



BALLISTIC RESISTANCE TEST - V₀

Customer: Veterans MFG
 OBL ID#: 25808
 Date Rcv'd: 8/15/2020
 Test Date: 8/27/2020
 Purchase Order:

TEST SAMPLE

Model No.: 160030
 Serial No.: 160030-38
 Lot No.: 1099-3
 Plies: N/A
 Description: Level III Hard Armor Plate

Size (in.): 10 x 12
 Weight (lb.): 6.53
 Thickness:
 Avg. Thk. (in):

RANGE SET-UP

Range to Target: 25 ft. Range #: 2
 Screen Dist. Vel. 1 (ft.): 5 Temperature: 69.7 °F
 Screen Dist. Vel. 2 (ft.): 5 Bar. Pressure: 30.01 in. Hg
 Screen 4 to target (ft): N/A Rel. Humidity: 50.0 %
 Primary Vel. Location: 8.25 ft. from target Sample Temp. Amb. °F
 Striking Velocity: No Recorder: Aubrey Rogers
 Target to Witness: N/A Gunner: Jason Scott
 Witness Panel: N/A
 Backing Material: 5.5" clay block w/ 3/4" plywood backing
 Obliquity: 0 Degrees
 Barrel: .308/1:9/30"

Pre Test:
 Clay Drops (mm): 17.40 18.63 18.55 17.92 18.63
 Drop Avg (mm): 18.23
 Clay Temp °F: 93.6
 Clay Box #: 2
 Post Test:
 Clay Drops (mm): 16.38 17.55 18.51 19.44 20.14
 Drop Avg (mm): 18.40
 Clay Temp °F: 91.4

AMMUNITION

Projectile: 7.62x51mm 147gr. M80 Ball Steel Jacket

Powder: Alliant Reloder 10X

STANDARDS / PROCEDURES

NIJ-STD-0101.07 draft RF1 (abbrev) (mod)

Required Velocity: 2780 fps ± 30 fps

SHOT NO.	PROJECTILE WT. (gr.)	POWDER WT. (gr.)	TIME 1 μ s (10 ⁻⁶)	TIME 2 μ s (10 ⁻⁶)	VELOCITY 1 ft/s	VELOCITY 2 ft/s	AVERAGE VELOCITY	PENET. P/C	OBLIQUITY	CALIPER BFD	NOTES
1	148.1	40.4	1800	1805	2778	2770	2774	P	0°	23.18	
2	148.0	40.4	1800	1809	2778	2764	2771	P	0°	40.31	Side Spall
3	148.5	40.4	1800	1808	2778	2765	2772	P	0°		

REMARKS:

P=Partial Penetration
 C=Complete Penetration
 UH=Unfair Hit

TEST RESULTS:

Test sample satisfied the ballistic requirements given.

FOOTNOTES:

Sample was not subjected to Armor Drop Test.
 Sample was not subjected to Armor Submersion.