7
Radius of Gyration on the Centroid Principal axis: Ro (in)	6.07

CODES & STANDARDS

- AISI S100, S240 & ICC ES ESR-1741
- ASTM A 1003, A 653, & C 955
- IBC 2012, 2015, 2018, 2021, 2024
- FBC 2023 & 2022 NYC Building Code
- Tested to ASTM E 119, & E 492/E 989
- UL Fire Test Data: G560, G563, G564, G577, G588, G594, G597, H503, L567, L580, P546
- Intertek (Warnock Hersey) Fire Data: WHI 3099463, WHI 3101528

GREEN INFO

- LEED credits available
- Contact Technical Services for more information



Section	A (in)	B (in)	C
8"	14	7	5.5
10"	28	14	7.2
12"	35	17.5	9.2
14"	35	17.5	9.2