

FORTIFIED ESTATE FORCED ENTRY TEST REPORT

SCOPE OF WORK

SD-STD-01.01 REVISION H TESTING ON FE15 DOOR ASSEMBLIES

REPORT NUMBER

R5588.01-119-12 R1

TEST DATE

08/26/24

ISSUE DATE

10/01/24

REVISION DATE

10/10/24

RECORD RETENTION END DATE

08/26/28

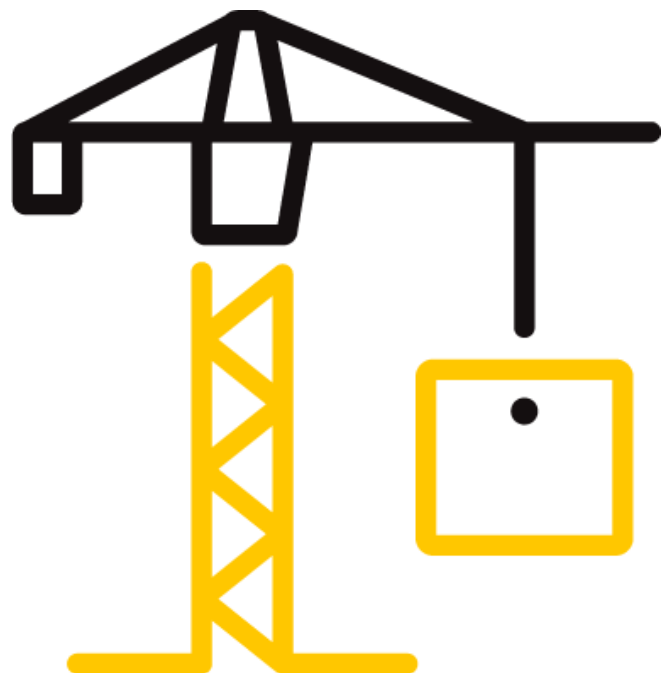
PAGES

18

DOCUMENT CONTROL NUMBER

RT-R-AMER-Test-2801 (05/05/22)

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TEST REPORT FOR FORTIFIED ESTATE

Report No.: R5588.01-119-12 R1

Revision 1: 10/10/24

Date: 10/01/24

REPORT ISSUED TO

FORTIFIED ESTATE

1900 Jay Ell Drive

Richardson, TX 75081

SECTION 1

SCOPE

Architectural Testing, Inc. (an Intertek company) dba Intertek Building & Construction (B&C) was contracted by Fortified Estate to perform testing in accordance with SD-STD-01.01 Revision H on their *FE15* door assemblies. Results obtained are tested values and were secured by using the designated test method. 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. 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.

SECTION 2

SUMMARY OF TEST RESULTS

Product Type: *FE15* Door Assembly

DOOR TYPE	ATTACK LOCATION	DURATION	RESULTS
Inswing	Lock Side	15 minutes	Pass
	Hinge Side		Pass
	Door Panel		Pass
Outswing	Lock Side	30 minutes	Pass
	Hinge Side		Pass
	Door Panel		Pass

Note: The assemblies Forced-Entry resistance level is limited by the lesser duration passed.

For INTERTEK B&C:

COMPLETED BY:	Scott T. Gladfelter	REVIEWED BY:	Virgal T. Mickley, Jr., P.E.
TITLE:	Senior Project Engineer	TITLE:	Senior Staff Engineer
SIGNATURE:		SIGNATURE:	
DATE:	10/10/24	DATE:	10/10/24

STG:vtm/aas/lcr

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TEST METHOD

The test specimen was evaluated for forced entry resistance only in accordance with the following:

SD-STD-01.01 Revision H, *Certification Standard, Forced Entry and Ballistic Resistance of Structural Systems*

Limitations

Use of SD-STD-01.01 Revision H was limited to the forced entry section only.

SECTION 4

MATERIAL SOURCE/INSTALLATION

The test specimens were provided by the client in good condition. Representative samples of the test specimens will be retained by Intertek B&C for a minimum of four years from the test completion date.

The specimens were installed into steel frames fabricated by the client, which were rigidly restrained for testing.

SECTION 5

EQUIPMENT

ASSET #	DESCRIPTION	CAL DUE DATE
INT03746	Stopwatch	08/04/25

SECTION 6

LIST OF OFFICIAL OBSERVERS

NAME	COMPANY
Eva Harris	Fortified Estate
Jon Harris	Fortified Estate
Patrick Fox	Fortified Estate
Scott T. Gladfelter	Intertek B&C

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TEST SPECIMENS

Two door samples measuring 44-5/16 in by 90-1/2 in (outside of frame to outside of frame) were installed in a 4-3/4 in thick steel tube buck measuring 50-3/4 in by 93-1/4 in. Each sample contained one 42-1/2 in by 89-1/8 in door; one installed as an inswing door and one installed as an outswing door. See photographs in Section 10 and drawings in Section 11 to verify the overall dimensions and other pertinent information of the tested product, its components and any constructed assemblies.

SECTION 8

TEST SETUP

The samples were assembled and rigidly mounted for forced entry resistance testing. The resources (tools) from Table II of SD-STD-01.01 Revision H for forced entry testing were provided to test personnel, in addition to a 12 in by 12 in by 8 in rectangular solid representing contraband and a 12 in by 12 in cylinder representing contraband. A tripod-mounted video camera was used to record the entire forced entry test sequence. Unless noted otherwise, six assault team members were utilized for each of the tests listed below. Concentrated assault team members are listed in the following table.

Test Personnel

NAME	AGE (yrs)	WEIGHT (lbs)	DOMINANT HAND
Brian Driscoll	25	180	R
Matt Kruschinsky	24	155	L
Garrett Updike	28	230	R
Erica Juliano	30	185	R
Jeffrey Jones	22	180	R
Cory Straub	37	208	R

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SECTION 9

TEST RESULTS

Test Series No. 1

Test Date: 08/26/24

Test Specimen: Inswing Door

Forced Entry Resistance: 15-minutes

ATTACK LOCATION	ATTACK RESULT
Lock Side	The assault team was unable to create an opening large enough to pass the 12 in by 12 in by 8 in rectangular solid or 12 in by 12 in cylinder representing contraband during the 15-minute attack
Hinge Side	
Door Panel	The assault team was unable to create an opening large enough to pass the 12 in by 12 in by 8 in rectangular solid or 12 in by 12 in cylinder representing contraband during the 15-minute attack; removed the fiberboard outer layer and created an 18 in by 4-1/2 in hole in the front of the door panel

Test Series No. 2

Test Date: 08/26/24

Test Specimen: Outswing Door

Forced Entry Resistance: 15-minutes

ATTACK LOCATION	ATTACK RESULT
Lock Side	The assault team was unable to create an opening large enough to pass the 12 in by 12 in by 8 in rectangular solid or 12 in by 12 in cylinder representing contraband during the 15-minute attack
Hinge Side	

Forced Entry Resistance: 30-minutes

ATTACK LOCATION	ATTACK RESULT
Door Panel ¹	The assault team was unable to create an opening large enough to pass the 12 in by 12 in by 8 in rectangular solid or 12 in by 12 in cylinder representing contraband during the 15-minute attack; removed the fiberboard outer layer and created a 19-1/2 in by 10 in hole in the front of the door panel. The assault was continued for an additional 15 minutes where the assault team was still unable to create an opening large enough to pass the 12 in by 12 in by 8 in rectangular solid or 12 in by 12 in cylinder representing contraband; the hole size was increased to 21 in by 14-1/2 in on the attack side and a 12-1/2 in by 8 in hole was created through the door on the protected side

¹ The second 15-minute attack was performed by a 5-person assault team

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SECTION 10

PHOTOGRAPHS



Photo No. 1
Forced Entry Tools



Photo No. 2
Door Logo

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Photo No. 3
Starting Condition of Outswing Door (Attack Side)



Photo No. 4
Final Condition of Lock Side Location of Inswing Door (Attack Side)

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Photo No. 5

Final Condition of Lock Side Location of Inswing Door (Protected Side)



Photo No. 6

Final Condition of Hinge Side Location of Inswing Door (Attack Side)

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Photo No. 7

Final Condition of Door Panel Location of Inswing Door (Attack Side)

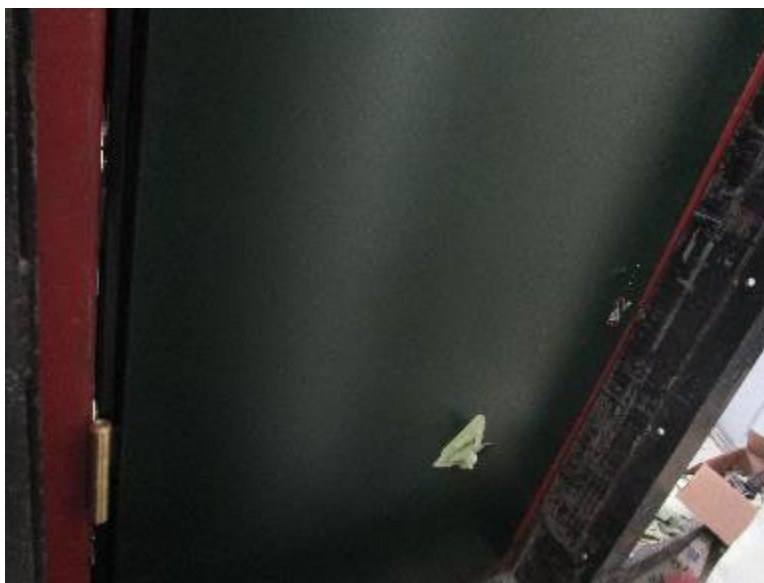


Photo No. 8

Final Condition of Door Panel Location of Inswing Door (Protected Side)

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Photo No. 9

Final Condition of Door Panel Location of Inswing Door (Attack Side)



Photo No. 10

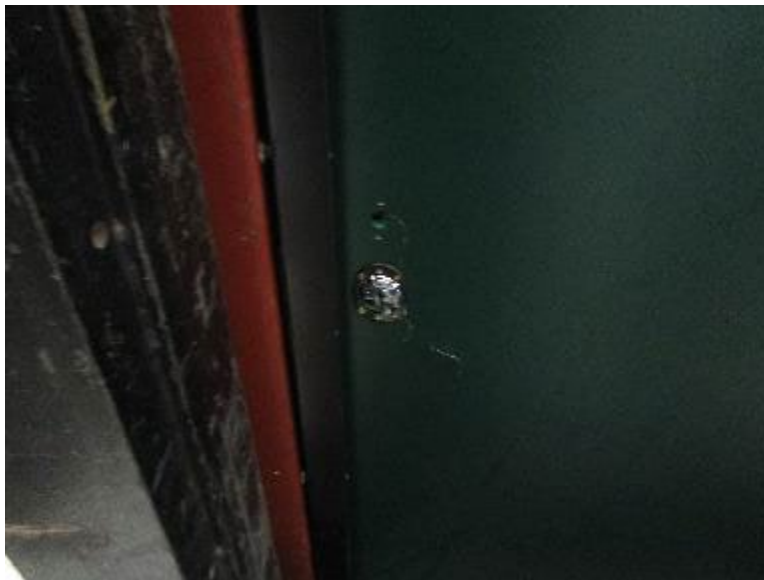
Starting Condition of Outswing Door (Attack Side)

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**Photo No. 11****Final Condition of Lock Side Location of Outswing Door (Attack Side)****Photo No. 12****Final Condition of Lock Side Location of Outswing Door (Protected Side)**

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Photo No. 13

Final Condition of Hinge Side Location of Outswing Door (Attack Side)



Photo No. 14

**Final Condition of Door Panel Attack Location of Outswing Door
(Attack Side; 15 Minutes of Attack)**

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Photo No. 15

**Final Condition of Door Panel Attack Location of Outswing Door
(Protected Side; 15 Minutes of Attack)**



Photo No. 16

**Final Condition of Door Panel Attack Location of Outswing Door
(Attack Side; 30 Minutes of Attack)**

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Photo No. 17

**Final Condition of Door Panel Attack Location of Outswing Door
(Protected Side; 30 Minutes of Attack)**



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York, Pennsylvania 17406

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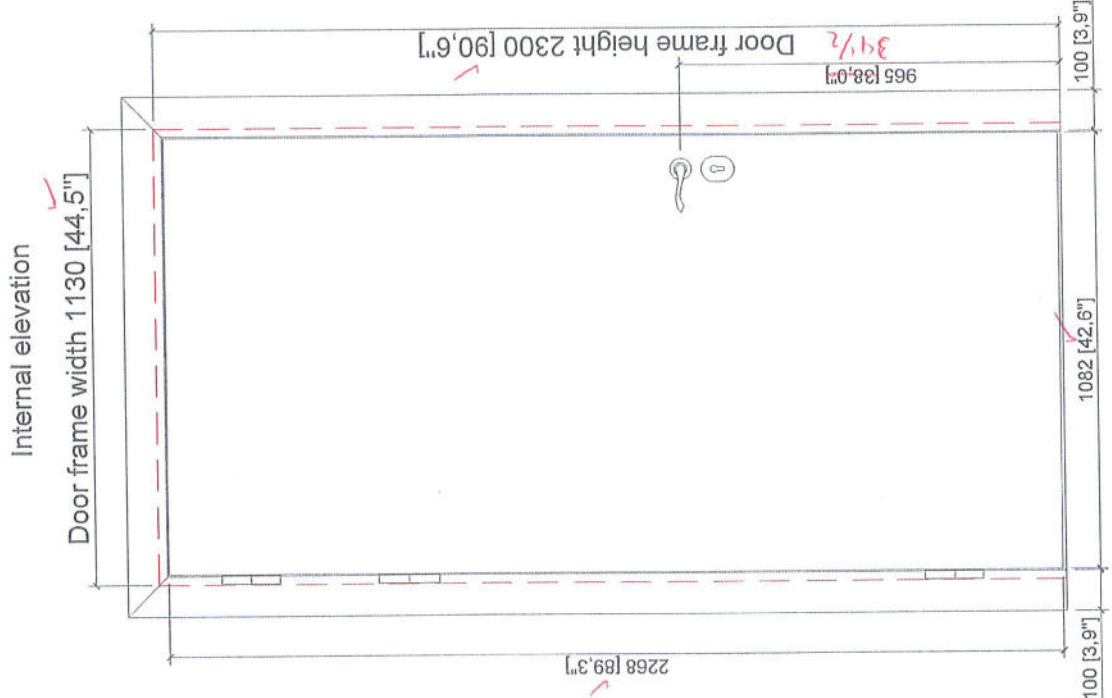
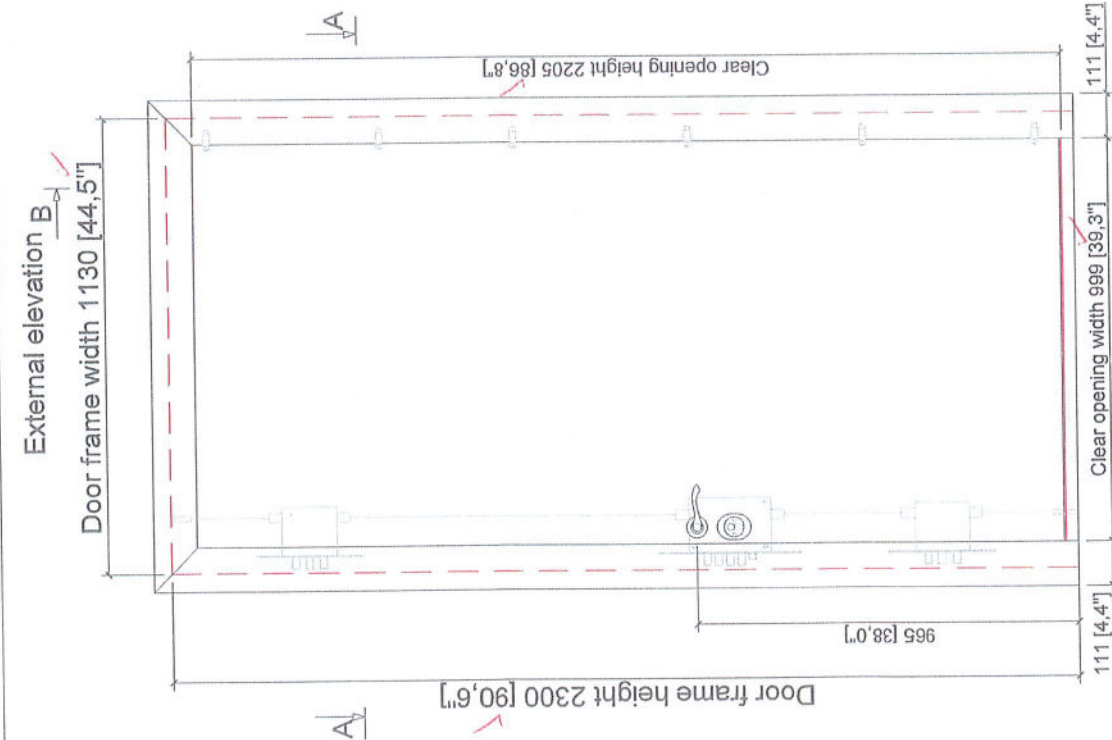
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SECTION 11

DRAWINGS

The test specimen drawings, which follow, 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.



Test sample complies with these details.
Deviations are noted.

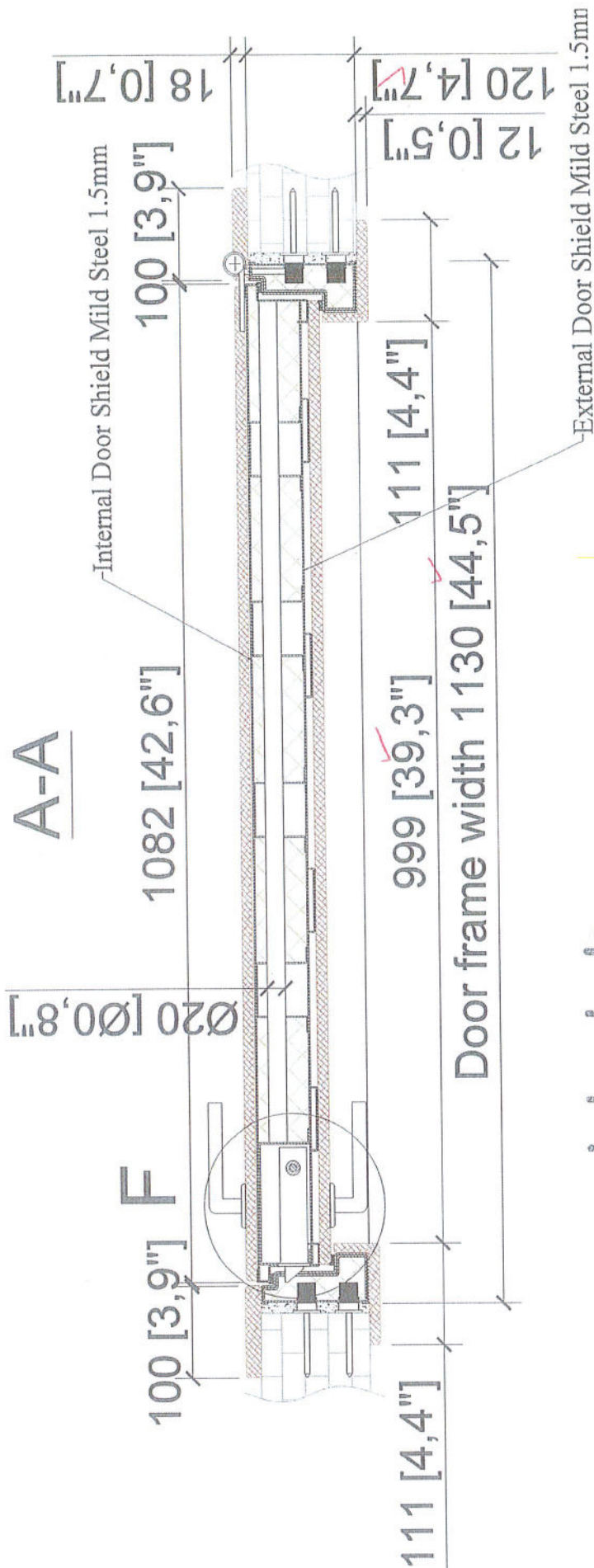
Report # R5587 01-119-12

Date 10/1/24 Tech ST6



External and Internal Elevations of the Door

	Sheet 2		No. of sheets 8	SCALE NOT TO
	DRAWN BY: M.B.	REQUESTED BY: R.M.	DATE: 4 July 2024	CAD dwg Ref. No. FE15 single door 2300x1130
				CLIENTS REF. NUMBER:



Test sample complies with these details.
 Deviations are noted.

Report # 65588.01-117-12

Date 10/1/24 Tech STG

Note: this type of door has two metal shields. Internal and External shields.

		Horizontal Cut	
DRAWN BY: M.B.	REQUESTED BY: R.M.	DATE: 4 July 2024	SCALE NOT TO
Sheet 3		No. of Sheets 8	
CAD dwg Ref. No.		FE15 single door 2300x1130	
CLIENTS REF. NUMBER:			



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SECTION 12

REVISION LOG

REVISION #	DATE	PAGES	REVISION
0	10/01/24	N/A	Original Report Issue
1	10/10/24	N/A	Revised drawing package