

ACTS CONSTRUCTION, LLC TEST REPORT

SCOPE OF WORK

ASTM E283/E283 AIR TESTING ON 7" ICF WALL SYSTEM

REPORT NUMBER

N2900.01-109-44

TEST DATE(S)

01/24/22

ISSUE DATE

02/21/22

RECORD RETENTION END DATE

01/24/26

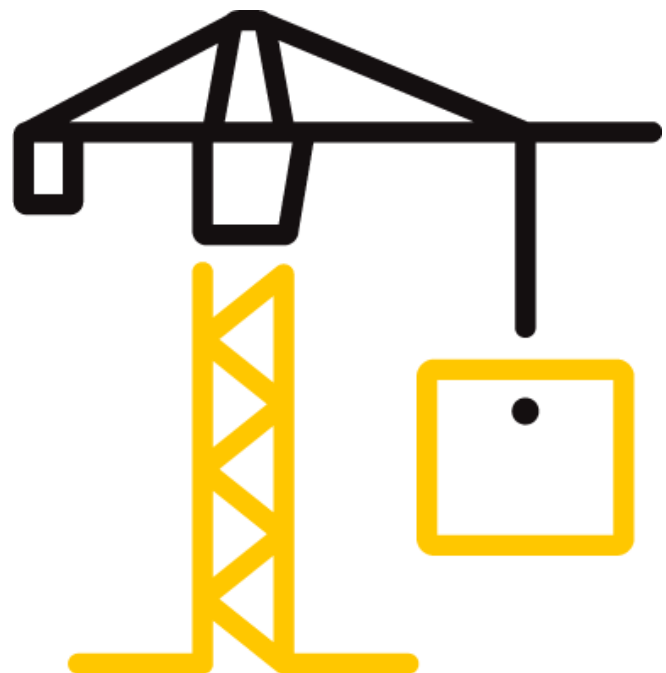
PAGES

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DOCUMENT CONTROL NUMBER

RT-R-AMER-Test-2805 (10/11/21)

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TEST REPORT FOR ACTS CONSTRUCTION, LLC

Report No.: N2900.01-109-44

Date: 02/21/22

REPORT ISSUED TO

ACTS CONSTRUCTION, LLC

7816 113th Avenue

Pleasant Prairie, Wisconsin 53158

SECTION 1

SCOPE

Architectural Testing, Inc. (an Intertek company) dba Intertek Building & Construction (B&C) was contracted by Acts Construction, LLC to perform testing in accordance with ASTM E283/E283 on their 7" ICF Wall System. Results obtained are tested values and were secured by using the designated test method(s). Testing was conducted at Intertek B&C test facility in York, Pennsylvania.

SECTION 2

SUMMARY OF TEST RESULTS

TITLE	RESULTS
Air Infiltration at 75 Pa (1.57 psf)	<0.1 L/s/m ² (<0.01 cfm/ft ²)

For INTERTEK B&C:

COMPLETED BY:	Ken R. Stough	REVIEWED BY:	Vicki L. McElwain
TITLE:	Project Manager – Product Testing	TITLE:	Manager – Product Testing
SIGNATURE:		SIGNATURE:	
DATE:	02/21/22	DATE:	02/21/22

KRS:nls

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SECTION 3

TEST METHOD(S)

The specimen was evaluated in accordance with the following:

ASTM E283/E283-19, *Standard Test Method for Determining Rate of Air Leakage Through Exterior Windows, Skylights, Curtain Walls, and Doors Under Specified Pressure Differences Across the Specimen*

SECTION 4

MATERIAL SOURCE/INSTALLATION

Test specimen(s) was provided by the client. Representative samples of the test specimen(s) will be retained by Intertek B&C for a minimum of four years from the test completion date.

The specimen was installed into a 2x6 Spruce-Pine-Fir wood buck. The rough opening allowed for a 1/4" shim space. The exterior perimeter of the wall was sealed with sealant. Installation of the tested product was performed by the Intertek B&C.

LOCATION	ANCHOR DESCRIPTION	ANCHOR LOCATION
Jambs	1/4" diameter by 3" Tapcon screws	Through the exterior wood wrap, 8" from each end and 8" on center to hold the wrap to the concrete once placed

SECTION 5

EQUIPMENT

Tape Measure Verification: 63788

Weather Station: 62247

Control Panel: 005644

SECTION 6

LIST OF OFFICIAL OBSERVERS

NAME	COMPANY
Michael Matovcik	Intertek B&C
Vicki L. McElwain	Intertek B&C
Ken R. Stough	Intertek B&C

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SECTION 7

TEST SPECIMEN DESCRIPTION

Product Type: 7" ICF Wall System

Product Size(s):

OVERALL AREA: 1.5 m ² (16.0 ft ²)	HEIGHT		WIDTH	
	millimeters	inches	millimeters	inches
Overall size	1219	48	1219	48
Individual ICF form size	406	16	1219	48

Wall Construction: The wall was constructed from three individual ICF forms. Each ICF form consisted of two EPS foam panels that were 16" by 48" by 2" thick with six plastic crossies placed 4" from each end and 8" on center. The forms were adhered together with OSI Quad Tan Foam sealant and assembled to the test specimen size. Once assembled, #4 rebar was placed every 32" on center vertically and horizontally. The cavity was filled with 7-1/4" of concrete (2500 PSI wall mix with a 3/4" aggregate poured at a 6-1/2" slump).

Drainage: No drainage was utilized.

Hardware: No hardware was utilized.

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**SECTION 8
TEST RESULTS**

The temperature during testing was 20°C (68°F). The results are tabulated as follows:

TITLE OF TEST	RESULTS	ALLOWED	NOTE
Air Leakage, Infiltration per ASTM E283 at 75 Pa (1.57 psf)	<0.1 L/s/m ² (<0.01 cfm/ft ²)	Report only	1
Air Leakage, Exfiltration per ASTM E283 at 75 Pa (1.57 psf)	<0.1 L/s/m ² (<0.01 cfm/ft ²)	Report only	1

General Note: All testing was performed in accordance with the referenced standard(s).

Note 1: Test Date 01/24/22 / Time: 3:00 PM

**SECTION 9
CONCLUSION**

This report does not constitute certification of this product nor an opinion or endorsement by this laboratory. Intertek B&C will service this report for the entire test record retention period. The test record retention period ends four years after the test date. Test records, such as detailed drawings, datasheets, representative samples of test specimens, or other pertinent project documentation, will be retained for the entire test record retention period.

Unless differently required, Intertek reports apply the "Simple Acceptance" rule, also called "Shared Risk approach," of ILAC-G8:09/2019, Guidelines on Decision Rules and Statements of Conformity.

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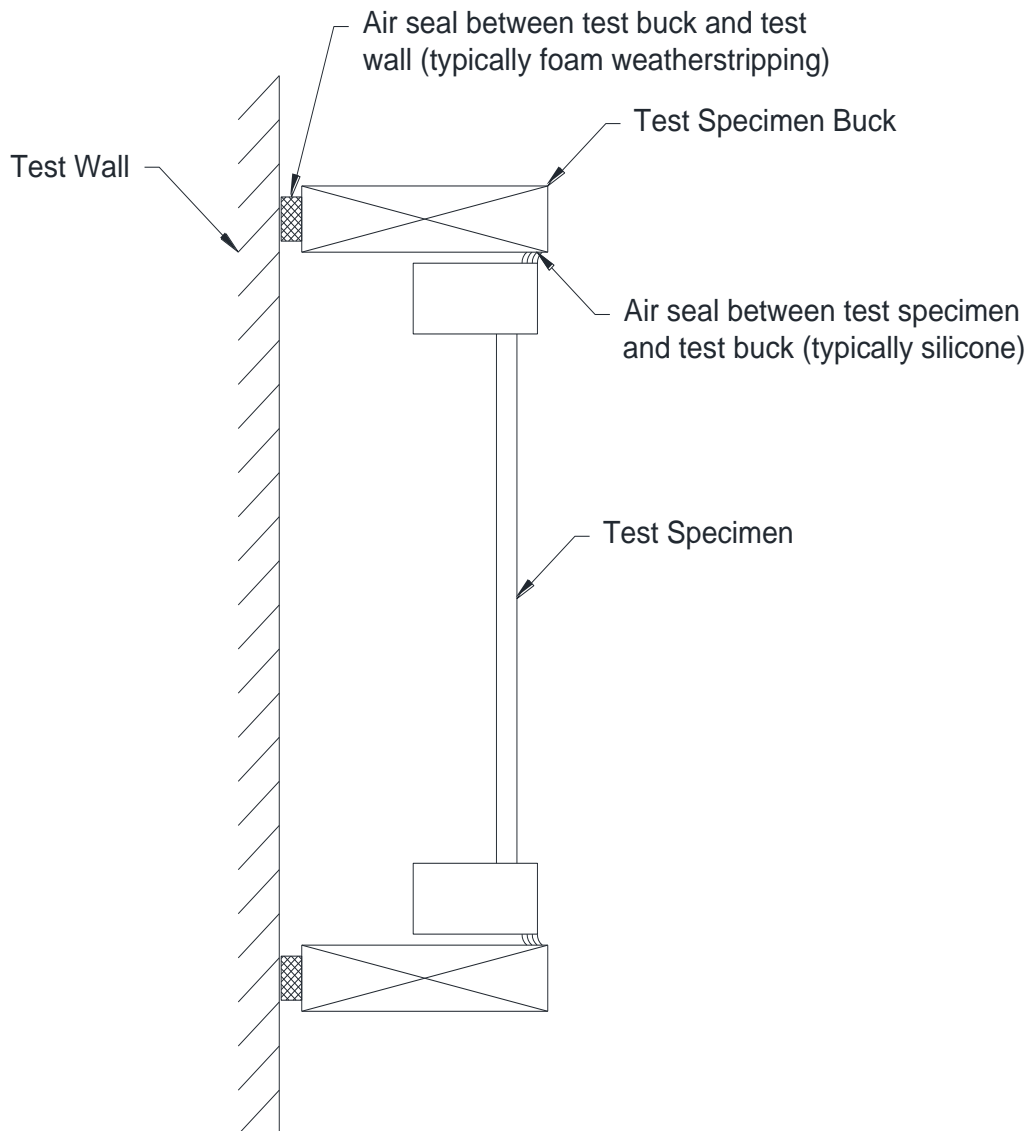
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SECTION 10

LOCATION OF AIR SEAL

The air seal between the test specimen and the test wall is detailed below. The seal is made of foam weatherstripping and is attached to the edge of the test specimen buck. The test specimen buck is placed against the test wall and clamped in place, compressing the weatherstripping and creating a seal.



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SECTION 11

PHOTOGRAPHS

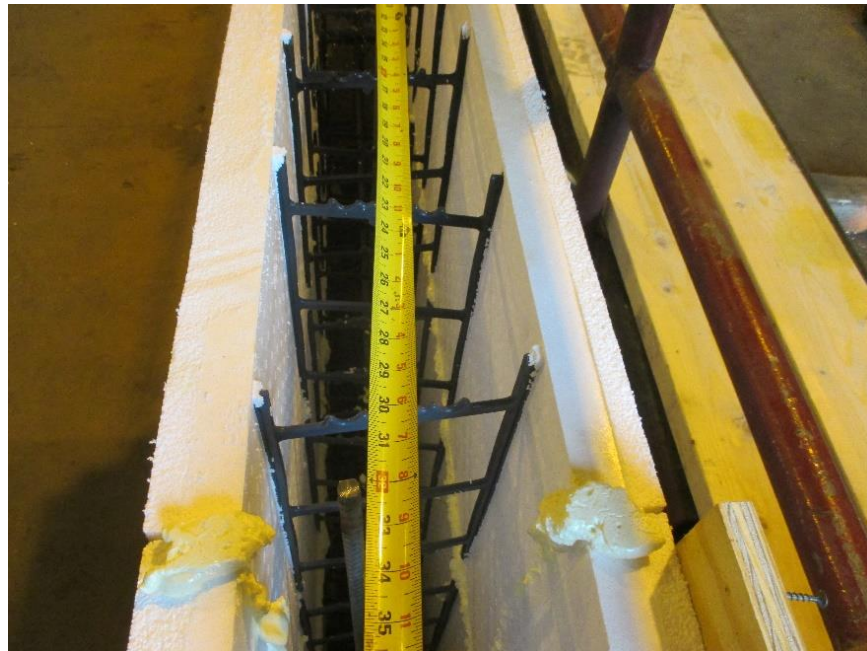


Photo No. 1
View of Inside ICF Wall before Concrete was Placed

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Photo No. 2
View of Inside ICF Wall before Concrete was Placed



Photo No. 3
View of ICF Wall after Concrete was Placed



Total Quality. Assured.

130 Derry Court
York, Pennsylvania 17406

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www.intertek.com/building

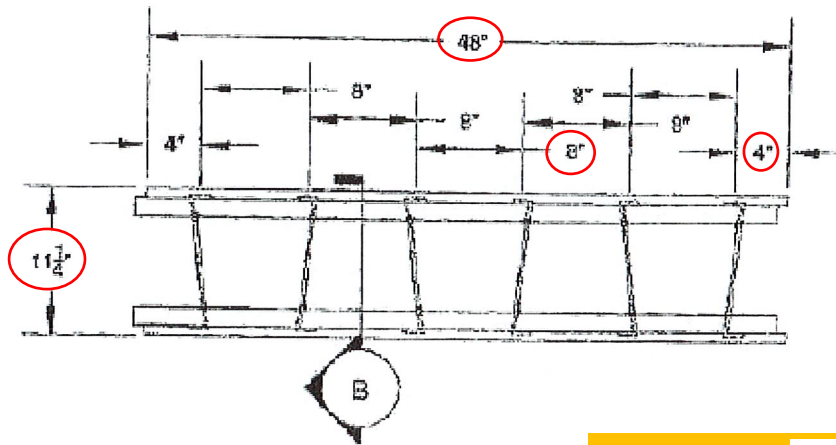
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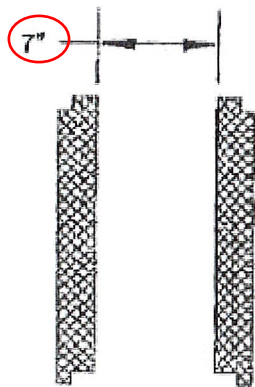
SECTION 12 DRAWINGS

The test specimen drawings have been reviewed by Intertek B&C and are representative of the test specimen(s) reported herein. Test specimen construction was verified by Intertek B&C per the drawings included in this report. Any deviations are documented herein or on the drawings.

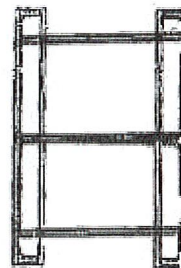


TOP VIEW

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SECTION B



FORM TIE

Fig 2. 7-inch Straight ICF

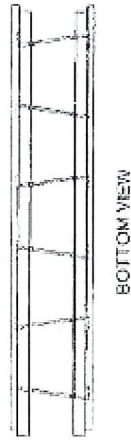
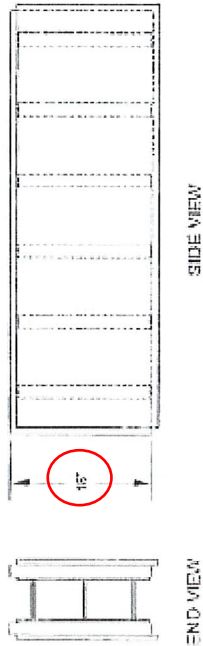


Fig. 1. Crown ICE

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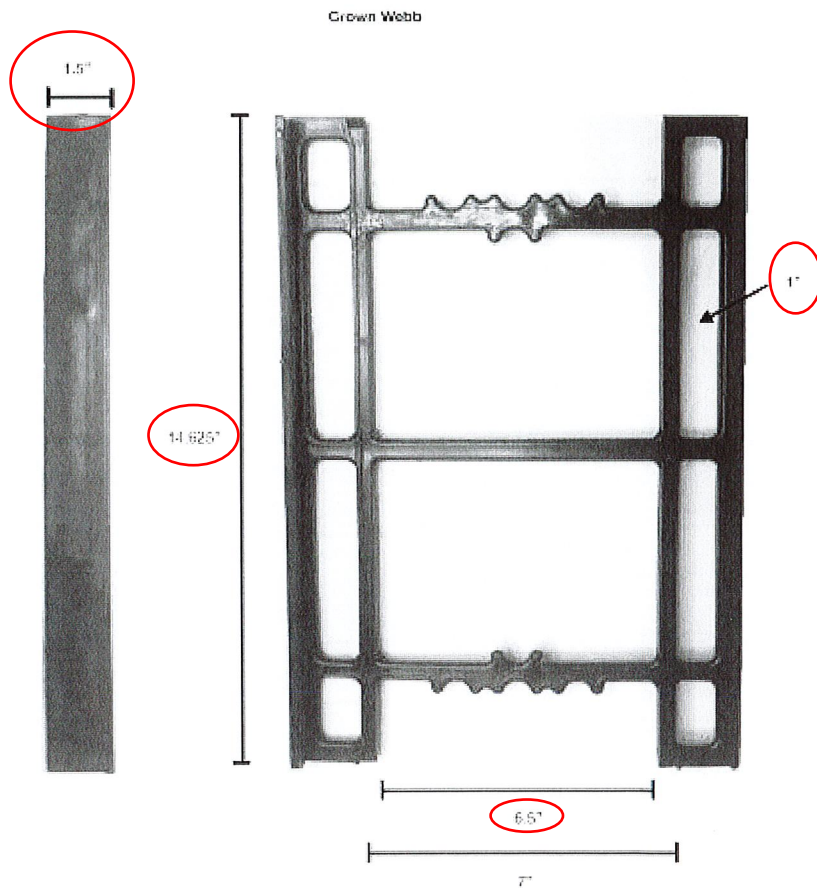


Fig.4 Illustration of Crown 7-inch wall ICF plastic cross ties

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SECTION 13

REVISION LOG

REVISION #	DATE	PAGES	REVISION
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