

Marino\WARE® Product Submittal Data

PRODUCT NAME: 800JR250-43

05.42.00 Cold-Formed Metal Joist Framing

MARINO\WARE PART # 800RE18

PROPERTIES:

A. Web (in)	8"	Yield Strength Fy (KSI)	33
B. Flange (in)	2.5"	Tensile Strength Fu (KSI)	45
C. Lip (in)	0.75"	Design Thickness (in)	0.0451
Mils	43	Minimum Thickness (in)	0.0428
Available Finish	G60, G90	Gauge	18

SECTION PROPERTIES

GROSS SECTION PROPERTIES

Weight of Member: (lb/ft)	1.73
Cross Sectional Area: A (in ²)	0.431
Moment of Inertia: Ix (in ⁴)	5.82
Section Modulus: Sx (in ³)	1.46
Radius of Gyration: Rx (in)	3.68
Gross Moment of Inertia: Iy (in ⁴)	0.379
Gross Radius of Gyration: Ry (in)	0.938

EFFECTIVE SECTION PROPERTIES

Moment of Inertia-Deflection: Ixe (in ⁴)	5.76
Section Modulus: Sxe (in ³)	1.32
Allowable Bending Moment: Ma (in-k)	24.5
Allowable Shear Force: Va (k)	0.620

TORSIONAL SECTION PROPERTIES

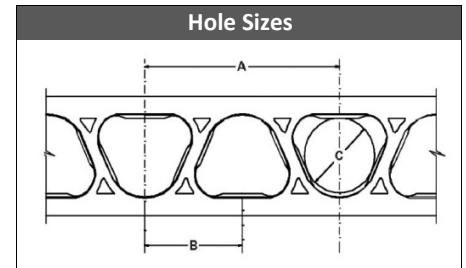
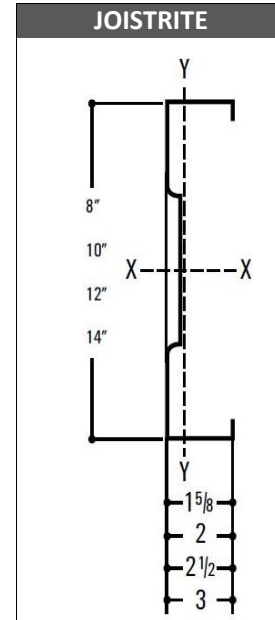
St. Venant Torsional Constant: Jx1000 (in ⁴)	0.292
Torsional Warping Constant: Cw (in ⁶)	6.36
Radius of Gyration on the Centroid Principal axis: Ro (in)	4.39

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

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