

Marino\WARE® Product Submittal Data

PRODUCT NAME: Viper20 (250VS125-18)

MARINO\WARE PART #

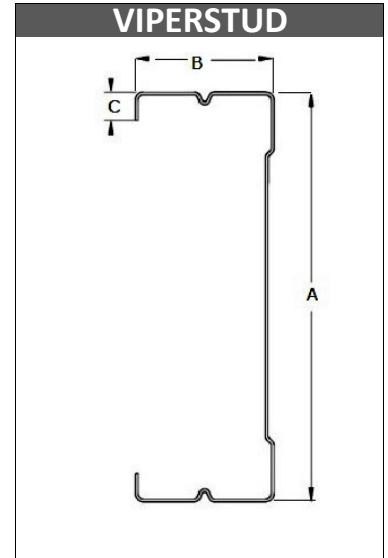


PROPERTIES:

A. Web (in)	2-1/2"	Yield Strength Fy (KSI)	70
B. Flange (in)	1-1/4"	Design Thickness (in)	0.0190
C. Lip (in)	0.330	Minimum Thickness (in)	0.0181
Mils	18	Gauge EQ	20 DW
Finish*	G40EQ		

*Or other ASTM A1003 Table 1 Coating

09.22.16 Non-Structural Metal Stud



SECTION PROPERTIES

GROSS SECTION PROPERTIES

Weight of Member: (lb/ft)	0.351
Cross Sectional Area: A (in ²)	0.103
Moment of Inertia: I_x (in ⁴)	0.106
Radius of Gyration: R_x (in)	1.013
Gross Moment of Inertia: I_y (in ⁴)	0.023
Gross Radius of Gyration: R_y (in)	0.469

EFFECTIVE SECTION PROPERTIES

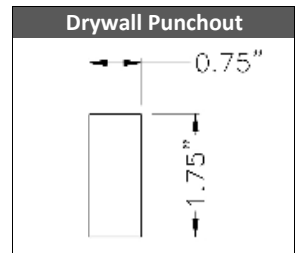
Moment of Inertia-Deflection: I_x (in ⁴)	0.094
Section Modulus: S_x (in ³)	0.058

MOMENTS

Allowable Bending Moment: Ma (in-k)	2.090
Local Buckling Nominal Moment: Mnl (in-k)	4.07
Distortional Buckling Moment: Mnd (in-k)	3.49

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	18-2	14-5	12-7	15-10	12-7	11-0	14-5	11-5	9-10
16	16-6	13-1	11-5	14-5	11-5	9-10	13-1	10-4	8-10
24	14-5	11-5	9-10	12-7	9-10	8-5	11-5	8-10	--



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



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 4/2/22.

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