

DIAMOND DEFENSE, LLC.

BALLISTICS / FORCED-ENTRY RESISTANCE TEST REPORT

SCOPE OF WORK

ASTM F3561 (METHOD A) - GLASS WEAKENING TESTING OF VARIOUS CONFIGURATIONS OF LAMINATED SECURITY GLAZING

REPORT NUMBER

R2785.01-119-12

TEST DATE

05/15/24 - 05/16/24

ISSUE DATE

06/20/24

RECORD RETENTION END DATE

05/16/28

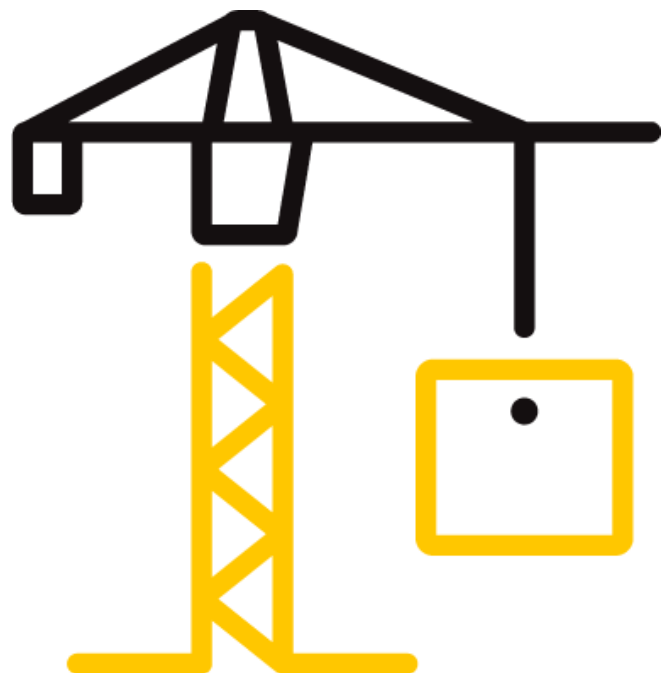
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TEST REPORT FOR DIAMOND DEFENSE, LLC.

Report No.: R2785.01-119-12

Date: 06/20/24

REPORT ISSUED TO

DIAMOND DEFENSE, LLC.

3814 Crossroads Pkwy

Fort Pierce, FL 34945

SECTION 1

SCOPE

Architectural Testing, Inc. (an Intertek company) dba Intertek Building & Construction (B&C) was contracted by Diamond Defense, LLC. to perform forced-entry-resistance after simulated active shooter attack in accordance with ASTM F3561 on various configurations of laminated security glazing. 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. Intertek B&C in York, Pennsylvania 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).

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.

For INTERTEK B&C:

COMPLETED BY:	Eric J. Beaudoin	REVIEWED BY:	Travis A. Hoover
TITLE:	Team Lead - Ballistics	TITLE:	Senior Manager
SIGNATURE:		SIGNATURE:	
DATE:	06/20/24	DATE:	06/20/24

EJB:vtm/aas

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SECTION 2

SUMMARY OF TEST RESULTS

SERIES NO.	DESIGNATION	FORCED-ENTRY RATING LEVEL ¹
1	Diamond Defense System - Assault Barrier 24 in by 24 in	8
2	Diamond Defense System - Assault Barrier 30-1/4 in by 60 in	8

¹ Lowest rating achieved on the three-sample set.

SECTION 3

TEST METHOD

Each test specimen was evaluated in accordance with Method A of the following:

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

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: The 24 in by 24 in test specimens were installed into a custom-made steel frame provided by Intertek B&C with a clamp system utilizing quick release pins to secure the specimen. The test frame included a 1 inch wide rubber gasket to displace any glazing-to-steel interaction. The 30-1/4 in by 60 in test specimens were installed by Diamond Defense Systems LLC. into a steel frame provided by Diamond Defense, LLC.

SECTION 5

LIST OF OFFICIAL OBSERVERS

NAME	COMPANY
Travis A. Hoover	Intertek B&C
Scott T. Gladfelter	Intertek B&C
Eric J. Beaudoin	Intertek B&C
Todd M. Wilt	Intertek B&C

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SECTION 6 EQUIPMENT

ASSET #	DESCRIPTION	CAL DUE DATE
65208	H&S Precision Universal Receiver (UR-01)	N/A
64216	Oehler Model 57 Infrared Ballistic Screens	08/14/24
005698	Force Gauge	07/10/24
INT02233	Mini IR Thermometer	06/29/24
INT02765	6 Inch Dial Caliper	02/28/25
A1048	Lab Temperature and Humidity Reader	05/19/24
65081	Lab Temperature and Humidity Reader	03/06/25
INT03095	Laser Measuring Device	08/18/24

SECTION 7 TEST SPECIMEN DESCRIPTION

PRODUCT TYPE	Diamond Defense System - Assault Barrier
OVERALL SIZE	<ul style="list-style-type: none"> - Series 1: 24 in wide by 24 in high - Series 2: 30-1/4 in wide by 60 in high

SERIES NO.	SPECIMEN NO.	DESIGNATION	LAYUP	OVERALL MEASURED THICKNESS (in)
1	1	24 in by 24 in	Exterior Film Layer (Sacrificial Membrane), Glass, Interior Film Layer (Sacrificial Membrane), Proprietary Flexible Clear Adhesive Attachment System (UHB), Optical Clear Lightweight Barrier Material	0.848
	2			0.826
	3			0.821
2	1	30-1/4 in by 60 in		0.836
	2			0.843
	3			0.854

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TEST PROCEDURE

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 ($\pm 3^\circ$) 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 were below or exceeded the required velocity (3357-3423 fps). In the instances where the velocity was below the required minimum or the velocity was not recorded, 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 6 in and increasing in increments of 6 in until failure occurred. The potential energy delivered at each drop height is detailed in the following table:

LEVEL	POTENTIAL ENERGY		DROP HEIGHT (H)	
	(J)	(ft-lbf)	(mm)	(ft)
1	68	50	152	0.5
2	136	100	305	1.0
3	203	150	457	1.5
4	271	200	610	2.0
5	339	250	762	2.5
6	407	300	914	3.0
7	475	350	1067	3.5
8	542	400	1219	4.0

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SECTION 9

TEST RESULTS

Test Dates: 05/15/24 - 05/16/24

Ambient Temperature: 67 - 70 °F

The results are tabulated as follows:

Test Series No. 1 - 24 in by 24 in

Specimen No. 1

Ballistics

SHOT NO.	SHOT LOCATIONS ¹	SPECIMEN TEMP. (°F)	VELOCITY (fps)	RESULTS
1	N	68	-- ²	Penetrated
2	S		3426	Penetrated
3	W		3399	Penetrated
4	E		3404	Penetrated
5	NW		3443	Penetrated
6	SW		3471	Penetrated
7	NE		3444	Penetrated
8	SE		3397	Penetrated
9	C1		3414	Penetrated
10	C2		3371	Penetrated

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

² Velocity not recorded.

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Forced Entry

LEVEL	NUMBER OF IMPACTS	SPECIMEN TEMP. (°F)	DROP HEIGHT (ft)	PASS/FAIL	RESULTS
1	2	68	0.5	Pass	1 st Impact - No change to specimen 2 nd Impact - No change to specimen
2	2		1.0	Pass	1 st Impact - No change to specimen 2 nd Impact - No change to specimen
3	2		1.5	Pass	1 st Impact - No change to specimen 2 nd Impact - No change to specimen
4	2		2.0	Pass	1 st Impact - No change to specimen 2 nd Impact - No change to specimen
5	2		2.5	Pass	1 st Impact - No change to specimen 2 nd Impact - No change to specimen
6	2		3.0	Pass	1 st Impact - No change to specimen 2 nd Impact - No change to specimen
7	2		3.5	Pass	1 st Impact - No change to specimen 2 nd Impact - No change to specimen
8	2		4.0	Pass	1 st Impact - No change to specimen 2 nd Impact - No change to specimen

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Specimen No. 2

Ballistics

SHOT NO.	SHOT LOCATIONS ¹	SPECIMEN TEMP. (°F)	VELOCITY (fps)	RESULTS
1	N	69	3322	Penetrated
2	S		3423	Penetrated
3	W		3369	Penetrated
4	E		3372	Penetrated
5	NW		-- ²	Penetrated
6	SW		-- ²	Penetrated
7	NE		3380	Penetrated
8	SE		3380	Penetrated
9	C1		3408	Penetrated
10	C2		3360	Penetrated

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

² Velocity not recorded.

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Forced Entry

LEVEL	NUMBER OF IMPACTS	SPECIMEN TEMP. (°F)	DROP HEIGHT (ft)	PASS/FAIL	RESULTS
1	2	70	0.5	Pass	1 st Impact - No change to specimen 2 nd Impact - No change to specimen
2	2		1.0	Pass	1 st Impact - No change to specimen 2 nd Impact - No change to specimen
3	2		1.5	Pass	1 st Impact - No change to specimen 2 nd Impact - No change to specimen
4	2		2.0	Pass	1 st Impact - No change to specimen 2 nd Impact - No change to specimen
5	2		2.5	Pass	1 st Impact - No change to specimen 2 nd Impact - No change to specimen
6	2		3.0	Pass	1 st Impact - No change to specimen 2 nd Impact - No change to specimen
7	2		3.5	Pass	1 st Impact - No change to specimen 2 nd Impact - No change to specimen
8	2		4.0	Pass	1 st Impact - No change to specimen 2 nd Impact - No change to specimen

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Specimen No. 3

Ballistics

SHOT NO.	SHOT LOCATIONS ¹	SPECIMEN TEMP. (°F)	VELOCITY (fps)	RESULTS
1	N	69	3420	Penetrated
2	S		3481	Penetrated
3	W		3459	Penetrated
4	E		3446	Penetrated
5	NW		3446	Penetrated
6	SW		3438	Penetrated
7	NE		3450	Penetrated
8	SE		3442	Penetrated
9	C1		3467	Penetrated
10	C2		3417	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	71	0.5	Pass	1 st Impact - No change to specimen 2 nd Impact - No change to specimen
2	2		1.0	Pass	1 st Impact - No change to specimen 2 nd Impact - No change to specimen
3	2		1.5	Pass	1 st Impact - No change to specimen 2 nd Impact - No change to specimen
4	2		2.0	Pass	1 st Impact - No change to specimen 2 nd Impact - No change to specimen
5	2		2.5	Pass	1 st Impact - No change to specimen 2 nd Impact - No change to specimen
6	2		3.0	Pass	1 st Impact - No change to specimen 2 nd Impact - No change to specimen
7	2		3.5	Pass	1 st Impact - No change to specimen 2 nd Impact - No change to specimen
8	2		4.0	Pass	1 st Impact - No change to specimen 2 nd Impact - No change to specimen

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Test Series No. 2 - 30-1/4 in by 60 in

Specimen No. 1

Ballistics

SHOT NO.	SHOT LOCATIONS ¹	SPECIMEN TEMP. (°F)	VELOCITY (fps)	RESULTS
1	N	68	3356	Penetrated
2	S		3491	Penetrated
3	W		3364	Penetrated
4	E		3403	Penetrated
5	NW		3508	Penetrated
6	SW		3407	Penetrated
7	NE		3427	Penetrated
8	SE		3397	Penetrated
9	C1		3343	Penetrated
10	C2		3382	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	69	0.5	Pass	1 st Impact - No change to specimen 2 nd Impact - No change to specimen
2	2		1.0	Pass	1 st Impact - No change to specimen 2 nd Impact - No change to specimen
3	2		1.5	Pass	1 st Impact - No change to specimen 2 nd Impact - No change to specimen
4	2		2.0	Pass	1 st Impact - No change to specimen 2 nd Impact - No change to specimen
5	2		2.5	Pass	1 st Impact - No change to specimen 2 nd Impact - No change to specimen
6	2		3.0	Pass	1 st Impact - No change to specimen 2 nd Impact - No change to specimen
7	2		3.5	Pass	1 st Impact - No change to specimen 2 nd Impact - No change to specimen
8	2		4.0	Pass	1 st Impact - No change to specimen 2 nd Impact - No change to specimen

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Specimen No. 2

Ballistics

SHOT NO.	SHOT LOCATIONS ¹	SPECIMEN TEMP. (°F)	VELOCITY (fps)	RESULTS
1	N	70	3456	Penetrated
2	S		3466	Penetrated
3	W		3476	Penetrated
4	E		3416	Penetrated
5	NW		3379	Penetrated
6	SW		3456	Penetrated
7	NE		3445	Penetrated
8	SE		3419	Penetrated
9	C1		3411	Penetrated
10	C2		3415	Penetrated

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

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LEVEL	NUMBER OF IMPACTS	SPECIMEN TEMP. (°F)	DROP HEIGHT (ft)	PASS/FAIL	RESULTS
1	2	71	0.5	Pass	1 st Impact - No change to specimen 2 nd Impact - No change to specimen
2	2		1.0	Pass	1 st Impact - No change to specimen 2 nd Impact - No change to specimen
3	2		1.5	Pass	1 st Impact - No change to specimen 2 nd Impact - No change to specimen
4	2		2.0	Pass	1 st Impact - No change to specimen 2 nd Impact - No change to specimen
5	2		2.5	Pass	1 st Impact - No change to specimen 2 nd Impact - No change to specimen
6	2		3.0	Pass	1 st Impact - No change to specimen 2 nd Impact - No change to specimen
7	2		3.5	Pass	1 st Impact - No change to specimen 2 nd Impact - No change to specimen
8	2		4.0	Pass	1 st Impact - No change to specimen 2 nd Impact - No change to specimen

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Specimen No. 3

Ballistics

SHOT NO.	SHOT LOCATIONS ¹	SPECIMEN TEMP. (°F)	VELOCITY (fps)	RESULTS
1	N	73	3451	Penetrated
2	S		3403	Penetrated
3	W		3483	Penetrated
4	E		3422	Penetrated
5	NW		3414	Penetrated
6	SW		3417	Penetrated
7	NE		3371	Penetrated
8	SE		3449	Penetrated
9	C1		3399	Penetrated
10	C2		3474	Penetrated

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

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LEVEL	NUMBER OF IMPACTS	SPECIMEN TEMP. (°F)	DROP HEIGHT (ft)	PASS/FAIL	RESULTS
1	2	72	0.5	Pass	1 st Impact - No change to specimen 2 nd Impact - No change to specimen
2	2		1.0	Pass	1 st Impact - No change to specimen 2 nd Impact - No change to specimen
3	2		1.5	Pass	1 st Impact - No change to specimen 2 nd Impact - No change to specimen
4	2		2.0	Pass	1 st Impact - No change to specimen 2 nd Impact - No change to specimen
5	2		2.5	Pass	1 st Impact - No change to specimen 2 nd Impact - No change to specimen
6	2		3.0	Pass	1 st Impact - No change to specimen 2 nd Impact - No change to specimen
7	2		3.5	Pass	1 st Impact - No change to specimen 2 nd Impact - No change to specimen
8	2		4.0	Pass	1 st Impact - No change to specimen 2 nd Impact - No change to specimen

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SECTION 10

PHOTOGRAPHS



Photo No. 1
Ballistics Range Setup



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

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Photo No. 3

Test Series No. 1/Specimen No. 1, Pre-Test Interior (Ballistics)



Photo No. 4

Test Series No. 1/Specimen No. 1, Post-Test Exterior (Ballistics)

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Photo No. 5

Test Series No. 1/Specimen No. 1, Post-Test Interior (Ballistics)



Photo No. 6

Test Series No. 1/Specimen No. 1, Pre-Test Exterior (Forced Entry)

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Photo No. 7

Test Series No. 1/Specimen No. 1, Post-Test Exterior (Forced Entry/Impact - Level 8)



Photo No. 8

Test Series No. 1/Specimen No. 1, Post-Test Interior (Forced Entry/Impact - Level 8)

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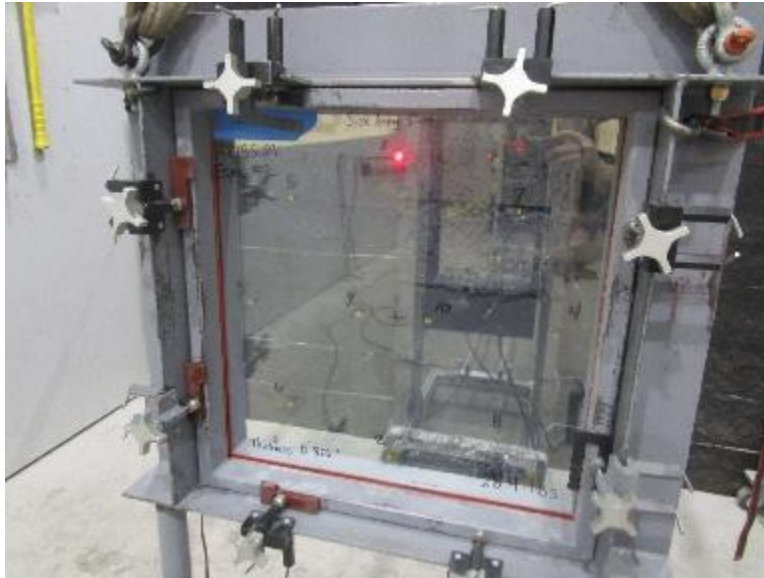


Photo No. 9

Test Series No. 1/Specimen No. 2, Pre-Test Exterior (Ballistics)



Photo No. 10

Test Series No. 1/Specimen No. 2, Pre-Test Interior (Ballistics)

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Photo No. 11

Test Series No. 1/Specimen No. 2, Post-Test Exterior (Ballistics)



Photo No. 12

Test Series No. 1/Specimen No. 2, Post-Test Interior (Ballistics)

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Photo No. 13

Test Series No. 1/Specimen No. 2, Pre-Test Exterior (Forced Entry)



Photo No. 14

Test Series No. 1/Specimen No. 2, Post-Test Exterior (Forced Entry - Level 8)

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Photo No. 15

Test Series No. 1/Specimen No. 2, Post-Test Interior (Forced Entry - Level 8)

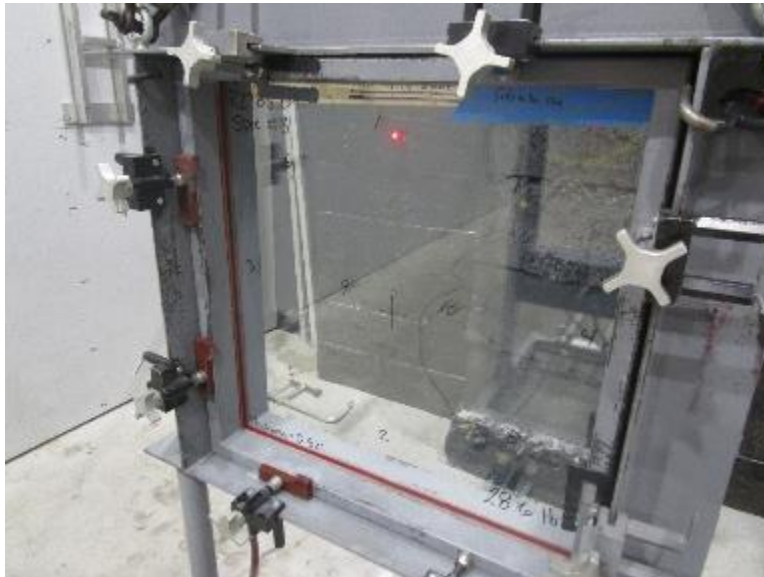


Photo No. 16

Test Series No. 1/Specimen No. 3, Pre-Test Exterior (Ballistics)

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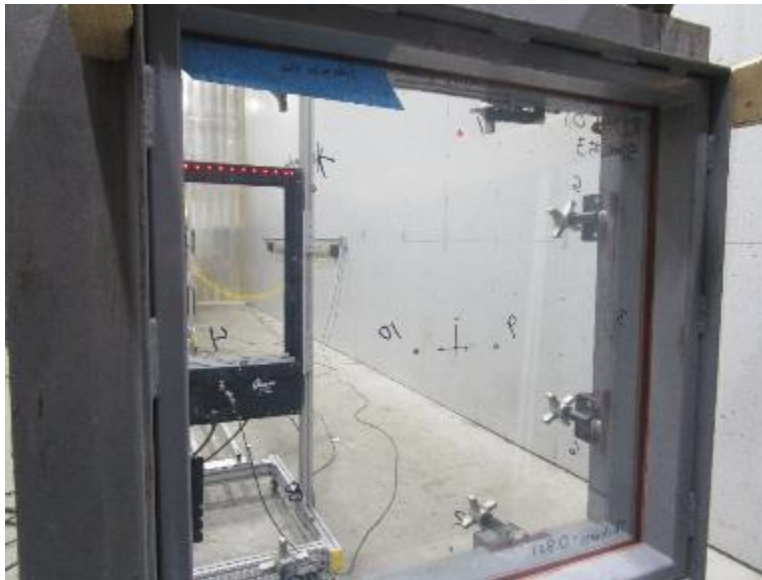


Photo No. 17

Test Series No. 1/Specimen No. 3, Pre-Test Interior (Ballistics)



Photo No. 18

Test Series No. 1/Specimen No. 3, Post-Test Exterior (Ballistics)

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Photo No. 19

Test Series No. 1/Specimen No. 3, Post-Test Interior (Ballistics)



Photo No. 20

Test Series No. 1/Specimen No. 3, Pre-Test Exterior (Forced Entry)

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Photo No. 21

Test Series No. 1/Specimen No. 3, Post-Test Exterior (Forced Entry - Level 8)



Photo No. 22

Test Series No. 1/Specimen No. 3, Post-Test Interior (Forced Entry - Level 8)

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Photo No. 23

Test Series No. 2/Specimen No. 1, Pre-Test Exterior (Ballistics)



Photo No. 24

Test Series No. 2/Specimen No. 1, Pre-Test Interior (Ballistics)

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Photo No. 25

Test Series No. 2/Specimen No. 1, Post-Test Exterior (Ballistics)



Photo No. 26

Test Series No. 2/Specimen No. 1, Post-Test Interior (Ballistics)

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Photo No. 27

Test Series No. 2/Specimen No. 1, Pre-Test Exterior (Forced Entry)



Photo No. 28

Test Series No. 2/Specimen No. 1, Post-Test Exterior (Forced Entry - Level 8)

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Photo No. 29

Test Series No. 2/Specimen No. 1, Post-Test Interior (Forced Entry - Level 8)



Photo No. 30

Test Series No. 2/Specimen No. 2, Pre-Test Exterior (Ballistics)

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Photo No. 31

Test Series No. 2/Specimen No. 2, Pre-Test Interior (Ballistics)



Photo No. 32

Test Series No. 2/Specimen No. 2, Post-Test Exterior (Ballistics)

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Photo No. 33

Test Series No. 2/Specimen No. 2, Post-Test Interior (Ballistics)



Photo No. 34

Test Series No. 2/Specimen No. 2, Pre-Test Exterior (Forced Entry)

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Photo No. 35

Test Series No. 2/Specimen No. 2, Post-Test Exterior (Forced Entry - Level 8)



Photo No. 36

Test Series No. 2/Specimen No. 2, Post-Test Interior (Forced Entry - Level 8)

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Photo No. 37

Test Series No. 2/Specimen No. 3, Pre-Test Exterior (Ballistics)



Photo No. 38

Test Series No. 2/Specimen No. 3, Pre-Test Interior (Ballistics)

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Photo No. 39

Test Series No. 2/Specimen No. 3, Post-Test Exterior (Ballistics)



Photo No. 40

Test Series No. 2/Specimen No. 3, Post-Test Interior (Ballistics)

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Photo No. 41

Test Series No. 2/Specimen No. 3, Pre-Test Exterior (Forced Entry)



Photo No. 42

Test Series No. 2/Specimen No. 3, Post-Test Exterior (Forced Entry - Level 8)

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Photo No. 43

Test Series No. 2/Specimen No. 3, Post-Test Interior (Forced Entry - Level 8)

SECTION 11

REVISION LOG

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