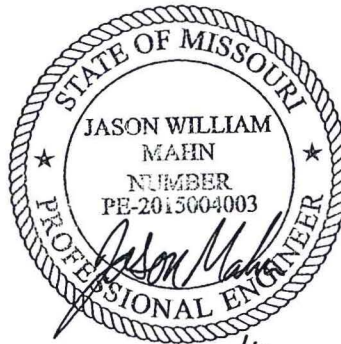




September 23, 2016

Cannon Design
1100 Clark Avenue
Saint Louis, MO 63102

Attention: Lynn Grossman
Project: Webster ISB in Saint Louis, MO 63119



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connectors@marinoware.com

Marino\WARE's ViperStud® was developed to maximize steel strength and stiffness by adding ribs in the flanges and web, utilizing a longer lip and high strength steel. ViperStud® has gone through a rigorous testing program as set by the International Code Council Evaluation Services (ICC-ES). ViperStud® was tested per Acceptance Criteria AC86-2010 "Cold Formed Steel Framing Members – Interior Non-load-Bearing Wall assemblies". ICC-ES also mandated that these tests be performed by an IAS certified laboratory.

The ICC-ES AC86-2010 requires that wall panels be constructed in accordance to ASTM C754 and tested to failure to establish stiffness, strength, end shear and the web crippling capacity of the stud. These tests were performed on the ViperStud® System and test data was collected to derive the limiting heights. In addition through extensive testing we have proven that the Nominal Bending Moment for all ViperStud® products is greater than the Nominal Bending Moment of the equivalent conventional stud. Viper25 (25 GA EQ) & Viper20 (20 GA DW EQ) also have better screw pullout, pull over and shear values than the equivalent conventional stud, due to the use of high strength steel.

ViperStud® meets ASTM C 645 even though the thicknesses do not meet the minimums listed because of variances allowed in sections 5.1 & 9.2. The following is an excerpt from ASTM C 645.

ASTM C645 section 5.1 (Dimensions and Permissible Variations) states that **"Studs and rigid furring channels shall have a configuration and steel thickness such that the system in which they are used will carry the design transverse loads without exceeding either the allowable stress of the steel or the allowable design deflection. Main beams and cross furring of grid suspension systems shall be limited to a deflection of L/240. The manufacturer shall supply sufficient data for calculating design performance."**

ASTM C645 section 9.2 states **"Members that can show independently verified test performance that meet the limiting heights values listed in Specification C754 need not meet the minimum thickness limitation set forth in 4.3 or the minimum section properties set forth in 8.1"**

The ViperStud® test program was designed to meet these conditions and provide an engineered drywall stud that effectively replaces thickness with higher strength steel for a more efficient stud. The ViperStud® System 0.0155" design thickness for Viper25 (50 KSI) Stud and ViperTrack (50 KSI), 0.0205" design thickness for Viper20 (57 KSI) Stud and Viper20 (50 KSI) Track (1-5/8" – 3-5/8"), and 0.022" design thickness for Viper20 (57 KSI) Stud and Viper20 (50 KSI) Track (4" & 6"), meet requirements set by ASTM standards. The testing also shows that Viper25 Track (0.0155") works with Viper25 and Viper20 studs, but should not be used with Viper20 if high impact or high abuse wallboards are used. Viper20 Track should be used with impact or abuse boards.

Sincerely,

Jason W. Mahn P.E.
Marino\WARE Design Group

★ NEW JERSEY FACILITY 400 Metuchen Road South Plainfield, NJ 07080 (800) 627-4661 (908) 757-9000 (908) 412-1442 FAX	★ GEORGIA FACILITY 777 Greenbelt Parkway Griffin, GA 30223 (800) 504-8199 (678) 688-1312 (678) 688-1379 FAX	★ INDIANA FACILITY 4245 Railroad Avenue East Chicago, IN 46312 (866) 636-6002 (219) 378-7100 (219) 378-7106 FAX	★ TEXAS FACILITY 10101 Bay Area Boulevard Pasadena, TX 77507 (800) 504-8199 (678) 688-1312 (281) 283-8105 FAX	★ NEW YORK SALES OFFICE 137 Broadway, Suite B1 Amityville, NY 11701 (800) 627-4667 (631) 691-2200 (631) 691-1492 FAX	★ ENGINEERING OFFICE 100 Hendrick Drive, Suite 200 McDonough, GA 30253 (866) 545-1545 (678) 688-7780 (770) 507-2605 FAX
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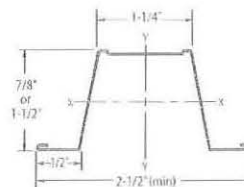
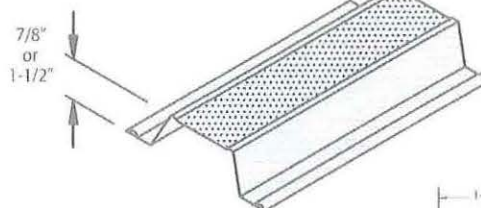
2.2 E2

PRODUCT NAME: 7/8" & 1-1/2" FURRING CHANNEL & CLIP

USE: As furring over masonry walls and hot rolled steel shapes. Cross furring for gypsum wallboard and plaster soffits and ceilings.

AVAILABLE GAUGES: 25, 20 & 18
AVAILABLE COATINGS: G40, G60 or G90

CODES & STANDARDS: ASTM C645, ASTM C955, ASTM A1003



PHYSICAL PROPERTIES				GROSS PROPERTIES					EFFECTIVE PROPERTIES ^{3,4}			
MODEL NO.	SSMA	Fy (ksi)	DESIGN THICKNESS (in)	GROSS AREA (in ²)	WEIGHT (lb/ft)	Ix (in ⁴)	Rx (in)	Iy (in ⁴)	Ry (in)	Ix (in ⁴)	Sx (in ³)	Ma (ft-lb)
7/8DWF25	087F125-18	33	0.0188	0.070	0.239	0.009	0.356	0.0354	0.710	0.0086	0.0160	26.41
7/8DWF21	087F125-30	33	0.0312	0.115	0.391	0.014	0.353	0.0590	0.710	0.0143	0.0307	50.47
7/8DWF20	087F125-33	33	0.0346	0.127	0.432	0.016	0.351	0.0641	0.710	0.0157	0.0337	55.43
7/8DWF18	087F125-43	33	0.0451	0.162	0.550	0.020	0.348	0.0817	0.711	0.0196	0.0420	69.17
112DWF25	150F125-18	33	0.0188	0.094	0.320	0.031	0.575	0.0467	0.705	0.0299	0.0344	56.59
112DWF21	150F125-30	33	0.0312	0.154	0.525	0.050	0.571	0.0767	0.705	0.0503	0.0639	105.25
112DWF20	150F125-33	33	0.0346	0.171	0.581	0.055	0.570	0.0848	0.705	0.0554	0.0704	115.92
112DWF18	150F125-43	33	0.0451	0.219	0.745	0.070	0.565	0.1087	0.705	0.0699	0.0888	146.25

STOCK LENGTHS & PACKAGING:

25 Gauge Furring 10 & 12 Ft.
450 Pieces Per Skid

20 Gauge Furring 10 & 12 Ft.
450 Pieces Per Skid

18 Gauge Furring 10 & 12 Ft.
225 Pieces Per Skid

Other Lengths are available upon request.

Notes:

- Minimum bare metal thickness is 95% of design thickness.
- Moment of inertia given is for deflection calculations.
- Effective properties are given as the minimum value for either positive or negative bending.
- Effective properties based on Fy=33ksi.

ALLOWABLE CEILING SPANS

MODEL NO. SSMA SPANS			L/240									L/360								
			4 PSF			6 PSF			13 PSF*			4 PSF			6 PSF			13 PSF*		
			Hat Spacing (in.) O.C.									Hat Spacing (in.) O.C.								
12	16	24	12	16	24	12	16	24	12	16	24	12	16	24	12	16	24	12	16	24
7/8DWF25	087F125-18	Single Multiple	5'-2" 6'-5"	4'-9" 5'-10"	4'-1" 5'-1"	4'-6" 5'-7"	4'-1" 5'-1"	3'-7" 4'-2"	3'-6" 4'-0"	3'-2" 3'-6"	2'-9" 2'-10"	4'-6" 5'-7"	4'-1" 5'-1"	3'-7" 4'-5"	4'-0" 4'-11"	3'-7" 4'-3"	3'-2" 3'-11"	3'-1" 3'-9"	2'-9" 3'-5"	2'-5" 2'-10"
7/8DWF20	087F125-30	Single Multiple	6'-2" 7'-7"	5'-7" 6'-11"	4'-11" 6'-1"	5'-5" 6'-8"	4'-11" 6'-1"	4'-3" 5'-3"	4'-2" 5'-2"	3'-9" 4'-8"	3'-4" 3'-11"	5'-5" 6'-8"	4'-11" 6'-1"	4'-3" 5'-3"	4'-8" 5'-10"	4'-3" 5'-3"	3'-9" 4'-7"	3'-8" 4'-6"	3'-4" 4'-1"	2'-11" 3'-7"
7/8DWF20	087F125-33	Single Multiple	6'-4" 7'-10"	5'-9" 7'-2"	5'-1" 6'-3"	5'-7" 6'-10"	5'-1" 6'-3"	4'-5" 5'-5"	4'-4" 5'-4"	3'-11" 4'-10"	3'-5" 4'-1"	5'-7" 6'-10"	5'-1" 6'-3"	4'-5" 5'-5"	4'-10" 6'-0"	4'-5" 5'-5"	3'-10" 4'-9"	3'-9" 4'-8"	3'-5" 4'-3"	3'-0" 3'-8"
7/8DWF18	087F125-43	Single Multiple	6'-10" 8'-6"	6'-3" 7'-8"	5'-5" 6'-9"	6'-0" 7'-5"	5'-5" 6'-9"	4'-9" 5'-10"	4'-7" 5'-9"	4'-2" 5'-2"	3'-8" 4'-6"	6'-0" 7'-5"	5'-5" 6'-9"	4'-9" 5'-10"	5'-3" 6'-6"	4'-9" 5'-10"	4'-2" 5'-2"	4'-0" 5'-0"	3'-8" 4'-6"	3'-2" 4'-0"
112DWF25	150F125-18	Single Multiple	7'-11" 9'-9"	7'-2" 8'-10"	6'-3" 7'-6"	6'-11" 8'-6"	6'-3" 7'-6"	5'-6" 6'-0"	5'-4" 5'-8"	4'-10" 4'-9"	4'-2" 3'-8"	6'-11" 8'-6"	6'-3" 7'-9"	5'-6" 6'-9"	6'-0" 7'-5"	5'-6" 6'-9"	4'-9" 5'-11"	4'-8" 5'-8"	4'-3" 4'-9"	3'-8" 3'-8"
112DWF20	150F125-30	Single Multiple	9'-5" 11'-7"	8'-6" 10'-6"	7'-5" 9'-2"	8'-2" 10'-2"	7'-5" 9'-2"	6'-6" 8'-0"	6'-4" 7'-10"	5'-9" 6'-12"	5'-0" 5'-8"	8'-2" 10'-2"	7'-5" 9'-2"	6'-6" 8'-0"	7'-2" 8'-10"	6'-6" 8'-0"	5'-8" 7'-0"	5'-6" 6'-10"	5'-0" 6'-3"	4'-5" 5'-5"
112DWF20	150F125-33	Single Multiple	9'-8" 12'-0"	8'-10" 10'-11"	7'-8" 9'-6"	8'-6" 10'-6"	7'-8" 9'-6"	6'-9" 8'-4"	6'-6" 8'-1"	5'-11" 7'-4"	5'-2" 5'-12"	8'-6" 10'-6"	7'-8" 9'-6"	6'-9" 8'-4"	7'-5" 9'-2"	6'-9" 8'-4"	5'-10" 7'-3"	5'-9" 7'-1"	5'-2" 6'-5"	4'-6" 5'-7"
112DWF18	150F125-43	Single Multiple	10'-6" 13'-0"	9'-6" 11'-9"	8'-4" 10'-3"	9'-2" 11'-4"	8'-4" 10'-3"	7'-3" 9'-0"	7'-1" 8'-9"	6'-5" 8'-0"	5'-7" 6'-8"	9'-2" 11'-4"	8'-4" 10'-3"	7'-3" 9'-0"	8'-0" 9'-11"	7'-3" 9'-0"	6'-4" 7'-10"	6'-2" 7'-8"	5'-7" 6'-11"	4'-11" 6'-1"

Notes:

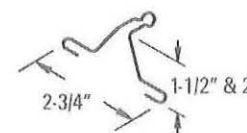
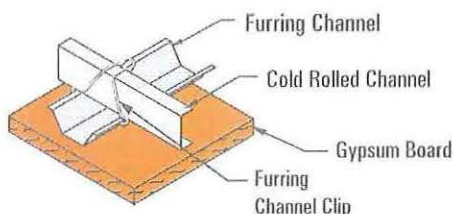
- Single spans taken as the minimum span based on moment, shear, web crippling or deflection.
- Multiple spans indicate two or more equal, continuous spans with span length measured support to support.
- Multiple spans taken as the minimum span based on moment, shear, web crippling, deflection, combined bending and shear or combined bending and web crippling.
- Web crippling values based on 1" bearing at end and interior supports.
- Loads that exceed the 10psf limit for non-structural members require the use of structural material with G60 or similar coating.

FURRING CHANNEL CLIP

USE: Provides economical method of attaching 7/8" Drywall Furring Channels to 1-1/2" Cold Rolled Channel.

NOTE: Alternate direction of every other clip along cold rolled channel.

PACKAGING: 500 Pieces per box.



Resilient Channel — RC-1, RC-2, & RC-MAX

USE: For furring over wood or steel framed walls and ceilings. Reduced contact with supporting members offers an economical means for reducing sound transmission. Refer to your Fire Resistance Design manual for STC ratings.

MATERIAL: RC Resilient Channel meets or exceeds ASTM C 645. RC 1 & RC 2 are 33 ksi G40, available in 20 & 25 gauge, RC-Max is a high strength RC 1 type Resilient Channel fabricated from 50 ksi 0.0205" thick steel with G40 coating. G60 or G90 coating available upon request.

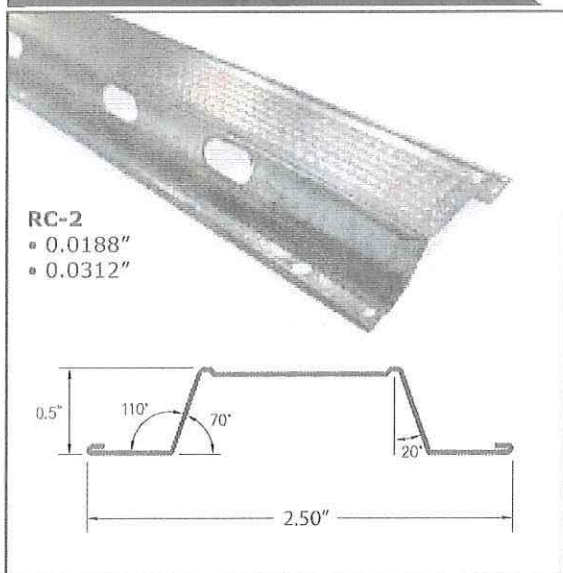
INSTALLATION (WALLS): Fasten resilient channels to steel studs with 3/8" Type S pan head screws, to wood studs with 1-1/4" Type W screws. Locate resilient channel 2" max up from the floor and within 6" of the ceiling and at no more than 24" on center intervals (16" on center max for some veneer plaster assemblies). extend RC channels into all corners and attach to corner framing. Splice channels directly over studs by nesting (not butting) the channels and driving fasteners through both flanges into support. Mounting flange down, except for starter row.

INSTALLATION (CEILINGS): Attach Resilient Channels at right angles to the joists. Fasten the resilient channels to steel joists with 1-1/4" Type S screws and to wood joists with 1-1/4" Type W screws. install channels 24" on center when joist spacing is 16" on center, and 16" on center max when joist spacing is 24" on center. One or two layers of gypsum board may be used.

RESILIENT CHANNEL

Model No.	Mils	Design Thickness	Size	Ft	Wt./Ft.	Bdl Qty
RC-1	18	0.0188"	2"	12'	0.152	20
RC-2	18	0.0188"	2.5"	12'	0.203	20
RC-Max	20	0.0205"	2-3/8"	12'	0.233	20
RC-1	30	0.0312"	2"	12'	0.243	20
RC-2	30	0.0312"	2.5"	12'	0.330	20

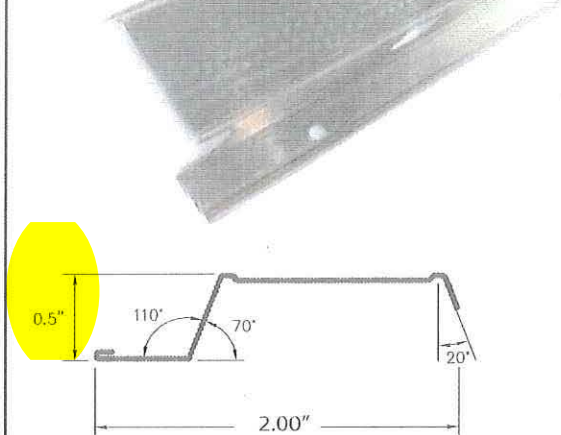
RC-2



RC-1 & RC-MAX

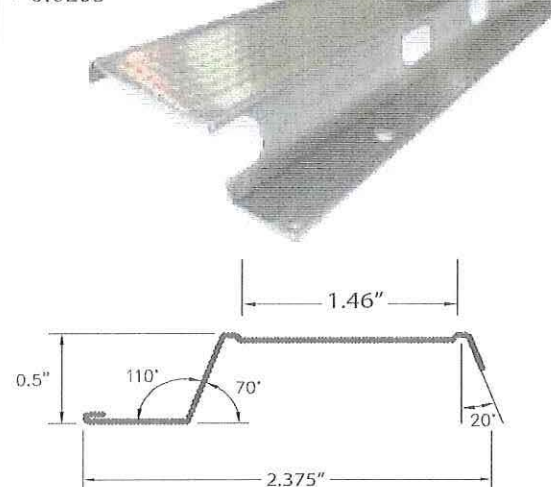
RC-1

- 0.0188"
- 0.0312"



RC-Max

- 0.0205"



RC-Max meets the resilient channel requirements of the following UL assemblies: L521, L546, L547, L550, L558, L562, L563, L569, L570, L574, L576, L579, L589, L590, L592, L593, L598, M501, M502, M503, M506, P515, P522, P524, P531, P533, P535, P538, P541, P545, P549, P551, P552.

Additionally RC-Max exceeds the minimum 25 MSG generic requirements of other UL assemblies.

Marino\WARE® Product Submittal Data

2.3 A - Embossed Studs -
See letter from manufacturer
and engineer.

PRODUCT NAME: 162VS125-20

MARINO\WARE PART # 158VS20

PROPERTIES:

A. Web (in)	1-5/8"	Yield Strength Fy (KSI)	57
B. Flange (in)	1-1/4"	Design Thickness (in)	0.0205
C. Lip (in)	1/4"	Minimum Thickness (in)	0.0195
Mils	20	Gauge EQ	20 DW
Finish	G40		

Complies ASTM C754



09.22.16 Non-Structural Metal Stud

VIPERSTUD



SECTION PROPERTIES

GROSS SECTION PROPERTIES

Weight of Member: (lb/ft)	0.320
Cross Sectional Area: A (in ²)	0.093
Moment of Inertia: Ix (in ⁴)	0.042
Radius of Gyration: Rx (in)	0.673
Gross Moment of Inertia: Iy (in ⁴)	0.020
Gross Radius of Gyration: Ry (in)	0.459

EFFECTIVE SECTION PROPERTIES¹

Moment of Inertia-Deflection: Ix (in ⁴)	0.050
Section Modulus: Sx (in ³)	0.038

MOMENTS¹

Allowable Bending Moment: Ma (in-k)	1.180
Local Buckling Nominal Moment: Mnl (in-k)	2.740
Distortional Buckling Nominal Moment: Mnd (in-k)	2.140

Note 1. Tested values

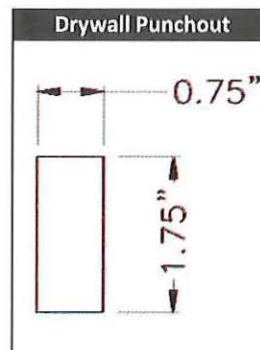
LIMITING HEIGHTS - COMPOSITE (ft-in)

	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	14-3	11-3	9-10	12-5	9-10	8-5	11-3	8-10	--
16	12-11	10-3	8-10	11-3	8-10	--	10-3	7-11	--
24	11-3	8-10	--	9-10	--	--	8-10	--	--

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%

MARINO\WARE

www.marinoware.com

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 10/1/2011

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Marino\WARE® Product Submittal Data

2.3 A - Embossed Track -
See letter from manufacturer
and engineer.

PRODUCT NAME: 162VT125-20

MARINO\WARE PART # 158VT20



PROPERTIES:

A. Web (in)	1-5/8	Yield Strength Fy (KSI)	50
B. Leg (in)	1-1/4	Design Thickness (in)	0.0205
Mils	20	Minimum Thickness (in)	0.0195
Finish	G40	Gauge EQ	20

09.22.16 Non-Structural Metal Stud

Complies ASTM C754

VIPERTRACK

SECTION PROPERTIES

GROSS SECTION PROPERTIES

Weight of Member: (lb/ft)	0.290
Cross Sectional Area: A (in ²)	0.085
Moment of Inertia: Ix (in ⁴)	0.046
Section Modulus about the X-axis: Sx (in ³)	0.052
Radius of Gyration: Rx (in)	0.737
Gross Moment of Inertia: Iy (in ⁴)	0.014
Section Modulus about the Y-axis: Sy (in ³)	0.0165
Gross Radius of Gyration: Ry (in)	0.411

EFFECTIVE SECTION PROPERTIES

Moment of Inertia-Deflection: Ixd (in ⁴)	0.031
Section Modulus: Sxe (in ³)	0.027
Allowable Moment: Ma (in-k)	0.790

TORSIONAL PROPERTIES

Shear Center to Centroid on Principal X-axis: Xo (in)	-0.874
St. Venant Torsional Constant: Jx10 ³ (in ⁴)	0.0119
Torsional Warping Constant: Cw (in ⁶)	0.008
Radius of Gyration on the Centroid Principal axis: Ro (in)	1.220
Torsional Flexural Constant: $\beta = 1 - (x_o/R_o)^2$	0.483

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:

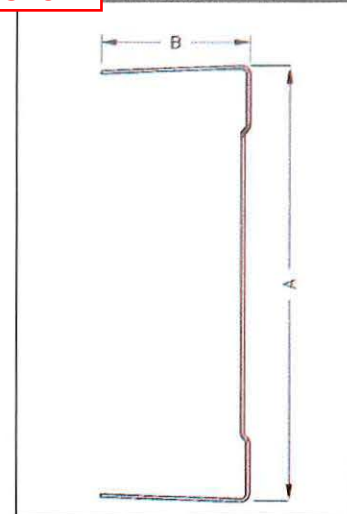
- MR Credit 2 - Construction Waste Management (1-2 points)
- MR Credit 4 - Recycled Content (1-2 points)
- MR Credit 5 - Regional Materials (1-2 points)
- Total Recycled Content: 34.9%
- Post Consumer Content: 24.3%
- Pre Consumer (Post Industrial) Content: 9.4%

MARINO\WARE

www.marinoware.com

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 10/1/2011
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Marino\WARE® Product Submittal Data

2.3 A - Embossed Studs -
See letter from manufacturer
and engineer.

PRODUCT NAME: 250VS125-20

MARINO\WARE PART # 212VS20

PROPERTIES:

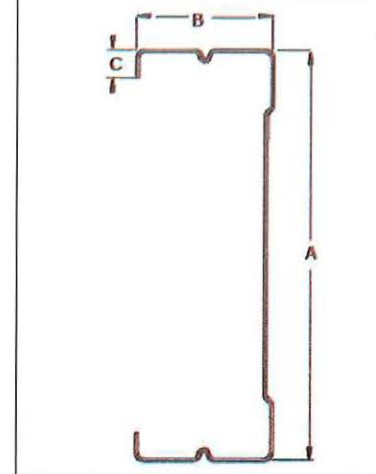
A. Web (in)	2-1/2"	Yield Strength Fy (KSI)	57
B. Flange (in)	1-1/4"	Design Thickness (in)	0.0205
C. Lip (in)	1/4"	Minimum Thickness (in)	0.0195
Mils	20	Gauge EQ	20 DW
Finish	G40		



09.22.16 Non-Structural Metal Stud

Complies ASTM C754

VIPERSTUD



SECTION PROPERTIES

GROSS SECTION PROPERTIES

Weight of Member: (lb/ft)	0.380
Cross Sectional Area: A (in ²)	0.111
Moment of Inertia: Ix (in ⁴)	0.111
Radius of Gyration: Rx (in)	1.000
Gross Moment of Inertia: Iy (in ⁴)	0.023
Gross Radius of Gyration: Ry (in)	0.451

EFFECTIVE SECTION PROPERTIES¹

Moment of Inertia-Deflection: Ix (in ⁴)	0.129
Section Modulus: Sx (in ³)	0.065

MOMENTS¹

Allowable Bending Moment: Ma (in-k)	2.050
Local Buckling Nominal Moment: Mnl (in-k)	4.500
Distortional Buckling Moment: Mnd (in-k)	3.710

Note 1. Tested values

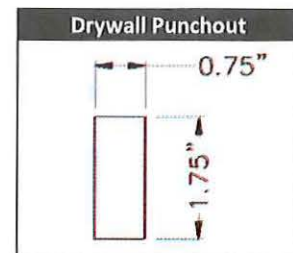
LIMITING HEIGHTS - COMPOSITE (ft-in)

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	17-11	14-10	13-2	15-8	13-0	11-6	14-3	11-10	10-5
16	16-4	13-6	12-0	14-3	11-10	10-5	12-11	10-9	9-4
24	14-3	11-10	10-5	12-5	10-4	8-9	11-3	9-2	--

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

2.3 A - Embossed Track -
See letter from manufacturer
and engineer.

PRODUCT NAME: 250VT125-20

MARINO\WARE PART # 212VT20



PROPERTIES:

A. Web (in)	2-1/2	Yield Strength Fy (KSI)	50
B. Leg (in)	1-1/4	Design Thickness (in)	0.0205
Mils	20	Minimum Thickness (in)	0.0195
Finish	G40	Gauge EQ	20

09.22.16 Non-Structural Metal Stud

Complies ASTM C754

IPERTRACK

SECTION PROPERTIES

GROSS SECTION PROPERTIES

Weight of Member: (lb/ft)	0.350
Cross Sectional Area: A (in ²)	0.103
Moment of Inertia: Ix (in ⁴)	0.114
Section Modulus about the X-axis: Sx (in ³)	0.087
Radius of Gyration: Rx (in)	1.060
Gross Moment of Inertia: Iy (in ⁴)	0.016
Section Modulus about the Y-axis: Sy (in ³)	0.0175
Gross Radius of Gyration: Ry (in)	0.399

EFFECTIVE SECTION PROPERTIES

Moment of Inertia-Deflection: Ixd (in ⁴)	0.081
Section Modulus: Sxe (in ³)	0.045
Allowable Moment: Ma (in-k)	1.330

TORSIONAL PROPERTIES

Shear Center to Centroid on Principal X-axis: Xo (in)	-0.766
St. Venant Torsional Constant: Jx10 ³ (in ⁴)	0.0144
Torsional Warping Constant: Cw (in ⁶)	0.020
Radius of Gyration on the Centroid Principal axis: Ro (in)	1.360
Torsional Flexural Constant: $\beta = 1 - (x_o/R_o)^2$	0.685

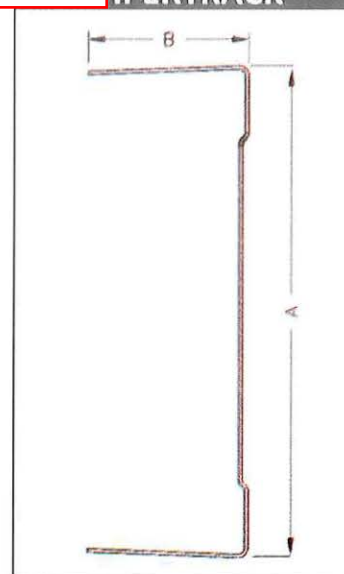
CODES & STANDARDS

- 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

GREEN INFO LEED® v3

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

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- 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%



MARINO\WARE

www.marinoware.com

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

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Marino\WARE® Product Submittal Data

2.3 A - Embossed Stud -
See letter from manufacturer
and engineer.

PRODUCT NAME: 362VS125-20

MARINO\WARE PART # 358VS20

PROPERTIES:

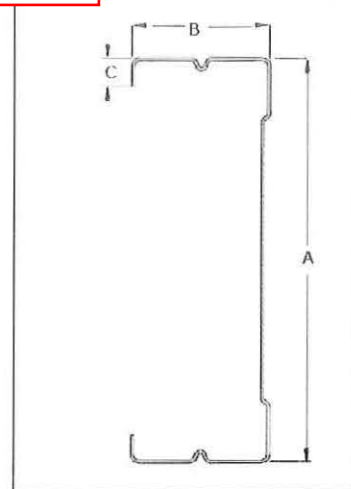
A. Web (in)	3-5/8"	Yield Strength Fy (KSI)	57
B. Flange (in)	1-1/4"	Design Thickness (in)	0.0205
C. Lip (in)	1/4"	Minimum Thickness (in)	0.0195
Mils	20	Gauge EQ	20 DW
Finish	G40		

09.22.16 Non-Structural Metal Stud



Complies ASTM C754

VIPERSTUD



SECTION PROPERTIES

GROSS SECTION PROPERTIES

Weight of Member: (lb/ft)	0.450
Cross Sectional Area: A (in ²)	0.134
Moment of Inertia: Ix (in ⁴)	0.261
Radius of Gyration: Rx (in)	1.400
Gross Moment of Inertia: Iy (in ⁴)	0.025
Gross Radius of Gyration: Ry (in)	0.433

EFFECTIVE SECTION PROPERTIES¹

Moment of Inertia-Deflection: Ix (in ⁴)	0.298
Section Modulus: Sx (in ³)	0.090

MOMENTS¹

Allowable Bending Moment: Ma (in-k)	2.850
Local Buckling Nominal Moment: Mnl (in-k)	6.100
Distortional Buckling Moment: Mnd (in-k)	5.150

Note 1. Tested values

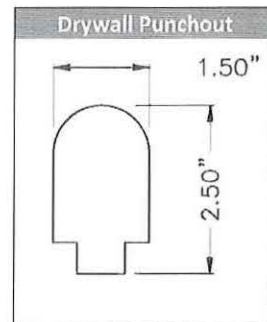
LIMITING HEIGHTS - COMPOSITE (ft-in)

	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	21-10	17-11	15-9	19-1	15-8	13-9	17-4	14-3	12-6
16	19-10	16-4	14-4	17-4	14-3	12-6	15-4	12-11	11-4
24	17-4	14-3	12-6	14-6	12-5	10-11	12-7	11-4	9-11

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:

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- 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%



www.marinoware.com

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Marino\WARE® Product Submittal Data

2.3 A - Embossed Track -
See letter from manufacturer
and engineer.

PRODUCT NAME: 362VT125-20

MARINO\WARE PART # 358VT20



PROPERTIES:

A. Web (in)	3-5/8	Yield Strength Fy (KSI)	50
B. Leg (in)	1-1/4	Design Thickness (in)	0.0205
Mils	20	Minimum Thickness (in)	0.0195
Finish	G40	Gauge EQ	20

09.22.16 Non-Structural Metal Stud

Complies ASTM C754

SECTION PROPERTIES

GROSS SECTION PROPERTIES

Weight of Member: (lb/ft)	0.430
Cross Sectional Area: A (in ²)	0.126
Moment of Inertia: Ix (in ⁴)	0.261
Section Modulus about the X-axis: Sx (in ³)	0.139
Radius of Gyration: Rx (in)	1.440
Gross Moment of Inertia: Iy (in ⁴)	0.018
Section Modulus about the Y-axis: Sy (in ³)	0.0183
Gross Radius of Gyration: Ry (in)	0.380

EFFECTIVE SECTION PROPERTIES

Moment of Inertia-Deflection: Ixd (in ⁴)	0.179
Section Modulus: Sxe (in ³)	0.064
Allowable Moment: Ma (in-k)	1.920

TORSIONAL PROPERTIES

Shear Center to Centroid on Principal X-axis: Xo (in)	-0.663
St. Venant Torsional Constant: Jx10 ³ (in ⁴)	0.0176
Torsional Warping Constant: Cw (in ⁶)	0.046
Radius of Gyration on the Centroid Principal axis: Ro (in)	1.630
Torsional Flexural Constant: $\beta=1-(x_o/R_o)^2$	0.835

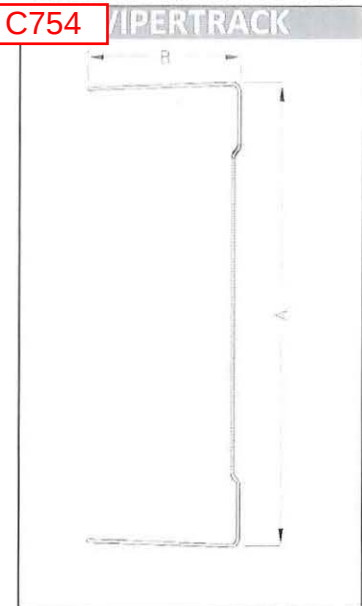
CODES & STANDARDS

- 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

GREEN INFO LEED® v3

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- 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%



www.marinoware.com

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Marino\WARE® Product Submittal Data

2.3 A - Embossed Stud -
See letter from manufacturer
and engineer.

PRODUCT NAME: 600VS125-21

MARINO\WARE PART # 600VS20

PROPERTIES:

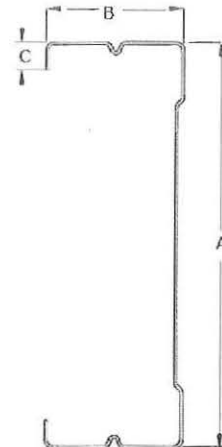
A. Web (in)	6	Yield Strength Fy (KSI)	57
B. Flange (in)	1-1/4"	Design Thickness (in)	0.0220
C. Lip (in)	1/4"	Minimum Thickness (in)	0.0209
Mils	21	Gauge EQ	20 DW
Finish	G40		



09.22.16 Non-Structural Metal Stud

Complies ASTM C754

VIPERSTUD



SECTION PROPERTIES

GROSS SECTION PROPERTIES

Weight of Member: (lb/ft)	0.670
Cross Sectional Area: A (in ²)	0.196
Moment of Inertia: Ix (in ⁴)	0.929
Radius of Gyration: Rx (in)	2.180
Gross Moment of Inertia: Iy (in ⁴)	0.030
Gross Radius of Gyration: Ry (in)	0.394

EFFECTIVE SECTION PROPERTIES¹

Moment of Inertia-Deflection: Ix (in ⁴)	0.869
Section Modulus: Sx (in ³)	0.161

MOMENTS¹

Allowable Bending Moment: Ma (in-k)	5.060
Local Buckling Nominal Moment: Mnl (in-k)	11.20
Distortional Buckling Moment: Mnd (in-k)	9.160

Note 1. Tested values

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	29-1	25-7	22-6	25-10	22-4	19-8	23-8	20-4	17-11
16	26-9	23-3	20-6	23-8	20-4	17-11	21-9	18-6	16-3
24	23-8	20-4	17-11	20-11	17-9	15-7	18-2	16-2	14-2

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

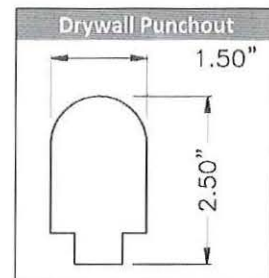
CODES & STANDARDS

- 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

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- 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%



MARINO WARE

www.marinoware.com

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

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Marino\WARE® Product Submittal Data

2.3 A - Embossed Track -
See letter from manufacturer
and engineer.

PRODUCT NAME: 600VT125-21

MARINO\WARE PART # 600VT20

PROPERTIES:

A. Web (in)	6	Yield Strength Fy (KSI)	50
B. Leg (in)	1-1/4	Design Thickness (in)	0.0220
Mils	21	Minimum Thickness (in)	0.0209
Finish	G40	Gauge EQ	20



09.22.16 Non-Structural Metal Stud

Complies ASTM C754

VIPERTRACK

SECTION PROPERTIES

GROSS SECTION PROPERTIES

Weight of Member: (lb/ft)	0.640
Cross Sectional Area: A (in ²)	0.187
Moment of Inertia: Ix (in ⁴)	0.910
Section Modulus about the X-axis: Sx (in ³)	0.297
Radius of Gyration: Rx (in)	2.210
Gross Moment of Inertia: Iy (in ⁴)	0.022
Section Modulus about the Y-axis: Sy (in ³)	0.0206
Gross Radius of Gyration: Ry (in)	0.341

EFFECTIVE SECTION PROPERTIES

Moment of Inertia-Deflection: Ixd (in ⁴)	0.557
Section Modulus: Sxe (in ³)	0.117
Allowable Moment: Ma (in-k)	3.490

TORSIONAL PROPERTIES

Shear Center to Centroid on Principal X-axis: Xo (in)	-0.520
St. Venant Torsional Constant: Jx10 ³ (in ⁴)	0.0302
Torsional Warping Constant: Cw (in ⁶)	0.154
Radius of Gyration on the Centroid Principal axis: Ro (in)	2.290
Torsional Flexural Constant: $\beta=1-(x_o/R_o)^2$	0.949

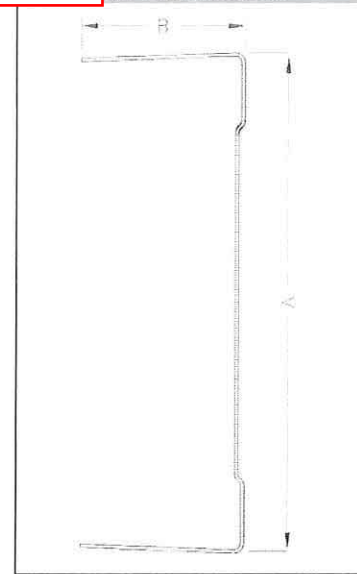
CODES & STANDARDS

- 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

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%



Marino\WARE® Product Submittal Data

PRODUCT NAME: 212CT20

MARINO\WARE PART # 212CT20

2.3

PROPERTIES:

A. (in)	2-1/2	Yield Strength Fy (KSI)	40
B. (in)	1-5/8	Mils	33
C. (in)	1-3/8	Gauge	20
D. (in)	1	Design Thickness (in)	0.0346
Available Finish	G40, G60	Minimum Thickness (in)	0.0329

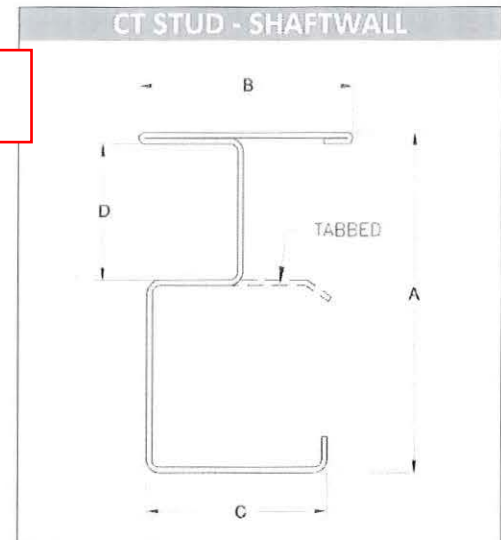
09.22.16 Non Structural Metal Framing

SECTION PROPERTIES

GROSS SECTION PROPERTIES

Cross Sectional Area: A (in ²)	0.228
Weight of Member: (lb/ft)	0.774
Moment of Inertia: Ix (in ⁴)	0.224
Section Modulus: Sx-t (in ³)	0.211
Section Modulus: Sx-b (in ³)	0.156

This is the same as 0.033
(33 mils) per spec



CODES & STANDARDS

- AISI S100 - 2001 with 2004 Supplement compliant
- ASTM C 645 (18 mil - 33 mil) compliant
- Galvanized steel sheet meets ASTM A 1003 & A 653

GREEN INFO LEED® v3

Available 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%



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Marino\WARE® Product Submittal Data

PRODUCT NAME: 400CT20

MARINO\WARE PART # 400CT20

PROPERTIES:

A. (in)	4	Yield Strength Fy (KSI)	40
B. (in)	1-5/8	Mils	33
C. (in)	1-3/8	Gauge	20
D. (in)	1	Design Thickness (in)	0.0346
Available Finish	G40, G60	Minimum Thickness (in)	0.0329

SECTION PROPERTIES

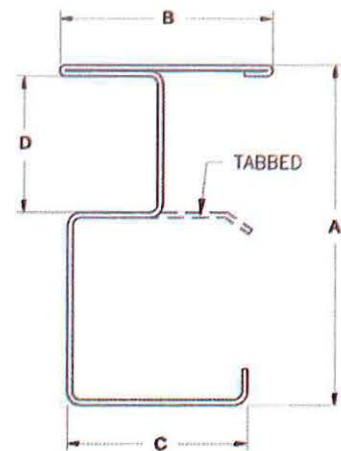
GROSS SECTION PROPERTIES

Cross Sectional Area: A (in ²)	0.276
Weight of Member: (lb/ft)	0.937
Moment of Inertia: Ix (in ⁴)	0.659
Section Modulus: Sx-t (in ³)	0.387
Section Modulus: Sx-b (in ³)	0.287

This is the same as 0.033
(33 mils) per spec

09.22.16 Non Structural Metal Framing

CT STUD - SHAFTWALL



CODES & STANDARDS

- AISI S100 - 2001 with 2004 Supplement compliant
- ASTM C 645 (18 mil - 33 mil) compliant
- Galvanized steel sheet meets ASTM A 1003 & A 653

GREEN INFO LEED® v3

Available 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%



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Marino\WARE® Product Submittal Data

2.3

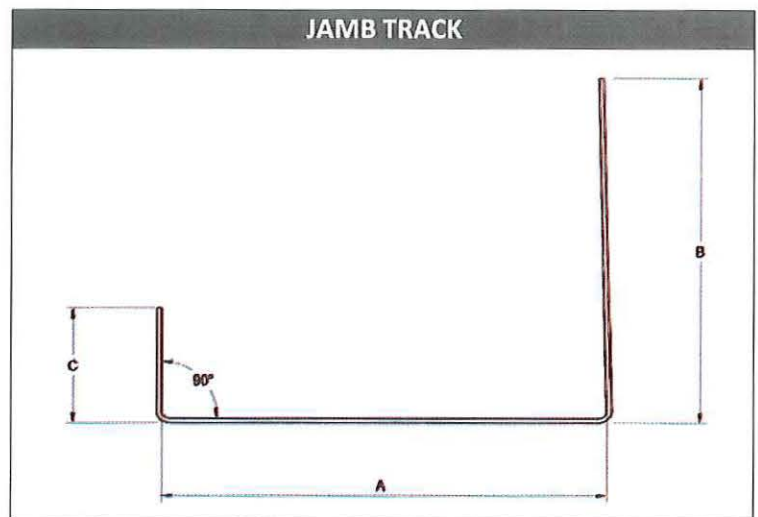
PRODUCT NAME: Jamb Track

MARINO\WARE PART # 400JT20

PROPERTIES:

A. (in)	4	Yield Strength Fy (KSI)	40
B. (in)	3	Mils	33
C. (in)	1	Gauge	20
Available Finish	G40, G60	Design Thickness (in)	0.0346
		Minimum Thickness (in)	0.0329

09.22.16 Non Structural Metal Framing



CODES & STANDARDS

- AISI S100 - 2001 with 2004 Supplement compliant
- ASTM C 645 (18 mil - 33 mil) compliant. ASTM C 955 (43 mil) compliant
- Galvanized steel sheet meets ASTM A 1003 & A 653

GREEN INFO LEED® v3

Available 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%

MARINO + WARE

www.marinoware.com

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Marino\WARE® Product Submittal Data

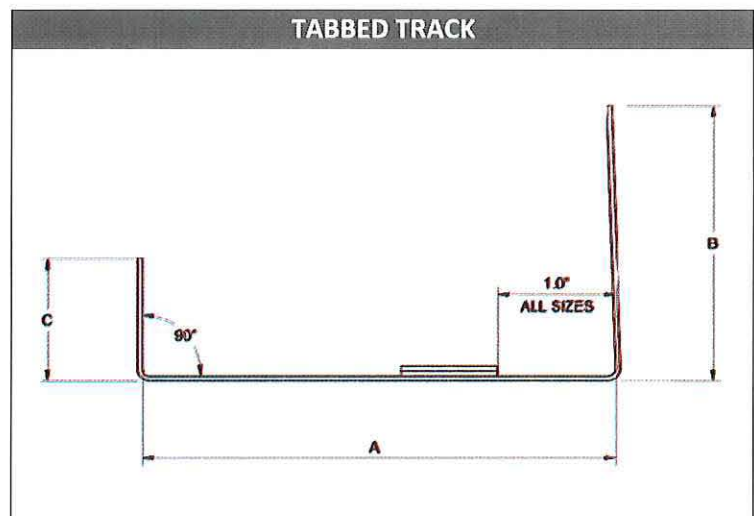
PRODUCT NAME: Tabbed Track

MARINO\WARE PART # 400TT20

PROPERTIES:

A. (in)	4	Yield Strength Fy (KSI)	40
B. (in)	2-1/4	Mils	33
C. (in)	1	Gauge	20
Available Finish	G40, G60	Design Thickness (in)	0.0346
		Minimum Thickness (in)	0.0329

09.22.16 Non Structural Metal Framing



CODES & STANDARDS

- AISI S100 - 2001 with 2004 Supplement compliant
- ASTM C 645 (18 mil - 33 mil) compliant. ASTM C 955 (43 mil) compliant
- Galvanized steel sheet meets ASTM A 1003 & A 653

GREEN INFO LEED® v3

Available 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)
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- Pre Consumer (Post Industrial) Content: 9.4%

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Marino\WARE® Product Submittal Data

PRODUCT NAME: 600CT20

MARINO\WARE PART # 600CT20

PROPERTIES:

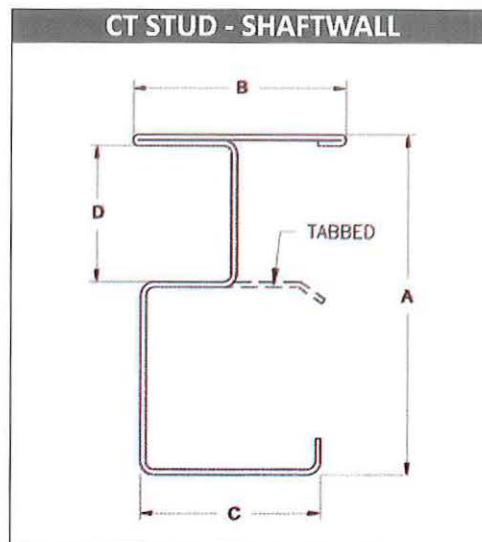
A. (in)	6	Yield Strength Fy (KSI)	40
B. (in)	1-5/8	Mils	33
C. (in)	1-3/8	Gauge	20
D. (in)	1	Design Thickness (in)	0.0346
Available Finish	G40, G60	Minimum Thickness (in)	0.0329

SECTION PROPERTIES

GROSS SECTION PROPERTIES

Cross Sectional Area: A (in ²)	0.340
Weight of Member: (lb/ft)	1.155
Moment of Inertia: Ix (in ⁴)	1.723
Section Modulus: Sx-t (in ³)	0.662
Section Modulus: Sx-b (in ³)	0.508

09.22.16 Non Structural Metal Framing



CODES & STANDARDS

- AISI S100 - 2001 with 2004 Supplement compliant
- ASTM C 645 (18 mil - 33 mil) compliant
- Galvanized steel sheet meets ASTM A 1003 & A 653

GREEN INFO LEED® v3

Available 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)
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- Post Consumer Content: 24.3%
- Pre Consumer (Post Industrial) Content: 9.4%



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Marino\WARE® Product Submittal Data

2.3

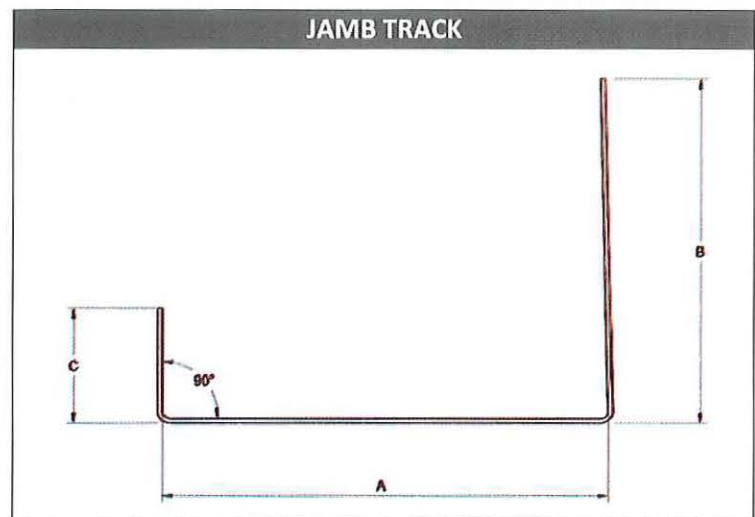
PRODUCT NAME: Jamb Track

MARINO\WARE PART # 600JT20

PROPERTIES:

A. (in)	6	Yield Strength Fy (KSI)	40
B. (in)	3	Mils	33
C. (in)	1	Gauge	20
Available Finish	G40, G60	Design Thickness (in)	0.0346
		Minimum Thickness (in)	0.0329

09.22.16 Non Structural Metal Framing



CODES & STANDARDS

- AISI S100 - 2001 with 2004 Supplement compliant
- ASTM C 645 (18 mil - 33 mil) compliant. ASTM C 955 (43 mil) compliant
- Galvanized steel sheet meets ASTM A 1003 & A 653

GREEN INFO LEED® v3

Available 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%



www.marinoware.com

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 10/1/2011
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SUBMITTAL IDENTIFICATION SHEET

To be completed by Contractor/CM

PROJECT NAME	
ADDRESS	
NUMBER	
OWNER	
ARCHITECT / ENGINEER	
SUBMITTED BY	
CONTRACTOR / CM SUBMITTAL NO.	CANNON DESIGN SUBMITTAL NO.
DRAWING / DETAIL REFERENCE	SPECIFICATION SECTION / PARAGRAPH
MANUFACTURER / SUPPLIER	ITEM / PRODUCT ID
REQUIRED DATE	PRIORITY
CRITICAL	☐

To be completed by Reviewer

CANNON DESIGN SUBMITTAL NUMBER
RECEIVED DATE

- ☐ **A. No Exceptions Taken**
No further review of submittal is required.
- ☐ **B. Make Corrections Noted**
Incorporate corrections in work;
resubmission is not required.
- ☐ **C. Revise and Resubmit**
Revise as noted, and resubmit for review.
- ☐ **D. Rejected**
Submittal is not in compliance with Contract Documents;
provide new submittal.
- ☐ **E. For Record / Information Only**
Submittal was reviewed for Record / Information
purposes only.
- ☐ **F. Not Required for Review**
Submittal is not required by Contract Documents
and has not been reviewed.

Review is for conformance with the design concept of this project and for general compliance with contract documents. Contractor is responsible for quantities, dimensions and compliance with contract documents and for information that pertains to fabrication processes, construction techniques and coordination of this work with all trades which will be affected thereby. This review is null and void if submittal deviates from contract documents and does not indicate or note deviations.

ITEM BEING SUBMITTED (check only one)

- ☐ Shop Drawings
☐ Samples
 (_____ copies)
☐ LEED Submittal
☐ Other
- ☐ Certification /
 Qualifications
☐ Record Documents
☐ Product Data
- ☐ Coordination Drawing
☐ Calculations
☐ Schedules
☐ O&M Manuals

ITEM BEING SUBMITTED FOR (check only one)

- ☐ Action ☐ Information Only ☐ Record

REMARKS OR DEVIATIONS

CONTRACTOR / CM CERTIFICATION
(SUBMITTALS NOT CERTIFIED WILL BE RETURNED WITHOUT REVIEW)



PARIC CORPORATION
SUBMITTAL STAMP

THIS SHOP DRAWING HAS BEEN REVIEWED BY PARIC CORPORATION

Subcontractor remains responsible for dimensions, quantities, coordination with other trades and compliance with contract documents.

Ry:

Devin D. Gates

REVIEWED BY	DATE

A/E COMMENTS

- ☐
- See attached sheet(s) for additional comments

REVIEWED BY	DATE



77 Westport Plaza
Suite 250
St. Louis, MO 63146

TRANSMITTAL

No. 15051-0247

Paric Corporation

PROJECT: 15051-Webster University Interdisciplinary Science Building

DATE: 09/27/2016

TO: Cannon Design
1100 Clark Ave
St Louis MO 63102

RE: Sheetrock Gypsum Liner Panels Product
Data REV1

ATTN: Kelvin Patel

JOB: 15051

WE ARE SENDING:	SUBMITTED FOR:	ACTION TAKEN:
☐ Shop Drawings	☒ Approval	☐ Approved as Submitted
☐ Letter	☐ Your Use	☐ Approved as Noted
☐ Prints	☐ As Requested	☐ Returned After Loan
☐ Change Order	☐ Review and Comment	☐ Resubmit
☐ Plans		☐ Submit
☐ Samples	SENT VIA:	☐ Returned
☐ Specifications	☐ Attached	☐ Returned for Corrections
☒ Other: Product Data	☐ Separate Cover Via:	☐ Due Date:

Item	Package	Code	Rev.	Copies	Date	Description	Status
Submittal		092116-003	2		09/27/2016	Sheetrock Gypsum Liner Panels Product Data REV1	Closed

NOTES:

CC:

Signed: _____
Devin Gates