

BALLISTIC RESISTANCE TEST

NTS-Chesapeake Testing

4603B Compass Point Road
Belcamp, MD 21017

Client: ShotStop Ballistics, LLC
Job No.: 2631-051-6
Test Date: 12/5/2019

Test Panel

Description: Torso plate test ICW soft armor panel. Soft Armor Panel: Serial #: 01-04-19-825; Lot #: 1-12+19; Size: FS3A10x12SA. Plate Size: ICWRF1+10x12SHMC; Model #: PA1RFICW.

Manufacturer: ShotStop Ballistics, LLC

Sample No.: 01-04-19-844

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

Weight: See Remarks
Plies/Laminates: NA

Date Received: 8/28/2019
Via: UPS
Returned: UPS

Setup

Shot Spacing: NIJ-STD-0101.07 Level RF1 (Modified)
Witness Panel: Clay
Backing Material: 5.5-in clay/plywood
Condition: Ambient

Primary Vel. Screens (ft): 5.000, 5.333, 19.667, 20.000
Primary Vel. Location (ft): 12.500
Range to Target (ft): 25.000
Target to Witness (in): 0.000

Range No.: 2
Temp: 66.7 °F
BP: 29.7 inHg
RH: 43.6%
Barrel/Gun: Test Barrel
Gunner: Austin Blake
Recorder: Jesse Fulk

Ammunition

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

Applicable Standards or Procedures

Clay Drop 1 - Drop Time: 10:30 AM; Block No. 3; Temp: 90.3 °F; Drop Depths: 26.6mm,25.9mm,25.5mm
(1) NIJ-STD-0101.07 Level RF1 (Modified)
(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	Deformation (mm)	Obliq. (°)	Footnotes
1	1	148.0	5396	2780	5152	2782	2781	None	32.4	0.0	
2	1	148.0	5377	2790	5133	2792	2791	None	28.5	0.0	
3	1	148.0	5360	2799	5121	2799	2799	None	NA	0.0	
4	1	148.0	5296	2832	5057	2834	2833	None	NA	0.0	
5	1	148.0	5350	2804	5108	2806	2805	None	NA	0.0	
6	1	148.0	5428	2763	5184	2765	2764	None	NA	0.0	

Remarks:

Required velocity: 2780 ± 30 ft/s
Plate: 01-04-19-844; Size: 10.00 x 12.00 in; Weight: 2.40 lbs.
Panel: 01-04-19-825; Size: 10.00 x 12.00 in; Weight: 1.20 lbs.

Footnotes: