

Marino\WARE® Product Submittal Data

PRODUCT NAME: 1000JR250-97

05.42.00 Cold-Formed Metal Joist Framing

MARINO\WARE PART # 100RE12

PROPERTIES:

A. Web (in)	10"	Yield Strength Fy (KSI)	50
B. Flange (in)	2.5"	Tensile Strength Fu (KSI)	65
C. Lip (in)	0.75"	Design Thickness (in)	0.1017
Mils	97	Minimum Thickness (in)	0.0966
Available Finish	G60, G90	Gauge	12

SECTION PROPERTIES

GROSS SECTION PROPERTIES

Weight of Member: (lb/ft)	4.35
Cross Sectional Area: A (in ²)	0.958
Moment of Inertia: Ix (in ⁴)	20.4
Section Modulus: Sx (in ³)	4.07
Radius of Gyration: Rx (in)	4.61
Gross Moment of Inertia: Iy (in ⁴)	0.767
Gross Radius of Gyration: Ry (in)	0.895

EFFECTIVE SECTION PROPERTIES

Moment of Inertia-Deflection: Ixe (in ⁴)	20.4
Section Modulus: Sxe (in ³)	4.03
Allowable Bending Moment: Ma (in-k)	114
Allowable Shear Force: Va (k)	4.13

TORSIONAL SECTION PROPERTIES

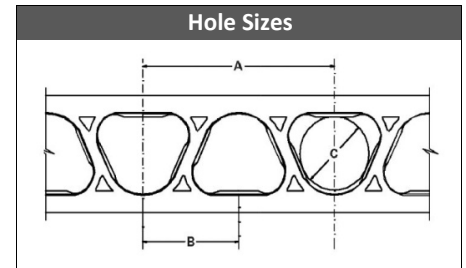
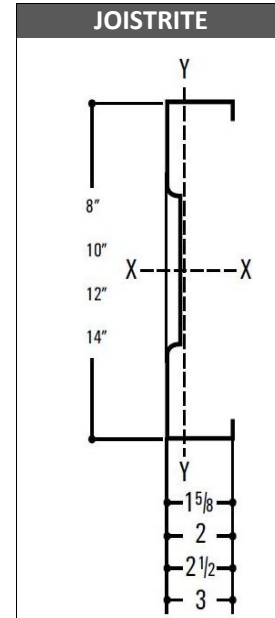
St. Venant Torsional Constant: Jx1000 (in ⁴)	3.30
Torsional Warping Constant: Cw (in ⁶)	20.7
Radius of Gyration on the Centroid Principal axis: Ro (in)	5.14

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