

# Marino\WARE® Product Submittal Data

**PRODUCT NAME:** 162VS125-30

**MARINO\WARE PART #** 158VS30

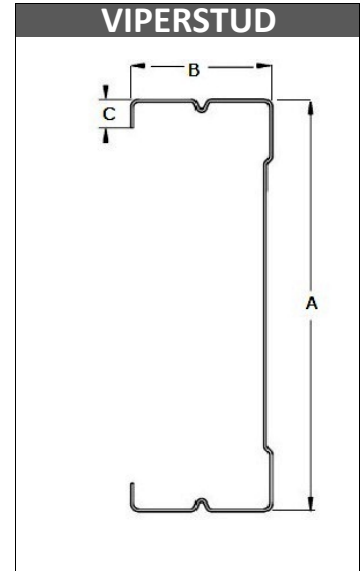


**PROPERTIES:**

<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>	0.0312
<b>C. Lip (in)</b>	1/4"	<b>Minimum Thickness (in)</b>	0.0296
<b>Mils</b>	30	<b>Gauge</b>	20 DW
<b>Finish*</b>	G40		

\*Or other ASTM A1003 Table 1 Coating

09.22.16 Non-Structural Metal Stud



**SECTION PROPERTIES**

**GROSS SECTION PROPERTIES**

Weight of Member: (lb/ft)	0.460
Cross Sectional Area: <b>A</b> (in <sup>2</sup> )	0.135
Moment of Inertia: <b>I<sub>x</sub></b> (in <sup>4</sup> )	0.062
Radius of Gyration: <b>R<sub>x</sub></b> (in)	0.680
Gross Moment of Inertia: <b>I<sub>y</sub></b> (in <sup>4</sup> )	0.028
Gross Radius of Gyration: <b>R<sub>y</sub></b> (in)	0.455

**EFFECTIVE SECTION PROPERTIES**

Moment of Inertia-Deflection: <b>I<sub>x</sub></b> (in <sup>4</sup> )	0.062
Section Modulus: <b>S<sub>x</sub></b> (in <sup>3</sup> )	0.067

**MOMENTS**

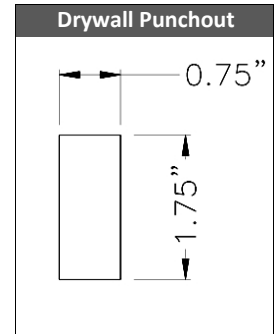
Allowable Bending Moment: <b>Ma</b> (in-k)	1.320
Local Buckling Nominal Moment: <b>Mnl</b> (in-k)	2.210
Distortional Buckling Moment: <b>Mnd</b> (in-k)	2.380

**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	14-7	11-6	10-0	12-9	10-0	8-6	11-7	8-11	-
16	13-3	10-5	8-11	11-7	8-11	-	10-6	7-10	-
24	11-7	8-11	-	10-1	-	-	8-10	-	-

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.



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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