

BALLISTIC RESISTANCE TEST

NTS-Chesapeake Testing

4603B Compass Point Road
Belcamp, MD 21017

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

Test Panel

Description: Torso plate tested ICW IIIA Soft armor panel. Plate Size: ICWRF1+10x12SHMC; Model #: PA1RF1ICW. Lot #: 1-12+19. Panel Size: FS3A10x12SA; Model #: SSB-III-A-SA; Lot #: 1-12+19.

Manufacturer: ShotStop Ballistics, LLC

Sample No.: 01-04-19-843

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

Weight: See Remarks
Plies/Laminates: NA

Date Received: 12/2/2019
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: 30.0 inHg
RH: 38.2%
Barrel/Gun: Test Barrel
Gunner: Austin Blake
Recorder: Jesse Fulk

Ammunition

Projectile	Lot No.	Powder
(1) 5.56 x 45-mm, 55-grain M193 Ball	Military	N 110

Applicable Standards or Procedures

Clay Drop 1 - Drop Time: 9:30 AM; Block No. 3; Temp: 88.3 °F; Drop Depths: 24.8mm, 24.3mm, 25.7mm

(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	55.0	4535	3308	4330	3310	3309	None	19.8	0.0	
2	1	55.0	4605	3257	4396	3261	3259	None	17.5	0.0	
3	1	55.0	4593	3266	4383	3270	3268	None	NA	0.0	
4	1	55.0	4557	3292	4352	3294	3293	None	NA	0.0	
5	1	55.0	4581	3274	4374	3277	3276	None	NA	0.0	
6	1	55.0	4571	3282	4364	3284	3283	None	NA	0.0	

Remarks:

Required velocity: 3250 ± 30 ft/s,

Plate: 01-04-19-843; Size: 10.00 x 12.00 in; Weight: 2.19 lbs.

Panel: 01-04-19-826; Size: 10.00 x 12.00 in; Weight: 1.17 lbs.

Footnotes: