

# ACTS CONSTRUCTION, LLC TEST REPORT

**SCOPE OF WORK**

ASTM E2634 PENETRATION EVALUATION OF ICF

**REPORT NUMBER**

M7067.01-106-31 R0

**TEST DATE**

10/20/21

**ISSUE DATE**

11/08/21

**RECORD RETENTION END DATE**

10/20/25

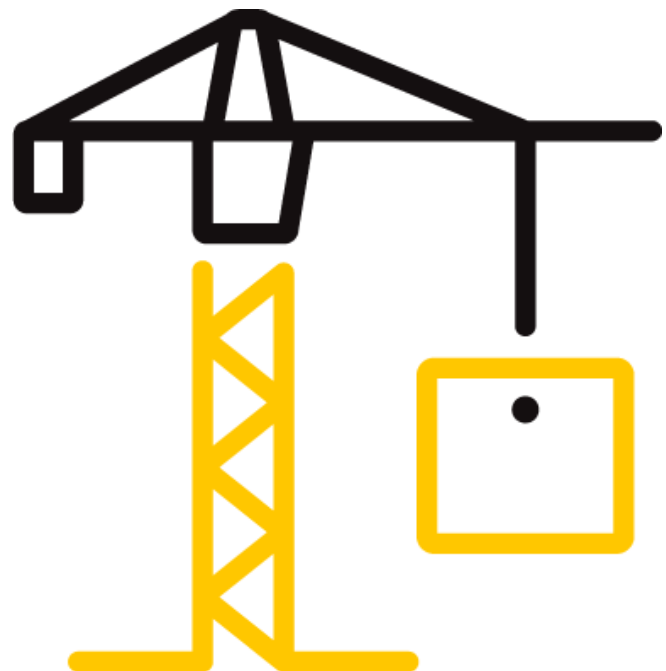
**PAGES**

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**DOCUMENT CONTROL NUMBER**

RT-R-AMER-Test-2827 (09/09/21)

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## TEST REPORT FOR ACTS CONSTRUCTION, LLC

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Date: 11/08/21

### REPORT ISSUED TO

#### ACTS CONSTRUCTION, LLC

7816 113th Avenue

Pleasant Prairie, Wisconsin 53158

### SECTION 1

#### SCOPE

**Product:** ICF

Architectural Testing, Inc. (an Intertek company) dba Intertek Building & Construction (B&C) was contracted by Acts Construction, LLC to evaluate ICF in accordance with ASTM E2634 for Penetration of No. 6 Drywall Screws. Results obtained are tested values and were secured by using the designated test methods. Testing was conducted at the Intertek B&C test facility in York, Pennsylvania.

This report does not constitute certification of this product nor an opinion or endorsement by this laboratory.

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For INTERTEK B&C:

<b>COMPLETED BY:</b>	Joshua A. Kennedy	<b>REVIEWED BY:</b>	Dawn M. Chaney
<b>TITLE:</b>	Technician III Material Laboratory	<b>TITLE:</b>	Technician Team Lead Materials Laboratory
<b>SIGNATURE:</b>		<b>SIGNATURE:</b>	
<b>DATE:</b>	11/08/21	<b>DATE:</b>	11/08/21

JAK:dmc/alts

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### SECTION 2

#### SUMMARY OF TEST RESULTS

PROCEDURE	PROPERTY	REQUIRED	AVERAGE RESULT	OUTCOME
ASTM D2634, ASTM C645	Penetration Time	≤2 seconds	1.24 seconds	PASS

### SECTION 3

#### TEST METHODS

The specimens were evaluated in accordance with the following:

**ASTM E2634-18**, *Standard Specification for Flat Wall Insulating Concrete Form (ICF) Systems*, Section 6.3.2 and Annex 1

**ASTM C645-18**, *Standard Specification for Nonstructural Steel Framing Members*, Section 10

### SECTION 4

#### MATERIAL SOURCE

The ICF material was provided by Acts Construction, LLC. The following was received in acceptable condition on 09/20/21:

- Two nominally 60-inch long by 16-inch wide by 12-inch thick ICF assemblies containing polystyrene foam and ICF cross ties
- One nominally 8-foot long by 2-foot wide by 0.6-inch thick piece of gypsum drywall
- Ten nominally 2-inch long No. 6 coarse thread drywall screws

Refer to the product description photos in Section 10. The materials tested as received. Representative materials/test specimens will be retained by Intertek B&C for a minimum of four years from the test completion date.

### SECTION 5

#### LIST OF OFFICIAL OBSERVERS

NAME	COMPANY
Joshua A. Kennedy	Intertek B&C
Dawn M. Chaney	Intertek B&C

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### SECTION 6

#### TEST PROCEDURE

All conditioning of test specimens and test conditions were at standard laboratory conditions unless otherwise reported. Refer to the test related photos in Section 10. Calibration certificates are available upon request.

#### ASTM D2634, ASTM C645, Penetration

The penetration time for a No. 6 coarse thread drywall screw to drive through four paper joint pieces, 5/8" gypsum drywall, and a polystyrene foam embedded plastic cross tie was determined utilizing a power-driven drill screw gun capable of 4,000 rpm with a depth-sensitive nose piece and a stopwatch (ICN: INT00341). The test was conducted on full-size ICF assemblies with a 6-inch square gypsum board piece and four 2-inch square paper joint tape pieces centered over a cross tie. The two-inch drywall screw was driven under a 30 lb<sub>f</sub> applied load using a Dewalt Model DW272 electric screw gun.

### SECTION 7

#### TEST SPECIMEN DESCRIPTIONS

TEST PROCEDURE	NUMBER OF SPECIMENS	NOMINAL SPECIMEN DIMENSIONS	VISUAL CHARACTERISTICS
ASTM C645	5	6 x 6 x 2 inch	White foam, black ties

### SECTION 8

#### TEST RESULTS

#### ASTM D2634, ASTM C645, Penetration

SPECIMEN	DRIVE TIME (sec)	SPIN OUT	OBSERVATIONS
1	1.44	No	Screw fully seated; all components snug
2	1.07	No	Screw fully seated; all components snug
3	1.00	No	Screw fully seated; all components snug
4	1.09	No	Screw fully seated; all components snug
5	1.60	No	Screw fully seated; all components snug
<b>Average</b>	<b>1.24</b>		

### SECTION 9

#### CONCLUSION

The ICF assemblies met the specified performance requirements listed in ASTM E2634, Section 6.3.2 and ASTM C645, Section 10.

## TEST REPORT FOR ACTS CONSTRUCTION, LLC

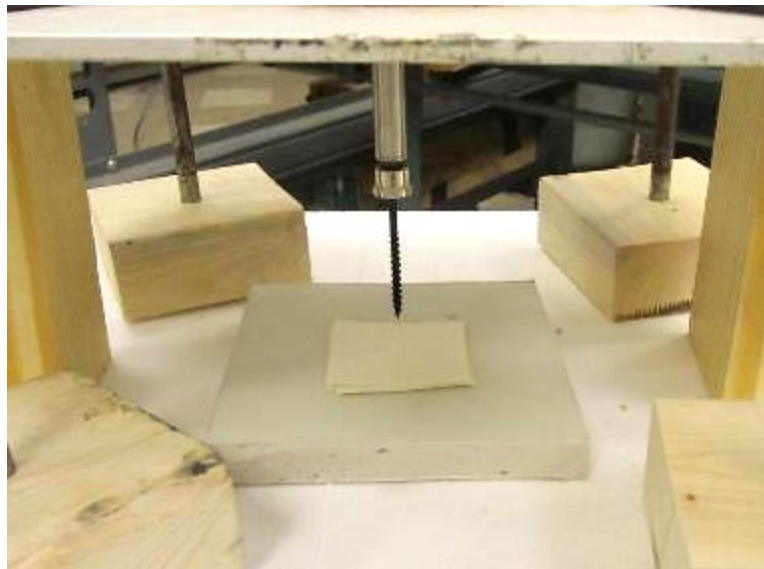
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### SECTION 10 PHOTOGRAPHS



**Photo No. 1**  
**ICF Assemblies, As Received**



**Photo No. 2**  
**Typical Drywall Screw Detail**

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**Photo No. 3**

**Typical Penetration Test Setup Detail**



**Photo No. 4**

**Typical Penetration Post-Test Detail**



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**SECTION 11**

**REVISION LOG**

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