

# Marino\WARE® Product Submittal Data

**PRODUCT NAME:** 162VT200-33

**MARINO\WARE PART #** 158VT233

**PROPERTIES:**

<b>A. Web (in)</b>	1-5/8	<b>Yield Strength Fy (KSI)</b>	33
<b>B. Leg (in)</b>	2	<b>Design Thickness (in)</b>	0.0346
<b>Mils</b>	33	<b>Minimum Thickness (in)</b>	0.0329
<b>Finish</b>	G60	<b>Gauge</b>	20 STR

**SECTION PROPERTIES**

**GROSS SECTION PROPERTIES**

Weight of Member: <b>(lb/ft)</b>	0.660
Cross Sectional Area: <b>A (in<sup>2</sup>)</b>	0.195
Moment of Inertia: <b>Ix (in<sup>4</sup>)</b>	0.119
Section Modulus about the X-axis: <b>Sx (in<sup>3</sup>)</b>	0.133
Radius of Gyration: <b>Rx (in)</b>	0.780
Gross Moment of Inertia: <b>Iy (in<sup>4</sup>)</b>	0.085
Section Modulus about the Y-axis: <b>Sy (in<sup>3</sup>)</b>	0.066
Gross Radius of Gyration: <b>Ry (in)</b>	0.660

**EFFECTIVE SECTION PROPERTIES**

Moment of Inertia-Deflection: <b>Ixd (in<sup>4</sup>)</b>	0.080
Section Modulus: <b>Sxe (in<sup>3</sup>)</b>	0.064
Allowable Moment: <b>Ma (in-k)</b>	1.270

**TORSIONAL PROPERTIES**

Shear Center to Centroid on Principal X-axis: <b>Xo (in)</b>	-1.56
St. Venant Torsional Constant: <b>Jx10<sup>3</sup> (in<sup>4</sup>)</b>	0.0779
Torsional Warping Constant: <b>Cw (in<sup>6</sup>)</b>	0.048
Radius of Gyration on the Centroid Principal axis: <b>Ro (in)</b>	1.870
Torsional Flexural Constant: <b>β = 1-(xo/Ro)<sup>2</sup></b>	0.300

**CODES & STANDARDS**

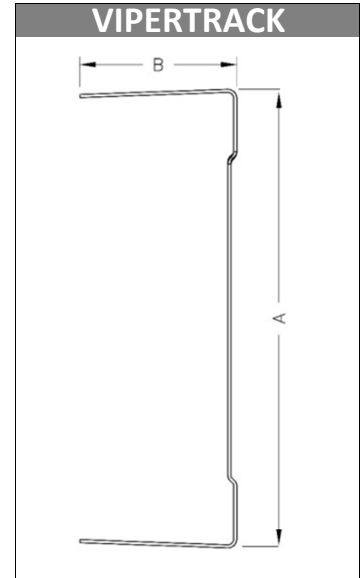
- Meets IBC 2009, 2012, 2015 & FBC 2017
- Meets or tested to: ASTM C 645, C 754, E 90, E 119 & AISI S220-11
- Galvanized steel sheet meets ASTM A 1003 & A 653
- Third Party Code Evaluation Report: ICC ES ESR#2620
- Multiple Fire Rated Assemblies

**GREEN INFO**

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



09.22.16 Non-Structural Metal Stud



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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