

Marino\WARE® Product Submittal Data

PRODUCT NAME: Viper20 (400VS125-18)

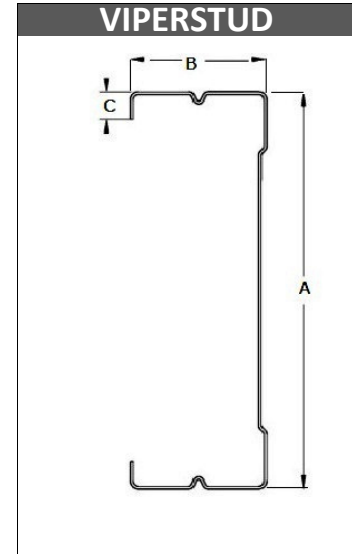
MARINO\WARE PART #



PROPERTIES:

A. Web (in)	4	Yield Strength Fy (KSI)	70
B. Flange (in)	1-1/4"	Design Thickness (in)	0.0190
C. Lip (in)	0.338	Minimum Thickness (in)	0.0181
Mils	18	Gauge EQ	20 DW
Finish	CP60		

09.22.16 Non-Structural Metal Stud



SECTION PROPERTIES

GROSS SECTION PROPERTIES

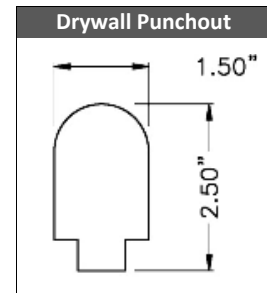
Weight of Member: (lb/ft)	0.449
Cross Sectional Area: A (in ²)	0.132
Moment of Inertia: Ix (in ⁴)	0.315
Radius of Gyration: Rx (in)	1.545
Gross Moment of Inertia: Iy (in ⁴)	0.027
Gross Radius of Gyration: Ry (in)	0.449

EFFECTIVE SECTION PROPERTIES

Moment of Inertia-Deflection: Ix (in ⁴)	0.265
Section Modulus: Sx (in ³)	0.085

MOMENTS

Allowable Bending Moment: Ma (in-k)	3.44
Local Buckling Nominal Moment: Mnl (in-k)	5.93
Distortional Buckling Moment: Mnd (in-k)	5.74



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	22-11	18-11	16-8	20-0	16-7	14-7	18-2	15-1	13-3
16	20-10	17-3	15-2	18-2	15-1	13-3	16-6	13-8	12-1
24	18-2	15-1	13-3	15-10	13-2	11-7	14-5	11-11	10-5

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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