

# BALLISTIC RESISTANCE TEST

## Chesapeake Testing

4603B Compass Point Road  
Belcamp, MD 21017

Client: Longfri Technologies Co  
Job No.: 2540-001-5  
Test Date: 9/12/2014

## Test Panel

Description: Ceramic plate tested as a stand alone.

Manufacturer: Longfri Technologies Co

Sample No.: 5-APM2

Size: 10.00 x 12.00 in  
Thickness: NA  
Avg. Thick: NA

Heat No.: NA  
Weight: 5.72 lbs  
Hardness: NA  
Plies/Laminates: NA

Date Received: 9/5/2014  
Via: FedEx  
Returned: FedEx

## Setup

Shot Spacing: NIJ-STD-0101.06 Level IV (modified)  
Witness Panel: Clay  
Obliquity: 0.0°  
Backing Material: 5.5-in clay/plywood  
Condition: Wet per NIJ-STD-0106.01

Primary Vel. Screens (ft): 39.500, 39.833, 44.166, 44.500  
Primary Vel. Location (ft): 42.000  
Range to Target (ft): 50.200  
Target to Witness (in): 0.000

Range No.: 7  
Temp: 71.6 °F  
BP: 29.97 inHg  
RH: 41%  
Barrel/Gun: CT-4061  
Gunner: J. Thomas  
Recorder: S. McDowell

## Ammunition

Projectile	Lot No.	Powder
(1) .30-06-cal., 165-grain APM2	Military LC13575	N133

## Applicable Standards or Procedures

- (1) Clay Drops - 17.5 mm, 18.7 mm, 18.0 mm, 17.3 mm, 19.1 mm
- (2) NIJ-STD-0101.06 Level IV
- (3) Customer request

Shot No.	Ammo	Time 1 (µs)	Vel. 1 (ft/s)	Time 2 (µs)	Vel. 2 (ft/s)	Avg. Vel. (ft/s)	Penetration	Deformation (mm)	Footnotes
1	1	1750	2857	1516	2858	2858	None	32.8	
2	1	1724	2900	1494	2900	2900	None	43.6	
3	1	1724	2900	1493	2902	2901	None	54.4	

### Remarks:

Required velocity: 2880 ±30 ft/s  
R8 box temp.: 99.0 °F  
Block 14 clay temp.: 94.8 °F

### Footnotes: