

BALLISTIC RESISTANCE TEST

NTS-Chesapeake Testing

4603B Compass Point Road
Belcamp, MD 21017

Client: Hardcore Defense

Job No.: 21145-016-1

Test Date: 12/17/2020

Test Panel

Description: Alpha Shield with Rhino

Manufacturer: Hardcore Defense

Sample No.: 2303 (9mm, V0)

Size: 15.25 X 25.25 in
Avg. Thick: 0.310 in
Thickness: 0.335 in; 0.306 in;
0.305 in; 0.296 in

Weight: 15.95 lbs
Plies/Laminates: NA

Date Received: 12/15/2020
Via: UPS
Returned: UPS

Setup

Shot Spacing: NIJ-STD-0108.01 Level IIIA
Witness Panel: 0.02 in 2024-T3 Aluminum
Backing Material: NA
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.: 2
Temp: 67.1 °F
BP: 30.0 inHg
RH: 38.1%
Barrel/Gun: Test Barrel
Gunner: Bret DeMond
Recorder: M. Contreras

Ammunition

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

Applicable Standards or Procedures

- (1) NIJ-STD-0108.01 Level IIIA
- (2) Customer request

Shot No.	Ammo	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	124.5	2176	1379	2174	1380	1379	None	0.0	
2	1	124.5	2140	1402	2140	1402	1402	None	0.0	
3	1	124.5	2111	1421	2111	1421	1421	None	0.0	
4	1	124.5	2115	1418	2115	1418	1418	None	0.0	
5	1	124.5	2164	1386	2162	1388	1387	None	0.0	

Remarks:

Required velocity: 1350-1450 ft/s.
Previously impacted with 5 rounds of .44 Mag SWCGC

Footnotes:

BALLISTIC RESISTANCE TEST

NTS-Chesapeake Testing

4603B Compass Point Road
Belcamp, MD 21017

Client: Hardcore Defense
Job No.: 21145-016-2
Test Date: 12/17/2020

Test Panel

Description: Alpha Shield with Rhino

Manufacturer: Hardcore Defense

Sample No.: 2303 (.44 Mag, V0)

Size: 15.25 x 25.25 in
Avg. Thick: 0.310 in
Thickness: 0.335 in; 0.306 in;
0.305 in; 0.296 in

Weight: 15.95 lbs
Plies/Laminates: NA

Date Received: 12/15/2020
Via: UPS
Returned: UPS

Setup

Shot Spacing: NIJ-STD-0108.01 Level IIIA
Witness Panel: 0.02 in 2024-T3 Aluminum
Backing Material: NA
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.: 2
Temp: 67.1 °F
BP: 30.0 inHg
RH: 38.1%
Barrel/Gun: Test Barrel
Gunner: Bret DeMond
Recorder: M. Contreras

Ammunition

Projectile	Lot No.	Powder
(1) .44-mag., 240-grain SWCGC	Rim Rock Bullets	HP-38

Applicable Standards or Procedures

- (1) NIJ-STD-0108.01 Level IIIA
- (2) Customer request

Shot No.	Ammo	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	240.2	2113	1420	2113	1420	1420	None	0.0	
2	1	243.1	2145	1399	2145	1399	1399	None	0.0	
3	1	240.5	2089	1436	2084	1440	1438	None	0.0	
4	1	240.9	2115	1418	2113	1420	1419	None	0.0	
5	1	240.9	2118	1416	2115	1418	1417	None	0.0	

Remarks:

Required velocity: 1350-1450 ft/s.

Footnotes: