

# Marino\WARE® Product Submittal Data

**PRODUCT NAME:** Viper20 (362VT125-18)

**MARINO\WARE PART #** 358VT18

## PROPERTIES:

<b>A. Web (in)</b>	3-5/8	<b>Yield Strength Fy (KSI)</b>	50
<b>B. Leg (in)</b>	1-1/4	<b>Design Thickness (in)</b>	0.0190
<b>Mils</b>	18	<b>Minimum Thickness (in)</b>	0.0181
<b>Finish*</b>	G40	<b>Gauge EQ</b>	20 DW

\*Or other ASTM A1003 Table 1 Coating

## SECTION PROPERTIES

### GROSS SECTION PROPERTIES

Weight of Member: <b>(lb/ft)</b>	0.3898
Cross Sectional Area: <b>A (in<sup>2</sup>)</b>	0.1147
Moment of Inertia: <b>Ix (in<sup>4</sup>)</b>	0.2175
Section Modulus about the X-axis: <b>Sx (in<sup>3</sup>)</b>	0.1210
Radius of Gyration: <b>Rx (in)</b>	1.3772
Gross Moment of Inertia: <b>Iy (in<sup>4</sup>)</b>	0.0157
Section Modulus about the Y-axis: <b>Sy (in<sup>3</sup>)</b>	0.0162
Gross Radius of Gyration: <b>Ry (in)</b>	0.3701

### EFFECTIVE SECTION PROPERTIES

Moment of Inertia-Deflection: <b>Ixd (in<sup>4</sup>)</b>	0.1323
Section Modulus: <b>Sxe (in<sup>3</sup>)</b>	0.0573
Allowable Moment: <b>Ma (in-k)</b>	1.4334

### TORSIONAL PROPERTIES

Shear Center to Centroid on Principal X-axis: <b>Xo (in)</b>	-0.6355
St. Venant Torsional Constant: <b>Jx10<sup>3</sup> (in<sup>4</sup>)</b>	0.0138
Torsional Warping Constant: <b>Cw (in<sup>6</sup>)</b>	0.0381
Radius of Gyration on the Centroid Principal axis: <b>ro (in)</b>	1.5613
Torsional Flexural Constant: <b>β=1-(xo/ro)<sup>2</sup></b>	0.8343

## CODES & STANDARDS

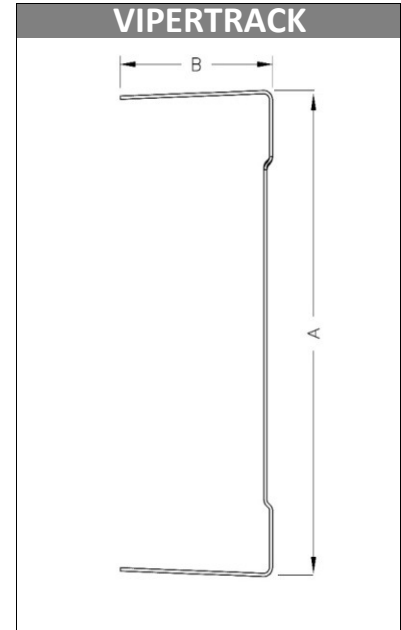
- Meets IBC 2009, 2012, 2015 & FBC 2017
- Meets or tested to: ASTM C 645, C 754, E 90, E 119 & AISI S220-11
- Galvanized steel sheet meets ASTM A 1003 & A 653
- Third Party Code Evaluation Report: ICC ES ESR#2620
- Multiple Fire Rated Assemblies

## GREEN INFO

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



09.22.16 Non-Structural Metal Stud



[www.marinoware.com](http://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 01/30/18.

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