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IMPACT SECURITY, LLC

BALLISTICS / FORCED-ENTRY RESISTANCE TEST REPORT

SCOPE OF WORK
ASTM F3561 AND ASTM F588 TESTING ON FIXED WINDOW COMPOSITIONS *(RIOTLITE)*

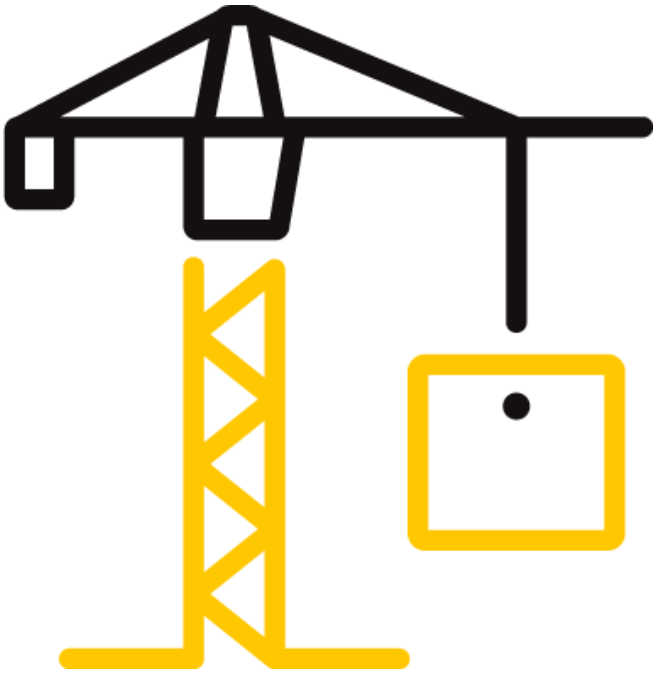
REPORT NUMBER
S1432.01-119-12 R0

TEST DATES
01/16/25 - 01/17/25

ISSUE DATE
02/25/25

PAGES
37

DOCUMENT CONTROL NUMBER
RT-R-AMER-TEST-7999



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Facsimile: 717-764-4129
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TEST REPORT FOR IMPACT SECURITY, LLC
Report No.: S1432.01-119-12 R0
Date: 02/25/25

REPORT ISSUED TO

IMPACT SECURITY, LLC
600 Kirk Road
Suite 100
Marietta, GA 30060

SECTION 1

SCOPE

Architectural Testing, Inc. (an Intertek company) dba Intertek Building & Construction (B&C) was contracted by Impact Security, LLC to perform forced-entry-resistance after simulated active shooter attack in accordance with ASTM F3561 and Force Entry Resistance in accordance with F588 on Fixed Window Compositions, *(RiotLite)*. Results obtained are tested values and were secured by using the designated test method. Testing was conducted at the Intertek test facility in York, PA.

Intertek B&C in York, PA has demonstrated compliance with ISO/IEC International Standard 17025 and is consequently accredited as a Testing Laboratory (TL-144) by International Accreditation Service, Inc. (IAS). Intertek B&C is accredited to perform all testing reported herein.

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.

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 (where required by Certification or Accreditation bodies), or other pertinent project documentation, will be retained for the entire test record retention period.

For INTERTEK B&C:

COMPLETED BY:	Eric J. Beaudoin	**REVIEWED BY:**	V. Thomas Mickley, Jr., P.E.
TITLE:	Team Lead - Ballistics	**TITLE:**	Senior Staff Engineer
SIGNATURE:	Digitally signed by Eric J. Beaudoin Date: 2025.02.25 16:46:54 -05'00'	**SIGNATURE:**	Digitally Signed by: Virgal Thomas Mickley, Jr.
DATE:	02/25/25	**DATE:**	02/25/25

EJB:vtm/aas

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SECTION 2
SUMMARY OF TEST RESULTS

ASTM F3561

SERIES NO.	DESIGNATION	FORCED-ENTRY RATING LEVEL [1]
1	48 in x 96 in Fixed Window	3
2	48 in x 48 in Fixed Window	3 [2]

[1] *Lowest rating achieved on the three sample set.*
[2] *ASTM E3561 Section 8.4 requires three test specimens of identical construction in order to determine a Forced-Entry Rating Level. Only one specimen for Test Series No. 2 was submitted for testing. Additional testing is required in order to determine the actual Forced-Entry Rating Level.*

ASTM F588

TITLE OF TEST	RESULTS	ALLOWED	NOTE
Forced Entry Resistance, per ASTM F588, Type: D - Grade: 40	Pass	No entry	--

SECTION 3
TEST METHOD

Each test specimen was evaluated in accordance with the following:

ASTM F3561-23, *Standard Test Method for Forced-Entry-Resistance of Fenestration Systems After Simulated Active Shooter Attack*

ASTM F588-17(2023), *Standard Test Methods for Measuring the Forced Entry Resistance of Window Assemblies, Excluding Glazing Impact*

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.

Installation: Test specimens were installed into a custom-made wood buck provided by Impact Security, LLC. The frame and glass were installed into the wooden buck by Impact Security, LLC.

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SECTION 5
LIST OF OFFICIAL OBSERVERS

NAME	COMPANY
Jeff Franson	Future Vu Brands
Peter Stigi	Window Film Depot
Joe Mauldin	Window Film Depot
Eric J. Beaudoin	Intertek B&C
Shawn E. Beamer	Intertek B&C
Jason R. Zeller	Intertek B&C
Tyler J. Bard	Intertek B&C
Larry D. Testerman	Intertek B&C
Ken R. Stough	Intertek B&C

SECTION 6
EQUIPMENT

ASSET ID	DESCRIPTION	CALIBRATION DUE DATE
INT02233	Fluke IR Thermometer	06/17/25
INT02767	Oehler Model 36 Chronograph	05/17/25
64216	Oehler Model 36 Chronograph	05/17/25
65081	Temp/Humidity	03/06/25
INT03779	Laser Measurement	06/25/25
005698	Force Gauge	08/06/25
INT00975	Stopwatch	02/05/26

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SECTION 7
TEST SPECIMEN DESCRIPTION

ASTM F3561

PRODUCT TYPE	*RiotLite* Fixed Window
OVERALL SIZE	Series 1: 49-3/4 in wide by 97-3/4 in high Series 2: 48 in wide by 48 in high
FRAME DIMENSIONS	Series 1: 48 in wide by 96 in high Series 2: 48 in wide by 48 in high
DAYLIGHT OPENING	Series 1: 44-1/2 in wide by 92-1/2 in high Series 2: 44-1/2 in wide by 44-1/2 in high

SERIES NO.	SPECIMEN NO.	SAMPLE ID	GLAZING LAYUP
1	1	48 x 96	**Attack Side** - 1/4 in Tempered Glass - *RiotLite* 27 mil film **Protected Side**
	2		
	3		
2	1	48 x 48	

ASTM F588

OVERALL AREA:	**WIDTH**		**HEIGHT**	
3.1 m² (33.2 ft²)	**millimeters**	**inches**	**millimeters**	**inches**
Overall size	1251	49-1/4	2467	97-1/8
Fixed daylight opening	1089	42-7/8	2311	91

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Date: 02/25/25

SECTION 8
TEST PROCEDURE

ASTM F3561
Ballistics:
The sample was rigidly mounted for ballistics resistance testing. The muzzle of the test firearm was set at 25 feet from the sample at zero-degree (±3°) obliquity. Ballistic screens were set at 5 feet and at 20 feet from the muzzle of the firearm. Test ammunition was 5.56 mm NATO, 55 grain, copper jacket lead core, which conformed to ASTM F3561, Table 1 requirements with the exception that the velocity of some projectiles was below the required velocity (3357-3423 fps). In the instances where the velocity was below the required minimum, weakening of the specimen was still achieved as displayed by penetration of the specimen. Shot locations were per Figure 4 of ASTM F3561 for glazing and panels.

Forced Entry:
Impacts were delivered to the product using an impact ram as specified in ASTM F3561, Section 6.6. The product was rigidly anchored to a supporting test frame and the impacts were delivered to the specimen as per ASTM F3561, Section 16. Two impacts were delivered to the center of the specimen for each drop height beginning at a height of 0.5 ft and increasing in increments of 0.5 ft until failure occurred. The potential energy delivered at each drop height is detailed in the following table:

LEVEL	POTENTIAL ENERGY, J		DROP HEIGHT (H)	
	(J)	(FT-LBF)	(mm)	(FT)
1	68	50	152	0.50
2	136	100	305	1.00
3	203	150	457	1.50
4	271	200	610	2.00
5	339	250	762	2.50
6	407	300	914	3.00
7	475	350	1067	3.50
8	542	400	1219	4.00

ASTM F588
Forced entry in accordance with ASTM F588 was conducted using the following tools:
A FER tool kit containing the following tools was utilized:

6 in Phillips head screwdriver
6 in Straight head screwdriver
6 in standard slot-type plyers
3/4 in wide by 4-1/2 in long, 24-gauge stainless steel spatula

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SECTION 9
ASTM F3561 TEST RESULTS

Test Dates: 01/16/25 - 01/17/25
Ambient Temperature: 64 - 68 °F

The results are tabulated as follows:

Test Series No. 1 - 48 x 96

Specimen No. 1
Ballistics

SHOT NO.	SHOT LOCATIONS [1]	SPECIMEN TEMP. (°F)	VELOCITY (fps)	RESULTS
1	N	61	3316	Penetrated
2	S		3322	Penetrated
3	W		3386	Penetrated
4	E		3335	Penetrated
5	NW		3397	Penetrated
6	SW		3331	Penetrated
7	NE		3350	Penetrated
8	SE		3374	Penetrated
9	C1		3344	Penetrated
10	C2		3350	Penetrated

[1] *Reference ASTM F3561, Fig. 4 for firing pattern shot locations.*

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Forced Entry

LEVEL	NUMBER OF IMPACTS	SPECIMEN TEMP. (°F)	DROP HEIGHT (ft.)	PASS/FAIL	RESULTS
1	2	66	0.50	Pass	1st Impact: No change 2nd Impact: No change
2	2		1.00	Pass	1st Impact: No change 2nd Impact: No change
3	2		2.00	Pass	1st Impact: No change 2nd Impact: Tear between shot locations C1 and C2; A vertical tear was also observed at C2
4	1		2.50	**Fail**	**1st Impact: The nose cone passed through the glazing to the point where the gasket was visible on the protected side**

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Specimen No. 2
Ballistics

SHOT NO.	SHOT LOCATIONS [1]	SPECIMEN TEMP. (°F)	VELOCITY (fps)	RESULTS
1	N	64	3327	Penetrated
2	S		3381	Penetrated
3	W		3348	Penetrated
4	E		3362	Penetrated
5	NW		3396	Penetrated
6	SW		3357	Penetrated
7	NE		3380	Penetrated
8	SE		3359	Penetrated
9	C1		3404	Penetrated
10	C2		3353	Penetrated

[1] *Reference ASTM F3561, Fig. 4 for firing pattern shot locations.*

Forced Entry

LEVEL	NUMBER OF IMPACTS	SPECIMEN TEMP. (°F)	DROP HEIGHT (ft.)	PASS/FAIL	RESULTS
1	2	64	0.50	Pass	1st Impact: No change 2nd Impact: No change
2	2		1.00	Pass	1st Impact: No change 2nd Impact: No change
3	2		1.50	Pass	1st Impact: No change 2nd Impact: Small tear started at shot location C2
4	2		2.00	**Fail**	1st Impact: Tear at C2 grew larger **2nd Impact: The nose cone passed through the glazing to the point where the gasket was visible on the protected side**

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Specimen No. 3
Ballistics

SHOT NO.	SHOT LOCATIONS [1]	SPECIMEN TEMP. (°F)	VELOCITY (fps)	RESULTS
1	N	65	3331	Penetrated
2	S		3355	Penetrated
3	W		3360	Penetrated
4	E		3377	Penetrated
5	NW		3315	Penetrated
6	SW		3376	Penetrated
7	NE		3398	Penetrated
8	SE		3316	Penetrated
9	C1		3354	Penetrated
10	C2		3291	Penetrated

[1] *Reference ASTM F3561, Fig. 4 for firing pattern shot locations.*

Forced Entry

LEVEL	NUMBER OF IMPACTS	SPECIMEN TEMP. (°F)	DROP HEIGHT (ft.)	PASS/FAIL	RESULTS
1	2	66	0.50	Pass	1st Impact: No change 2nd Impact: No change
2	2		1.00	Pass	1st Impact: No change 2nd Impact: No change
3	2		2.00	Pass	1st Impact: No change 2nd Impact: Tear between shot locations C1 and C2, approximately 1-1/2 in
4	2		2.50	**Fail**	1st Impact: Impactor penetrated specimen but the gasket was not visible on the protected side and the test shape would not pass through with 4 lbs of force **2nd Impact: The nose cone passed through the glazing to the point where the gasket was visible on the protected side**

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Test Series No. 2 - 48 x 48

Specimen No. 1
Ballistics

SHOT NO.	SHOT LOCATIONS [1]	SPECIMEN TEMP. (°F)	VELOCITY (fps)	RESULTS
1	N	63	3356	Penetrated
2	S		3376	Penetrated
3	W		3383	Penetrated
4	E		3324	Penetrated
5	NW		3404	Penetrated
6	SW		3377	Penetrated
7	NE		3383	Penetrated
8	SE		3383	Penetrated
9	C1		3356	Penetrated
10	C2		3327	Penetrated

[1] *Reference ASTM F3561, Fig. 4 for firing pattern shot locations.*

Forced Entry

LEVEL	NUMBER OF IMPACTS	SPECIMEN TEMP. (°F)	DROP HEIGHT (ft.)	PASS/FAIL	RESULTS
1	2	64	0.50	Pass	1st Impact: No change 2nd Impact: No change
2	2		1.00	Pass	1st Impact: No change 2nd Impact: No change
3	2		2.00	Pass	1st Impact: No change 2nd Impact: Tear at C2 approximately 3-1/2 in
4	1		2.50	**Fail**	**1st Impact: The nose cone passed through the glazing to the point where the gasket was visible on the protected side**

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SECTION 10

ASTM F588 TEST RESULTS

Test Dates: 01/16/25

Test Specimen No.'s 1 - 3:

TITLE OF TEST	RESULTS	ALLOWED	NOTE
Forced Entry Resistance, per ASTM F588, Type: D - Grade: 40	Pass	No entry	--

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Date: 02/25/25

SECTION 11
PHOTOGRAPHS

Photo No. 1
Ballistic Range Set-up

Photo No. 2
Test Series No. 1/Specimen No. 1, Pre-Test (Attack Side) (Ballistics)

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Photo No. 3
Test Series No. 1/Specimen No. 1, Pre-Test (Protected Side) (Ballistics)

Photo No. 4
Test Series No. 1/Specimen No. 1, Post-Test (Attack Side) (Ballistics)

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Photo No. 5
Test Series No. 1/Specimen No. 1, Post-Test (Protected Side) (Ballistics)

Photo No. 6
Forced Entry Test Set-up

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Photo No. 7
Test Series No. 1/Specimen No. 1, Pre-Test (Attack Side) (Forced Entry)

Photo No. 8
Test Series No. 1/Specimen No. 1, Pre-Test (Protected Side) (Forced Entry)

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Photo No. 9
Test Series No. 1/Specimen No. 1, Post-Test (Attack Side) (Forced Entry) Level 4.1

Photo No. 10
Test Series No. 1/Specimen No. 1, Post-Test (Protected Side) (Forced Entry) Level 4.1

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Photo No. 11
Test Series No. 1/Specimen No. 2, Pre-Test (Attack Side) (Ballistics)

Photo No. 12
Test Series No. 1/Specimen No. 2, Pre-Test (Protected Side) (Ballistics)

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Photo No. 13
Test Series No. 1/Specimen No. 2, Post-Test (Attack Side) (Ballistics)

Photo No. 14
Test Series No. 1/Specimen No. 2, Post-Test (Protected Side) (Ballistics)

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Photo No. 15
Test Series No. 1/Specimen No. 2, Pre-Test (Attack Side) (Forced Entry)

Photo No. 16
Test Series No. 1/Specimen No. 2, Pre-Test (Protected Side) (Forced Entry)

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Photo No. 17
Test Series No. 1/Specimen No. 2, Post-Test (Attack Side) (Forced Entry) Level 4.2

Photo No. 18
Test Series No. 1/Specimen No. 2, Post-Test (Protected Side) (Forced Entry) Level 4.2

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Photo No. 19
Test Series No. 1/Specimen No. 3, Pre-Test (Attack Side) (Ballistics)

Photo No. 20
Test Series No. 1/Specimen No. 3, Pre-Test (Protected Side) (Ballistics)

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Photo No. 21
Test Series No. 1/Specimen No. 3, Post-Test (Attack Side) (Ballistics)

Photo No. 22
Test Series No. 1/Specimen No. 3, Post-Test (Protected Side) (Ballistics)

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Photo No. 23
Test Series No. 1/Specimen No. 3, Pre-Test (Attack Side) (Forced Entry)

Photo No. 24
Test Series No. 1/Specimen No. 3, Pre-Test (Protected Side) (Forced Entry)

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Photo No. 25
Test Series No. 1/Specimen No. 3, Post-Test (Attack Side) (Forced Entry) Level 4.2

Photo No. 26
Test Series No. 1/Specimen No. 3, Post-Test (Protected Side) (Forced Entry) Level 4.2

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Photo No. 27
Test Series No. 2/Specimen No. 1, Pre-Test (Attack Side) (Ballistics)

Photo No. 28
Test Series No. 2/Specimen No. 1, Pre-Test (Protected Side) (Ballistics)

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Photo No. 29
Test Series No. 2/Specimen No. 1, Post-Test (Attack Side) (Ballistics)

Photo No. 30
Test Series No. 2/Specimen No. 1, Post-Test (Protected Side) (Ballistics)

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Photo No. 31
Test Series No. 2/Specimen No. 1, Pre-Test (Attack Side) (Forced Entry)

Photo No. 32
Test Series No. 2/Specimen No. 1, Pre-Test (Protected Side) (Forced Entry)

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Photo No. 33
Test Series No. 2/Specimen No. 1, Post-Test (Attack Side) (Forced Entry) Level 4.1

Photo No. 34
Test Series No. 2/Specimen No. 1, Post-Test (Protected Side) (Forced Entry) Level 4.1

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Photo No. 35
ASTM F588 Specimen No. 1, Prior to Testing

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Photo No. 36
ASTM F588 Specimen No. 2, Prior to Testing

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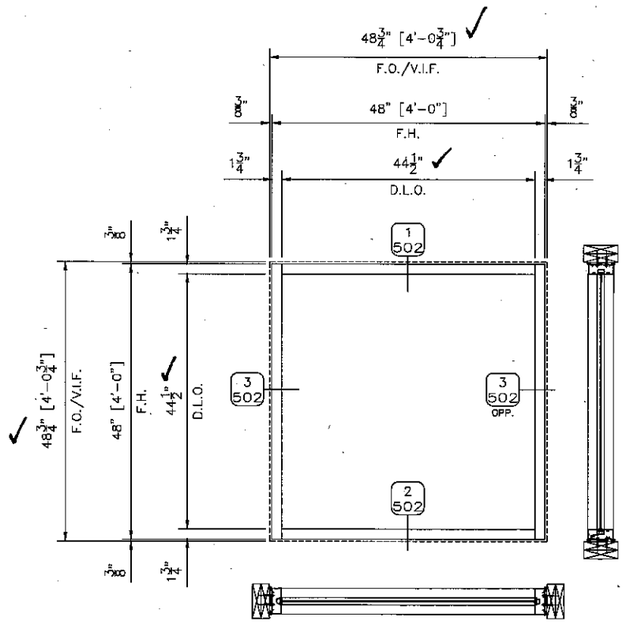
Photo No. 37
ASTM F588 Specimen No. 3, Prior to Testing

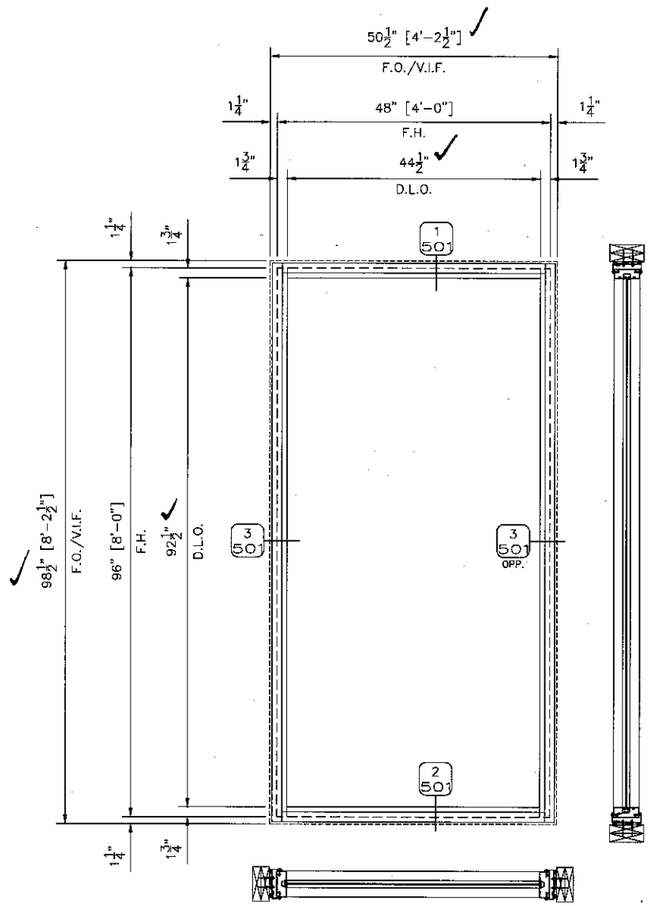
SECTION 12
DRAWINGS

The test specimen drawings, which follow, have been reviewed by Intertek B&C and are representative of the test specimens 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.



1

SCALE: 1"=1'-0"	FINISH:
QTY: (1) ONE	SYSTEM (S): YES 45 FS (1 3/4"x4 1/2") RiotLite 27MIL ATTACHED
ARCH. REF.:	



2

SCALE: 1"=1'-0"	FINISH:
QTY: (6) SIX	SYSTEM (S): YES 45 FS (1 3/4"x4 1/2") RiotLite 27 MIL ATTACHED
ARCH. REF.:	

intertek

Test sample complies with these details.
Deviations are noted.

Report # 5|432.01-119-12

Date 2-25-25 **Tech** VFM

IMPACT SECURITY
A UNITED UTILITY COMPANY

IMPACT SECURITY
600 KIRK ROAD #100
MARIETTA, GEORGIA 30068
678-801-9572
678-547-3138 FAX

NO.	REVISION	ISSUE DATE	BY	CHD BY

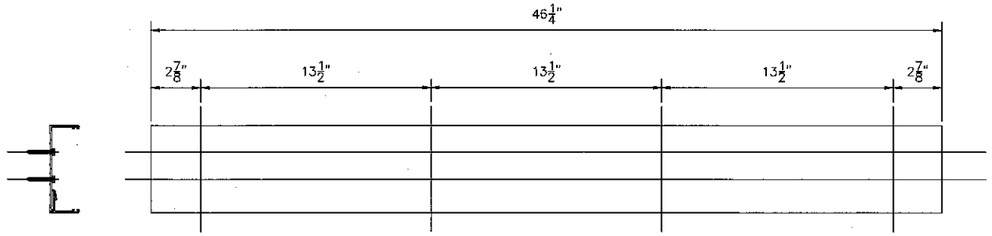
ARCHITECT NAME AND LOCATION:

CUSTOMER NAME AND LOCATION:
IMPACT SECURITY, LLC
600 KIRK ROAD
SUITE 100
MARIETTA, GA 30060

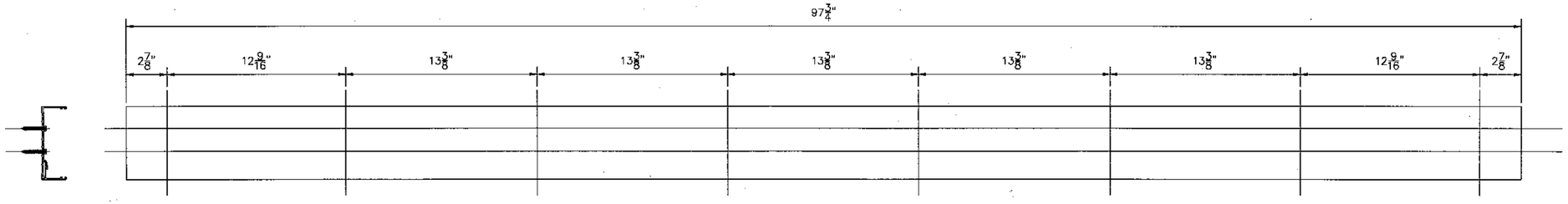
PROJECT NAME AND LOCATION:
RIOTLITE®

DESCRIPTION: ELEVATION SHEET

SCALE:	ISSUE DATE:
1"=1'-0"	01-14-25
DRAWN BY: CDD	SHEET NO.: 301
JOB NUMBER:	



E9-1032 & E9-1033 (X12)



E9-1032 & E9-1033 (X12)

intertek

Test sample complies with these details.
Deviations are noted.

Report # S1432.01-119-12

Date 2-25-25 Tech vtm

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A UNITED UNIVERSITY COMPANY

IMPACT SECURITY
800 KIRK ROAD #100
MARIETTA, GEORGIA 30068

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678-547-3138 FAX

NO.	REVISION	ISSUE DATE	BY	CHKD BY

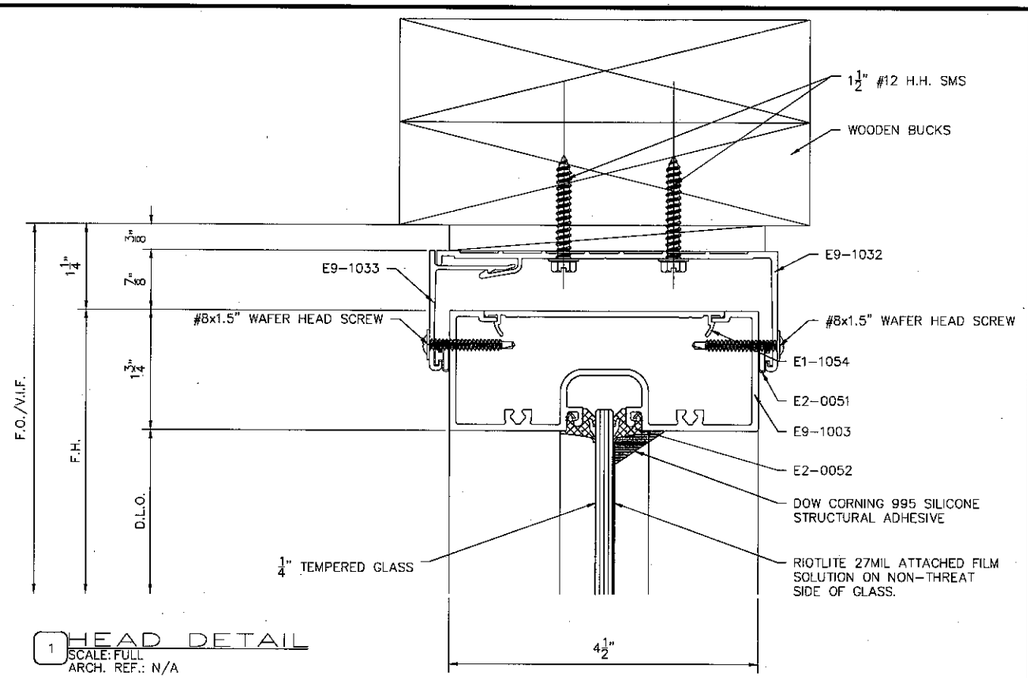
ARCHITECT NAME AND LOCATION:

CUSTOMER NAME AND LOCATION:
IMPACT SECURITY, LLC
600 KIRK ROAD
SUITE 100
MARIETTA, GA 30060

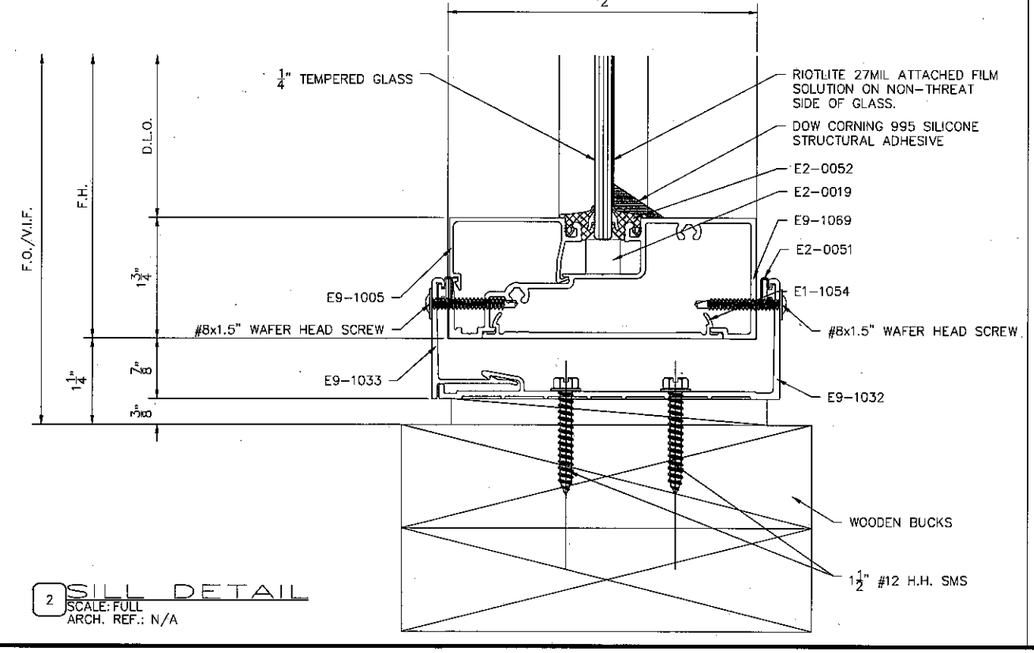
PROJECT NAME AND LOCATION:
RIOTLITE®

DESCRIPTION: RECEPTOR CUT SHEET

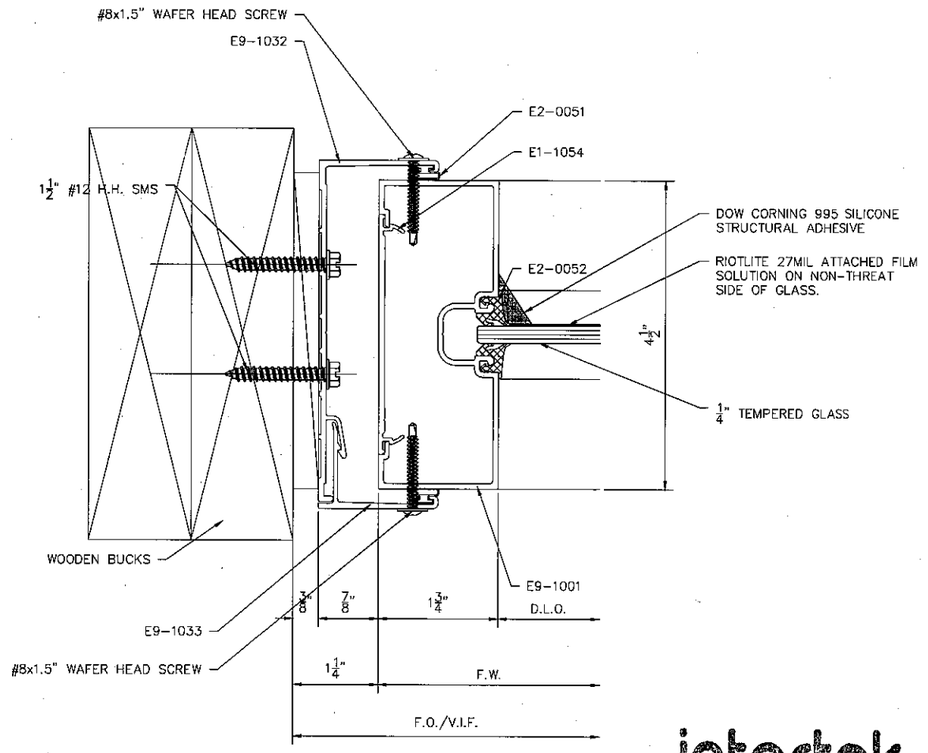
SCALE:	ISSUE DATE:
1"=1'-0"	01-14-25
DRAWN BY: CDD	SHEET NO.: 401
JOB NUMBER:	



1 HEAD DETAIL
SCALE: FULL
ARCH. REF.: N/A



2 SILL DETAIL
SCALE: FULL
ARCH. REF.: N/A



3 JAMB DETAIL
SCALE: FULL
ARCH. REF.: N/A

intertek

Test sample complies with these details.
Deviations are noted.

Report # S1432.01-119-12

Date 2-25-25 Tech YTM

IMPACT SECURITY
A LIMITED LIABILITY COMPANY
IMPACT SECURITY
600 KIRK ROAD #100
MARIETTA, GEORGIA 30068
678-801-9572
678-547-3138 FAX

NO.	REVISION	ISSUE DATE	BY	CHD BY

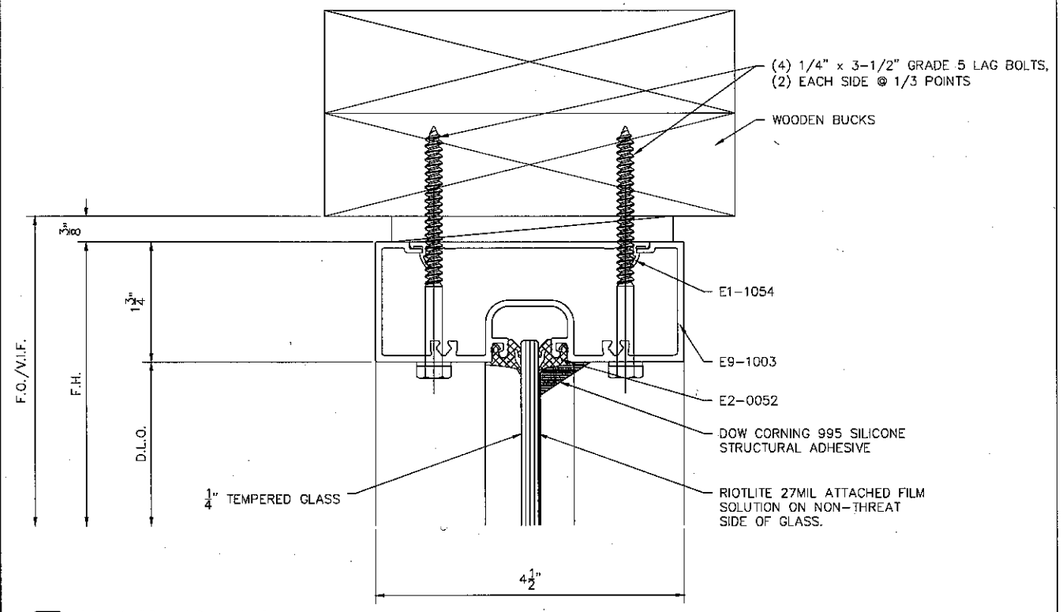
ARCHITECT NAME AND LOCATION:

CUSTOMER NAME AND LOCATION:
IMPACT SECURITY, LLC
600 KIRK ROAD
SUITE 100
MARIETTA, GA 30060

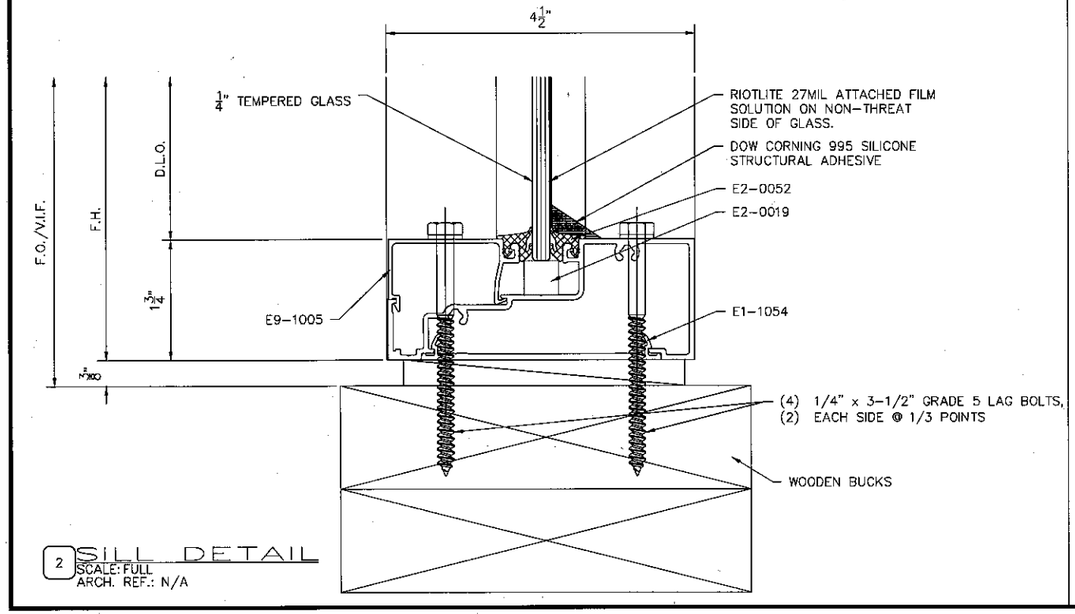
PROJECT NAME AND LOCATION:
RIOTLITE®

DESCRIPTION:
FRAME DETAILS

SCALE:	ISSUE DATE:
1"=1'-0"	01-14-25
DRAWN BY: CDD	SHEET NO.: 501
JOB NUMBER:	



1 HEAD DETAIL
SCALE: FULL
ARCH. REF.: N/A



2 SILL DETAIL
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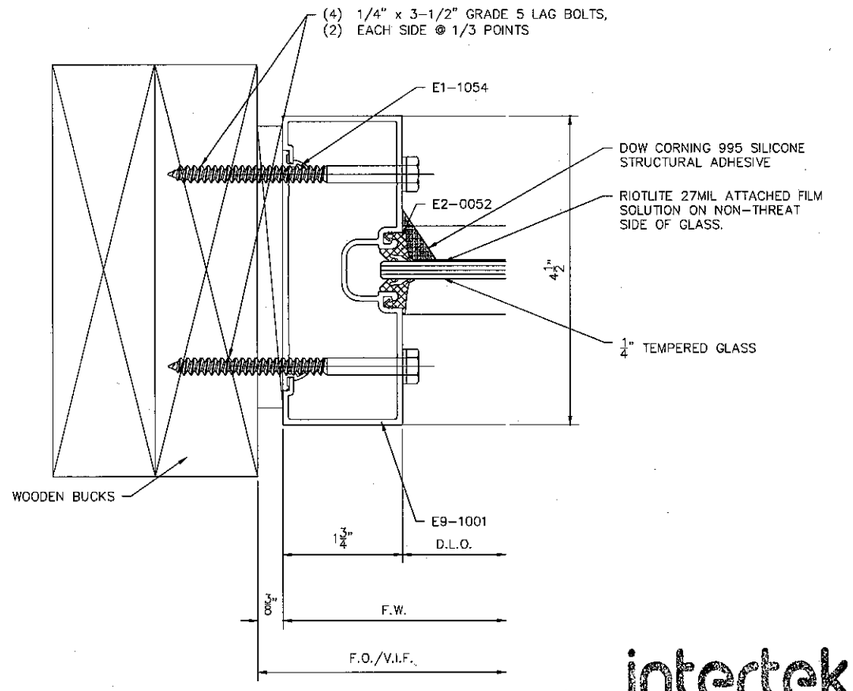

3 JAMB DETAIL
SCALE: FULL
ARCH. REF.: N/A

intertek

Test sample complies with these details.
Deviations are noted.

Report # S1432.01-119-12

Date 2-25-25 Tech YTm

IMPACT SECURITY
A LIMITED LIABILITY COMPANY
IMPACT SECURITY
600 KIRK ROAD #100
MARIETTA, GEORGIA 30068
678-801-9572
678-547-3138 FAX

NO.	REVISION	ISSUE DATE	BY	CHK'D

ARCHITECT NAME AND LOCATION:

CUSTOMER NAME AND LOCATION:
IMPACT SECURITY, LLC
600 KIRK ROAD
SUITE 100
MARIETTA, GA 30060

PROJECT NAME AND LOCATION:
RIOTLITE

DESCRIPTION: FRAME DETAILS

SCALE:	ISSUE DATE:
1"=1'-0"	01-14-25
DRAWN BY: CDD	SHEET NO.: 502
JOB NUMBER:	

130 Derry Court
York, Pennsylvania 17406

Telephone: 717-764-7700
Facsimile: 717-764-4129
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SECTION 13
REVISION LOG

REVISION #	DATE	PAGES	REVISION
0	02/25/25	N/A	Original Report Issue