



Submittal Information

Job Info:

GC:

Contractor:

Architect:

Distributor:

Date: _____

✦ **MarinoWARE®
New Jersey Plant**
400 Metuchen Rd.
South Plainfield, NJ 07080
P: 800.627.4661
F: 908.412.1442

✦ **MarinoWARE®
Georgia Plant**
777 Greenbelt Pkwy.
Griffin, GA 30223
P: 800.504.8199
F: 678.688.1379

✦ **MarinoWARE®
Indiana Plant**
4245 Railroad Ave.
East Chicago, IN 46312
P: 219.378.7100
F: 219.378.7106

✦ **MarinoWARE®
Texas Plant**
10101 Bay Area Blvd.
Pasadena, TX 77507
P: 800.504.8199
F: 281.283.8105

✦ **MarinoWARE®
New York Sales Office**
134 Broadway, Ste. C
Amityville, NY 11701
P: 800.627.4667
F: 631.691.1492

✦ **MarinoWARE®
Engineering Office**
200 Business Center Drive
Stockbridge, GA 30281
P: 866-545-1545
F: 770.507.2605

www.MarinoWARE.com

For more information, please contact MarinoWARE® Technical Services at 866-545-1545

Marino\WARE® Product Submittal Data

PRODUCT NAME: 362VS125-33

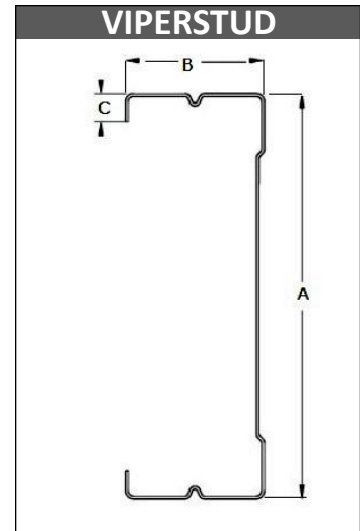
MARINO\WARE PART # 358VS33



PROPERTIES:

A. Web (in)	3-5/8	Yield Strength Fy (KSI)	33
B. Flange (in)	1-1/4	Design Thickness (in)	0.0346
C. Lip (in)	1/4"	Minimum Thickness (in)	0.0329
Mils	33	Gauge	20 STR
Finish	G40		

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SECTION PROPERTIES

GROSS SECTION PROPERTIES

Weight of Member: (lb/ft)	0.750
Cross Sectional Area: A (in ²)	0.220
Moment of Inertia: Ix (in ⁴)	0.432
Radius of Gyration: Rx (in)	1.400
Gross Moment of Inertia: Iy (in ⁴)	0.040
Gross Radius of Gyration: Ry (in)	0.429

EFFECTIVE SECTION PROPERTIES

Moment of Inertia-Deflection: Ix (in ⁴)	0.428
Section Modulus: Sx (in ³)	0.201

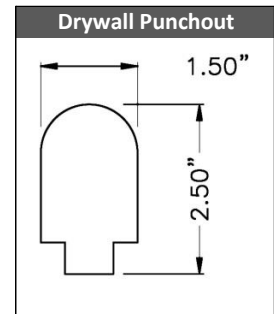
MOMENTS

Allowable Bending Moment: Ma (in-k)	3.960
Local Buckling Nominal Moment: Mnl (in-k)	6.620
Distortional Buckling Moment: Mnd (in-k)	6.750

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	23-10	18-11	16-6	20-10	16-6	14-5	18-11	15-0	13-1
16	21-8	17-2	15	18-11	15-0	13-1	17-2	13-8	11-10
24	18-11	15	13-1	16-6	13-1	11-4	14-4	11-10	10-3

Composite heights sheathed both sides full height with 5/8" Type X gypsum wallboard per ASTM C 754-09. Acceptable wallboards are 5/8" Type X from USG, National, GP, Temple, American, Lafarge & CertainTeed. Based on AC86-2010



CODES & STANDARDS

- IBC 2009 & AISI S100-07 Compliant
- Meets or tested to: ASTM C 645, C 754, E 90 & E 119
- Galvanized steel sheet meets ASTM A 1003 & A 653
- Third Party Code Evaluation Reports: ICC ES ESR#2620 & ATI-ES CCRR-0154
- Multiple UL & Intertek Warnock Hersey Fire Rated Assemblies

GREEN INFO LEED® v3

Using products manufactured by Marino\WARE® can contribute LEED® points in the following categories:

- MR Credit 2 - Construction Waste Management (1-2 points)
- MR Credit 4 - Recycled Content (1-2 points)
- MR Credit 5 - Regional Materials (1-2 points)
- Total Recycled Content: 34.9%
- Post Consumer Content: 24.3%
- Pre Consumer (Post Industrial) Content: 9.4%



For more information, please contact Marino\WARE Technical Services at 866-545-1545.

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Marino\WARE® Product Submittal Data

PRODUCT NAME: 362VT125-33

MARINO\WARE PART # 358VT33



PROPERTIES:

A. Web (in)	3-5/8	Yield Strength Fy (KSI)	33
B. Leg (in)	1-1/4	Design Thickness (in)	0.0346
Mils	33	Minimum Thickness (in)	0.0329
Finish	G40	Gauge	20 STR

SECTION PROPERTIES

GROSS SECTION PROPERTIES

Weight of Member: (lb/ft)	0.720
Cross Sectional Area: A (in²)	0.212
Moment of Inertia: Ix (in⁴)	0.443
Section Modulus about the X-axis: Sx (in³)	0.234
Radius of Gyration: Rx (in)	1.440
Gross Moment of Inertia: Iy (in⁴)	0.030
Section Modulus about the Y-axis: Sy (in³)	0.0306
Gross Radius of Gyration: Ry (in)	0.377

EFFECTIVE SECTION PROPERTIES

Moment of Inertia-Deflection: Ixd (in⁴)	0.375
Section Modulus: Sxe (in³)	0.173
Allowable Moment: Ma (in-k)	3.430

TORSIONAL PROPERTIES

Shear Center to Centroid on Principal X-axis: Xo (in)	-0.657
St. Venant Torsional Constant: Jx10³ (in⁴)	0.0848
Torsional Warping Constant: Cw (in⁶)	0.077
Radius of Gyration on the Centroid Principal axis: Ro (in)	1.630
Torsional Flexural Constant: β=1-(xo/Ro)²	0.838

CODES & STANDARDS

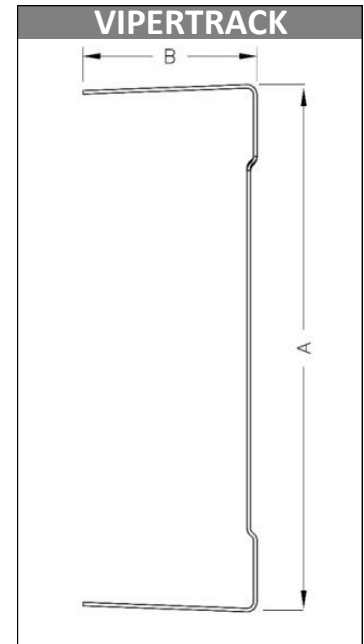
- IBC 2009 & AISI S100-07 Compliant
- Compliant with: ASTM C 645, C 754, E 90, E 119
- Galvanized Steel Sheet meets ASTM A 1003, A 653
- Third Party Code Evaluation Reports: ICC-ES ESR#2620, ATI-ES CCRR-0154
- Multiple UL & Intertek Warnock Hersey Fire Rated Assemblies

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- MR Credit 4 - Recycled Content (1-2 points)
- MR Credit 5 - Regional Materials (1-2 points)
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Marino\WARE® Product Submittal Data

PRODUCT NAME: 362VT200-20

MARINO\WARE PART # 358VT220



PROPERTIES:

A. Web (in)	3-5/8	Yield Strength Fy (KSI)	57
B. Leg (in)	2	Design Thickness (in)	0.0205
Mils	20	Minimum Thickness (in)	0.0195
Finish	G40	Gauge EQ	20

SECTION PROPERTIES

GROSS SECTION PROPERTIES

Weight of Member: (lb/ft)	0.533
Cross Sectional Area: A (in²)	0.157
Moment of Inertia: Ix (in⁴)	0.369
Section Modulus about the X-axis: Sx (in³)	0.196
Radius of Gyration: Rx (in)	1.530
Gross Moment of Inertia: Iy (in⁴)	0.0656
Section Modulus about the Y-axis: Sy (in³)	0.0446
Gross Radius of Gyration: Ry (in)	0.647

EFFECTIVE SECTION PROPERTIES

Moment of Inertia-Deflection: Ixd (in⁴)	0.190
Section Modulus: Sxe (in³)	0.0604
Allowable Moment: Ma (in-k)	2.061

TORSIONAL PROPERTIES

Shear Center to Centroid on Principal X-axis: Xo (in)	-1.280
St. Venant Torsional Constant: Jx10³ (in⁴)	0.0219
Torsional Warping Constant: Cw (in⁶)	0.161
Radius of Gyration on the Centroid Principal axis: Ro (in)	2.100
Torsional Flexural Constant: β=1-(xo/Ro)²	0.630

CODES & STANDARDS

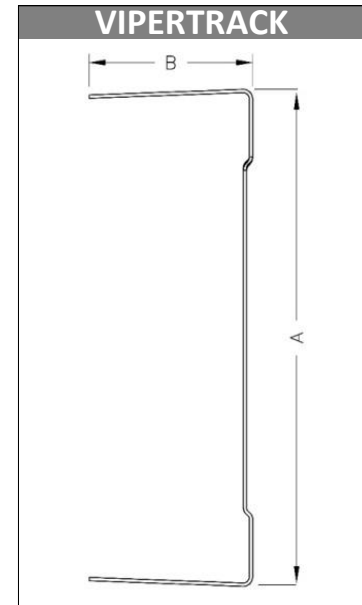
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- Compliant with: ASTM C 645, C 754, E 90, E 119
- Galvanized Steel Sheet meets ASTM A 1003, A 653
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