

# BALLISTIC RESISTANCE TEST

## Chesapeake Testing

4603B Compass Point Road  
Belcamp, MD 21017

Client: Infinity Composites, Inc.  
Job No.: 2553-002-1  
Test Date: 6/5/2015

### Test Panel

Description: Rigid armor

Manufacturer: Infinity Composites, Inc.

Sample No.: 1; 44 Mag

Size: 16.00 x 16.00 in  
Avg. Thick: See remarks  
Thickness: See remarks

Weight: See remarks  
Plies/Laminates: NA

Date Received: 6/4/2015  
Via: UPS  
Returned: UPS

### 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, 9.500  
Primary Vel. Location (ft): 8.000  
Range to Target (ft): 16.400  
Target to Witness (in): 6.000

Range No.: 6  
Temp: 66.9 °F  
BP: 29.9 inHg  
RH: 42.2%  
Barrel/Gun: CT-3053  
Gunner: Tony Contreras  
Recorder: Ramon Chavez

### Ammunition

Projectile	Lot No.	Powder
(1) .44-mag., 240-grain SWC	Speer	IMR 4227

### 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	Footnotes
1	1	240.0	2112	1420	2113	1420	1420	None	
2	1	241.0	2194	1367	2196	1366	1367	None	
3	1	240.6	2100	1429	2102	1427	1428	None	
4	1	240.8	2116	1418	2119	1416	1417	None	
5	1	240.2	2172	1381	2173	1381	1381	None	

#### Remarks:

Required velocity: 1400 ±50 ft/s  
Front metal panel; Weight: 2.30 lbs, Thickness: 0.035 in, 0.036 in, 0.035 in, and 0.039 in, Avg. thickness: 0.036 in  
Back Aramid panel; Weight: 1.53 lbs, Thickness: 0.150 in, 0.150 in, 0.147 in, and 0.151 in, Avg. thickness: 0.150 in

#### Footnotes: