

# BALLISTIC RESISTANCE TEST

## Chesapeake Testing

4603B Compass Point Road  
Belcamp, MD 21017

Client: Hardwire, LLC  
Job No.: 2084-020-1  
Test Date: 11/6/2013

**Test Panel** Description: Ballistic shield

Manufacturer: Hardwire, LLC

Sample No.: Shield M80

Size: 30.50 x 20.50 in  
Thickness: 0.748 in; 0.750 in;  
0.757 in; 0.759 in  
Avg. Thick: 0.754 in

Heat No.: NA  
Weight: 17.04 lbs  
Hardness: NA  
Plies/Laminates: NA

Date Received: 11/6/2013  
Via: FedEx  
Returned: FedEx

## Setup

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

Primary Vel. Screens (ft): 6.500, 6.833,  
9.160, 9.500  
Primary Vel. Location (ft): 8.000  
Range to Target (ft): 50.000  
Target to Witness (in): 6.000

Range No.: 3  
Temp: 66.2 °F  
BP: 30.1 inHg  
RH: 49.1%  
Barrel/Gun: CT-4006  
Gunner: Juan Contreras  
Recorder: John Murray

## Ammunition

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

## Applicable Standards or Procedures

(1) NIJ-STD-0108.01 Level III

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	1102	2722	856	2718	2720	None	
2	1	1086	2762	844	2757	2760	None	
3	1	1090	2752	847	2747	2750	None	
4	1	1089	2755	846	2751	2753	None	
5	1	1092	2747	849	2741	2744	None	

Remarks:

Required velocity: 2750 ±50 ft/s

Footnotes: