

Marino\WARE® Product Submittal Data

PRODUCT NAME: 250VT250-33

MARINO\WARE PART # 212VT2533

PROPERTIES:

A. Web (in)	2-1/2	Yield Strength Fy (KSI)	33
B. Leg (in)	2-1/2	Design Thickness (in)	0.0346
Mils	33	Minimum Thickness (in)	0.0329
Finish*	G40	Gauge	20 STR

*Or other ASTM A1003 Table 1 Coating

SECTION PROPERTIES

GROSS SECTION PROPERTIES

Weight of Member: (lb/ft)	0.890
Cross Sectional Area: A (in²)	0.260
Moment of Inertia: Ix (in⁴)	0.344
Section Modulus about the X-axis: Sx (in³)	0.258
Radius of Gyration: Rx (in)	1.150
Gross Moment of Inertia: Iy (in⁴)	0.178
Section Modulus about the Y-axis: Sy (in³)	0.107
Gross Radius of Gyration: Ry (in)	0.827

EFFECTIVE SECTION PROPERTIES

Moment of Inertia-Deflection: Ixd (in⁴)	0.218
Section Modulus: Sxe (in³)	0.117
Allowable Moment: Ma (in-k)	2.320

TORSIONAL PROPERTIES

Shear Center to Centroid on Principal X-axis: Xo (in)	-1.88
St. Venant Torsional Constant: Jx10³ (in⁴)	0.1040
Torsional Warping Constant: Cw (in⁶)	0.221
Radius of Gyration on the Centroid Principal axis: Ro (in)	2.350
Torsional Flexural Constant: β = 1-(xo/Ro)²	0.363

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

