

# Marino\WARE® Product Submittal Data

**PRODUCT NAME:** 162VS125-33

**MARINO\WARE PART #** 158VS33

**PROPERTIES:**

<b>A. Web (in)</b>	1-5/8	<b>Yield Strength Fy (KSI)</b>	33
<b>B. Flange (in)</b>	1-1/4	<b>Design Thickness (in)</b>	0.0346
<b>C. Lip (in)</b>	1/4"	<b>Minimum Thickness (in)</b>	0.0329
<b>Mils</b>	33	<b>Gauge</b>	20 STR
<b>Finish*</b>	G40		

\*Or other ASTM A1003 Table 1 Coating

**SECTION PROPERTIES**

**GROSS SECTION PROPERTIES**

Weight of Member: (lb/ft)	0.500
Cross Sectional Area: <b>A</b> (in <sup>2</sup> )	0.147
Moment of Inertia: <b>I<sub>x</sub></b> (in <sup>4</sup> )	0.069
Radius of Gyration: <b>R<sub>x</sub></b> (in)	0.683
Gross Moment of Inertia: <b>I<sub>y</sub></b> (in <sup>4</sup> )	0.030
Gross Radius of Gyration: <b>R<sub>y</sub></b> (in)	0.453

**EFFECTIVE SECTION PROPERTIES**

Moment of Inertia-Deflection: <b>I<sub>x</sub></b> (in <sup>4</sup> )	0.068
Section Modulus: <b>S<sub>x</sub></b> (in <sup>3</sup> )	0.077

**MOMENTS**

Allowable Bending Moment: <b>Ma</b> (in-k)	1.530
Local Buckling Nominal Moment: <b>Mnl</b> (in-k)	2.550
Distortional Buckling Nominal Moment: <b>Mnd</b> (in-k)	2.710

**LIMITING HEIGHTS - COMPOSITE (ft-in)**

Spacing (in)	5 psf			7.5 psf			10 psf		
	L/120	L/240	L/360	L/120	L/240	L/360	L/120	L/240	L/360
12	14-11	11-10	10-4	13-0	10-4	8-10	11-10	9-4	-
16	13-6	10-9	9-4	11-10	9-4	-	10-9	8-4	-
24	11-10	9-4	-	10-4	-	-	9-4	-	-

Composite heights sheathed both sides full height with 5/8" Type X gypsum wallboard applied vertically. Acceptable wallboards are 5/8" Type X from USG, National, GP, Temple, American, Continental & CertainTeed.

**CODES & STANDARDS**

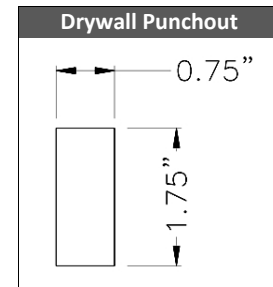
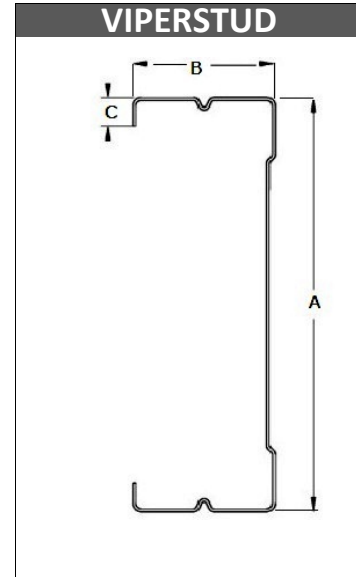
- Meets IBC 2009, 2012, 2015 & FBC 2017
- Meets or tested to: ASTM C 645, C 754, E 90, E 119 & AISI S220-11
- Galvanized steel sheet meets ASTM A 1003 & A 653
- Third Party Code Evaluation Report: ICC ES ESR#2620
- Multiple Fire Rated Assemblies

**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

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