

# BALLISTIC RESISTANCE TEST

**NTS-Chesapeake Testing**

 4603B Compass Point Road  
 Belcamp, MD 21017

 Client: Hardwire, LLC  
 Project No.: OH000005078-4  
 Test Date: 10/14/2022  
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**Test Panel** Description: Level IIIA Ballistic shield

**Manufacturer:** Hardwire, LLC

**Sample No.:** (.44 Mag SWCGC, V0) SR22-223629

 Size: 20.00 x 30.00 in  
 Avg. Thickness: 0.221 in  
 Thicknesses: 0.218 in, 0.217 in,  
 0.226 in, 0.224 in

 Weight: 9.970 lbs  
 Plies/Laminates: N/A

 Date Received: 10/04/2022  
 Received Via: FEDEX Ground  
 Returned Via: FEDEX Ground

**Setup**

 Shot Spacing: NIJ-STD-0108.01  
 Level IIIA (Modified)  
 Witness Panel: 0.02 in 2024-T3 Al  
 Backing Material: N/A  
 Condition: Ambient

 Primary Vel. Screens (ft): 6.500, 9.500  
 Primary Vel. Location (ft): 8.000  
 Range to Target (ft): 16.400  
 Target to Witness (in): 6.000

 Range No.: Range 6  
 Temp: 65.7 °F  
 BP: 29.9 inHg  
 RH: 49.4 %  
 Barrel/Gun: WC024531  
 Gunner: Cody Schilling  
 Recorder: William Ellis

**Ammunition**

Projectile	Lot No.	Manufacturer	Powder
(1) .44 Mag., 240-grain SWCGC	NA	Contra Threat	3 N 38

**Applicable Standards or Procedures**

- (1) NIJ-STD-0108.01 Level III (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)	Penetration	Obliq. (°)	Footnotes
1	1	13.0	240	2123	1413	2127	1410	1412	None	0	
2	1	13.0	240	2118	1416	2118	1416	1416	None	0	
3	1	13.0	240	2140	1402	2140	1402	1402	None	0	
4	1	13.0	240	2197	1365	2197	1365	1365	None	0	
5	1	13.0	240	2140	1402	2140	1402	1402	None	0	
6	1	13.0	240	2144	1399	2149	1396	1398	None	0	(a)
7	1	13.0	240	2136	1404	2149	1396	1400	None	0	(b)
8	1	13.0	240	2191	1369	2192	1369	1369	None	0	(b)

**Remarks:**

 Required velocity: 1350 - 1450 ft/s.  
 Projectile yaw check: 0 degree yaw on all impacts.

**Footnotes:**

- (a) Shot impacted on view port.
- (b) Shot impacted on bolt.

# BALLISTIC RESISTANCE TEST

**NTS-Chesapeake Testing**

 4603B Compass Point Road  
 Belcamp, MD 21017

 Client: Hardwire, LLC  
 Project No.: OH000005078-5  
 Test Date: 10/14/2022  
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**Test Panel** Description: Level IIIA Ballistic shield

**Manufacturer:** Hardwire, LLC

**Sample No.:** (9-mm, V0) SR22-223629

 Size: 20.00 x 30.00 in  
 Avg. Thickness: 0.221 in  
 Thicknesses: 0.218 in, 0.217 in,  
 0.226 in, 0.224 in

 Weight: 9.970 lbs  
 Plies/Laminates: N/A

 Date Received: 10/04/2022  
 Received Via: FEDEX Ground  
 Returned Via: FEDEX Ground

**Setup**

 Shot Spacing: NIJ-STD-0108.01  
 Level IIIA (Modified)  
 Witness Panel: 0.02 in 2024-T3 Al  
 Backing Material: N/A  
 Condition: Ambient

 Primary Vel. Screens (ft): 6.500, 9.500  
 Primary Vel. Location (ft): 8.000  
 Range to Target (ft): 16.400  
 Target to Witness (in): 6.000

 Range No.: Range 6  
 Temp: 65.7 °F  
 BP: 29.9 inHg  
 RH: 49.4 %  
 Barrel/Gun: WC024531  
 Gunner: Cody Schilling  
 Recorder: William Ellis

**Ammunition**

Projectile	Lot No.	Manufacturer	Powder
(1) 9-mm, 124-grain FMJ	23558	Remington	Accurate No. 2

**Applicable Standards or Procedures**

- (1) NIJ-STD-0108.01 Level III (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)	Penetration	Obliq. (°)	Footnotes
1	1	6.0	125.7	2110	1422	2110	1422	1422	None	0	
2	1	6.0	125.5	2127	1410	2127	1410	1410	None	0	
3	1	6.0	124.9	2110	1422	2110	1422	1422	None	0	(a)
4	1	6.0	125.2	2136	1404	2136	1404	1404	None	0	(a)
5	1	6.0	125.1	2114	1419	2118	1416	1418	None	0	

**Remarks:**

 Required velocity: 1350 - 1450 ft/s.  
 Projectile yaw check: 0 degree yaw on all impacts.  
 Sample previously impacted with 44 SWCGC.

**Footnotes:**

(a) Shot impacted on bolt.