

Test Procedures

Ballistic Resistance Testing: All testing was conducted on an indoor range at ambient conditions, in accordance with your instructions and the modified provisions of NIJ-STD-0101.07 DRAFT. Testing was conducted using caliber 5.56mm, M855 BT, 62 grain and 7.62 x 51mm, M80 Ball, 149 grain ammunition. The test sample(s) were positioned 25.00 feet from the muzzle of the barrel to produce zero (0°) degree obliquity impacts. Photoelectric infrared screens were located at 10.20 feet and 15.53 feet which, in conjunction with electronic chronographs, were used to compute bullet velocities at 12.86 feet forward of the muzzle. Penetrations were determined by visual examination of the 5.5-inch-thick clay backing material. Back-face signature was measured using a calibrated digital depth gauge. Table I provides a summary of information on the attached data record(s).

Table I: Ballistic Resistance, Summary of Results

Sample No.	Thickness (in)	Weight (lbs.)	Conditioning	Caliber	Obliquity (degrees°)	Shots (a)	Velocity (fps)		Penetrations	Deformations (mm)	
							Max	Min		Max	Min
S001	NA	5.25	AMBIENT	5.56mm, M855	0	3	3127	3107	0	27.47	20.60
S002	NA	5.55	AMBIENT	5.56mm, M855	0	3	3129	3091	0	29.88	20.82
S003	NA	5.52	AMBIENT	5.56mm, M855	0	3	3121	3089	0	31.41	28.38
S004	NA	5.52	AMBIENT	7.62 x 51mm, M80	0	3	2778	2763	0	48.34	42.08



HP WHITE LABORATORY, INC.

Protection, Resistance to Penetration, V₀ RTP

An Intertek Company

Job No: 9743

Client: 7296: Veterans MFG, L.L.C.
Test Date: 11/4/2019

SAMPLE INFO

Manufacturer: Veterans MFG, L.L.C.
Size: 10 x12 in.
Protection Level: RF2
Description: Standalone Plate

Serial Number: S001
Weight: 5.25 lbs.
Condition: Ambient

Date Rec'd: 10/31/2019

SET-UP

Shot Spacing: NJ-STD-0101.07
Witness Panel: N/A
Obliquity: 0°
Backing Material: 5.5" Clay/Plywood

Muzzle to Screen 1 (ft.): 10.20
Distance 1-4 (ft.): 5.33
Distance 2-3 (ft.): 4.64
Screen 4 to Target (ft.): 9.47
Muzzle to Target (ft.): 25.00
Target to Witness ():
Velocity Midpoint: 12.86 ft. From Muzzle

Range No: 1
Temp (°F): 65
BP (in. Hg): 30.1
RH%: 60
Barrel No/Gun: 223 / R1
Gunner: Streett
Recorder: Skrocki

AMMUNITION

Projectile: 5.56mm M855 BT
Powder: N120

Nominal Grain Weight: 62 gr.
Projectile Lot No: HPW-0028

CLAY

Block No: R1B1
Temp (°F): 101.3

Time of Drops

APPLICABLE STANDARDS OR PROCEDURES

- (1): NJ-STD-0101.07 DRAFT (MODIFIED)
- (2):
- (3):

Clay Drops (mm.)

1	25.91
2	24.39
3	26.18

Remarks

1: All Yaw measured less than 5 degrees

Footnotes

V₀ Summary:

Intended Velocity (ft/s): 3115
No. of Shots: 3

Shot No:	(µsec)		Velocity Measurements						Shot Angle	Results	BFD (mm)	Yaw	Footnotes
	Time 1	Time 2	V _i 1		V _i 2		AVG V _i						
			ft/s	m/s	ft/s	m/s	ft/s	m/s					
1	1714	1495	3110	947.8	3104	946.0	3107	946.9	0°	PP	20.60	Good	
2	1703	1485	3130	954.0	3125	952.4	3127	953.2	0°	PP	27.47	Good	
3	1713	1494	3112	948.4	3106	946.6	3109	947.5	0°	PP		Good	