

# BALLISTIC RESISTANCE TEST

**NTS-Belcamp**  
4603B Compass Point Road  
Belcamp, MD 21017

Client: Hardhead Veterans  
Project No.: PH00008992  
Test Date: 11/14/2023  
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**Test Panel** Description: Ballistic helmet with pads and retention system

**Manufacturer:** Hard Head Veterans LLC

**Sample No.:** (9mm, V0) 01-132-20JUL22

Size: Medium  
Avg. Thickness: 0.323 in  
Thicknesses: 0.321 in, 0.326 in,  
0.322 in, 0.322 in

Weight: 2.829 lbs  
Plies/Laminates: N/A

Date Received: 10/27/2023  
Received Via: UPS Ground  
Returned Via: UPS Ground

## Setup

Shot Spacing: AR/PD 10-02 REV A  
Change 7 Oct. 16  
2014  
Witness Panel: Clay  
Backing Material: Clay-filled NIJ-  
0106.01 head form  
Condition: Ambient

Primary Vel. Screens (ft): 5.000, 5.333,  
9.666, 10.000  
Primary Vel. Location (ft): 7.500  
Range to Target (ft): 15.000  
Target to Witness (in): 0.000

Range No.: Range 4  
Temp: 68.6 °F  
BP: 29.9 inHg  
RH: 36 %  
Barrel/Gun: WC078563  
Gunner: Matthew Settle  
Recorder: Joshua Petty

## Ammunition

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

## Applicable Standards or Procedures

Clay Drop 1 - Drop Time: 11:11 AM; Block No. WC074958; Temp: 97.1 °F, 97.5 °F; Drop Depths: 23.1 mm, 23.3 mm, 24 mm  
(1) Customer Request  
(2) AR/PD 10-02 REV A Change 7 Oct. 16 2014

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	Deformation (mm)	Obliq. (°)	Footnotes
1	1	5.8	125.1	3524	1419	3050	1421	1420	1410	None	9.7	0	(a)
2	1	5.8	125.2	3536	1414	3063	1415	1414	1404	None	17.8	0	(b)
3	1	5.8	125.3	3497	1430	3028	1431	1430	1420	None	15.2	0	(c)
4	1	5.8	125.3	3514	1423	3043	1424	1423	1413	None	19.5	0	(d)
5	1	5.8	125.3	3480	1437	3014	1438	1437	1427	None	17.7	0	(e)

### Remarks:

Required Velocity: 1400-1450 ft/s.  
Projectile yaw check: 0° yaw on all impacts.  
Shots 1-5: HB2-1; Headform Temp: 97.5 °F

### Footnotes:

(a) Crown  
(b) Front  
(c) Back  
(d) Right  
(e) Left