

BALLISTIC RESISTANCE TEST

Chesapeake Testing

4603B Compass Point Road
Belcamp, MD 21017

Client: Hardwire, LLC
Job No.: 2084-065-2
Test Date: 1/29/2016

Test Panel

Description: Car Door, P/N: 0070190400, Traveler: 0005, Stack: E0001

Manufacturer: Hardwire, LLC

Sample No.: Car Door

Size: See remarks
Avg. Thick: NA
Thickness: See remarks

Weight: See remarks
Plies/Laminates: NA

Date Received: 1/29/2016
Via: Hand Carried
Returned: Hand Carried

Setup

Shot Spacing: NIJ-STD-0108.01 Level IIIA
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): 16.400
Target to Witness (in): 6.000

Range No.: 6
Temp: 60.2 °F
BP: 29.4 inHg
RH: 52.9%
Barrel/Gun: Test Barrels
Gunner: Ramon Chavez
Recorder: S. McDowell

Ammunition

Projectile	Lot No.	Powder
(1) .44-mag., 240-grain SWC (2) 9-mm, 124-grain FMJ (3) 12-gauge, 3 in mag., 1 oz. rifled slug	Speer Remington 23558 Remington S24BC500	IMR 4227 Lovex D032-03 Factory load

Applicable Standards or Procedures

- (1) NIJ-STD-0108.01 Level IIIA
- (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	240.7	2067	1451	2064	1453	1452	None	0.0	
2	1	240.6	2152	1394	2150	1395	1395	None	0.0	
3	1	240.5	2120	1415	2120	1415	1415	None	0.0	
4	1	240.6	2184	1374	2184	1374	1374	None	0.0	
5	1	240.8	2169	1383	2169	1383	1383	None	0.0	
6	2	124.3	2120	1415	2118	1416	1416	None	0.0	
7	2	125.1	2118	1416	2118	1416	1416	None	0.0	
8	2	124.8	2064	1453	2062	1455	1454	None	0.0	
9	2	124.7	2106	1425	2106	1425	1425	None	0.0	
10	2	125.0	2098	1430	2096	1431	1431	None	0.0	
11	3	NA	1813	1655	1796	1670	1663	None	0.0	
12	3	NA	1818	1650	1801	1666	1658	None	0.0	
13	3	NA	1808	1659	1791	1675	1667	None	0.0	

Remarks:

Required velocity: 1350 to 1450 ft/s for shots 1 through 10.
No weight, thickness, or size was recorded due to sample dimensions.

Footnotes: