

BALLISTIC RESISTANCE TEST

Chesapeake Testing

4603B Compass Point Road
Belcamp, MD 21017

Client: Hardwire LLC
Job No.: 2084-057-1
Test Date: 11/10/2015
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Test Panel

Description: Torso plate. Model #: 07-015-2000; Part #: 07-015-2300; Lot Number: 1522-0015

Manufacturer: Hardwire, LLC

Sample No.: 1522 018S 005730

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

Weight: 4.72 lbs
Plies/Laminates: NA

Date Received: 11/10/2015
Via: FedEx
Returned: FedEx

Setup

Shot Spacing: NIJ-STD-0101.06 Level III
Witness Panel: Clay
Backing Material: 5.5-in clay/plywood
Condition: Ambient

Primary Vel. Screens (ft): 37.000, 37.333, 46.667, 47.000
Primary Vel. Location (ft): 42.000
Range to Target (ft): 50.200
Target to Witness (in): 0.000

Range No.: 1
Temp: 67.8 °F
BP: 29.7 inHg
RH: 37.8%
Barrel/Gun: CT-4070
Gunner: Matt Settle
Recorder: Brad Shaffer

Ammunition

Projectile	Lot No.	Powder
(1) 7.62 x 39-mm, 123-grain PS Ball	Russian	N133

Applicable Standards or Procedures

- (1) NIJ-STD-0101.06 Level III (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	123.0	4096	2441	3830	2437	2439	None	20.7	0.0	
2	1	122.1	4223	2368	3944	2366	2367	None	22.2	0.0	(a)
3	1	122.4	4152	2408	3877	2407	2408	None	21.7	0.0	(b)
4	1	122.3	4059	2464	3790	2463	2463	None	NA	0.0	
5	1	123.0	4105	2436	3833	2435	2436	None	NA	0.0	
6	1	122.7	4163	2402	3885	2402	2402	None	NA	0.0	
7	1	122.3	4044	2473	3776	2472	2472	None	NA	0.0	

Remarks:

Required velocity: 2400-2450 ft/s

Footnotes:

- (a) The projectile had insufficient velocity.
- (b) Shot was used to replace shot 2.