

BALLISTIC RESISTANCE TEST

NTS-Chesapeake Testing

4603B Compass Point Road
Belcamp, MD 21017

Client: Hardwire LLC
Job No.: 2084-156-1
Test Date: 9/14/2018

Test Panel

Description: 3.75 psf HB26

Manufacturer: Hardwire LLC

Sample No.: 1201 127 0001

Size: 24.00 x 24.00 in
Avg. Thick: 0.740 in
Thickness: 0.738 in; 0.740 in;
0.743 in; 0.738 in

Weight: 15.22 lbs
Plies/Laminates: NA

Date Received: 9/14/2018
Via: FedEx
Returned: FedEx

Setup

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

Primary Vel. Screens (ft): 6.500, 9.500
Primary Vel. Location (ft): 8.000
Range to Target (ft): 50.000
Target to Witness (in): 6.000

Range No.: 1
Temp: 67.8 °F
BP: 30.0 inHg
RH: 48.7%
Barrel/Gun: CT-1636
Gunner: Josh Petty
Recorder: Jacob Arisman

Ammunition

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

Applicable Standards or Procedures

- (1) NIJ-STD-0108.01 Level III
- (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	148.0	1083	2770	1083	2770	2770	None	0.0	
2	1	148.0	1085	2765	1083	2770	2768	None	0.0	
3	1	148.1	1090	2752	1088	2757	2755	None	0.0	
4	1	148.1	1088	2757	1083	2770	2764	None	0.0	
5	1	148.2	1093	2745	1090	2752	2749	None	0.0	

Remarks:

Required velocity: 2700 to 2800 ft/s

Footnotes: