Spec Section 054000
2.3

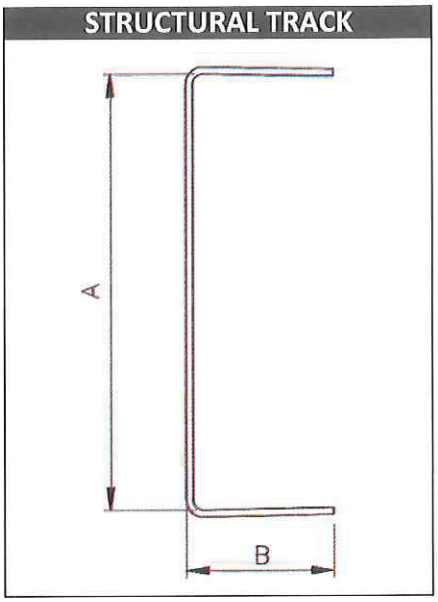
Marino\WARE® Product Submittal Data

PRODUCT NAME: 362T125-54
MARINO\WARE PART # 358ST16

05.40.00 Cold-Formed Metal Framing

PROPERTIES:

A. Web (in)	3-5/8"	**Yield Strength Fy (KSI)**	50
B. Flange (in)	1-1/4"	**Tensile Strength Fu (KSI)**	65
Mils	54	**Design Thickness (in)**	0.0566
Available Finish	G60, G90	**Minimum Thickness (in)**	0.0538
		Gauge	16



SECTION PROPERTIES

GROSS SECTION PROPERTIES

Cross Sectional Area: **A** (in^2)	0.346
Weight of Member: (lb/ft)	1.18
Moment of Inertia: **Ix** (in^4)	0.723
Section Modulus: **Sx** (in^3)	0.378
Radius of Gyration: **Rx** (in)	1.445
Gross Moment of Inertia: **Iy** (in^4)	0.048
Gross Radius of Gyration: **Ry** (in)	0.373

EFFECTIVE SECTION PROPERTIES

Moment of Inertia-Deflection: **Ix** (in^4)	0.678
Section Modulus: **Sx** (in^3)	0.312
Allowable Bending Moment: **Ma** (in-k)	9.340
Allowable strong axis shear away from punch: **Vag** (lb)	3372

TORSIONAL SECTION PROPERTIES

St. Venant Torsional Constant: **Jx1000** (in^4)	0.369
Torsional Warping Constant: **Cw** (in^6)	0.123
Shear Center to Centroid on Principal X-axis: **Xo** (in)	-0.648
Shear Center to Mid-Plane of the Web: **m** (in)	0.404
Radius of Gyration on the Centroid Principal axis: **Ro** (in)	1.627
Torsional Flexural Constant: **β** $[1-(xo/Ro)^2]$	0.841

CODES & STANDARDS

- AISI North American Specification 2001 with 2004 Supplement
- Framing meets ASTM A 1003, A 653, & C 955
- Galvanized steel sheet meets ASTM A 924

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%

This technical information reflects the most current information available and supersedes any and all publications, effective 12/1/2010
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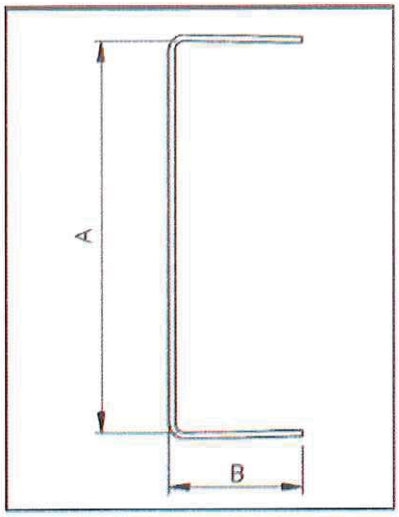
Spec Section 054000
2.3

PRODUCT CODE: 362T125-54

GEOMETRIC PROPERTIES

Web (A):	3.625
Flange (B):	1.250
Available Coating Weight:	CP60 CP90
Yield Strength (KSI):	50
Design Thickness (in):	0.0566
Minimum Thickness (in):	0.0538
Gauge:	16 Ga



GROSS SECTION PROPERTIES

Weight of Member: **Weight (lb/ft)**	1.18
Cross Sectional Area: **Area (in^2)**	0.346
Moment of Inertia about the X-X axis: **I_{xx}(in^4)**	0.723
Radius of Gyration: **R_x(in)**	1.445
Moment of Inertia about the Y-Y axis: **Iyy (in^4)**	0.048
Gross Radius of Gyration: **R_y(in)**	0.373

EFFECTIVE SECTION PROPERTIES

Effective Moment of Inertia about the X-X axis: **Ixd(in^4)**	0.678
Effective Section Modulus about the X-X axis: **Sxe(in^3)**	0.312
Allowable Moment at yield Based on Local Buckling: **M_{a-L}(in-k)**	9.34
Allowable Strong Axis Shear away from Punchouts: **V_{ag}(lb)**	3372

TORSIONAL PROPERTIES

St. Venant Torsional Constant **Jx1000 (in^4)**	0.369
Torsional Warping Constant: **C_w(in^6)**	0.123
Distance from Shear Center to the mid-plane of the Web: **X_o(in)**	-0.648
Distance from Shear Center to the centroid along the Principal X-axis: **m (in)**	0.404
Polar Radius of Gyration about the Centroidal Principal Axis: **R_o(in)**	1.627
Beta: **$1-(X_o/R_o)^2$**	0.841

NOTES

Section property symbols match those utilized in the Telling Product Technical Data Catalogs Except as noted below
- **Sx(C) For shaftwall studs - Section modulus referenced to the 'C' flange**
- **Sx(T) For shaftwall studs - Section modulus referenced to the 'T' flange**
- **Ta For flat strap, allowable tension.**

CODES & STANDARDS

- **AISI North American Specification [NASPEC] S100-07 with 2010 supplement.**
- **IBC 2006, 2009 & 2012 Compliant**
- **Structural framing is produced to meet or exceed ASTM C955, A653, and A1003.**
- **For installation & storage refer to ASTM C1007**
- **Structural Framing Third Party Code Evaluation Reports: ICC-ESR #3016**
- **Member of the Certified Steel Stud Association**

Green Benefits and Recycled Content

LEED® Credit MR 2 – Telling Industries products are manufactured from cold-formed steel. Steel is 100% recyclable, which helps to divert debris from the waste stream.
- **MR Credit 2 - Construction Waste Management (1-2 points)**

LEED® Credit MR 4 – Telling Industries products have a minimum recycled content of 34.9%, of which 24.3% is post-consumer, and 9.4% is pre-consumer.
- **MR Credit 4 - Recycled Content (1-2 points)**

LEED® Credit MR 5 – If you wish to report a higher number for your project or seek Credit MR5 please call 1-866-FRAME-TI (372-6384), or visit www.BuildStrong.com
- **MR Credit 5 – Regional Materials (1-2 points)**

For more information, please contact Telling Industries Technical Services at 1-866-372-6384.

MARINO WARE®

Submittal Information

Job Info:
WEBSTER

Date: 10/07/16

GC:

Re-submittal of Spec 2.4 D 1 per previously rejected section.

Contractor:

Architect:

Distributor:

Marino\WARE®
New Jersey Plant
400 Metuchen Rd.
South Plainfield, NJ 07080
P: 800.627.4661
F: 908.412.1442

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Georgia Plant
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200-McDonough, GA 30253
P: 800.504.8199
F: 678.688.1379

Marino\WARE®
Indiana Plant
4245 Railroad Ave.
East Chicago, IN 46312
P: 219.378.7100
F: 219.378.7106

Marino\WARE®
Texas Plant
10101 Bay Area Blvd.
Pasadena, TX 77507
P: 800.504.8199
F: 281.283.8105

Marino\WARE®
New York Sales Office
134 Broadway, Ste. C
Amityville, NY 11701
P: 800.627.4667
F: 631.691.1492

Marino\WARE®
Engineering Office
200 Business Center Drive
Stockbridge, GA 30281
P: 866-545-1545
F: 770.507.2605

CANNONDESIGN

SUBMITTAL IDENTIFICATION SHEET

To be completed by Contractor/CM

WEBSTER UNIVERSITY ISB
PROJECT NAME

8274 BIG BEND BLVD
ADDRESS

NUMBER

WEBSTER UNIVERSITY
OWNER

CANNON DESIGN
ARCHITECT / ENGINEER

DEVIN D GATES
SUBMITTED BY

054000-007 REV 1	
CONTRACTOR / CM SUBMITTAL NO.	CANNON DESIGN SUBMITTAL NO.
	054000
DRAWING / DETAIL REFERENCE	SPECIFICATION SECTION / PARAGRAPH
MANUFACTURER / SUPPLIER	ITEM / PRODUCT ID
REQUIRED DATE	PRIORITY ○ CRITICAL

ITEM BEING SUBMITTED (check only one)

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

ITEM BEING SUBMITTED FOR (check only one)

◉ Action ○ Information Only ○ Record

REMARKS OR DEVIATIONS

Revised track

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

PARIC

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.

By:
Devin D. Gates

DEVIN D GATES	10/11/16
REVIEWED BY	DATE

To be completed by Reviewer

05 4000-007
CANNON DESIGN SUBMITTAL NUMBER

10/11/16
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.

A/E COMMENTS ○ See attached sheet(s) for additional comments

Kathy Williams	10/12/16
REVIEWED BY	DATE