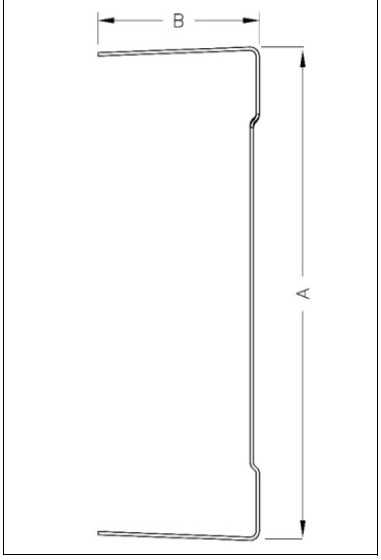
Marino\WARE® Product Submittal Data

PRODUCT NAME: **Viper20 (250VT125-18)**

MARINO\WARE PART # 212VT218

09.22.16 Non-Structural Metal Stud

VIPERTRACK



PROPERTIES:

A. Web (in)	2-1/2	**Yield Strength Fy (KSI)**	50
B. Leg (in)	1-1/4	**Design Thickness (in)**	0.0190
Mils	18	**Minimum Thickness (in)**	0.0181
Finish*	G40EQ	**Gauge EQ**	20 DW

**Or other ASTM A1003 Table 1 Coating*

SECTION PROPERTIES

GROSS SECTION PROPERTIES

Weight of Member: **(lb/ft)**	0.3172
Cross Sectional Area: **A (in^2)**	0.0933
Moment of Inertia: **Ix (in^4)**	0.0906
Section Modulus about the X-axis: **Sx (in^3)**	0.0733
Radius of Gyration: **Rx (in)**	0.9855
Gross Moment of Inertia: **Iy (in^4)**	0.0143
Section Modulus about the Y-axis: **Sy (in^3)**	0.0156
Gross Radius of Gyration: **Ry (in)**	0.3916

EFFECTIVE SECTION PROPERTIES

Moment of Inertia-Deflection: **Ixd (in^4)**	0.0549
Section Modulus: **Sxe (in^3)**	0.0351
Allowable Moment: **Ma (in-k)**	0.8763

TORSIONAL PROPERTIES

Shear Center to Centroid on Principal X-axis: **Xo (in)**	-0.7472
St. Venant Torsional Constant: **Jx10^3 (in^4)**	0.0011
Torsional Warping Constant: **Cw (in^6)**	0.0161
Radius of Gyration on the Centroid Principal axis: **ro (in)**	1.2972
Torsional Flexural Constant: **β= 1-(xo/ro)^2**	0.6682

CODES & STANDARDS

- Meets IBC 2015, 2018 & FBC 2017
- Meets or tested to: ASTM C 645, C 754, E 90, E 119 & AISI S220
- Galvanized 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.

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 11/3/19.