

# Marino\WARE® Product Submittal Data

**PRODUCT NAME:** 250VT125-15

**MARINO\WARE PART #** 212VT25

## PROPERTIES:

<b>A. Web (in)</b>	2-1/2	<b>Yield Strength Fy (KSI)</b>	50
<b>B. Leg (in)</b>	1-1/4	<b>Design Thickness (in)</b>	0.0155
<b>Mils</b>	15	<b>Minimum Thickness (in)</b>	0.0147
<b>Finish</b>	CP60	<b>Gauge EQ</b>	25

## SECTION PROPERTIES

### GROSS SECTION PROPERTIES

Weight of Member: (lb/ft)	0.260
Cross Sectional Area: <b>A</b> (in <sup>2</sup> )	0.078
Moment of Inertia: <b>I<sub>x</sub></b> (in <sup>4</sup> )	0.086
Section Modulus about the X-axis: <b>S<sub>x</sub></b> (in <sup>3</sup> )	0.066
Radius of Gyration: <b>R<sub>x</sub></b> (in)	1.050
Gross Moment of Inertia: <b>I<sub>y</sub></b> (in <sup>4</sup> )	0.012
Section Modulus about the Y-axis: <b>S<sub>y</sub></b> (in <sup>3</sup> )	0.0133
Gross Radius of Gyration: <b>R<sub>y</sub></b> (in)	0.400

### EFFECTIVE SECTION PROPERTIES

Moment of Inertia-Deflection: <b>I<sub>xd</sub></b> (in <sup>4</sup> )	0.054
Section Modulus: <b>S<sub>xe</sub></b> (in <sup>3</sup> )	0.027
Allowable Moment: <b>Ma</b> (in-k)	0.800

### TORSIONAL PROPERTIES

Shear Center to Centroid on Principal X-axis: <b>X<sub>o</sub></b> (in)	-0.768
St. Venant Torsional Constant: <b>Jx10<sup>3</sup></b> (in <sup>4</sup> )	0.0062
Torsional Warping Constant: <b>C<sub>w</sub></b> (in <sup>6</sup> )	0.015
Radius of Gyration on the Centroid Principal axis: <b>R<sub>o</sub></b> (in)	1.360
Torsional Flexural Constant: <b>β = 1-(x<sub>o</sub>/R<sub>o</sub>)<sup>2</sup></b>	0.683

## CODES & STANDARDS

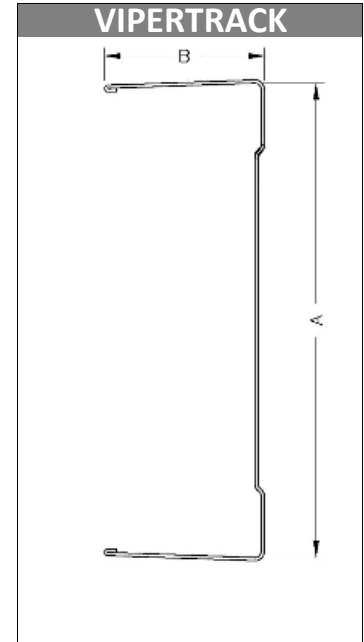
- Meets IBC 2015, 2018 & FBC 2017
- Meets or tested to: ASTM C 645, C 754, E 90, E 119 & AISI S220
- Steel sheet meets ASTM A 1003 & A 653
- Third Party Code Evaluation Report: CCRR-0154
- Multiple Fire Rated Assemblies

## GREEN INFO

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



09.22.16 Non-Structural Metal Stud



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

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