



TEST REPORT

Send To: 72320
VIEGA N.A., INC.
PLUMBING AND HEATING SYSTEMS
ENNESTER WEG 9
ATTENDORN 57439
GERMANY
Attn: MR. ANDREW GRANZOW

Customer: 72320
VIEGA N.A., INC.
PLUMBING AND HEATING SYSTEMS
ENNESTER WEG 9
ATTENDORN 57439
GERMANY
Attn: MR. ANDREW GRANZOW

Plant: 72322
VIEGA GMBH & CO. KG
PRODUCTION FACILITY ATTENDORN
ENNESTER WEG 9
ATTENDORN 57439
GERMANY
Attn: MRS. FIONA HEINRICHS

Sample Description: ProPress XL-C
Test Type: QQ - Qualification Testing

Thank you for having your product tested by NSF.

The enclosed report details the result of the testing performed on your product. Your program representative will be contacting you in the near future if there are any remaining issues concerning the status of this product.

Please do not hesitate to contact us if you have any immediate questions pertaining to your product.

Reviewer: Atabek Ciechanowski

Status: **Pass**

Atabek Ciechanowski - Manager, Engineering Laboratory

CC: Program: 130 - Mechanical Plumbing Products (including Section 9 of Standard 61)
Program Rep: MARK MAPILI
Region: 02 - Europe
PA Project: 227078

General Information

Standard: OMP - MECHANICAL PLUMBING PRODUCTS PROGRAM

Family Code AA

Performance Standard IAPMO PS-117

Trade Designation Viega ProPress

Sample Id: S-0000152314

Description: ProPress XL-C

Sampled Date: 03/24/2005

Received Date: 03/25/2005

Testing Parameter	Result	Units
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Engineering Lab

Unrestrained Pressure Test - 73 degrees F

Pressure:	600	psi
Duration:	4	hours
Temperature:	68	degrees F
Slippage:	0.014	inches
Required test pressure:	600	psi
Actual test pressure:	600	psi
Required test duration:	48	hours
Actual test duration:	48	hours
Required max. slippage:	0.157	inches
Actual max. slippage:	0.014	inches
Required leakage or damage:	None	
Actual leakage or damage:	No	
Unrestrained Pressure Test-73 degrees F	Pass	

Unrestrained Pressure Test - 210 degrees F

Pressure:	600	psi
Duration:	48	hours
Temperature:	208	degrees F
Slippage:	0.020	inches
Required test pressure:	600	psi
Actual test pressure:	600	psi
Required test duration:	48	hours
Actual test duration:	48	hours
Required max. slippage:	0.154	inches
Actual max. slippage:	0.020	inches
Required leakage or damage:	None	
Actual leakage or damage:	No	
Unrestrained Pressure Test-210 degrees F	Pass	

Static Torsion Test

Torque applied:	177	ft.*lbf.
Pressure:	400	psi
Duration:	48	hours
Temperature:	68	degrees F
Required torque:	177	ft.*lbf.
Actual torque:	177	ft.*lbf.
Required pressure:	400	psi
Actual pressure:	400	psi
Required duration:	48	hours
Actual duration:	48	hours
Evidence of cracking or slippage:	None	
Actual cracking or slippage:	No	

Sample Id: S-0000152314

Testing Parameter	Result	Units
Engineering Lab (Cont'd)		
Static Torsion Test	Pass	
Bending Test		
Load applied:	240	lbs.
Pressure:	400	psi
Duration:	48	hours
Temperature:	68	degrees F
Required load:	240	lbs.
Actual load:	240	lbs.
Required pressure:	400	psi
Actual pressure:	400	psi
Required duration:	48	hours
Actual duration:	48	hours
Evidence of leakage:	None	
Actual leakage:	No	
Bending Test	Pass	
Vacuum Test		
Initial vacuum:	24.5	inch of Hg
Final vacuum:	24.5	inch of Hg
Duration:	1	hours
Temperature:	68	degrees F
Required vacuum:	24.5	inch of Hg
Actual vacuum:	24.5	inch of Hg
Required test duration:	1	hours
Actual test duration:	1	hours
Required vacuum drop > 0.5 inch of Hg:	No	
Actual vacuum drop > 0.5 inch of Hg:	No	
Vacuum Test	Pass	
Water Hammer Test		
Frequency:	0.5	Hz
Initial pressure:	36.5	psi
Surge pressure:	420.5	psi
Cycles completed:	10000	cycles
Required cycles:	10000	cycles
Actual cycles:	10000	cycles
Required surge pressure:	400	psi
Actual surge pressure:	420.5	psi
Required leakage or damage:	None	
Actual leakage or damage:	No	
Water Hammer Test	Pass	
Vibration Test		
Frequency:	25	Hz
Deflection:	0.065	inches
Pressure:	400	psi
Duration:	48	hours
Required number of cycles:	1000000	cycles
Actual number of cycles:	1000000	cycles
Required pressure:	400	psi
Actual pressure:	400	psi
Required duration:	48	hours
Actual duration:	48	hours

Sample Id: S-0000152314

Testing Parameter	Result	Units
Engineering Lab (Cont'd)		
Evidence of leakage:	None	
Actual leakage:	No	
Vibration Test	Pass	
Spalling Test		
Cold water cycle temperature:	68	degrees F
Hot water cycle temperature:	208	degrees F
Cold water pressure:	145	psi
Hot water pressure:	145	psi
Time at cold temperature:	15	min.
Time at hot temperature:	15	min.
Cycle change time:	1.0	min.
Required number of cycles:	5000	
Actual number of cycles:	5000	cycles
Required leakage:	None	
Actual leakage:	No	
Spalling Test	Pass	
Dynamic Torsion Test		
Angle of torsion:	5	degree
Temperature:	73	degrees F
Pressure:	400	psi
Duration:	48	hours
Required number of cycles:	10000	
Actual number of cycles:	10000	
Required pressure:	400	psi
Actual pressure:	400	psi
Required duration:	48	hours
Actual duration:	48	hours
Evidence of leakage:	None	
Actual leakage:	No	
Dynamic Torsion Test	Pass	
Dynamic Torsion Test		
Angle of torsion:	5	degree
Temperature:	208	degrees F
Pressure:	400	psi
Duration:	48	hours
Required number of cycles:	10000	
Actual number of cycles:	10000	
Required pressure:	400	psi
Actual pressure:	400	psi
Required duration:	48	hours
Actual duration:	48	hours
Evidence of leakage:	None	
Actual leakage:	No	
Dynamic Torsion Test	Pass	

Testing Laboratories:

	<u>Id</u>	<u>Address</u>
All work performed at: →	WT_TST	Witness Testing The testing reported herein occurred at an offsite location and was witnessed by NSF International staff.

References to Testing Procedures:

<u>NSF Reference</u>	<u>Parameter / Test Description</u>
P1066	Unrestrained Pressure Test - 73 degrees F
P1067	Unrestrained Pressure Test - 210 degrees F
P1068	Static Torsion Test
P1069	Bending Test
P1070	Vacuum Test
P1071	Water Hammer Test
P1072	Vibration Test
P1073	Spalling Test
P1074	Dynamic Torsion Test



NSF International

Ann Arbor, MI • Sacramento, CA • Washington, D.C. • Brussels, Belgium

**NSF International Report
Page 1 of 3**

NSF International
789 Dixboro Road
P.O. Box 130140
Ann Arbor, MI 48113-0140
Phone: 734-769-8010
Fax: 734-769-0109

Test Date: November 2-10, 1998, for all tests except Spalling Test (section 4.1.8), which was initiated November 9, 1998, and was completed in March, 1999.

Issuance Date: September 23, 1999

Revision Date: N/A

Client: VIEGA
Production Facility Attendorn
Ennester WEG 9
Attendorn 57439
Germany

Source of Test Sample: VIEGA
Production Facility Attendorn
Ennester WEG 9
Attendorn 57439
Germany

IAPMO File Number: None

Product Description: Viega Profipress copper fitting 2 inch CTS

Sample submitted by:

☒ Client *
☐ IAPMO R & T Inspector (See Annex B for "Instruction for Testing" form)

All portions of each test performed were under continuous and direct supervision of NSF International.

Concluding Summary:

Viega Profipress copper fitting 2 inch CTS complied with IAPMO IGC 137-99.

Testing Conducted By:

Lab Staff: Alte C. L. L. Date: 6/12/00
Supervisor: J. P. L. Date: 6/12/00

P.O. Box 130140 Ann Arbor, Michigan 48113-0140 USA
734-769-8010 1-800-NSF-MARK Fax 734-769-0109
E-Mail: info@nsf.org Web: <http://www.nsf.org>

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Scope of Testing: Evaluation and testing were conducted to determine compliance of the Viega Profipress copper fitting ½ inch CTS against the requirements of IAPMO IGC 137-99.

Primary and Subsequent Standards: IAPMO IGC 137-99

Sections

IAPMO IGC 137-99:

<u>Parameter</u>	<u>Section</u>	<u>Pass/Fail</u>
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Material Requirements	Section 3	Pass
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Section 3.1

The copper fitting complies with the material requirements of ANSI/ASME B16.22 and the chemical composition requirements of ASTM B 88 (Annex 1).

Section 3.2

The o-ring complies with the requirements of NSF 61 (Annex 2).

Section 3.3

The copper fitting complies with the requirements of NSF 61 (Annex 2).

Unrestrained Hydrostatic Pressure Test at 68°F	Section 4.1.1	Pass
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Test assemblies fabricated with type K, L and M tubing (hard and annealed) were filled with water and a hydrostatic pressure of 600 psi was applied at a temperature of 68°F for a period of 48 hours. No slippage was observed after the first hour and no leakage occurred during the testing period.

Unrestrained Hydrostatic Pressure Test at 210°F	Section 4.1.2	Pass
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Test assemblies fabricated respectively with type K, L and M tubing (hard and annealed) were filled with water and a hydrostatic pressure of 600 psi was applied at a temperature of 210°F for a period of 48 hours. No slippage was observed after the first hour and no leakage was detected.

Static Torsion Test	Section 4.1.3	Pass
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Test assemblies fabricated respectively with type K, L and M tubing (hard and annealed) were subjected to a torsion of 18 ft-lbf. After application of the torsion, a hydrostatic pressure of 400 psi was applied at a temperature of 68°F for a period of 48 hours. No leakage of the joints was detected.

Bending Test	Section 4.1.4	Pass
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Test assemblies fabricated respectively with type K, L and M hard tubing were subjected to a load of 25 lbs applied to the center of the span at the center of the coupling. A hydrostatic pressure of 400 psi was then applied at a temperature of 68°F for a period of one hour while the load was maintained. No leakage from the fittings was detected.



NSF International

NSF International Report for Job: 503635-01

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NSF International
789 North Dixboro Road
P.O. Box 130140
Ann Arbor, MI 48113-0140
Ph: 734-769-8010
Fx: 734-769-0109

Test Date: October 10, 2001
Issuance Date: October 17, 2001
Re-Issuance Date: N/A
Revision Date: N/A

Client: Viega, Franz Viegner II, Sanitary and Heating Systems
Ennester Weg 9
Attendorf 57439
Germany

Product Manufacturer (if different from client): N/A

Source of Test Sample: Viega, Franz Viegner II, Production Facility Attendorf

IAPMO File Number: None

Product Description: Viega Propress XL 4"

Sample submitted by:

☒ Client *
☐ IAPMO R & T Inspector (See Annex B for "Instruction for Testing" form)

* Sample did not appear to have been tampered with before arriving at NSF International.

All portions of each test performed were under continuous and direct supervision of NSF International.

Concluding Summary:

Viega Propress XL 4" complied with the requirements of IAPMO PS 117-2001.

Testing Conducted By:

Lab Staff: Atabek Ciechanowski Date: 10/26/01
Atabek Ciechanowski - Lead Engineer, Plastics and Plumbing

Supervisor: James Paschal Date: 10/26/01
James Paschal - Director, Physical and Mechanical Testing



Scope of Testing: Evaluation and testing were conducted to determine compliance of the Viega Propress XL 4" against the requirements of the IAPMO PS 117-2001.

Sections

IAPMO PS 117-2001:

<u>Parameter</u>	<u>Section</u>	<u>Pass/Fail</u>
Material Requirements	Section 4	Pass

Section 4.1

The bronze fitting complies with the material requirements of ANSI/ASME B16.22 and the chemical composition requirements of ASTM B88.

Performance Requirements

Bending Test	Section 5.1.4	Pass
Dynamic Torsion Test, 73° F	Section 5.1.9	Pass
Dynamic Torsion Test, 200° F	Section 5.1.9	Pass
Thermocycling Test	Section 5.1.8	Pass
Static Torsion Test	Section 5.1.3	Pass
Unrestrained Pressure Test, 210° F	Section 5.1.2	Pass
Unrestrained Pressure Test, 73° F	Section 5.1.1	Pass
Vacuum Test	Section 5.1.5	Pass
Vibration Test	Section 5.1.7	Pass
Water Hammer Test	Section 5.1.6	Pass

Other Products Included in Test Sample - Description and IAPMO Listing Status: N/A

Off-site Testing Information: All testing witnessed at manufacturer's facility

Test Results: Attached (Report for 503635-01)

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Vacuum Test

Section 4.1.5

Pass

Test assemblies fabricated respectively with type K, L and M tubing (hard and annealed) were subjected to a vacuum of 24.5 inches of mercury at a temperature of 68°F for a period of one hour. No change in vacuum was detected.

Hydraulic Shock Test

Section 4.1.6

Pass

Test assemblies fabricated respectively with type K, L and M tubing (hard and annealed) were subjected to a hydraulic shock of 400 psi for 10,000 cycles at a frequency of 0.5 Hz and a temperature of 68°F. No leakage was observed.

Vibration Test

Section 4.1.7

Pass

Test assemblies fabricated respectively with type K, L and M hard tubing were subjected to 1,000,000 vibration cycles while pressurized at 350 psi. After the vibration cycling, a hydrostatic pressure of 400 psi was applied at a temperature of 68°F for a period of 48 hours. No leakage was detected.

Spalling Test

Section 4.1.8

Pass

The test assembly was subjected to 5,000 cycles following the requirements of section 4.1.8. No leakage was detected.

Dynamic Torsion Test

Section 4.1.9

Pass

Two specimen were fabricated following the requirements of section 4.1.8. One specimen was cycled 10,000 times at a temperature of 68°F and the other specimen at a temperature of 210°F. After completion of the torsion cycles, a hydrostatic pressure of 400 psi was applied at a temperature of 68°F for a period of 48 hours. No leakage was detected.

Markings and Identification

Section 5

Pass

The fitting is marked with manufacturer's name and nominal size.

Other Products Included in Test Sample - Description and IAPMO Listing Status: N/A

Off-site Testing Information: Witness testing was performed at the client's location.



PIPING SPECIFICATION

Rev. A

Date: 5-24-16

No.	PIPE SYSTEM	SIZE	PIPE MATERIAL	CONNECTION TYPE	FITTING MATERIAL	FITTINGS					VALVES							NOTES
						UNIONS	JOINT COMPOUNDS	FLANGES	GASKETS	BOLTS AND NUTS	BALL	BUTTERFLY	CHECK	DIAPHRAGM	GATE	GLOBE	PLUG	
1	CHILLED , HEAT RECOVERY (GLYCOL), AND HEATING WATER	2" and Under	Copper, Type L, (ASTM B88)	Press	Wrought Copper (ASTM B584)	N/A	N/A	N/A	EPDM	N/A	Milwaukee BA-480B		Milwaukee 509-P2		Milwaukee 148	Milwaukee 502	14	
													MilwaukeeSilent Check 548T-P2		Apollo 101TLF-PR (threaded)	Apollo 120TLF-PR (threaded)		
													Apollo 163TLF-PR (threaded)					
		2" and Under	Carbon Steel, Sch 40, Electric Resistance Weld ERW, Black (ASTM A53)	Threaded	Malliable Iron, Class 150 (ASTM A47)	Acceptable	TFE Tape	Class 150; Raised Face; Forged Carbon Steel Threaded (ASTM A105)	N/A	N/A	Milwaukee BA-400s		Milwaukee 509Y					1, 14
													Milwaukee Silent Check 548T		Milwaukee 148	Milwaukee 502		
		2-1/2" to 12"	Carbon Steel, Sch 40, Electric Resistance Weld ERW, Black (ASTM A53)	Butt-Weld	Carbon Steel, Sch 40, Seamless, (ASTM A234-WPB)	Flanges	N/A	Class 150; Raised Face; Forged Carbon Steel Weld Neck (ASTM A105)	Garlock 2900	SAE J429 Grade 5 bolts and SAEJ5 Grade 5 Hex	Milwaukee F201CSN2	Milwaukee CL Series (Import)2-12 Figure# CL223E Lever Handle, Figure# CL323E	Milwaukee 2974A (Domestic) 2-12"		Milwaukee 2885M (Import) 2-12"	Milwaukee 2981A (Domestic) 2-10"	1, 14	
													Milwaukee 2974M (Import);		Milwaukee 2885A (Domestic) 2-12"	Milwaukee 2981M (Import) 2-10"		
												Milwaukee ML Series (Domestic) 2-12 Figure # ML233E Lever Handle; Figure ML333E Gear Operated	Milwaukee Silent Check Fig # 1800			Armstrong Circuit Balancing Valves		
		2-1/2" to 12"	Carbon Steel, Sch 40, Electric Resistance Weld ERW, Black (ASTM A53)	Grooved	Ductile Iron (ASTM A 536)	N/A	N/A	Flange Adapter Available	EPDM	Galvanized Carbon Steel ASTM A 183 and ASTM A 563	Gruvlok Fig # 7500		Milwaukee Silent Check Fig # 1800		Milwaukee 2885M (Import) 2-12"	Milwaukee 2981A (Domestic) 2-10"	1,2, 14	
												Gruvlok Fig # 7700	Milwaukee 2974M (Import);		Milwaukee 2885A (Domestic) 2-12"	Milwaukee 2981M (Import) 2-10"		
													Milwaukee 2974A (Domestic) 2-12"					
												Gruvlok Fig # 7800						
2	COOLING COIL DRAINS	2" and Under	Copper, Type M, (ASTM B88)	Press	Wrought Copper (ASTM B584)	N/A	N/A	N/A	EPDM	N/A	Milwaukee BA-480B		Milwaukee 509-P2		Milwaukee 148	Milwaukee 502	1	
													MilwaukeeSilent Check 548T-P2		Apollo 101TLF-PR (threaded)	Apollo 120TLF-PR (threaded)		
													Apollo 163TLF-PR (threaded)					

4	REFRIGERANT	2" and Under	Copper, Type ARC, (ASTM B280)	Socket, Brazed	Wrought Copper (ASTM B584)	N/A	Stay-Brite Solder	N/A	N/A	N/A								14
5	MAKEUP WATER; CHEMICAL FEED	2" and Under	Copper, Type L, (ASTM B88)	Press	Wrought Copper (ASTM B584)	N/A	N/A	N/A	EPDM	N/A		Milwaukee BA-480B		Milwaukee 509-P2		Milwaukee 148	Milwaukee 502	1,14
														MilwaukeeSilent Check 548T-P2		Apollo 101TLF-PR (threaded)	Apollo 120TLF-PR (threaded)	
														Apollo 163TLF-PR (threaded)				

7	RELIEF VENTS	2" and Under	Carbon Steel, Sch 40, Electric Resistance Weld ERW, Black (ASTM A53)	Threaded	Malliable Iron, Class 150 (ASTM A47)	Acceptable	TFE Tape	Class 150; Raised Face; Forged Carbon Steel Threaded (ASTM A105)	N/A	N/A								1, 15
		2-1/2" to 12"	Carbon Steel, Sch 40, Electric Resistance Weld ERW, Black (ASTM A53)	Butt-Weld	Carbon Steel, Sch 40, Seamless, (ASTM A234-WPB)	Flanges	N/A	Class 150; Raised Face; Forged Carbon Steel Weld Neck (ASTM A105)	Garlock 2900	SAE J429 Grade 5 bolts and SAEJ5 Grade 5 Hex								1, 15
8	NATURAL GAS	2 1/2" and Under	Carbon Steel, Sch 40, Electric Resistance Weld ERW, Black (ASTM A53)	Threaded	Malliable Iron, Class 150 (ASTM A47)	N/A	N/A	Adapter Available	EPDM	SAE J429 Grade 5 bolts and SAEJ5 Grade 5 Hex		Milwaukee 22CSOR-02-LL					Nordstrum 142	1, 16
												Apollo 80-100 Series						
		3" to 12"	Carbon Steel, Sch 40, Electric Resistance Weld ERW, Black (ASTM A53)	Butt-Weld	Carbon Steel, Sch 40, Seamless, (ASTM A234-WPB)	Flanges	N/A	Class 150; Raised Face; Forged Carbon Steel Weld Neck (ASTM A105)	Garlock 5500	SAE J429 Grade 5 bolts and SAEJ5 Grade 5 Hex		PBV C4510-31-2236-FY-NL					Nordstrum 143	1, 16

**NOTES**

1. Use flat faced flanges (ASTM A105) in raised face flange piping systems where required for mating with flat faced valves and equipment.
2. Use grooved valves for piping 6" and less or where required based on cost.
3. Only use AGS Victaulic connections for chilled water piping systems over 14". N/A
4. Use 14" and over pipe size grooved piping systems only in low risk location such as basements. N/A
5. Threaded connections allowed where required for equipment connection.
6. Medical gas fittings will be oxygen cleaned, capped and bagged.
7. The maximum operating pressure for PVC pipe is 140°F. The allowable working pressure is reduced by a de-rating factor above 73°F.
8. The maximum operating pressure for CPVC pipe is 200°F. The allowable working pressure is reduced by a de-rating factor above 73°F.
9. The maximum operating pressure for PP pipe is 200°F. The allowable working pressure is reduced by a de-rating factor above 73°F.
10. The maximum operating pressure for HDPE pipe is 140°F. The allowable working pressure is reduced by a de-rating factor above 73°F.
11. Use Solon washers where thermal cycling is a significant issue.
12. Use fire and smoke rated materials for piping in soffits.
13. Use di-electric nipples Gruvlok Figures 7088, 7089 or 7090 to address galvanic action for dissimilar materials.
14. Use silent check valves in pump discharge applications.
15. Relief valves and rupture discs, pressure regulator vents and gas pressure switch vents shall be piped full size of valve outlet to atmosphere outside building. For multiple valve installations common discharge pipe shall have cross-sectional area equal to the sum of the outlet area of the connected valves.
16. Gas piping installed in mechanical room plenums or in ceiling plenums or where concealed in inaccessible plenums and chases shall have welded joints and fittings and shall not have valves installed within the spaces.

Shop Drawing Submittal Review

Transmitted To: Cannon Design

Date: August 17, 2016

Attention: stl-cac@cannondesign.com

Contact Person / WTA Field Inspector:
Patrick Garner

Project Name: Webster University-**ISB**

Reviewed by: Mark Schaefer

Project No. WT 14127.01

☐

UPS

☐

Courier

☒

Email

Copies	No.	Description
1 PDF	230600M01	(Submittal No.'s) (R&B CxSRC)
		(Cannon #230600-004) - (Paric #15051-0181) – (WES #607)
		• HVAC Piping Product Data

***Submittal Review Comments**

3 inch and larger elbows shall be long radius as specified in section 230600.

c: Kelvin Patel
Kpatel@cannondesign.com

☐ Furnish as Submitted

☒ ***Furnish as Noted**

☐ Rejected

☐ Revise & Resubmit

☐ Reviewed

☐

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.

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 ☐ Certification / Qualifications ☐ Coordination Drawing
☐ Samples ☐ Record Documents ☐ Calculations
 (_____ copies) ☐ Product Data ☐ Schedules
☐ LEED Submittal ☐ 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 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:

By:
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. 15051-0181

Paric Corporation

PROJECT: 15051-Webster University Interdisciplinary Science Building

DATE: 08/09/2016

TO: Cannon Design
1100 Clark Ave
St Louis MO 63102

RE: HVAC Piping Product Data

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:

<i>Item</i>	<i>Package</i>	<i>Code</i>	<i>Rev.</i>	<i>Copies</i>	<i>Date</i>	<i>Description</i>	<i>Status</i>
Submittal		230600-004	1		08/09/2016	HVAC Piping Product Data	Submitted

NOTES:

CC:

Signed: _____
Devin Gates



Mechanical

LETTER OF TRANSMITTAL

TO: Paric Corporation

77 West Port Plaza #250

St. Louis, MO 63146

ATTN: Jason Szachnieski, Devin Gates

DATE: 8/8/16

JOB #: 5768

RE: Webster ISB

We are sending you

☒

Shop drawings

☐ Attached

☐ Prints

☐ Under separate cover

☐ Plans

☐ Samples

☐ Specifications

☐ Copy of letter

☐ Change order

☐ Other

COPIES	DATE	NO.	DESCRIPTION
1	8/8/16	230600	Piping

These are transmitted as checked below:

☐ For signature

☐ For your use

☐ As requested

☐ For bids due

☒

For review and comment

☐ Approved as submitted

☐ Approved as noted

☐ Returned for corrections

☐ Prints returned after loan to us

☐ Other

☐ Resubmit

☒

Submit

☐ Return

☐ copies for approval

☐ copies for distribution

☐ corrected prints

Remarks: Please return by 8/18/16

COPY TO: file

SIGNED:

Alex Chambers



Mechanical

Webster University ISB Webster Groves, MO

Submittal #:

230600

Submittal Description:

Piping

Return By:

8/18/16

Please Note: To avoid scheduling delays and equipment release delays, please submit by the "Return By" date.

CHECKED BY:			
DESIGNER:		ENGINEER:	
☒	NO EXCEPTION TAKEN	☐	MAKE CORRECTIONS NOTED
☐	SUBMIT SPECIFIED ITEM	☐	REVISE AND RESUBMIT
☐	REJECTED	☐	
Checking is only for general conformance with the design concept of the project and general compliance with the information given in the contract documents. Any action shown is subject to the requirements of the plans and specifications. Equipment supplier is responsible for: dimensions which shall be confirmed and correlated at the job site; fabrication processes and techniques of construction; coordination of his work with that of all other trades; and satisfactory performance of his work.			
		Job #:	5768
		Date:	8/8/16
		By:	ARC