

Marino\WARE® Product Submittal Data

PRODUCT NAME: Viper20 (250VT300-18)

MARINO\WARE PART # 212VT318

PROPERTIES:

A. Web (in)	2-1/2	Yield Strength Fy (KSI)	70
B. Leg (in)	3	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)	0.5433
Cross Sectional Area: A (in²)	0.1598
Moment of Inertia: Ix (in⁴)	0.1790
Section Modulus about the X-axis: Sx (in³)	0.1450
Radius of Gyration: Rx (in)	1.0585
Gross Moment of Inertia: Iy (in⁴)	0.1554
Section Modulus about the Y-axis: Sy (in³)	0.0810
Gross Radius of Gyration: Ry (in)	0.9863

EFFECTIVE SECTION PROPERTIES

Moment of Inertia-Deflection: Ixd (in⁴)	0.0630
Section Modulus: Sxe (in³)	0.0333
Allowable Moment: Ma (in-k)	1.1657

TORSIONAL PROPERTIES

Shear Center to Centroid on Principal X-axis: Xo (in)	-2.3638
St. Venant Torsional Constant: Jx10³ (in⁴)	0.0192
Torsional Warping Constant: Cw (in⁶)	0.1844
Radius of Gyration on the Centroid Principal axis: ro (in)	2.7714
Torsional Flexural Constant: β= 1-(xo/ro)²	0.2725

CODES & STANDARDS

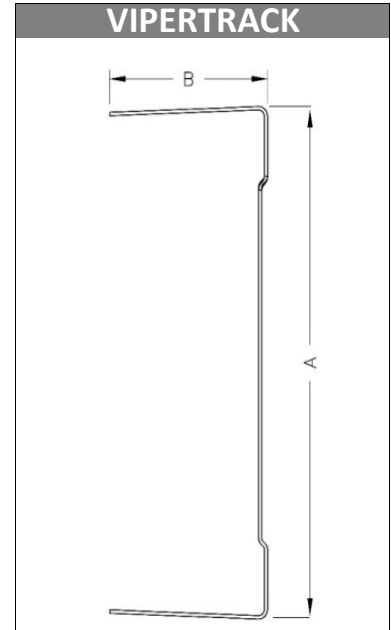
- Meets IBC 2009, 2012, 2015 & FBC 2017
- Meets or tested to: ASTM C 645, C 754, E 90, E 119 & AISI S220-11
- Galvanized steel sheet meets ASTM A 1003 & A 653
- Third Party Code Evaluation Report: ICC ES ESR#2620
- Multiple Fire Rated Assemblies

GREEN INFO

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



09.22.16 Non-Structural Metal Stud



www.marinoware.com

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

This technical information reflects the most current information available and supersedes any and all publications, effective 1/30/2018.

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