

Marino\WARE® Product Submittal Data

PRODUCT NAME: Viper20 (250VT250-18)

MARINO\WARE PART # 212VT2518

PROPERTIES:

A. Web (in)	2-1/2	Yield Strength Fy (KSI)	70
B. Leg (in)	2-1/2	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)	0.4787
Cross Sectional Area: A (in²)	0.1408
Moment of Inertia: Ix (in⁴)	0.1547
Section Modulus about the X-axis: Sx (in³)	0.1253
Radius of Gyration: Rx (in)	1.0483
Gross Moment of Inertia: Iy (in⁴)	0.0950
Section Modulus about the Y-axis: Sy (in³)	0.0576
Gross Radius of Gyration: Ry (in)	0.8214

EFFECTIVE SECTION PROPERTIES

Moment of Inertia-Deflection: Ixd (in⁴)	0.0608
Section Modulus: Sxe (in³)	0.0331
Allowable Moment: Ma (in-k)	1.1588

TORSIONAL PROPERTIES

Shear Center to Centroid on Principal X-axis: Xo (in)	-1.8838
St. Venant Torsional Constant: Jx10³ (in⁴)	0.0169
Torsional Warping Constant: Cw (in⁶)	0.1097
Radius of Gyration on the Centroid Principal axis: ro (in)	2.307
Torsional Flexural Constant: β=1-(xo/ro)²	0.3332

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

