



SAFE HAVEN
— DEFENSE —

OUR REPORT

LABORATORY TESTINGS
08/2025



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York, Pennsylvania 17406

Telephone: 717-764-7700
Facsimile: 717-764-4129
www.intertek.com/building

TEST REPORT FOR SAFE HAVEN DEFENSE US LLC

Report No.: S1103.01-119-12 R0

Date: 01/21/25

REPORT ISSUED TO

SAFE HAVEN DEFENSE US LLC

22849 N. 19th Ave.

Suite 100

Pheonix, AZ 85027

SECTION 1

SCOPE

Architectural Testing, Inc. (an Intertek company) dba Intertek Building & Construction (B&C) was contracted by Safe Haven Defense US LLC to perform forced-entry-resistance after simulated active shooter attack in accordance with ASTM F3561 on various configurations of security glazing. Results obtained are tested values and were secured by using the designated test method. Testing was conducted at 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
TITLE: Team Lead - Ballistics

SIGNATURE:

DATE: 01/21/25


Digitally signed by
Eric J. Beaudoin
Date: 2025.01.21
12:20:15 -05'00'

REVIEWED BY: V. Thomas Mickley, Jr., P.E.
TITLE: Senior Staff Engineer

SIGNATURE:

DATE: 01/21/25


Digitally signed by: Virgal Thomas Mickley, Jr.

EJB:vtm/aas

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TEST REPORT FOR SAFE HAVEN DEFENSE US LLC

Report No.: S1103.01-119-12 R0

Date: 01/21/25

SECTION 2**SUMMARY OF TEST RESULTS**

SERIES NO.	DESIGNATION	FORCED-ENTRY RATING LEVEL ¹
1	Single Pane 1/4 in SHD Forced Entry	2
2	Dual Pane 1/4 in SHD Forced Entry	1
3	Dual Pane 1/4 in SHD Riot Control	2
4	Single Pane 1/4 in SHD Riot Control	3

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: 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 in wide rubber gasket to displace any glazing-to-steel interaction.

SECTION 5**LIST OF OFFICIAL OBSERVERS**

NAME	COMPANY
Eric J. Beaudoin	Intertek B&C

SAFE HAVEN DEFENSE LLC

BALLISTICS / FORCEDENTRY RESISTANCE TEST REPORT

SCOPE OF WORK

ASTM F3561 TESTING OF SW600 SERIES FILM ON 3/8 IN GLASS

REPORT NUMBER

Q8531.01-119-12 R0

TEST DATES

12/13/23 - 12/14/23

ISSUE DATE

04/12/24

RECORD RETENTION END DATE

12/14/27

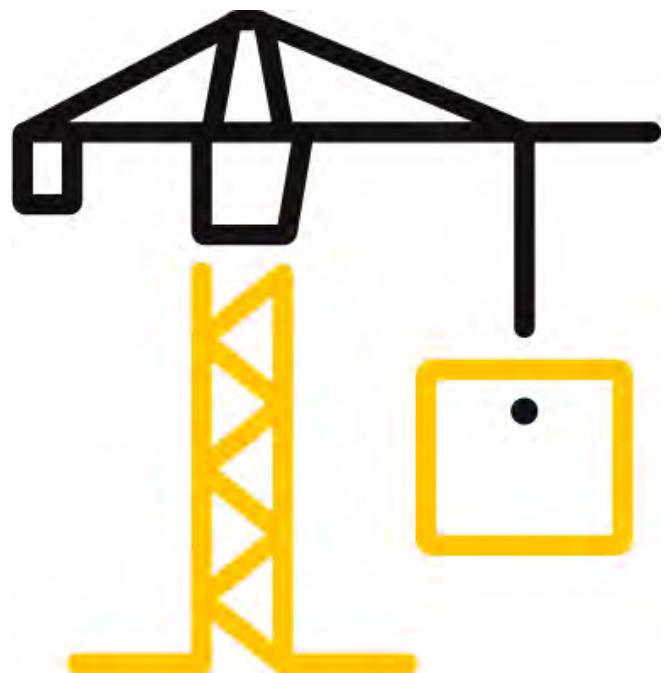
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DOCUMENT CONTROL NUMBER

RT-R-AMER-TEST-2788 (05/05/22)

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TEST REPORT FOR SAFE HAVEN DEFENSE LLC

Report No.: Q8531.01-119-12 R0

Date: 04/12/24

REPORT ISSUED TO

SAFE HAVEN DEFENSE LLC

3120 W Carefree Hwy 1-543

Phoenix, Arizona 85086

SECTION 1

SCOPE

Architectural Testing, Inc. (an Intertek company) dba Intertek Building & Construction (B&C) was contracted by Safe Haven Defense LLC to perform forced-entry-resistance of fenestration systems after simulated active shooter attack testing in accordance with ASTM F3561 on 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).

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SECTION 2

SUMMARY OF TEST RESULTS

COMPOSITION	FORCED-ENTRY RATING LEVEL
SW600 Series Film on 3/8 in glass	3

For INTERTEK B&C:

COMPLETED BY:	Travis A. Hoover
TITLE:	Senior Manager
SIGNATURE:	
DATE:	04/12/24

TAH:vtm/aas

REVIEWED BY:	V. Thomas Mickley, Jr., P.E.
TITLE:	Senior Staff Engineer
SIGNATURE:	
DATE:	04/12/24

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SAFE HAVEN DEFENSE LLC

GLASS WEAKENING / FORCED-ENTRY RESISTANCE TEST REPORT

SCOPE OF WORK

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

REPORT NUMBER

R4032.01-119-12

TEST DATES

06/10/24 - 06/12/24

ISSUE DATE

10/10/24

RECORD RETENTION END DATE

06/12/28

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DOCUMENT CONTROL NUMBER

RT-R-AMER-TEST-2788 (05/05/22)

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TEST REPORT FOR SAFE HAVEN DEFENSE LLC

Report No.: R4032.01-119-12

Date: 10/10/24

REPORT ISSUED TO

SAFE HAVEN DEFENSE LLC
3120 W Carefree Hwy 1-543
Phoenix, Arizona 85086

SECTION 1

SCOPE

Architectural Testing, Inc. (an Intertek company) dba Intertek Building & Construction (B&C) was contracted by Safe Haven 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).

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For INTERTEK B&C:

COMPLETED BY:	Eric J. Beaudoin
TITLE:	Team Lead - Ballistics
SIGNATURE:	 Digitally signed by Eric J. Beaudoin Date: 2024.10.10 16:13:21 -0400
DATE:	10/10/24

REVIEWED BY:	V. Thomas Mickley, Jr., P.E.
TITLE:	Senior Staff Engineer
SIGNATURE:	 Digitally Signed by V. Thomas Mickley, Jr.
DATE:	10/10/24

EJB:vtm/aas

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TEST REPORT FOR SAFE HAVEN DEFENSE LLC

Report No.: R4032.01-119-12

Date: 10/10/24

SECTION 2

SUMMARY OF TEST RESULTS

SERIES NO.	DESIGNATION	FORCED-ENTRY RATING LEVEL ¹
1	Single Pane 1/4 Inch	4
2	Dual Pane 1/4 Inch	4
3	Dual Pane 1/4 Inch on 1/2 Inch	6

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: 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 in wide rubber gasket to displace any glazing-to-steel interaction.

SECTION 5

LIST OF OFFICIAL OBSERVERS

NAME	COMPANY
Eric J. Beaudoin	Intertek B&C
Todd M. Wilt	Intertek B&C

SAFE HAVEN DEFENSE US LLC

GLASS WEAKENING/ FORCED-ENTRY RESISTANCE TEST REPORT

SCOPE OF WORK

ASTM F3561 (METHOD B) GLASS WEAKENING AND FORCED-ENTRY TESTING OF *SHD RIOT CONTROL* DUAL AND SINGLE PANE 1/4 IN LAMINATED GLASS

REPORT NUMBER

S4337.01-119-12 R0

TEST DATES

04/01/25

ISSUE DATE

04/28/25

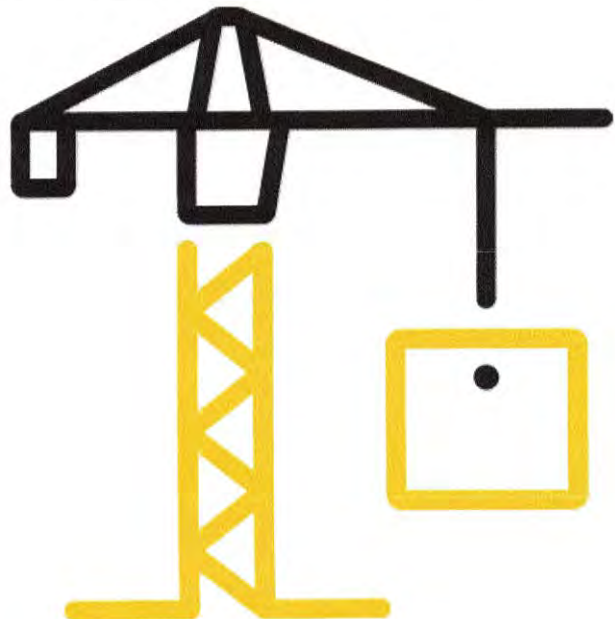
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TEST REPORT FOR SAFE HAVEN DEFENSE US LLC

Report No.: S4337.01-119-12 R0

Date: 04/28/25

REPORT ISSUED TO

SAFE HAVEN DEFENSE US LLC

16441 N 90th Street
Scottsdale, AZ 85260

SECTION 1

SCOPE

Architectural Testing, Inc. (an Intertek company) dba Intertek Building & Construction (B&C) was contracted by Safe Haven Defense US LLC to perform forced-entry-resistance after simulated active shooter attack testing in accordance with ASTM F3561 on *SHD Riot Control* dual and single pane 1/4 in laminates. Results obtained are tested values and were secured by using the designated test method. Testing was conducted at 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.

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For INTERTEK B&C:

COMPLETED BY:

Eric J. Beaudoin

TITLE:

Team Lead - Ballistics

SIGNATURE:

Digitally signed by
Eric J. Beaudoin
Date: 2025.04.28
15:23:05 -04'00'

DATE:

04/28/25

EJB:vtm/aas

REVIEWED BY:

V. Thomas Mickley, Jr., P.E.

TITLE:

Senior Staff Engineer

SIGNATURE:

Digitally Signed by: Virgil Thomas Mickley, Jr.

DATE:

04/28/25

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TEST REPORT FOR SAFE HAVEN DEFENSE US LLC

Report No.: S4337.01-119-12 R0

Date: 04/28/25

SECTION 2

SUMMARY OF TEST RESULTS

SERIES NO.	DESIGNATION	FORCED-ENTRY RATING LEVEL ¹
1	SHD Riot Control Dual Pane (1/4 in tempered) Insulating Glass Unit	6
2	SHD Riot Control Single Pane (1/4 in tempered) Glass Unit	3

¹ Lowest rating achieved on the three-sample set.

SECTION 3

TEST METHOD

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

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

Limitations

Testing conducted and reported herein applies to the noted glazing configuration only and does not apply to the glazing used in a door or window system. Per Section X1.1.2 of ASTM F3561, "Glazing evaluation by these methods does not allow for direct substitution without testing a full system."

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 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 in wide rubber gasket to displace any glazing-to-steel interaction.

SECTION 5

LIST OF OFFICIAL OBSERVERS

NAME	COMPANY
Eric J. Beaudoin	Intertek B&C
Jeffery R. Zwiener	Intertek B&C

Ballistic Testing Services

Report Number: BTR-03-01-2019-Sample 1

Phone: 800-513-4291 Email: techsupport@CloseFocusResearch.com

CloseFocusResearch.com

Name: Safe Haven Defense Inc.

Address: 3120 W Carefree Hwy, Suite 1-543, Phoenix, AZ 85086

Phone: Phone: 480-689-7871

Report Date: March 1, 2019

Contact: Steven Johnson

Email: steve@myshsinc.com

Ballistic Results

Project Summary

Type of Products to be tested: Single Pane Security Glazings

Test Specimen Sample size(s): 12 x 12 and 18 x 18 inch

Number of test specimens: 3 Samples

Weight of all samples: 16.6 lbs

Are Materials a Health Hazard: No

Need the Tests performed by: March 1, 2019

Need products shipped back: Customer Pickup

Purchase Order Number: Not Applicable

International Ballistic Standards / Specifications Testing

☐ ASTM ☐ Canadian ☐ FRA ☐ NIJ ☐ CFR Pass All☐ Australian ☐ EN1063 ☐ Germ DIN ☐ State Dept ☐ CFR SYA☐ British ☐ EN1522/23 ☐ MIL-SAMIT ☒ UL 752 ☐ Other

Test Standard: Underwriters Laboratory UL752

Particular Test: UL Level 7 (.223 cal. 5.56 NATO FMJ)

Velocity Range: 3,080 to 3,388 ft/s

Shots: 5 shots

Shot Pattern: 4.5 inch $\pm$ 0.5 inch square

Test Results

Test Sample: Sample 1
 Item / Part Number: 1 / SW440BR-AR
 Sample ID: SW440BR-14
 Sample Type: Single Pane Security Glazing System
 Sample Size: 12.0 x 12.0 inch (305 x 305 mm)
 Thickness: 0.5 inch (12.7 mm)
 Weight: 5.8 lbs (2.6 kg)
 Weapon Type: .223 caliber / 5.56 NATO
 Cartridge / Projectile Type: 5.56 NATO / M193 FMJ
 Projectile Weight: 55 grains
 Target Distance: 15 feet
 Number of Shots: 5 shots

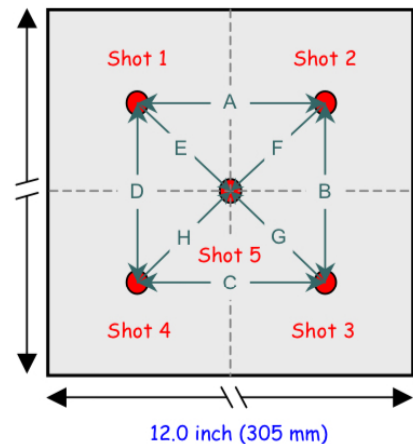
Shot Sequence:	Shot 1	Shot 2	Shot 3	Shot 4	Shot 5
Impact Velocity (ft/sec) *:	3,181	3,204	3,213	3,190	3,210
Impact Energy (ft-lbs):	1,236	1,253	1,261	1,243	1,258
Impact Momentum (lb-sec.):	0.78	0.78	0.78	0.78	0.78
Impact Angle (degrees):	0°	0°	0°	0°	0°
Sample Penetration:	NP	NP	NP	NP	NP
Witness Plate Penetration:	NP	NP	NP	NP	NP

Witness Plate & Spall Result:

Witness plate material: 0.125 in. thick corrugated cardboard
 Spall catch box: Not required
 Witness / Box Distance: 18.0 inches
 Spall Occurrence: No spall occurred
 Test Temperature: 68 ° F
 Test Date: March 01, 2019
 Pass / Fail Results: Passed the Test
 Comments:

Footnotes

* Velocity measurements were taken at a distance of 6 feet from muzzle.

12.0 inch
(305 mm)

Impact Spacing	(inches)	
A	4.80	Average
B	4.40	
C	4.20	
D	4.75	
E	3.30	Average
F	3.25	
G	3.25	
H	3.00	

NP = No Penetration
 PP = Partial Penetration
 CP = Complete Penetration
 N/A = Not Applicable

Test and Report Engineers

Tested and Reported by: Sam Raheb

Signature:

Date: March 1, 2019

Name: **Safe Haven Defense Inc.**Report Date: **March 1, 2019****Ballistic Test Results and Photographs****Ballistic Test Results:**

Test Sample 1 passed the Underwriters Laboratory UL752 UL Level 7 (.223 cal. 5.56 NATO FMJ) Ballistic test. There was no complete penetration of the test sample from any of the 5.56 NATO / M193 FMJ caliber projectiles.

Witness Plate and Spall Effects:

No spall occurred or damage to the 0.125 in. thick corrugated cardboard witness plate was observed.

Test and Report EngineersTested and Reported by: **Sam Raheb**Signature: Date: **March 1, 2019**

NATIONAL TECHNICAL SYSTEMS
BALLISTIC RESISTANCE TEST

Date Received: August 21, 2023
Via: Hand
Returned Via: Hand

Record No.: SHD23003-1
Test Date: October 9, 2023 Safe
Customer: Haven Defense

Test Conditions

Temperature: 68.4 F
Humidity: 44 %
Test Spec.: NIJ
Test Reference: Table 3.1 ICW Paragraph 17.2.1
Material Type: (Non-Metallic) Bullet Resisting Material
Threat Level: Level 1
Shots Required: 5

Range 3

Muzzle to Screen 1: 5.00 ft.
Screen 1 - 2: 5.00 ft.
Screen 2 - Target: 5.00 ft.
Midpoint to Target: 7.50 ft.
Target to Witness: 1.50 ft.
Witness: 2024-T3 Alum.
Barrel Length: 22 in.

Sample Description	Test / Ammunition Description					Chronograph		Test Result
Manufacturer: Safe Haven Defense	Shot No.	Shot Location	Degree Obliquity	Caliber	Bullet Weight (gr.) /Type	TIME sx-5	VELOCITY ft/s	Penetration
Model No.: SW600BR	1	TL TR	0°			498.0	1004	No Penetration
Sample No.: N/A	2		0°			615.8	812	No Penetration
Size (in.): 18 x 18	3	BR	0°			472.8	1058	No Penetration
Weight (lbs.): 14.486	4	BL	0°	.22 Cal	40 / Lead	473.8	1055	No Penetration
	5	C 0°				411.3	1216	No Penetration
	6	Top	0°			486.7	1027	No Penetration
	7	Top	0°			420.6	1189	No Penetration

This test was performed in accordance with the specification requirements and the results properly reflect the ballistic performance of the listed sample.

National Technical Systems, Inc.
7447 W. 33rd St. N.
Wichita, KS 67205 U.S.A.

Phone: 316-832-1600

Notes:

- Sample secured to test fixture using frame and clamps.
- Shot No. 1 and 2, insufficient velocity.

Test Round Used:

Test Round: .22 Cal 40gr. Lead
Test Velocity: 1050 +/- 40 ft/s

Shot Locations / Spacing (17.2.1):

Shot Location: Center of Panel
Shot Spacing: 5 Shot Dice Pattern
Shot No. 1: Top Left
Shot No. 2: Top Right
Shot No. 3: Bottom Right
Shot No. 4: Bottom Left
Shot No. 5: Center
Shot No. 6: Top
Shot No. 7: Top

Sample Description:

Glass (0.500" thick).

NATIONAL TECHNICAL SYSTEMS
BALLISTIC RESISTANCE TEST

Date Received: August 21, 2023
Via: Hand Returned Via:
Hand

Record No.: SHD23003-5
Test Date: October 9, 2023 Safe
Customer: Haven Defense

Test Conditions

Temperature: 70.9 F
Humidity: 40 %
Test Spec.: NIJ
Test Reference: Table 3.1 ICW Paragraph 17.2.1
Material Type: (Non-Metallic) Bullet Resisting Material
Threat Level: Level 1
Shots Required: 5

Range 3

Muzzle to Screen 1: 5.00 ft.
Screen 1 - 2: 5.00 ft.
Screen 2 - Target: 5.00 ft.
Midpoint to Target: 7.50 ft.
Target to Witness: 1.50 ft.
Witness: 2024-T3 Alum.
Barrel Length: 10 in.

Sample Description	Test / Ammunition Description					Chronograph		Test Result
Manufacturer: Safe Haven Defense	Shot No.	Shot Location	Degree Obliquity	Caliber	Bullet Weight (gr.) /Type	TIME sx-5	VELOCITY ft/s	Penetration
Model No.: SW600BR	1	TL	0°			590.0	847	No Penetration
Sample No.: N/A	2	TR	0°			568.0	880	No Penetration
Size (in.): 18x18	3	BR	0°	.38 Special	158 / Lead	598.4	836	No Penetration
Weight (lbs.): 14.508	4	BL	0°			592.4	844	No Penetration
	5	Center	0°			580.8	861	No Penetration

This test was performed in accordance with the specification requirements and the results properly reflect the ballistic performance of the listed sample.

National Technical Systems, Inc.
7447 W. 33rd St. N.
Wichita, KS 67205 U.S.A.

Phone: 316-832-1600

Notes:

*Sample secured to test fixture using frame and clamps.

Test Round Used:

Test Round: .38 Special 158gr. Lead
Test Velocity: 850 +/- 50 ft/s

Shot Locations / Spacing (17.2.1):

Shot Location: Center of Panel
Shot Spacing: 5 Shot Dice Pattern
Shot No. 1: Top Left
Shot No. 2: Top Right
Shot No. 3: Bottom Right
Shot No. 4: Bottom Left
Shot No. 5: Center

Sample Description:

Glass (0.500" thick).

NATIONAL TECHNICAL SYSTEMS

BALLISTIC RESISTANCE TEST

Date Received: October 9, 2023
Via: Hand Returned Via:
Hand

Record No.: SHD23003-2
Test Date: October 9, 2023 Safe
Customer: Haven Defense

Test Conditions

Temperature: 67.7 F
Humidity: 47 %
Test Spec.: NIJ
Test Reference: Table 3.1 ICW Paragraph 17.2.1
Material Type: (Non-Metallic) Bullet Resisting Material
Threat Level: Level 1
Shots Required: 5

Range 3

Muzzle to Screen 1: 5.00 ft.
Screen 1 - 2: 5.00 ft.
Screen 2 - Target: 5.00 ft.
Midpoint to Target: 7.50 ft.
Target to Witness: 1.50 ft.
Witness: 2024-T3 Alum.
Barrel Length: 22 in.

Sample Description	Test / Ammunition Description					Chronograph		Test Result
Manufacturer: Safe Haven Defense	Shot No.	Shot Location	Degree Obliquity	Caliber	Bullet Weight (gr.) /Type	TIME sx-5	VELOCITY ft/s	Penetration No Penetration
Model No.: SW600BR	1	TL	0°	.22 Cal	40 / Lead	666.4	750	No Penetration
Sample No.: N/A	2	TR	0°			431.6	1158	No Penetration
Size (in.): 18 x 18	3	BR	0°			445.1	1123	No Penetration
Weight (lbs.): 8.900	4	BL	0°			459.5	1088	No Penetration
	5	C 0°				418.8	1194	No Penetration
	6	TL	0°			468.7	1067	No Penetration

This test was performed in accordance with the specification requirements and the results properly reflect the ballistic performance of the listed sample.

National Technical Systems, Inc.
7447 W. 33rd St. N.
Wichita, KS 67205 U.S.A.

Phone: 316-832-1600

Notes:

- Sample secured to test fixture using frame and clamps.
- Shot No. 1, insufficient velocity.

Test Round Used:

Test Round: .22 Cal 40gr. Lead
Test Velocity: 1050 +/- 40 ft/s

Shot Locations / Spacing (17.2.1):

Shot Location: Center of Panel
Shot Spacing: 5 Shot Dice Pattern
Shot No. 1: Top Left
Shot No. 2: Top Right
Shot No. 3: Bottom Right
Shot No. 4: Bottom Left
Shot No. 5: Center
Shot No. 6: Top Left

Sample Description:

Glass (0.250" thick)

Montgomery / Wilson

NATIONAL TECHNICAL SYSTEMS

BALLISTIC RESISTANCE TEST

Date Received: August 21, 2023
Via: Hand Returned Via:
Hand

Record No.: SHD23003-8
Test Date: October 9, 2023 Safe
Customer: Haven Defense

Test Conditions

Temperature: 72.4 F
Humidity: 36 %
Test Spec.: NIJ
Test Reference: Table 3.1 ICW Paragraph 17.2.1
Material Type: (Non-Metallic) Bullet Resisting Material
Threat Level: Level 1
Shots Required: 5

Range 3

Muzzle to Screen 1: 5.00 ft.
Screen 1 - 2: 5.00 ft.
Screen 2 - Target: 5.00 ft.
Midpoint to Target: 7.50 ft.
Target to Witness: 1.50 ft.
Witness: 2024-T3 Alum.
Barrel Length: 10 in.

Sample Description	Test / Ammunition Description					Chronograph		Test Result
Manufacturer: Safe Haven Defense	Shot No.	Shot Location	Degree Obliquity	Caliber	Bullet Weight (gr.) /Type	TIME sx-5	VELOCITY ft/s	Penetration
Model No.: SW600BR	1	TL	0°			540.0	926	No Penetration
Sample No.: N/A	2	TR	0°			510.0	980	No Penetration
Size (in.): 18 x 18	3	BR	0°	.38 Special	158 / Lead	582.4	859	No Penetration
Weight (lbs.): 9.114	4	BL	0°			584.0	856	No Penetration
	5	Center	0°			593.0	843	No Penetration

This test was performed in accordance with the specification requirements and the results properly reflect the ballistic performance of the listed sample.

National Technical Systems, Inc.
7447 W. 33rd St. N.
Wichita, KS 67205 U.S.A.

Phone: 316-832-1600

Notes:

*Sample secured to test fixture using frame and clamps

Test Round Used:

Test Round: .38 Special 158gr. Lead
Test Velocity: 850 +/- 50 ft/s

Shot Locations / Spacing (17.2.1):

Shot Location: Center of Panel
Shot Spacing: 5 Shot Dice Pattern
Shot No. 1: Top Left
Shot No. 2: Top Right
Shot No. 3: Bottom Right
Shot No. 4: Bottom Left
Shot No. 5: Center

Sample Description:

Glass (0.250" thick).

Montgomery / Wilson

NATIONAL TECHNICAL SYSTEMS
BALLISTIC RESISTANCE TEST

Date Received: August 21, 2023
Via: Hand Returned Via:
Hand

Record No.: SHD23003-4
Test Date: October 9, 2023 Safe
Customer: Haven Defense

Test Conditions

Temperature: 70.0 F
Humidity: 42 %
Test Spec.: NIJ
Test Reference: Table 3.1 ICW Paragraph 17.2.1
Material Type: (Non-Metallic) Bullet Resisting Material
Threat Level: Level 1
Shots Required: 5

Range 3

Muzzle to Screen 1: 5.00 ft.
Screen 1 - 2: 5.00 ft.
Screen 2 - Target: 5.00 ft.
Midpoint to Target: 7.50 ft.
Target to Witness: 1.50 ft.
Witness: 2024-T3 Alum.
Barrel Length: 22 in.

Sample Description		Test / Ammunition Description				Chronograph		Test Result
Manufacturer:	Safe Haven Defense	Shot Shot	Degree	Caliber	Bullet	TIME	VELOCITY	Penetration
Model No.:	SW600BR	No.	Location	Obliquity	Weight (gr.) /Type	sx-5	ft/s	No Penetration
Sample No.:	N/A	1	TL	0°		453.4	1103	No Penetration
Size (in.):	18 x 18	2	TR	0°		444.1	1126	No Penetration
Weight (lbs.):	16.492	3	BR	0°	.22 Cal	429.7	1164	No Penetration
		4	BL	0°	40 / Lead	455.0	1099	No Penetration
		5	Center	0°		409.9	1220	No Penetration

This test was performed in accordance with the specification requirements and the results properly reflect the ballistic performance of the listed sample.

National Technical Systems, Inc.
7447 W. 33rd St. N.
Wichita, KS 67205 U.S.A.

Phone: 316-832-1600

Notes:

*Sample secured to test fixture using frame and clamps.

Test Round Used:

Test Round: .22 Cal 40gr. Lead
Test Velocity: 1050 +/- 40 ft/s

Shot Locations / Spacing (17.2.1):

Shot Location: Center of Panel
Shot Spacing: 5 Shot Dice Pattern
Shot No. 1: Top Left
Shot No. 2: Top Right
Shot No. 3: Bottom Right
Shot No. 4: Bottom Left
Shot No. 5: Center

Sample Description:

Glass (2 x 0.250" thick w/ air gap).

NATIONAL TECHNICAL SYSTEMS
BALLISTIC RESISTANCE TEST

Date Received: August 21, 2023

Via: Returned Hand

Via: Hand

Record No.: SHD23003-7

Test Date: October 9, 2023 Safe

Customer: Haven Defense

Test Conditions

Temperature: 72 F

Humidity: 37 %

Test Spec.: NIJ

Test Reference: Table 3.1 ICW Paragraph 17.2.1

Material Type: (Non-Metallic) Bullet Resisting Material

Threat Level: Level 1

Shots Required: 5

Range 3

Muzzle to Screen 1: 5.00 ft.

Screen 1 - 2: 5.00 ft.

Screen 2 - Target: 5.00 ft.

Midpoint to Target: 7.50 ft.

Target to Witness: 1.50 ft.

Witness: 2024-T3 Alum.

Barrel Length: 10 in.

Sample Description	Test / Ammunition Description					Chronograph		Test Result
Manufacturer: Safe Haven Defense	Shot No.	Shot Location	Degree Obliquity	Caliber	Bullet Weight (gr.) /Type	TIME sx-5	VELOCITY ft/s	Penetration
Model No.: SW600BR	1	TL	0°			560.0	893	No Penetration
Sample No.: N/A	2	TR	0°			591.4	845	No Penetration
Size (in.): 18x18	3	BR	0°	.38 Special	158 / Lead	612.0	817	No Penetration
Weight (lbs.): 16.402	4	BL	0°			558.0	896	No Penetration
	5	Center	0°			605.8	825	No Penetration

This test was performed in accordance with the specification requirements and the results properly reflect the ballistic performance of the listed sample.

National Technical Systems, Inc.
7447 W. 33rd St. N.
Wichita, KS 67205 U.S.A.

Phone: 316-832-1600

Notes:
*Sample secured to test fixture using frame and clamps.

Test Round Used:
Test Round: .38 Special 158gr. Lead
Test Velocity: 850 +/- 50 ft/s

Shot Locations / Spacing (17.2.1):
Shot Location: Center of Panel
Shot Spacing: 5 Shot Dice Pattern
Shot No. 1: Top Left
Shot No. 2: Top Right
Shot No. 3: Bottom Right
Shot No. 4: Bottom Left
Shot No. 5: Center

Sample Description:
Glass (2 x 0.250" thick w/ air gap).

ELEMENT MATERIALS TECHNOLOGY WICHITA

BALLISTIC RESISTANCE TEST

Date Received: December 30, 2024

Via: Hand

Returned Via: Hand

Record No.: SHD24004-2

Test Date: December 30, 2024

Customer: Safe Haven Defense

Test Conditions

Temperature: 71.1 °F
Humidity: 43 %
Test Standard: NIJ Standard 0108.01, September 1985
Ballistic Resistant Protective Materials
Classification: Type I (22LR, 38 Special)
Test Reference: IAW Section 4.4, Table 1.
Shots Required: 10 (5-Shots per Threat)
Conditioning: Ambient (Dry)

Range 3

Muzzle to Screen 1: 5.00 ft.
Screen 1 - 2: 5.00 ft.
Screen 2 - Target: 5.50 ft.
Midpoint to Target: 8.00 ft.
Target to Witness: 0.50 in.
Witness: 2024-T3 Aluminum

Sample Tested Description		Test / Ammunition Description					Chronograph		Test Results
Manufacturer:	Safe Haven Defense	Shot	Shot	Degree	Caliber	Bullet	TIME	VELOCITY	Penetration
Model No.:	SW600BR (Tempered Glass)	No.	Location	Obliquity		Weight (gr.) /Type	sx-5	ft/s	No Penetration
Sample No.:	See Below	1	Top Left	0°			451.9	1106	No Penetration
Size:	18 x 18	2	Top Right	0°			454.7	1100	No Penetration
Thickness:	See Below	3	Bottom Left	0°	22 LR	40 / LRHV	459.3	1089	No Penetration
Weight (lbs.):	See Below	4	Bottom Right	0°			465.3	1075	No Penetration
		5	Center	0°			463.5	1079	No Penetration
		6	Top Left	0°			580.6	861	No Penetration
		7	Top Right	0°			569.6	878	No Penetration
		8	Bottom Left	0°	38 Special	158 / LRN	550.8	908	No Penetration
		9	Bottom Right	0°			566.7	882	No Penetration
		10	Center	0°			570.8	876	No Penetration

This test was performed in accordance with the specification requirements and the results properly reflect the ballistic performance of the listed sample.

Element Materials Technology
7447 W. 33rd St. N.
Wichita, KS 67205 U.S.A.

Phone 316-832-1600

REMARKS / NOTES:

•Sample secured in customer provided wooden frame.

	Weight (lbs.)	Total Thickness (in.)
Sample 1	9.039	0.25 Tempered
Sample 2	9.680	0.25 Tempered

Shots 1-5: Test Weapon and Ammunition Used (IAW Section 4.4, Table 1.):

Reference: IAW Section 5.2.1.1
Ammunition: .22 Long Rifle, 40 gr. (15.55g) Lead Round Nose High Velocity (LRNHV)
Weapon: 10" .22 LR Barrel ICW Universal Receiver
Propellant: Factory Load
Test Velocity: 1050 +/- 50 ft/s (320 +/- 15 m/s)

Shots 6-10: Test Weapon and Ammunition Used (IAW Section 4.4, Table 1.):

Reference: IAW Section 5.2.1.2
Ammunition: .38 Special, 158 gr. (15.55g) Lead Round Nose (LRN)
Weapon: 8" .357 Magnum Barrel ICW Universal Receiver
Propellant: Clays
Test Velocity: 850 +/- 50 ft/s (259 +/- 15 m/s)

Shot Locations / Spacing:

• Minimum Requirement: 2.0" (50mm) shot-to-edge and shot-to-shot spacing per Paragraph 3.2 Fair Hit.
Shots 1 - 5 (.22 LR):
Shots 6 - 10 (.38 Special):

Sample Description:

•Customer Proprietary

Project Manager: Nold Technician(s): Montgomery

ELEMENT MATERIALS TECHNOLOGY WICHITA
BALLISTIC RESISTANCE TEST

Date Received: 08/15/24
Via: Hand
Returned Via: Hand

Record No.: SHD24002-1
Test Date: 08/15/24
Customer: Safe Haven Defense

Test Conditions

Temperature: 72 °F
Humidity: 53 %
Test Standard: NIJ Standard 0108.01, September 1985
Ballistic Resistant Protective Materials
Classification: Type I (22LR, 38 Special)
Test Reference: IAW Section 4.4, Table 1.
Shots Required: 10 (5-Shots per Threat)
Conditioning: Ambient (Dry)

Range 2

Muzzle to Screen 1: 5.00 ft.
Screen 1 - 2: 5.00 ft.
Screen 2 - Target: 5.50 ft.
Midpoint to Target: 8.00 ft.
Target to Witness: 0.50 in.
Witness: 2024-T3 Aluminum

Sample Tested Description		Test / Ammunition Description					Chronograph		Test Results		
Manufacturer:	Safe Haven Defense	Shot	Shot	Degree	Caliber	Bullet	TIME	VELOCITY	Penetration		
Model No.:	SW600 BR	No PenetrationNo. Location Obliquity Weight (gr.) /Type sx-5 ft/s No Penetration1 Top Left 0° 452.7 1104 No Penetration2 Top Right 0°					459.8	1067.3	Bottom Left 0° 22 LR 40 / LRHV No Penetration470.5	1062	No Penetration4 Bottom Right 0° 463.7
Sample No.:	See Below										
Size:	18 x 18 See	1078									
Thickness:	Below See										
Weight (lbs.):	Below										
		No Penetration5 Center 0° 464.2 1077 No Penetration6 Top Left 0° 598.7 835 No Penetration7 Top Right 0° 587.8					851.8	Bottom Left 0° 38 Special 158 / LRN No Penetration563.3	888	No Penetration9 Bottom Right 0° 565.6	884
</											

This test was performed in accordance with the specification requirements and the results properly reflect the ballistic performance of the listed sample.

Element Materials Technology
7447 W. 33rd St. N.
Wichita, KS 67205 U.S.A.

Phone 316-832-1600

REMARKS / NOTES:

- Sample secured in customer provided wooden frame.
- See attached photos

	Weight (lbs.)	Total Thickness (in.)
Sample 1	6.072 + 7.668	0.613
Sample 2	6.404 + 7.672	0.635

Shots 1-5: Test Weapon and Ammunition Used (IAW Section 4.4, Table 1.):

Reference: IAW Section 5.2.1.1
Ammunition: .22 Long Rifle, 40 gr. (15.55g) Lead Round Nose High Velocity (LRNHV)
Weapon: 10" .22 LR Barrel ICW Universal Receiver
Propellant: Factory Load
Test Velocity: 1050 +/- 50 ft/s (320 +/- 15 m/s)

Shots 6-10: Test Weapon and Ammunition Used (IAW Section 4.4, Table 1.):

Reference: IAW Section 5.2.1.2
Ammunition: .38 Special, 158 gr. (15.55g) Lead Round Nose (LRN)
Weapon: 8" .357 Magnum Barrel ICW Universal Receiver
Propellant: Clays
Test Velocity: 850 +/- 50 ft/s (259 +/- 15 m/s)

Shot Locations / Spacing:

- Minimum Requirement: 2.0" (50mm) shot-to-edge and shot-to-shot spacing per Paragraph 3.2 Fair Hit.
- Shots 1 - 5 (.22 LR):
Shots 6 - 10 (.38 Special):

Sample Description:

- Customer Proprietary

Project Manager: Wilson Technician(s): Nguyen

NATIONAL TECHNICAL SYSTEMS
BALLISTIC RESISTANCE TEST

Date Received: June 15, 2023
Via: Hand
Returned Via: Hand

Record No.: SHD23001-1
Test Date: June 15, 2023
Customer: Safe Haven Defense

Test Conditions

Temperature: 71.8 °F
Humidity: 51 %
Test Standard: Modified / Abbreviated NIJ 0108.01, September 1985
Threat Level: II
Shots Required: 5

Range 2

Muzzle to Screen 1: 5.48 ft.
Screen 1 - 2: 5.00 ft.
Screen 2 - Target: 6.17 ft.
Midpoint to Target: 8.67 ft.
Target to Witness: 0.50 ft.
Witness Material: 2024-T3 Alum.
Barrel Length: 10 in.

Sample Tested Description	Shot / Ammunition Description					Chronograph		Test Results
Manufacturer: Safe Haven Defense Model No.: SW600BR Material Type: Glass Size (in.): 18 x 18 Sample No.: 1 Thickness (in.): 1.00 Weight (lbs.): 16.342	Shot No.	Shot Location	Degree Obliquity	Caliber	Bullet Weight (gr.) /Type	TIME sx-5	VELOCITY ft/s	Penetration No Penetration
	1	Top Left				411.8	1214	No Penetration
	2	Top Right				406.6	1230	No Penetration
	3	Bottom Right	0°	9mm	124 / FMJ	421.8	1185	No Penetration
	4	Bottom Left				420.1	1190	No Penetration
	5	Center				424.6	1178	No Penetration

This test was performed in accordance with the specification requirements and the results properly reflect the ballistic performance of the listed sample.

National Technical Systems, Inc.
7447 W. 33rd St. N.
Wichita, KS 67205 U.S.A.

Phone: 316-832-1600

Notes:

- Sample secured using clamps (one at each corner), and customer supplied frame.

Ammunition Description:

Remington 9mm 124 gr. FMJ (23558)
Test Velocity: 1175 +/- 40 ft/s

Shot Locations / Spacing:

- Minimum Requirement: 2.0" shot-to-edge and shot-to-shot spacing IAW Paragraph 3.2 Fair Hit.
- Shot Pattern: 5 Shot Dice Pattern

Sample Description:

2 x 0.25" Panes with 0.5" Air Gap.

Project Manager: Wilson
Range Tech(s): Randolph

NATIONAL TECHNICAL SYSTEMS

BALLISTIC RESISTANCE TEST

Date Received: June 15, 2023
Via: Hand
Returned Via: Hand

Record No.: SHD23001-2
Test Date: June 15, 2023
Customer: Safe Haven Defense

Test Conditions

Temperature: 70 °F
Humidity: 44 %
Test Standard: Modified / Abbreviated NIJ 0108.01, September 1985
Threat Level: II
Shots Required: 5

Range 2

Muzzle to Screen 1: 5.48 ft.
Screen 1 - 2: 5.00 ft.
Screen 2 - Target: 6.17 ft.
Midpoint to Target: 8.67 ft.
Target to Witness: 0.50 ft.
Witness Material: 2024-T3 Alum.
Barrel Length: 10 in.

Sample Tested Description		Shot / Ammunition Description					Chronograph		Test Results
Manufacturer:	Safe Haven Defense	Shot No.	Shot Location	Degree Obliquity	Caliber	Bullet Weight (gr.) /Type	TIME sx-5	VELOCITY ft/s	Penetration No Penetration
Model No.:	SW600BR	1	Top Left				356.0	1404	No Penetration
Material Type:	Glass	2	Top Right				354.5	1410	No Penetration
Size (in.):	18 x 18	3	Bottom Right	0°	.357 Mag.	158 / JSP	358.6	1394	No Penetration
Sample No.:	2	4	Bottom Left				357.4	1399	No Penetration
Thickness (in.):	1.00	5	Center				358.9	1393	No Penetration
Weight (lbs.):	16.674								

This test was performed in accordance with the specification requirements and the results properly reflect the ballistic performance of the listed sample.

National Technical Systems, Inc.
7447 W. 33rd St. N. Wichita, KS
67205 U.S.A.

Phone: 316-832-1600

Notes:

• Sample secured using clamps (one at each corner), and customer supplied frame.

Ammunition Description:

Remington .357 Magnum 158 gr. JSP (22847)
Test Velocity: 1395 +/- 50 ft/s

Shot Locations / Spacing:

- Minimum Requirement: 2.0" shot-to-edge and shot-to-shot spacing IAW Paragraph 3.2 Fair Hit.
- Shot Pattern: 5 Shot Dice Pattern

Sample Description:

2 x 0.25" Panes with 0.5" Air Gap.

Project Manager: Wilson
Range Tech(s): Randolph

NATIONAL TECHNICAL SYSTEMS

BALLISTIC RESISTANCE TEST

Date Received: August 21, 2023
Via: Hand Returned Via:
Hand

Record No.: SHD23003-11
Test Date: October 9, 2023 Safe
Customer: Haven Defense

Test Conditions

Temperature: 72.4 F
Humidity: 35 %
Test Spec.: UL 752
Test Reference: Table 3.1 ICW Paragraph 17.2.1
Material Type: (Non-Metallic) Bullet Resisting Material
Threat Level: Level 1
Shots Required: 5

Range 3

Muzzle to Screen 1: 5.00 ft.
Screen 1 - 2: 5.00 ft.
Screen 2 - Target: 5.00 ft.
Midpoint to Target: 7.50 ft.
Target to Witness: 1.50 ft.
Witness: 1/8" Corrugated Cardboard
Barrel Length: 4 in.

Sample Description	Test / Ammunition Description					Chronograph		Test Result
Manufacturer: Safe Haven Defense Model No.: SW600BR Sample No.: N/A Size (in.): 18 x 18 Weight (lbs.): 15.636	Shot No.	Shot Location	Degree Obliquity	Caliber	Bullet Weight (gr.) /Type	TIME sx-5	VELOCITY ft/s	Penetration No Penetration
	1	C BL	0°			432.2	1157	No Penetration
	2		0°			430.3	1162	No Penetration
	3	BR	0°	9mm	124 / FMJ	426.4	1173	No Penetration
	4	TR	0°			406.4	1230	No Penetration
	5	TR	0°			430.1	1163	No Penetration
	6	Edge	0°			427.8	1169	No Penetration

This test was performed in accordance with the specification requirements and the results properly reflect the ballistic performance of the listed sample.

National Technical Systems, Inc.
7447 W. 33rd St. N.
Wichita, KS 67205 U.S.A.

Phone: 316-832-1600

Notes:

*Sample secured to test fixture using frame and clamps.

Test Round Used:

Test Round: Remington 9mm, 124 gr. (8.0g) FMJ RN (23558)
Test Velocity: 1175 +/- 40 ft/s

Shot Locations / Spacing (17.2.1):

Shot Location: N/A
Shot No. 1: Center 4.0 +/- 0.50"
Shot No. 2: Bottom Left Triangle
Shot No. 3: Bottom Right
Shot No. 4: Top Right 1.25"-1.75"
Shot No. 5: Top Right Apart
Shot No. 6: Edge 1.00"-1.50" From a Free Edge

Sample Description:

Glass (0.500" thick).

Montgomery / Wilson

NATIONAL TECHNICAL SYSTEMS

BALLISTIC RESISTANCE TEST

Date Received: August 21, 2023
 Via: Hand
 Returned Via: Hand

Record No.: SHD23003-12
 Test Date: October 9, 2023
 Customer: Safe Haven Defense

Test Conditions

Temperature: 72.8 F
 Humidity: 33 %
 Test Spec.: UL 752
 Test Reference: Table 3.1 ICW Paragraph 17.2.1
 Material Type: (Non-Metallic) Bullet Resisting Material
 Threat Level: Level 1
 Shots Required: 5

Range 3

Muzzle to Screen 1: 5.00 ft.
 Screen 1 - 2: 5.00 ft.
 Screen 2 - Target: 5.00 ft.
 Midpoint to Target: 7.50 ft.
 Target to Witness: 1.50 ft.
 Witness: 1/8" Corrugated Cardboard
 Barrel Length: 4 in.

Sample Description	Test / Ammunition Description					Chronograph		Test Result
Manufacturer: Safe Haven Defense	Shot No.	Shot Location	Degree Obliquity	Caliber	Bullet Weight (gr.) /Type	TIME sx-5	VELOCITY ft/s	Penetration
Model No.: SW600BR	1	C BL	0°			438.2	1141	No Penetration
Sample No.: N/A	2		0°			431.1	1160	No Penetration
Size (in.): 18 x 18	3	BR	0°	9mm	124 / FMJ	417.1	1199	No Penetration
Weight (lbs.): 17.048	4	TR	0°			426.7	1172	No Penetration
	5	TR	0°			425.3	1176	No Penetration
	6	Edge	0°			429.4	1164	No Penetration

This test was performed in accordance with the specification requirements and the results properly reflect the ballistic performance of the listed sample.

National Technical Systems, Inc.
 7447 W. 33rd St. N.
 Wichita, KS 67205 U.S.A.

Phone: 316-832-1600

Notes:

*Sample secured to test fixture using frame and clamps

Test Round Used:

Test Round: Remington 9mm, 124 gr. (8.0g) FMJ RN (23558)
 Test Velocity: 1175 +/- 40 ft/s

Shot Locations / Spacing (17.2.1):

Shot Location: N/A
 Shot No. 1: Center 4.0 +/- 0.50"
 Shot No. 2: Bottom Left Triangle
 Shot No. 3: Bottom Right
 Shot No. 4: Top Right 1.25"-1.75"
 Shot No. 5: Top Right Apart
 Shot No. 6: Edge 1.00"-1.50" From a Free Edge

Sample Description:

Glass (2x 0.250" thick w/ air gap).

Montgomery / Wilson

NATIONAL TECHNICAL SYSTEMS

BALLISTIC RESISTANCE TEST

Date Received: August 21, 2023
Via: Hand
Returned Via: Hand

Record No.: SHD23003-12
Test Date: October 9, 2023 Safe
Customer: Haven Defense

Test Conditions

Temperature: 72.8 F
Humidity: 33 %
Test Spec.: UL 752
Test Reference: Table 3.1 ICW Paragraph 17.2.1
Material Type: (Non-Metallic) Bullet Resisting Material
Threat Level: Level 1
Shots Required: 5

Range 3

Muzzle to Screen 1: 5.00 ft.
Screen 1 - 2: 5.00 ft.
Screen 2 - Target: 5.00 ft.
Midpoint to Target: 7.50 ft.
Target to Witness: 1.50 ft.
Witness: 1/8" Corrugated Cardboard
Barrel Length: 4 in.

Sample Description	Test / Ammunition Description					Chronograph		Test Result
Manufacturer: Safe Haven Defense	Shot No.	Shot Location	Degree Obliquity	Caliber	Bullet Weight (gr.) /Type	TIME sx-5	VELOCITY ft/s	Penetration
Model No.: SW600BR	1	C BL	0°			438.2	1141	No Penetration
Sample No.: N/A	2		0°			431.1	1160	No Penetration
Size (in.): 18 x 18	3	BR	0°	9mm	124 / FMJ	417.1	1199	No Penetration
Weight (lbs.): 17.048	4	TR	0°			426.7	1172	No Penetration
	5	TR	0°			425.3	1176	No Penetration
	6	Edge	0°			429.4	1164	No Penetration

This test was performed in accordance with the specification requirements and the results properly reflect the ballistic performance of the listed sample.

National Technical Systems, Inc.
7447 W. 33rd St. N.
Wichita, KS 67205 U.S.A.

Phone: 316-832-1600

Notes:

*Sample secured to test fixture using frame and clamps

Test Round Used:

Test Round: Remington 9mm, 124 gr. (8.0g) FMJ RN (23558)
Test Velocity: 1175 +/- 40 ft/s

Shot Locations / Spacing (17.2.1):

Shot Location: N/A
Shot No. 1: Center 4.0 +/- 0.50"
Shot No. 2: Bottom Left Triangle
Shot No. 3: Bottom Right
Shot No. 4: Top Right 1.25"-1.75"
Shot No. 5: Top Right Apart
Shot No. 6: Edge 1.00"-1.50" From a Free Edge

Sample Description:

Glass (2x 0.250" thick w/ air gap).

Montgomery / Wilson

ELEMENT MATERIALS TECHNOLOGY WICHITA

BALLISTIC RESISTANCE TEST

Date Received: December 30, 2024

Via: Hand

Returned Via: Hand

Record No.: SHD24004-1

Test Date: December 30, 2024

Customer: Safe Haven Defense

Test Conditions

Temperature: 70.1 F

Humidity: 50 %

Test Spec.: UL 752, 11th Edition: December 21, 2006

Test Reference: Table 3.1 ICW Paragraph 17.2.1

Material Type: (Non-Metallic) Bullet Resisting Material

Threat Level: Level 1

Shots Required: 5

Range 3

Muzzle to Screen 1: 5.00 ft.

Screen 1 - 2: 5.00 ft.

Screen 2 - Target: 5.00 ft.

Midpoint to Target: 7.50 ft.

Target to Witness: 1.50 ft.

Witness: 1/8" Corrugated Cardboard

Barrel Length: 10 in.

Sample Description	Test / Ammunition Description					Chronograph		Test Result
Manufacturer: Safe Haven Defense Model No.: SW600BR (Tempered Glass) Size (in.): 18 x 18 Thickness (in.): 1" OA Weight (lbs.): 16.747	Shot No.	Shot Location	Degree Obliquity	Caliber	Bullet Weight (gr.) /Type	TIME sx-5	VELOCITY ft/s	Penetration
	1	TC	0°					No Penetration
	2	BL	0°	9mm	124 / FMJ	393.2	1272	No Penetration
	3	BR	0°			409.0	1222	No Penetration
	1	TL	0°			411.5	1215	No Penetration
	2	TL	0°	9mm	124 / FMJ	412.4	1212	No Penetration
	1	Edge	0°	9mm	124 / FMJ	413.1	1210	No Penetration
						412.7	1212	No Penetration

This test was performed in accordance with the specification requirements and the results properly reflect the ballistic performance of the listed sample.

Element Materials Technology

7447 W. 33rd St. N.

Wichita, KS 67205

U.S.A.

Phone:

316-832-1600

Notes:

•Sample secured to test fixture using frame and clamps

*Thickness is measured as 2 x 0.25" panes with 0.50" air gap

Test Round Used:

Test Round: Remington 9mm 124 gr. FMJ (23558)

Test Velocity: 1175 - 1292.5 fps

Shot Locations / Spacing:

Shot Location: Center of Panel

Shot Spacing: 4.0 +/- 0.50" (102 +/- 12.7mm) Triangle

Shot No. 1: TC - Top Center

Shot No. 2: BL - Bottom Left

Shot No. 3: BR - Bottom Right

Shot No. 4: TL - 1.5" spacing from Shot No. 5

Shot No. 5: TL - 1.5" spacing from Shot No. 4

Shot No. 6: RC - 1.25" from edge

*Three impacts on a 4" Triangle.

*Two impacts spaced 1.5" apart.

*One impact 1.25" from edge

Nold / Montgomery

NATIONAL TECHNICAL SYSTEMS

BALLISTIC RESISTANCE TEST

Date Received: August 21, 2023
Via: Returned Hand
Via: Hand

Record No.: SHD23003-15
Test Date: October 9, 2023 Safe
Customer: Haven Defense

Test Conditions

Temperature: 73.4 F
Humidity: 32 %
Test Spec.: UL 752
Test Reference: Table 3.1 ICW Paragraph 17.2.1
Material Type: (Non-Metallic) Bullet Resisting Material
Threat Level: Level 5
Shots Required: 1

Range 3 Muzzle to

Screen 1: 5.00 ft.
Screen 1 - 2: 5.00 ft.
Screen 2 - Target: 5.00 ft.
Midpoint to Target: 7.50 ft.
Target to Witness: 1.50 ft.
Witness: 1/8" Corrugated Cardboard
Barrel Length: 26.0 in.

Sample Description	Test / Ammunition Description					Chronograph		Test Result
Manufacturer: Safe Haven Defense	Shot No.	Shot Location	Degree Obliquity	Caliber	Bullet Weight (gr.) /Type	TIME sx-5	VELOCITY ft/s	Penetration
Model No.: SW600BR	1	Center	0°	7.62 NATO	147 / FMJ	179.0	2793	No Penetration
Sample No.: N/A								
Size (in.): 18 x 18								
Weight (lbs.): 31.536								

This test was performed in accordance with the specification requirements and the results properly reflect the ballistic performance of the listed sample.

National Technical Systems, Inc.
7447 W. 33rd St. N.
Wichita, KS 67205 U.S.A.

Phone: 316-832-1600

Notes:

*Sample secured to test fixture using frame and clamps.

Test Round Used:

Test Round: 7.62mm Rifle Lead Core Full Metal Copper Jacket
Test Velocity: 2750 - 3025 ft/s

Shot Locations / Spacing (17.2.1):

Shot Spacing: N/A
Shot No. 1: Center

Sample Description:

Glass (0.500" + 0.500" thick w/ air gap).

Montgomery / Wilson

NATIONAL TECHNICAL SYSTEMS

BALLISTIC RESISTANCE TEST

Date Received: August 21, 2023
Via: Hand
Returned Via: Hand

Record No.: SHD23003-13
Test Date: October 9, 2023
Customer: Safe Haven Defense

Test Conditions

Temperature: 72.8 F
Humidity: 33 %
Test Spec.: UL 752
Test Reference: Table 3.1 ICW Paragraph 17.2.1
Material Type: (Non-Metallic) Bullet Resisting Material
Threat Level: Level 6
Shots Required: 5

Range 3

Muzzle to Screen 1: 5.00 ft.
Screen 1 - 2: 5.00 ft.
Screen 2 - Target: 5.00 ft.
Midpoint to Target: 7.50 ft.
Target to Witness: 1.50 ft.
Witness: 1/8" Corrugated Cardboard
Barrel Length: 10 in.

Sample Description	Test / Ammunition Description					Chronograph		Test Result
Manufacturer: Safe Haven Defense Model No.: SW600BR Sample No.: N/A Size (in.): 18 x 18 Weight (lbs.): 17.110	Shot No.	Shot Location	Degree Obliquity	Caliber	Bullet Weight (gr.) /Type	TIME sx-5	VELOCITY ft/s	Penetration
	1	TL	0°			352.0	1420	No Penetration
	2	TR	0°			352.4	1419	No Penetration
	3	BR	0°	9mm	124 / FMJ	348.4	1435	No Penetration
	4	BL	0°			350.9	1425	No Penetration
	5	C	0°			349.2	1432	No Penetration

This test was performed in accordance with the specification requirements and the results properly reflect the ballistic performance of the listed sample.

National Technical Systems, Inc.
7447 W. 33rd St. N.
Wichita, KS 67205 U.S.A.

Phone: 316-832-1600

Notes:

*Sample secured to test fixture using frame and clamps.

Test Round Used:

Test Round: Remington 9mm, 124 gr. (8.0g) FMJ RN (23558)
Test Velocity: 1400 - 1540 ft/s

Shot Locations / Spacing (17.2.1):

Shot Location: Center of Panel
Shot Spacing: 5 Shot Dice Pattern
Shot No. 1: Top Left
Shot No. 2: Top Right
Shot No. 3: Bottom Right
Shot No. 4: Bottom Left
Shot No. 5: Center

Sample Description:

Glass (2 x 0.250" thick w/ air gap).

Montgomery / Wilson

NATIONAL TECHNICAL SYSTEMS

BALLISTIC RESISTANCE TEST

Date Received: August 21, 2023
Via: Hand Returned Via:
Hand

Record No.: SHD23003-9
Test Date: October 9, 2023 Safe
Customer: Haven Defense

Test Conditions

Temperature: 72.4 F
Humidity: 35 %
Test Spec.: UL 752
Test Reference: Table 3.1 ICW Paragraph 17.2.1
Material Type: (Non-Metallic) Bullet Resisting Material
Threat Level: Level 1
Shots Required: 5

Range 3

Muzzle to Screen 1: 5.00 ft.
Screen 1 - 2: 5.00 ft.
Screen 2 - Target: 5.00 ft.
Midpoint to Target: 7.50 ft.
Target to Witness: 1.50 ft.
Witness: 1/8" Corrugated Cardboard
Barrel Length: 4 in.

Sample Description	Test / Ammunition Description					Chronograph		Test Result
Manufacturer: Safe Haven Defense	Shot No.	Shot Location	Degree Obliquity	Caliber	Bullet Weight (gr.) /Type	TIME sx-5	VELOCITY ft/s	Penetration
Model No.: SW600BR	1	C BL	0°			433.4	1154	No Penetration
Sample No.: N/A	2		0°			424.2	1179	No Penetration
Size (in.): 18 x 18	3	BR	0°	9mm	124 / FMJ	427.6	1169	No Penetration
Weight (lbs.): 13.330	4	TR	0°			424.1	1179	No Penetration
	5	TR	0°			436.2	1146	No Penetration
	6	Edge	0°			438.7	1140	No Penetration

This test was performed in accordance with the specification requirements and the results properly reflect the ballistic performance of the listed sample.

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Phone: 316-832-1600

Notes:

*Sample secured to test fixture using frame and clamps.

Test Round Used:

Test Round: Remington 9mm, 124 gr. (8.0g) FMJ RN (23558)
Test Velocity: 1175 +/- 40 ft/s

Shot Locations / Spacing (17.2.1):

Shot Location: N/A
Shot No. 1: Center 4.0 +/- 0.50"
Shot No. 2: Bottom Left Triangle
Shot No. 3: Bottom Right
Shot No. 4: Top Right 1.25"-1.75"
Shot No. 5: Top Right Apart
Shot No. 6: Edge 1.00"-1.50" From a Free Edge

Sample Description:

Glass (0.375" thick).

Montgomery / Wilson

Certificate of Compliance

Certificate Number:

UL-US-2412329-0

Report Reference:

BP21482-20240410

Issue Date:

2024-04-16

Issued to:

**Safe Haven Defense LLC
3120 W Carefree Hwy
Ste. 1-543 Phoenix, AZ 85086
United States**

This certificate confirms that representative samples of:
COGT - Glazing Material

See Addendum Page for Product Designation(s).

Have been evaluated by UL in accordance with the Standard(s) indicated on this Certificate.

UL 752, Edition 12, Issue Date 2023-10-17

Additional Information:

See UL Product iQ® at <https://iq.ulprospector.com> for additional information.

This Certificate of Compliance indicates that representative samples of the product described in the certification report have met the requirements for UL certification. It does not provide authorization to apply the UL Mark. Only the Authorization Page that references the Follow-Up Services Procedure for ongoing surveillance provides authorization to apply the UL Mark.

Only those products bearing the UL Mark should be considered as being UL Certified and covered under UL's Follow-Up Services.

Look for the UL Certification Mark on the product.



David Piecuch
UL Mark Certification Program Manager



Any information and documentation involving UL Mark services are provided on behalf of UL LLC (UL) or any authorized licensee of UL. For questions, please contact UL Solutions Customer Service at <https://www.ul.com/contact-us>.

CERTIFICATE OF COMPLIANCE

Certificate number UL-US-2412329-0
Report reference BP21482-20240410
Date 2024-04-16

This is to certify that representative samples of the product as specified on this certificate were tested according to the current UL requirements.

Model	Product Description
SW600BR-Dual Pane 1/4" UL1, INDOOR USE ONLY	Bullet resisting glazing material



David Piecuch
UL Mark Certification Program Manager

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