

Marino\WARE® Product Submittal Data

PRODUCT NAME: 1200JR200-54

05.42.00 Cold-Formed Metal Joist Framing

MARINO\WARE PART # 120RJ16

PROPERTIES:

| | | | |
|-------------------------|----------|----------------------------------|--------|
| A. Web (in) | 12" | Yield Strength Fy (KSI) | 50 |
| B. Flange (in) | 2" | 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) | 2.50 |
| Cross Sectional Area: A (in ²) | 0.510 |
| Moment of Inertia: Ix (in ⁴) | 15.8 |
| Section Modulus: Sx (in ³) | 2.64 |
| Radius of Gyration: Rx (in) | 5.57 |
| Gross Moment of Inertia: Iy (in ⁴) | 0.270 |
| Gross Radius of Gyration: Ry (in) | 0.728 |

EFFECTIVE SECTION PROPERTIES

| | |
|---|------|
| Moment of Inertia-Deflection: Ixe (in ⁴) | 15.8 |
| Section Modulus: Sxe (in ³) | 2.56 |
| Allowable Bending Moment: Ma (in-k) | 72.2 |
| Allowable Shear Force: Va (k) | 1.08 |

TORSIONAL SECTION PROPERTIES

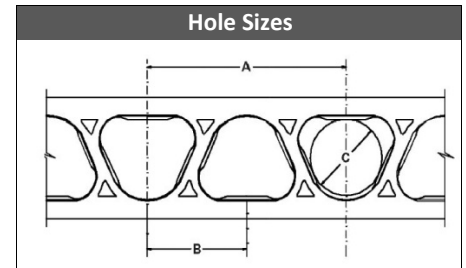
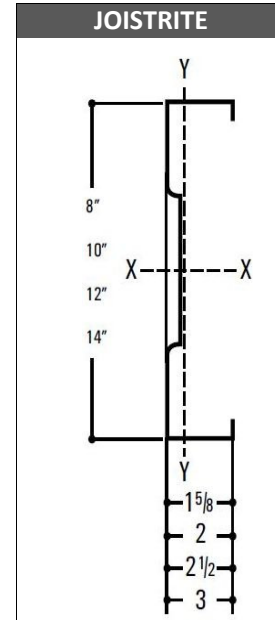
| | |
|---|-------|
| St. Venant Torsional Constant: Jx1000 (in ⁴) | 0.544 |
| Torsional Warping Constant: Cw (in ⁶) | 10.6 |
| Radius of Gyration on the Centroid Principal axis: Ro (in) | 5.87 |

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 |



For more information, please contact Marino\WARE Technical Services at 866-545-1545.

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