PRODUCT NAME: Viper20 (162VS125-18)

MARINO\WARE PART #

#### **PROPERTIES:**

A. Web (in)	1-5/8"	Yield Strength Fy (KSI)	70
B. Flange (in)	1-1/4"	Design Thickness (in)	0.0190
C. Lip (in)	0.263	Minimum Thickness (in)	0.0181
Mils	18	Gauge EQ	20 DW
Finish	CP60		

# **SECTION PROPERTIES**

### **GROSS SECTION PROPERTIES**

Weight of Member: (lb/ft)	0.285
Cross Sectional Area: <b>A</b> (in <sup>2</sup> )	0.084
Moment of Inertia: <b>Ix</b> (in <sup>4</sup> )	0.039
Radius of Gyration: <b>Rx</b> (in)	0.683
Gross Moment of Inertia: <b>Iy</b> (in <sup>4</sup> )	0.018
Gross Radius of Gyration: <b>Ry</b> (in)	0.462

#### **EFFECTIVE SECTION PROPERTIES**

Moment of Inertia-Deflection: <b>Ix</b> (in <sup>-</sup> )	0.033
Section Modulus: <b>Sx</b> (in <sup>3</sup> )	0.029

#### **MOMENTS**

Allowable Bending Moment: <b>Ma</b> (in-k)	1.19
Local Buckling Nominal Moment: Mnl (in-k)	1.99
Distortional Buckling Nominal Moment: Mnd (in-k)	2.02

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

	5 psf		7.5 psf		10 psf				
Spacing (in)	L/120	L/240	L/360	L/120	L/240	L/360	L/120	L/240	L/360
12	13-10	11-0	9-7	12-1	9-7	8-5	11-0	8-9	
16	12-7	10-0	8-9	11-0	8-9	7-11	10-0	7-11	
24	11-0	8-9		9-7			8-9		

- 1. Gypsum must be vertically oriented, applied full height to both sides, and fastened to each stud and track flange
- 2. Acceptable wallboards are 5/8" type X from: USG, National, GP, Pabco, American, Continental & CertainTeed.
- 3. No screws are required between stud and track, except as required by ASTM C754.
- 4. See CCRR-0154 for additional information. Review fire related assemblies for any additional requirements

## **CODES & STANDARDS**

- Meets IBC 2015, 2018, & FBC 2020
- ASTM C 645, C 754, E 90, E 119, & AISI S220
- Steel sheet meets ASTM A 1003 or A 653
- Third Party Code Evaluation Report: CCRR-0154
- Multiple Fire Rated Assemblies

### **GREEN INFO**

- LEED v4 credits available
- Contact Technical Services for more information



#### 09.22.16 Non-Structural Metal Stud





