

Marino\WARE® Product Submittal Data

PRODUCT NAME: Viper20 (400VT250-18)

MARINO\WARE PART # 400VT2518

PROPERTIES:

A. Web (in)	4	Yield Strength Fy (KSI)	70
B. Leg (in)	2-1/2	Design Thickness (in)	0.0190
Mils	18	Minimum Thickness (in)	0.0181
Finish*	G40EQ	Gauge EQ	20 DW

*Or other ASTM A1003 Table 1 Coating

SECTION PROPERTIES

GROSS SECTION PROPERTIES

Weight of Member: (lb/ft)	0.5756
Cross Sectional Area: A (in²)	0.1693
Moment of Inertia: Ix (in⁴)	0.4880
Section Modulus about the X-axis: Sx (in³)	0.2262
Radius of Gyration: Rx (in)	1.6283
Gross Moment of Inertia: Iy (in⁴)	0.1103
Section Modulus about the Y-axis: Sy (in³)	0.0620
Gross Radius of Gyration: Ry (in)	0.8071

EFFECTIVE SECTION PROPERTIES

Moment of Inertia-Deflection: Ixd (in⁴)	0.1783
Section Modulus: Sxe (in³)	0.0597
Allowable Moment: Ma (in-k)	2.0904

TORSIONAL PROPERTIES

Shear Center to Centroid on Principal X-axis: Xo (in)	-1.6421
St. Venant Torsional Constant: Jx10³ (in⁴)	0.0204
Torsional Warping Constant: Cw (in⁶)	0.3174
Radius of Gyration on the Centroid Principal axis: ro (in)	2.4493
Torsional Flexural Constant: β=1-(xo/ro)²	0.5505

CODES & STANDARDS

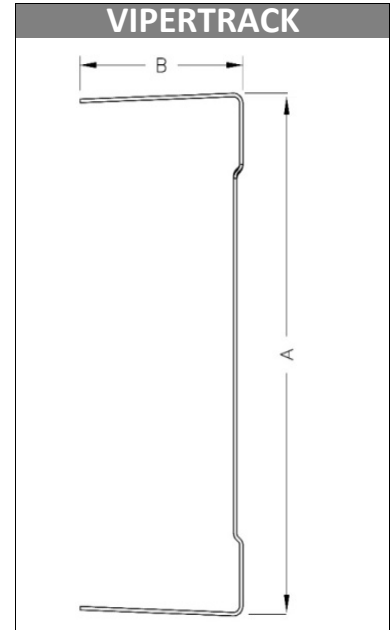
- Meets IBC 2015, 2018 & FBC 2017
- Meets or tested to: ASTM C 645, C 754, E 90, E 119 & AISI S220
- Steel sheet meets ASTM A 1003 & A 653
- Third Party Code Evaluation Report: CRR-0154
- Multiple Fire Rated Assemblies

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 11/30/19.

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