Elkhart Products Corporation

PRODUCT CERTIFICATION - SOLDER, BRAZED AND THREADED COPPER AND COPPER ALLOY PLUMBING FITTINGS

Elkhart Products Corporation manufactures and/or supplies products which meet the following specifications:

MSS	SP73	Brazing Joints for Copper and Copper Alloy Pressure Fittings
→ MSS	SP104	Wrought Copper Solder Joint Pressure Fittings
MSS	SP106	Cast Copper Alloy Flanges and Flanged Fittings; Class 125, 150 and 300
MSS	SP123	Non-Ferrous Threaded and Solder-Joint Unions for use with Copper Water Tube
MSS	SP109	Welded Fabricated Copper Solder Joint Pressure Fittings
ASME/ANSI	B16.29-2001:	Wrought Copper and Wrought Copper Alloy Solder Joint Drainage Fittings – DWV
ASME/ANSI	B16.18-2001:	Cast Copper Alloy Solder Joint Pressure Fittings
ASME/ANSI	B16.15-1994:	Cast Bronze Threaded Fittings
ASME/ANSI	B16.26-1988:	Cast Copper Alloy Fittings for Flared Copper Tube
ASME/ANSI	B16.23-2002:	Cast Copper Alloy Solder Joint Drainage Fittings – DWV
ASME/ANSI	B16.24-2001:	Bronze Pipe Flanges and Flanged Fittings

EPC's wrot copper solder joint fittings also are manufactured to comply with the material, performance, and installation/joining dimensions of ASME/ANSI B16.22. These fittings are also compliant with the European Union's RoHS (Restrictions of Hazardous Substances) Directive, 2002/95/EC.

The materials used to manufacture these fittings are also in compliance with the following specifications:

Tubular Wrought Copper: ASTM B75 Alloy C12200,	Standard specification for Seamless Copper Tube, or
Products Made From Sheet: ASTM B152 Alloy C11000,	Standard Specification for Copper Sheet, Strip, Plate and Rolled Bar
Cast Products: ASTM B584 Alloy C84400,	Standard Specification for Copper Alloy Sand Castings for General Applications; Federal Specification WW-U-516 For Type III, Class A and B Copper Alloy Unions

ELKHART PRODUCTS COPRORATION
Plumbing Division

Dana Buccicone
Director of Technology

State of Massachusetts product approval
Number P1-0698-46, granted 6/3/98.

Subscribed and sworn to before me

On this 24th day of July 2006

Vicki A. Vergon
NOTARY PUBLIC

VICKI A VERGON
NOTARY PUBLIC STATE OF INDIANA
ST. JOSEPH COUNTY
MY COMMISSION EXP. FEB 28 2007

1255 Oak Street • PO Box 1608 • Elkhart, Indiana 46515 • Tel 574/264-3181 • Fax 574/264-4835
www.ElkhartProducts.com

an Aalberts industries company

WM TAO & ASSOCIATES
CONSULTING ENGINEERS

Shop Drawing Submittal Review

Transmitted To: Cannon Design

Date: October 11, 2016

Attention: **stl-cac@cannondesign.com**

Contact Person / WTA Field Inspector: Patrick Garner

Project Name: Webster University-**ISB**

Reviewed by: Mike Whitworth (WES)

Project No. WT 14127.01
WES 607

[ ] UPS [ ] Courier [X] **Email**

Copies	No.	Description
1 PDF	221116P01A	(Submittal No.'s) -
		(Cannon #221116-001) – (Paric #15051-0257) – (WES #607)
		• **Domestic Water Piping Product Data REV 1 - Resubmittal**

*Remarks: See Submittal Review from Webb Enginnering.

c: **Kelvin Patel**
Kpatel@cannondesign.com

[X] ***Reviewed**

[X] ***No Exceptions Taken**

[ ]

[X] ***Amend and Resubmit**

Corrections or comments made on shop drawings during this review do not relieve contractor from compliance with requirements of drawings and specifications. This check is only for review of general conformance with the design concept of project and general compliance with information given in contract documents. Contractor is responsible for: confirming and correlating all quantities and dimensions; selecting fabrication processes and techniques of construction; coordinating his work with that of all other trades; and performing his work in a safe and satisfactory manner.

WEBB
ENGINEERING
SERVICES INC.

1400 S. 3rd Street, Suite 201
St. Louis, Missouri 63104
Phone: (314) 588-0600
Fax: (314) 588-0604

Letter of Transmittal

To: wtashop@wmtao.com

From: Mike Whitworth

Date: October 8, 2016

Re: Webster University ISB

WES No: 607

☐ For your Files ☐ For Review ☐ Please Comment ☐ Please Reply

Item No.	Description	No. of Copies	Date
1	Shop Drawing Review – Resubmittal 22 1116 Domestic Water Piping	1	10-10-2016

•Signature: Mike Whitworth

WES
WEBB ENGINEERING SERVICES INC.
1400 S. 3rd Street, Suite 201 • St. Louis, Missouri 63104 • 314.588.0600 • *fax* 314.588.0604
www.webb-engineering.com

The review of this submittal is limited to the general conformance with the designated design concept and intent of this project and with the general compliance of the information provided in the contract documents. All comments, remarks and notations made on the submittal(s) as a result of this review do not relieve the contractor from full compliance with requirements of the contract documents. Approval for a specific item shall not include approval of an assembly of which the item is not a component. The contractor is solely responsible for rough-in and installation confirming and correlating all quantities and dimensions; selecting fabrication processes and techniques of construction; coordination of this work with that of other trades on this project; and in a safe and satisfactory manner. All work shall be installed in full compliance with the manufacturer's recommendation, Federal, State and Local rules and regulation and the Authority Having Jurisdiction (AHJ) and applicable adopted codes and standards.

PROJECT NAME: Webster University ISB
LOCATION: St. Louis Missouri
CLIENT PROJ. No.: N/A
WES PROJ. No.: 607
SPEC SECTION: 22 1116 Domestic Water Piping
SUBMITTAL ITEM:: See Below -

CONTRACTOR: Deluca Plumbing, LLC.
CTR. SUBMITTAL # 22 1116-01R (RESUBMITTA)L
SUBMITTAL DATE: August 31, 2016
DATE RECEIVED: October 04, 2016
RECEIVED VIA: E-Mail
RECEIVED FROM: WTA
DATE RETURNED: OCTOBER 08, 2016
RETURNED VIA: E-MAIL
RETRURNED TO: WTASHOP@WMTAO.COM

STATUS KEY:

NO EXCEPTION TAKEN
MAKE CORRECTIONS NOTED, NO RESUBMITTAL:
AMEND AND RESUBMIT
REJECTED, SEE REMARKS:
REVIEWED ONLY

NEC	MCN	AAR	REJ	REV	ITEM	REMARKS
This resubmittal is the same as what was reviewed and commented on prior, without addressing the comments on that submittal review.						
X					Copper Tubing Mueller Industries, Inc. Type 'L' Copper	
X					Copper Fittings – 2" and smaller Elkhart Products Corp. Wrought Copper Solder Joint	
		X			Fabricated Flange Pipes U.S. Pipe Fabrication, LLC	1. Type and size not indicated on submittal. Mark on the submittal page the type/style that is intended for this project.
		X			Wheatland Tube Co. Hot Dipped Galvanized Interior Combined Domestic Water/Fire Service	1. Submittal does not address service pipe size. The submittal data sheet does not show piping above 4 inch. The combination service size is 8". Submit a data sheet that covers service pipe size.
X					Grooved End Fittings Victaulic Cat. 07.01, Pgs 1, 2 3	
X					Rigid Coupling Victaulic Style 107N Cat. 06.023, Pgs 1 ,2	

REVIEWED BY: Michael R. Whitworth DATE: October 08, 2016

THESE COMMENTS ARE TO BE ATTACHED TO ALL COPIES OF THE SHOP DRAWING REFERENCED ABOVE.

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

Joe Voypick
SUBMITTED BY

221116-01
CONTRACTOR / CM SUBMITTAL NO.

CANNON DESIGN SUBMITTAL NO.

DRAWING / DETAIL REFERENCE

221116
SPECIFICATION SECTION / PARAGRAPH

DeLuca Plumbing
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

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

Joe Voypick
REVIEWED BY

9/30/16
DATE

To be completed by Reviewer

22 1116-001
CANNON DESIGN SUBMITTAL NUMBER

10/3/16
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

REVIEWED BY

DATE

77 Westport Plaza
Suite 250
St. Louis, MO 63146

TRANSMITTAL

No. 15051-0257

Paric Corporation

PROJECT: 15051-Webster University Interdisciplinary Science Building

DATE: 09/30/2016

TO: Cannon Design
1100 Clark Ave
St Louis MO 63102

RE: Domestic water piping product data REV 1

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: 08/26/2016

Item	*Package*	*Code*	*Rev.*	*Copies*	*Date*	*Description*	*Status*
Submittal		221116-001	2		09/30/2016	Domestic water piping product data REV 1	Submitted

NOTES:

CC:

Signed: _____

Devin Gates

Shop Drawing Submittal

Project Name: **WEBSTER ISB**

Specification # **221116-01**R

Specification Description: Domestic Water Piping

Schedule
- Ductile Iron from 5' out through Foundation Wall - 8"
- Grooved Galvanized Pipe (combined Fire / Water Inside Building) - 8"
- Copper w/ Sweat Fittings (2" and Smaller)
- Grooved Copper with Victaulic Fittings (2.5" and Larger)

Date: 08-31-16

General Contractor / Construction Manager: Paric

Contractor: DeLuca Plumbing, L.L.C.
8465 Delport Drive
St. Louis, MO 63114

Supplier: Various

Manufacturer: Various

Reviewed & Approved by: DeLuca Plumbing 08-31-16

Action: Forward to GC/CM for Review & Approval

EoR Comments in Blue Text and Clouds