

BALLISTIC RESISTANCE TEST

Chesapeake Testing

4603B Compass Point Road
Belcamp, MD 21017

Client: Hardwire, LLC
Job No.: 2084-025-2
Test Date: 10/6/2014

Test Panel

Description: Plate, Model No.: HW-BT01, Serial No.: 1250011S001107, Lot No.: 1250-0009. Plate tested in conjunction with Level 3A vest.

Manufacturer: Hardwire, LLC

Sample No.: 1250011S001107

Size: 10.00 x 12.00 in
Thickness: NA
Avg. Thick: NA

Heat No.: NA
Weight: 4.08 lbs
Hardness: NA
Plies/Laminates: NA

Date Received: 10/3/2014
Via: Hand Carried
Returned: Hand Carried

Setup

Shot Spacing: NIJ-STD-0101.06 Level III
Witness Panel: Clay
Obliquity: 0.0°
Backing Material: 5.5-in clay/plywood
Condition: Ambient

Primary Vel. Screens (ft): 39.500, 39.833, 44.166, 44.500
Primary Vel. Location (ft): 42.000
Range to Target (ft): 50.200
Target to Witness (in): 0.000

Range No.: 6
Temp: 65.6 °F
BP: 29.8 inHg
RH: 55%
Barrel/Gun: CT-3052
Gunner: S. McDowell
Recorder: J. Thomas

Ammunition

Projectile	Lot No.	Powder
(1) 7.62 x 51-mm, 149-grain M80 FMJ	Military	N133

Applicable Standards or Procedures

- (1) Clay drops (NIJ) - 18.3 mm, 18.7 mm, 19.4 mm, 18.0 mm, and 17.9 mm
- (2) NIJ-STD-0101.06 Level III
- (3) Customer request

Shot No.	Ammo	Time 1 (µs)	Vel. 1 (ft/s)	Time 2 (µs)	Vel. 2 (ft/s)	Avg. Vel. (ft/s)	Penetration	Deformation (mm)	Footnotes
1	1	1805	2770	1562	2774	2772	None	32.5	(a)
2	1	1802	2775	1558	2781	2778	None	38.0	
3	1	1793	2789	1551	2794	2791	None	41.6	
4	1	1805	2770	1560	2778	2774	None	40.5	
5	1	1829	2734	1582	2739	2736	None	37.5	
6	1	1807	2767	1562	2774	2771	None	26.5	
7	1	1807	2767	1565	2769	2768	None	32.3	

Remarks:

Requested velocity: 2780 ±30 ft/s
Clay box temp.: 98.0 °F
Clay block temp.: 96.7 °F
Clay block No.: 29

Footnotes:

(a) The projectile had insufficient velocity.