

Marino\WARE® Product Submittal Data

PRODUCT NAME: Viper20 (600VT200-18)

MARINO\WARE PART # 600VT218

PROPERTIES:

| | | | |
|--------------------|-----|--------------------------------|--------|
| A. Web (in) | 6 | Yield Strength Fy (KSI) | 70 |
| B. Leg (in) | 2 | Design Thickness (in) | 0.0190 |
| Mils | 18 | Minimum Thickness (in) | 0.0181 |
| Finish | G60 | Gauge EQ | 20 DW |

SECTION PROPERTIES

GROSS SECTION PROPERTIES

| | |
|--|--------|
| Weight of Member: (lb/ft) | 0.6402 |
| Cross Sectional Area: A (in²) | 0.1883 |
| Moment of Inertia: Ix (in⁴) | 0.9831 |
| Section Modulus about the X-axis: Sx (in³) | 0.3294 |
| Radius of Gyration: Rx (in) | 2.2851 |
| Gross Moment of Inertia: Iy (in⁴) | 0.0667 |
| Section Modulus about the Y-axis: Sy (in³) | 0.0425 |
| Gross Radius of Gyration: Ry (in) | 0.5950 |

EFFECTIVE SECTION PROPERTIES

| | |
|---|--------|
| Moment of Inertia-Deflection: Ixd (in⁴) | 0.4206 |
| Section Modulus: Sxe (in³) | 0.0954 |
| Allowable Moment: Ma (in-k) | 3.3380 |

TORSIONAL PROPERTIES

| | |
|---|---------|
| Shear Center to Centroid on Principal X-axis: Xo (in) | -1.0225 |
| St. Venant Torsional Constant: Jx10³ (in⁴) | 0.0227 |
| Torsional Warping Constant: Cw (in⁶) | 0.4392 |
| Radius of Gyration on the Centroid Principal axis: ro (in) | 2.5731 |
| Torsional Flexural Constant: β=1-(xo/ro)² | 0.8421 |

CODES & STANDARDS

- Meets IBC 2009, 2012, 2015 & FBC 2017
- Meets or tested to: ASTM C 645, C 754, E 90, E 119 & AISI S220-11
- Galvanized steel sheet meets ASTM A 1003 & A 653
- Third Party Code Evaluation Report: ICC ES ESR#2620
- Multiple Fire Rated Assemblies

GREEN INFO

- LEED v3 & LEED v4 credits available
- Contact Technical Services for more information



09.22.16 Non-Structural Metal Stud

