

NTS Technical Systems Test Report for Ballistic Resistance Testing

Project No.: PH00010488 Tested: 11 March 2024 P.O. No.: Signed Quote OH17115

Prepared For

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Further dissemination only as directed by Optima Ballistic Glass Colombia S.A.S., 18 March 2024.

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NTS-Belcamp is an independent testing facility and has no affiliation with Optima Ballistic Glass Colombia S.A.S.

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Revision History

Rev.	Description	Issue Date
0	Initial Release	18 March 2024



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1 Introduction

Optima Ballistic Glass Colombia S.A.S. provided eight armor samples to NTS-Belcamp for ballistic testing on 11 March 2024.

2 Threats and Instrumentation

2.1 Threats*

• 7.62 x 39-mm, 121-grain BZ armor piercing incendiary (API) projectiles

*The projectiles were fired from a universal receiver which was fitted with the appropriate barrel and mounted on an NTS-Belcamp mount.

The threat projectiles were required to have no greater than 5° total yaw. Projectile yaw was measured to ensure that the test impacts were within this constraint by placing a yaw card at the appropriate gun-to-target range during velocity verification shots.

2.2 Instrumentation

Projectile velocity measurements were obtained using Oehler Research model No. 57 infrared screens with Y.I.S. Cowden Group Chrono-USB chronographs. Calibration data is presented in Attachment A. A digital still camera was used to document the test, photographs are presented in Attachment B.

3 Details of Test

The objective of this test was to conduct a ballistic resistance test on the armor samples in accordance with STANAG 4569 KE Level 2, AEP-55 Vol. 1 Ed. 2 (modified) and the customer's request. Shot spacing between multiple impacts on a single sample was in accordance with the referenced performance standard. Shots against the armor samples were performed at 0.0° obliquity and ambient range temperature (69±1 °F).

For each shot, the target was clamped to a rigid test fixture. A piece of 0.508 mm thick (0.020 in) type 2024 T3 aluminum was mounted along the shotline, approximately 152 mm ± 13 mm (6 in ± 0.5 in) behind the target, to verify complete penetrations. A complete penetration was scored only when the witness material was perforated (i.e., light was visible through the material). All firings were conducted at 25.000 ft from the target. The projectile velocities used for the test were in accordance with the referenced performance standard.

4 Summary of Results

The results of the ballistic resistance test are shown in Table 1. The round-by-round data sheets for all testing performed are provided on the following pages.



Penetration Data Target Shot Project Sample Velocity Size Weight Threat **Obliq.** No. No. No. Result (lbs) (deg) (ft/s)(in) 2332 None 1 7.62 x 39-mm, PH00010488-1 OFC-18658-100 19.75 x 19.75 76.100 0.0 2 2315 None 121-grain BZ API 2320 3 None 2295 1 None 7.62 x 39-mm, PH00010488-2 OFC-18658-101 76.170 0.0 2310 19.75 x 19.75 2 None 121-grain BZ API 3 2309 None 2295 None 1 7.62 x 39-mm, 2327 None PH00010488-3 OFC-18658-102 76.590 0.0 19.75 x 19.75 2 121-grain BZ API 2265 3 None 2330 None 1 7.62 x 39-mm, 2310 2 None PH00010488-4 OFC-18658-103 19.75 x 19.75 76.460 0.0 121-grain BZ API 3 2305 None 2228 None 1 7.62 x 39-mm, PH00010488-5 OFC-18658-104 19.75 x 19.75 75.430 0.0 2 2291 None 121-grain BZ API 3 2347 None 2278 None 1 7.62 x 39-mm, PH00010488-6 OFC-18658-105 76.090 0.0 2 2291 None 19.75 x 19.75 121-grain BZ API 3 2267 None 2294 None 1 7.62 x 39-mm, PH00010488-7 OFC-18658-106 76.180 0.0 2 2291 None 19.75 x 19.75 121-grain BZ API 3 2321 None 2320 None 1 7.62 x 39-mm, OFC-18658-107 2302 None PH00010488-8 76.540 0.0 2 19.75 x 19.75 121-grain BZ API 3 2300 None

Table 1.	Summary	of Ballistic	Resistance	Test
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NTS-Belcamp

4603B Compass Point Road Belcamp, MD 21017

Client: Optima Ballistic Glass Colombia S.A.S. Project No.: PH00010488-1 Test Date: 03/11/2024 Page 1 of 1

Test Panel Description: Transparent armor

Manufacturer: Optima Ballistic Glass Colombia S.A.

Sample No.: (API BZ, V0) OFC-18658-100

Size: 19.75 x 19.75 in Avg. Thickness: 2.366 in Thicknesses: 2.379 in, 2.339 in, 2.379 in, 2.367 in	hickness: 2.366 in Plies/Laminates: N/A cknesses: 2.379 in, 2.339 in,	
Setup		
Shot Spacing: STANAG 4569 KE Level 2 Witness Panel: 0.02 in 2024-T3 Aluminum Backing Material: N/A Condition: Ambient	Primary Vel. Screens (ft): 10.000, 10.3 19.666, 20.00 Primary Vel. Location (ft): 15.000 Range to Target (ft): 25.000 Target to Witness (in): 6.000	ý 5 5
Ammunition	•	

Projectile	Lot No.	Manufacturer	Powder
(1) 7.62 x 39-mm, 121-grain BZ API	539	Russian	N 110

Applicable Standards or Procedures

(1) STANAG 4569 KE Level 2, AEP-55 Vol. 1 Ed. 2 (modified)

(2) Customer Request

Shot No.	Ammo	Powder/ Seating	Weight (gr)	Time 1 (µs)	Vel. 1 (ft/s)	Time 2 (µs)	Vel.2 (ft/s)	Avg. Vel. (ft/s)	Striking Vel. (ft/s)	Penetration	Obliq. (°)	Footnotes
1 2 3	1 1 1	19.0 19.0 19.0	121.0 121.0 121.0	4271 4301 4293	2341 2325 2329	3985 4015 4006	2342 2325 2330	2342 2325 2330	2332 2315 2320	None None None	0.0 0.0 0.0	

Remarks:

Required Velocities: 2215-2365 ft/s

Projectile Yaw Check: 0° Yaw on all Impacts.

NTS-Belcamp

4603B Compass Point Road Belcamp, MD 21017 Client: Optima Ballistic Glass Colombia S.A.S. Project No.: PH00010488-2 Test Date: 03/11/2024 Page 1 of 1

Test Panel | Description: Transparent armor

Manufacturer: Optima Ballistic Glass Colombia S.A.

Sample No.: (API BZ, V0) OFC-18658-101

Size: 19.75 x 19.75 in Avg. Thickness: 2.364 in Thicknesses: 2.369 in, 2.362 in, 2.359 in, 2.367 in	Weight: 76.170 lbs Plies/Laminates: N/A	Date Received: 02/26/2024 Received Via: Freight, LTL Returned Via: Freight, LTL					
Setup							
Shot Spacing: STANAG 4569 KE Level 2 Witness Panel: 0.02 in 2024-T3 Aluminum Backing Material: N/A Condition: Ambient	Primary Vel. Screens (ft): 10.000, 10.333, 19.666, 20.000 Primary Vel. Location (ft): 15.000 Range to Target (ft): 25.000 Target to Witness (in): 6.000	Range No.: Range 5 Temp: 68.9 °F BP: 30 inHg RH: 46 % Barrel/Gun: CT-4057 Gunner: Cody Schilling Recorder: Ramon Chavez					

Ammunition

Projectile	Lot No.	Manufacturer	Powder
(1) 7.62 x 39-mm, 121-grain BZ API	539	Russian	N 110

Applicable Standards or Procedures

(1) STANAG 4569 KE Level 2, AEP-55 Vol. 1 Ed. 2 (modified)

(2) Customer Request

ot o. Amm	Powder/ Seating	Weight (gr)	Time 1 (µs)	Vel. 1 (ft/s)	Time 2 (µs)	Vel.2 (ft/s)	Avg. Vel. (ft/s)	Striking Vel. (ft/s)	Penetration	Obliq. (°)	Footnotes
1	19.0	121.0	4340	2304	4050	2304	2304	2295	None	0.0	
2 1	19.0	121.0	4310	2320	4024	2319	2320	2310	None	0.0	
3 1	19.0	121.0	4314	2318	4024	2319	2319	2309	None	0.0	

Remarks:

Required Velocities: 2215-2365 ft/s

Projectile Yaw Check: 0° Yaw on all Impacts.

NTS-Belcamp

4603B Compass Point Road Belcamp, MD 21017 Client: Optima Ballistic Glass Colombia S.A.S. Project No.: PH00010488-3 Test Date: 03/11/2024 Page 1 of 1

Test Panel | Description: Transparent armor

Manufacturer: Optima Ballistic Glass Colombia S.A.

Sample No.: (API BZ, V0) OFC-18658-102

Size: 19.75 x 19.75 in Avg. Thickness: 2.377 in Thicknesses: 2.368 in, 2.371 in, 2.385 in, 2.382 in		Weight: 76.590 lbs hinates: N/A	Date Received: 02/26/2024 Received Via: Freight, LTL Returned Via: Freight, LTL				
Setup							
Shot Spacing: STANAG 4569 KE Level 2 Witness Panel: 0.02 in 2024-T3 Aluminum Backing Material: N/A Condition: Ambient	Primary Vel. Range	I. Screens (ft): 10.000, 10.333, 19.666, 20.000 Location (ft): 15.000 to Target (ft): 25.000 o Witness (in): 6.000	Range No.: Range 5 Temp: 68.9 °F BP: 30 inHg RH: 45 % Barrel/Gun: CT-4057 Gunner: Cody Schilling Recorder: Ramon Chavez				

Ammunition

Projectile	Lot No.	Manufacturer	Powder
(1) 7.62 x 39-mm, 121-grain BZ API	539	Russian	N 110

Applicable Standards or Procedures

(1) STANAG 4569 KE Level 2, AEP-55 Vol. 1 Ed. 2 (modified)

(2) Customer Request

 Shot No.	Ammo	Powder/ Seating	Weight (gr)	Time 1 (µs)	Vel. 1 (ft/s)	Time 2 (µs)	Vel.2 (ft/s)	Avg. Vel. (ft/s)	Striking Vel. (ft/s)	Penetration	Obliq. (°)	Footnotes
1	1	19.0	121.0	4340	2304	4050	2304	2304	2295	None	0.0	
2	1	19.0	121.0	4280	2336	3993	2337	2337	2327	None	0.0	
3	1	19.0	121.0	4397	2274	4102	2275	2275	2265	None	0.0	

Remarks:

Required Velocities: 2215-2365 ft/s

Projectile Yaw Check: 0° Yaw on all Impacts.

NTS-Belcamp

4603B Compass Point Road Belcamp, MD 21017 Client: Optima Ballistic Glass Colombia S.A.S. Project No.: PH00010488-4 Test Date: 03/11/2024 Page 1 of 1

Test Panel | Description: Transparent armor

Manufacturer: Optima Ballistic Glass Colombia S.A.

Sample No.: (API BZ, V0) OFC-18658-103

·								
Size: 19.75 x 19.75 in Avg. Thickness: 2.369 in Thicknesses: 2.373 in, 2.370 in, 2.363 in, 2.371 in	Weight: 76.460 lbs Plies/Laminates: N/A	Date Received: 02/26/2024 Received Via: Freight, LTL Returned Via: Freight, LTL						
Setup								
Shot Spacing: STANAG 4569 KE Level 2 Witness Panel: 0.02 in 2024-T3 Aluminum Backing Material: N/A Condition: Ambient	Primary Vel. Screens (ft): 10.000, 10.3 19.666, 20.00 Primary Vel. Location (ft): 15.000 Range to Target (ft): 25.000 Target to Witness (in): 6.000	, 5 5						

Ammunition

Projectile	Lot No.	Manufacturer	Powder
(1) 7.62 x 39-mm, 121-grain BZ API	539	Russian	N 110

Applicable Standards or Procedures

(1) STANAG 4569 KE Level 2, AEP-55 Vol. 1 Ed. 2 (modified)

(2) Customer Request

Shot No.	Ammo	Powder/ Seating	Weight (gr)	Time 1 (µs)	Vel. 1 (ft/s)	Time 2 (µs)	Vel.2 (ft/s)	Avg. Vel. (ft/s)	Striking Vel. (ft/s)	Penetration	Obliq. (°)	Footnotes
1 2 3	1 1 1	19.0 19.0 19.0	121.0 121.0 121.0	4275 4310 4323	2339 2320 2313	3989 4024 4032	2340 2319 2315	2339 2320 2314	2330 2310 2305	None None None	0.0 0.0 0.0	

Remarks:

Required Velocities: 2215-2365 ft/s

Projectile Yaw Check: 0° Yaw on all Impacts.

NTS-Belcamp

4603B Compass Point Road Belcamp, MD 21017 Client: Optima Ballistic Glass Colombia S.A.S. Project No.: PH00010488-5 Test Date: 03/11/2024 Page 1 of 1

Test Panel | Description: Transparent armor

Manufacturer: Optima Ballistic Glass Colombia S.A.

Sample No.: (API BZ, V0) OFC-18658-104

Size: 19.75 x 19.75 in Avg. Thickness: 2.356 in Thicknesses: 2.354 in, 2.359 in, 2.353 in, 2.357 in	Weight: 75.430 lbs Plies/Laminates: N/A	Date Received: 02/26/2024 Received Via: Freight, LTL Returned Via: Freight, LTL				
Setup						
Shot Spacing: STANAG 4569 KE Level 2 Witness Panel: 0.02 in 2024-T3 Aluminum Backing Material: N/A Condition: Ambient	Primary Vel. Screens (ft): 10.000, 10.333 19.666, 20.000 Primary Vel. Location (ft): 15.000 Range to Target (ft): 25.000 Target to Witness (in): 6.000					

Ammunition

Projectile	Lot No.	Manufacturer	Powder
(1) 7.62 x 39-mm, 121-grain BZ API	539	Russian	N 110

Applicable Standards or Procedures

(1) STANAG 4569 KE Level 2, AEP-55 Vol. 1 Ed. 2 (modified)

(2) Customer Request

Shot No.	Ammo	Powder/ Seating	Weight (gr)	Time 1 (µs)	Vel. 1 (ft/s)	Time 2 (µs)	Vel.2 (ft/s)	Avg. Vel. (ft/s)	Striking Vel. (ft/s)	Penetration	Obliq. (°)	Footnotes
1 2 3	1 1 1	19.0 19.0 19.0	121.0 121.0 121.0	4471 4349 4245	2237 2299 2356	4171 4054 3959	2238 2302 2357	2237 2301 2357	2228 2291 2347	None None None	0.0 0.0 0.0	

Remarks:

Required Velocities: 2215-2365 ft/s

Projectile Yaw Check: 0° Yaw on all Impacts.

NTS-Belcamp

4603B Compass Point Road Belcamp, MD 21017 Client: Optima Ballistic Glass Colombia S.A.S. Project No.: PH00010488-6 Test Date: 03/11/2024 Page 1 of 1

Test Panel | Description: Transparent armor

Manufacturer: Optima Ballistic Glass Colombia S.A.

Sample No.: (API BZ, V0) OFC-18658-105

Size: 19.75 x 19.75 in Avg. Thickness: 2.363 in Thicknesses: 2.359 in, 2.358 in, 2.371 in, 2.364 in	Weight: 76.090 lbs Plies/Laminates: N/A	Date Received: 02/26/2024 Received Via: Freight, LTL Returned Via: Freight, LTL						
Setup								
Shot Spacing: STANAG 4569 KE Level 2 Witness Panel: 0.02 in 2024-T3 Aluminum Backing Material: N/A Condition: Ambient	Primary Vel. Screens (ft): 10.000, 10.333 19.666, 20.000 Primary Vel. Location (ft): 15.000 Range to Target (ft): 25.000 Target to Witness (in): 6.000	Range No.: Range 5 Temp: 68.9 °F BP: 30 inHg RH: 48 % Barrel/Gun: CT-4057 Gunner: Cody Schilling Recorder: Ramon Chavez						

Ammunition

Projectile	Lot No.	Manufacturer	Powder
(1) 7.62 x 39-mm, 121-grain BZ API	539	Russian	N 110

Applicable Standards or Procedures

(1) STANAG 4569 KE Level 2, AEP-55 Vol. 1 Ed. 2 (modified)

(2) Customer Request

Shot No.	Ammo	Powder/ Seating	Weight (gr)	Time 1 (µs)	Vel. 1 (ft/s)	Time 2 (µs)	Vel.2 (ft/s)	Avg. Vel. (ft/s)	Striking Vel. (ft/s)	Penetration	Obliq. (°)	Footnotes
1 2 3	1 1 1	19.0 19.0 19.0	121.0 121.0 121.0	4371 4349 4391	2288 2299 2277	4080 4054 4102	2288 2302 2275	2288 2301 2276	2278 2291 2267	None None None	0.0 0.0 0.0	

Remarks:

Required Velocities: 2215-2365 ft/s

Projectile Yaw Check: 0° Yaw on all Impacts.

NTS-Belcamp

4603B Compass Point Road Belcamp, MD 21017 Client: Optima Ballistic Glass Colombia S.A.S. Project No.: PH00010488-7 Test Date: 03/11/2024 Page 1 of 1

Test Panel | Description: Transparent armor

Manufacturer: Optima Ballistic Glass Colombia S.A.

Sample No.: (API BZ, V0) OFC-18658-106

Size: 19.75 x 19.75 in Avg. Thickness: 2.370 in Thicknesses: 2.362 in, 2.366 in, 2.383 in, 2.369 in		Weight: 76.180 lbs hinates: N/A	Date Received: 02/26/2024 Received Via: Freight, LTL Returned Via: Freight, LTL				
Setup							
Shot Spacing: STANAG 4569 KE Level 2 Witness Panel: 0.02 in 2024-T3 Aluminum Backing Material: N/A Condition: Ambient	Primary Vel. Range	L. Screens (ft): 10.000, 10.333 19.666, 20.000 Location (ft): 15.000 to Target (ft): 25.000 o Witness (in): 6.000	, s				

Ammunition

Projectile	Lot No.	Manufacturer	Powder
(1) 7.62 x 39-mm, 121-grain BZ API	539	Russian	N 110

Applicable Standards or Procedures

(1) STANAG 4569 KE Level 2, AEP-55 Vol. 1 Ed. 2 (modified)

(2) Customer Request

Shot No.	Ammo	Powder/ Seating	Weight (gr)	Time 1 (µs)	Vel. 1 (ft/s)	Time 2 (µs)	Vel.2 (ft/s)	Avg. Vel. (ft/s)	Striking Vel. (ft/s)	Penetration	Obliq. (°)	Footnotes
1	1	19.0	121.0.0	4345	2301	4050	2304	2303	2294	None	0.0	
2	1	19.0	121.0	4349	2299	4054	2302	2301	2291	None	0.0	
3	1	19.0	121	4293	2329	4002	2332	2331	2321	None	0.0	

Remarks:

Required Velocities: 2215-2365 ft/s

Projectile Yaw Check: 0° Yaw on all Impacts.

NTS-Belcamp

4603B Compass Point Road Belcamp, MD 21017

Client: Optima Ballistic Glass Colombia S.A.S. Project No.: PH00010488-8 Test Date: 03/11/2024 Page 1 of 1

Test Panel Description: Transparent armor

Manufacturer: Optima Ballistic Glass Colombia S.A.

Sample No.: (API BZ, V0) OFC-18658-107

Size: 19.75 x 19.75 in Avg. Thickness: 2.375 in Thicknesses: 2.371 in, 2.374 in, 2.381 in, 2.375 in		Weight: 76.540 lbs hinates: N/A	Date Received: 02/26/2024 Received Via: Freight, LTL Returned Via: Freight, LTL
Setup	-		
Shot Spacing: STANAG 4569 KE Level 2 Witness Panel: 0.02 in 2024-T3 Aluminum Backing Material: N/A Condition: Ambient	Primary Vel. Range	L. Screens (ft): 10.000, 10.333 19.666, 20.000 Location (ft): 15.000 to Target (ft): 25.000 o Witness (in): 6.000	, S S
Ammunition	1		1

Projectile	Lot No.	Manufacturer	Powder
(1) 7.62 x 39-mm, 121-grain BZ API	539	Russian	N 110

Applicable Standards or Procedures

(1) STANAG 4569 KE Level 2, AEP-55 Vol. 1 Ed. 2 (modified)

(2) Customer Request

Sho No	Ammo	Powder/ Seating	Weight (gr)	Time 1 (µs)	Vel. 1 (ft/s)	Time 2 (µs)	Vel.2 (ft/s)	Avg. Vel. (ft/s)	Striking Vel. (ft/s)	Penetration	Obliq. (°)	Footnotes
1	1	19.0	121.0	4293	2329	4006	2330	2330	2320	None	0.0	
2	1	19.0	121.0	4327	2311	4037	2312	2311	2302	None	0.0	
3	1	19.0	121.0	4332	2308	4041	2310	2309	2300	None	0.0	

Remarks:

Required Velocities: 2215-2365 ft/s

Projectile Yaw Check: 0° Yaw on all Impacts.



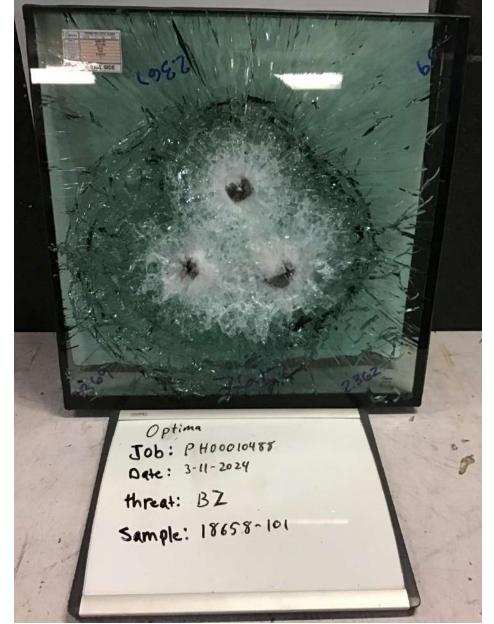
ATTACHMENT A CALIBRATION DATA

NCR = No Calibration Required.

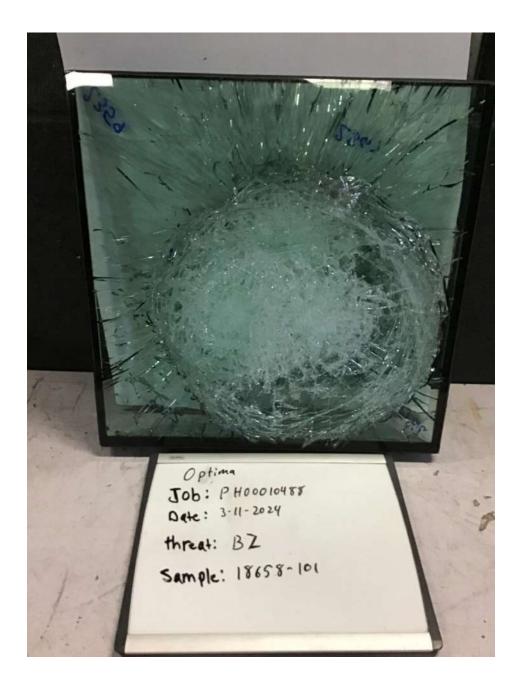
Asset Number	Asset Type	Manufacturer	Model	Calibrated	Due
WC060507	Barrel (gun)	Bill Wiseman & Company	N/A	NCR	NCR
WC060658	Measurement Tools (Tape Measure)	Starrett	530-100	07/26/2022	07/26/2024
WC060804	Range (shooting)	N/A	N/A	NCR	NCR
WC064243	Gauge (Depth)	Chesapeake Testing	Bridge Depth Gauge	02/23/2024	05/23/2024
WC064248	Gauge (Depth)	Chesapeake Testing	HDG-03	01/31/2024	04/30/2024
WC064252	Gauge (Depth)	Chesapeake Testing	DG 04	02/05/2024	05/05/2024
WC067133	Measurement Tools (Angle Gauge)	SPI	91-316-0	01/30/2023	01/30/2025
WC067372	Meter (Chronograph)	YIS/Cowden Group, Inc	Chrono-USB	10/16/2023	10/16/2024
WC067373	Meter (Chronograph)	YIS/Cowden Group, Inc	Chrono-USB	10/16/2023	10/16/2024
WC074968	Scale (Digital)	RCBS	ChargeMaster 1500	07/27/2024	07/27/2024
WC074970	Measurement Tools (Tape Measure)	Dewalt Industrial Tool	DWHT36107	09/11/2023	09/11/2025
WC074994	Measurement Tools (Dial/Vernier Caliper)	Starrett	798A-6/150	09/07/2023	09/07/2024
WC075049	Monitor (Thermometer/Clock/Humidity)	Control Company	4040	10/14/2023	10/14/2024
WC075057	Gauge (Depth)	Starrett	3753A -6/150	12/12/2023	12/12/2024
WC079281	Scale (Floor)	Temtop	EHP-30S	02/21/2024	02/21/2025
EL00004014	Measurement Tools (Tape Measure)	Craftsman	CMHT37565	05/11/2023	05/11/2025
EL00004094	Gauge (Depth)	Starrett	3753A-6/150	12/12/2023	12/12/2024
EL00000203	Meter (Thermometer)	Control Company	4371, 90205-05	06/01/2023	06/01/2025
WC079401	Gauge (Depth)	Starrett	3753A-6/150	11/09/2023	11/09/2024



ATTACHMENT B PHOTOGRAPHS



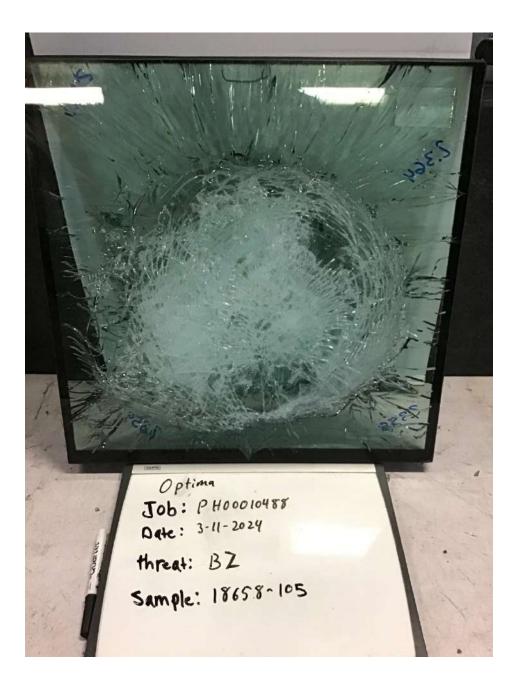




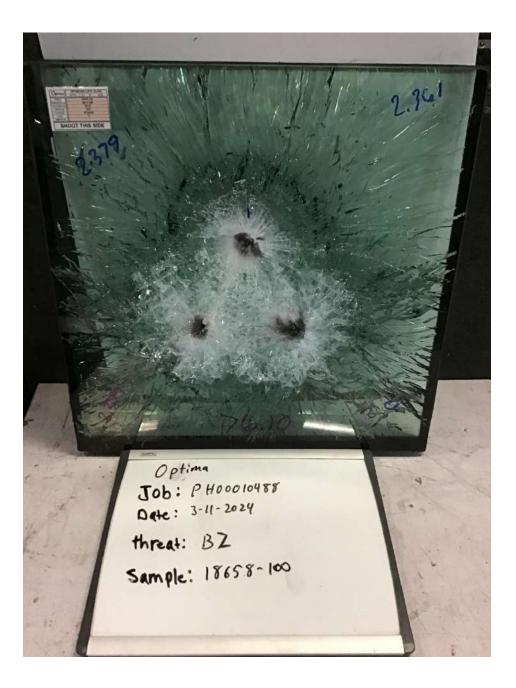




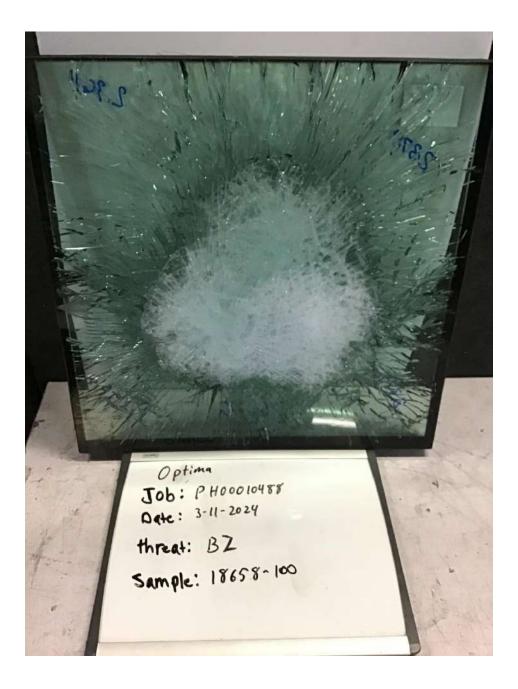




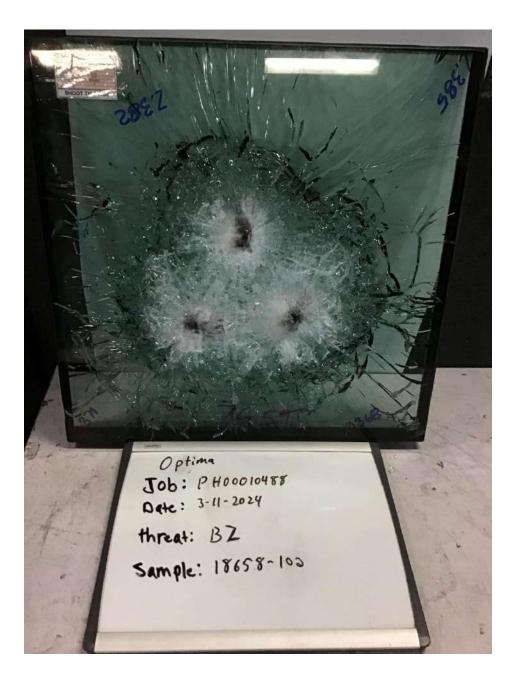














NTS TECHNICAL SYSTEMS

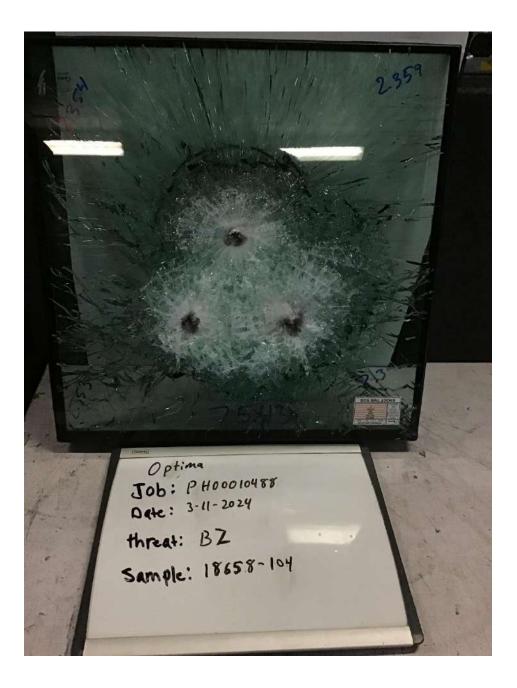
Optima

threat: BZ

Job: PH00010488 Date: 3-11-2024

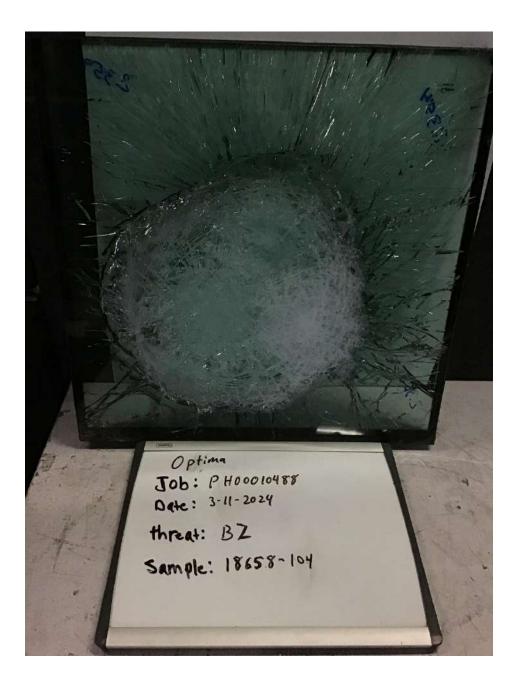
Sample: 18658-100



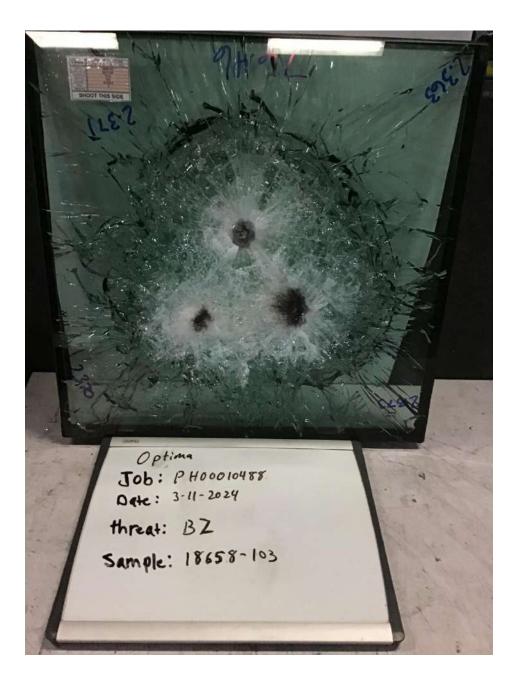




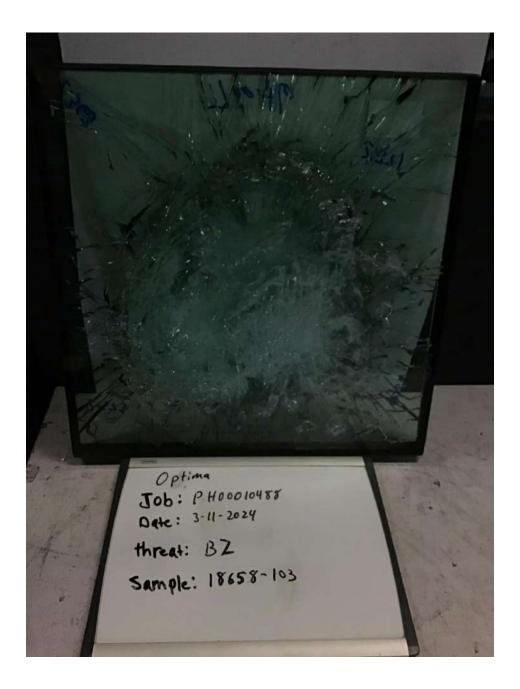




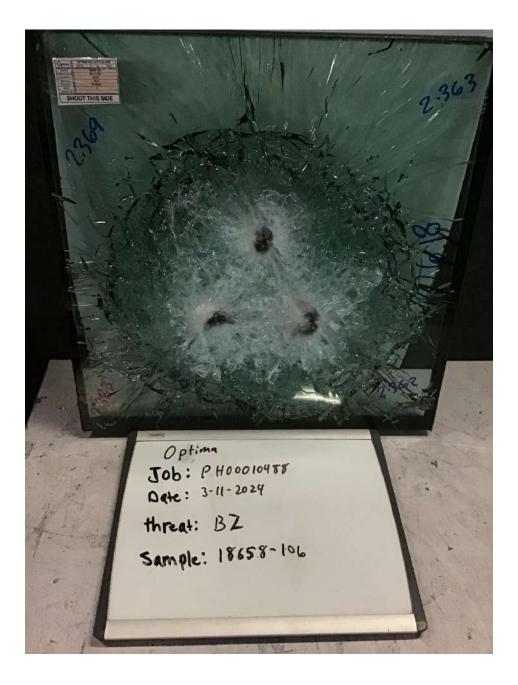




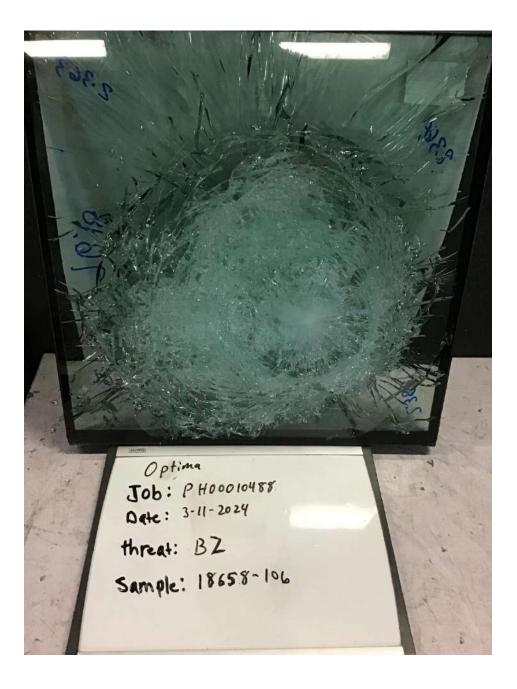




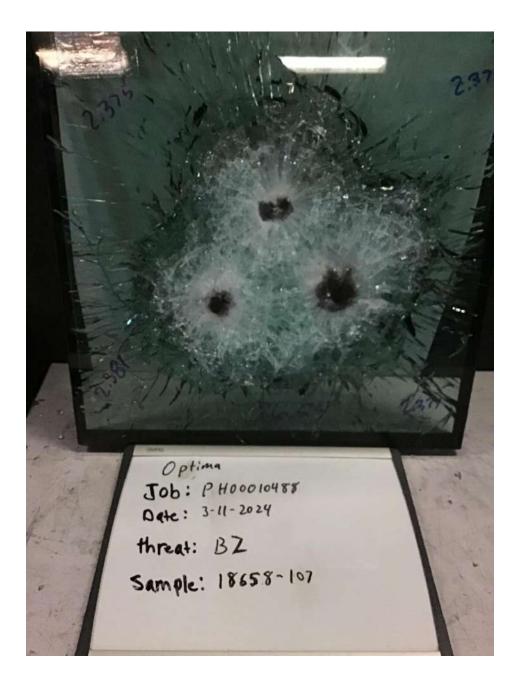




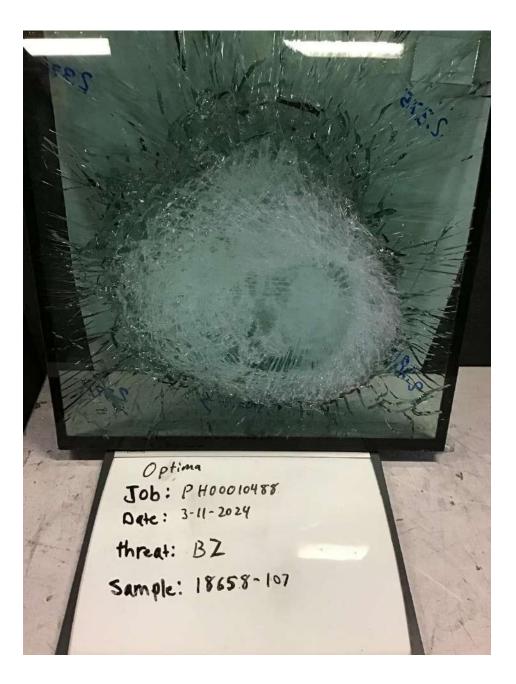














END OF REPORT

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