

# BALLISTIC RESISTANCE TEST

## Chesapeake Testing

4603B Compass Point Road  
Belcamp, MD 21017

Client: Hardwire, LLC  
Job No.: 2084-012-4  
Test Date: 3/8/2013

## Test Panel

Description: Rigid armor panel

Manufacturer: Hardwire, LLC

Sample No.: 44 mag-2

Size: 10.00 x 13.00 in  
Thickness: 0.205 in; 0.206 in;  
0.208 in; 0.208 in  
Avg. Thick: 0.207 in

Heat No.: NA  
Weight: 1.17 lbs  
Hardness: NA  
Plies/Laminates: NA

Date Received: 3/5/2013  
Via: FedEx  
Returned: FedEx

## Setup

Shot Spacing: NIJ-STD-0108.01 Level IIIA  
Witness Panel: 0.02 in 2024-T3 Al  
Obliquity: 0.0°  
Backing Material: NA  
Condition: Ambient

Primary Vel. Screens (ft): 6.500, 6.833,  
9.166, 9.500  
Primary Vel. Location (ft): 8.000  
Range to Target (ft): 16.400  
Target to Witness (in): 6.000

Range No.: 3  
Temp: 66.9 °F  
BP: 29.9 inHg  
RH: 30.4%  
Barrel/Gun: CT-3003  
Gunner: Joe Moore  
Recorder: John Murray

## Ammunition

Projectile	Lot No.	Powder
(1) .44-mag., 240-grain SWCGC	Remington 22885	Accurate No. 5

## Applicable Standards or Procedures

(1) NIJ-STD-0108.01 Level IIIA

Shot No.	Ammo	Time 1 (µs)	Vel. 1 (ft/s)	Time 2 (µs)	Vel. 2 (ft/s)	Avg. Vel. (ft/s)	Penetration	Footnotes
1	1	2060	1456	1602	1456	1456	None	
2	1	2079	1443	1617	1443	1443	None	
3	1	2058	1458	1599	1459	1458	None	
4	1	2049	1464	1594	1464	1464	None	
5	1	2011	1492	1564	1492	1492	None	

Remarks:

Footnotes:



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## Chesapeake Testing

4603B Compass Point Road  
Belcamp, MD 21017

Client: Hardwire, LLC  
Job No.: 2084-012-2  
Test Date: 3/8/2013

**Test Panel**      Description: Rigid armor panel

Manufacturer: Hardwire, LLC      Sample No.: 9mm-2

Size: 10.00 x 13.00	Heat No.: NA	Date Received: 3/5/2013
Thickness: 0.209 in; 0.212 in;	Weight: 1.17 lbs	Via: FedEx
0.206 in; 0.209 in	Hardness: NA	Returned: FedEx
Avg. Thick: 0.209 in	Plies/Laminates: NA	

## Setup

Shot Spacing: NIJ-STD-0108.01 Level IIIA	Primary Vel. Screens (ft): 6.500, 6.833,	Range No.: 3
Witness Panel: 0.02 in 2024-T3 Al	9.166, 9.500	Temp: 66.7 °F
Obliquity: 0.0°	Primary Vel. Location (ft): 8.000	BP: 30 inHg
Backing Material: NA	Range to Target (ft): 16.400	RH: 31.3%
Condition: Ambient	Target to Witness (in): 6.000	Barrel/Gun: CT-3003
		Gunner: Joe Moore
		Recorder: John Murray

## 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

Shot No.	Ammo	Time 1 (µs)	Vel. 1 (ft/s)	Time 2 (µs)	Vel. 2 (ft/s)	Avg. Vel. (ft/s)	Penetration	Footnotes
1	1	2040	1471	1586	1471	1471	None	
2	1	2015	1489	1567	1489	1489	None	
3	1	2073	1447	1612	1447	1447	None	
4	1	2024	1482	1574	1482	1482	None	
5	1	2012	1491	1565	1491	1491	None	

Remarks:

Footnotes: