

BALLISTIC RESISTANCE TEST

NTS-Chesapeake Testing

4603B Compass Point Road
Belcamp, MD 21017

Client: ARMAT
Job No.: 2566-070-1
Test Date: 9/27/2018

Test Panel

Description: Versare Portable Shield.

Manufacturer: Versare & ARMAT

Sample No.: Versare/ARMAT Solution

Size: 33.00 x 80.00 in
Avg. Thick: 0.645 in
Thickness: 0.640 in; 0.650 in;
0.640 in; 0.650 in

Weight: 23.17 lbs
Plies/Laminates: NA

Date Received: 9/27/2018
Via: FedEx
Returned: FedEx

Setup

Shot Spacing: NIJ-STD-0108.01 Level IIIA
Witness Panel: 0.02 in 2024-T3 Al
Backing Material: NA
Condition: Ambient

Primary Vel. Screens (ft): 6.500, 9.500
Primary Vel. Location (ft): 8.000
Range to Target (ft): 16.400
Target to Witness (in): 6.000

Range No.: 5
Temp: 69.0 °F
BP: 29.9 inHg
RH: 47.8%
Barrel/Gun: CT-3090
Gunner: Marty Bindel
Recorder: T. Contreras

Ammunition

Projectile	Lot No.	Powder
(1) 9-mm, 124-grain FMJ (2) .44-mag., 240-grain SWCGC	Remington Rim Rock Bullets	Accurate No. 2 HP-38

Applicable Standards or Procedures

- (1) NIJ-STD-0108.01 Level IIIA
(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	Obliq. (°)	Footnotes
1	1	124.0	2189	1370	2186	1372	1371	None	0.0	
2	1	125.0	2108	1423	2106	1425	1424	None	0.0	
3	1	124.6	2113	1420	2113	1420	1420	None	0.0	
4	1	125.1	2137	1404	2137	1404	1404	None	0.0	
5	1	124.4	2133	1406	2133	1406	1406	None	0.0	
6	2	240.1	2089	1436	2086	1438	1437	None	0.0	
7	2	243.0	2098	1430	2098	1430	1430	None	0.0	
8	2	241.4	2115	1418	2115	1418	1418	None	0.0	
9	2	242.2	2123	1413	2123	1413	1413	None	0.0	
10	2	242.8	2113	1420	2111	1421	1420	None	0.0	

Remarks:

Required velocity: 1350 to 1450 ft/s
Projectile yaw check: 0° yaw on all impacts.

Footnotes:

Inner honeycomb core bonded to ARMAT ABP13 ballistic panel with a Polyvinyl acetate adhesive. This structure is wrapped in an acoustical polyester plain weave fabric, bonded to the panel surface with a 100% thermoplastic adhesive polymer resin.

by:

Kyle North, Engineer



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ARMAT PROPRIETARY INFORMATION

EMILY E. ADKINS
Notary Public
Harford County
Maryland

My Commission Expires August 31, 2021

Emily E. Adkins 10/14/18

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Test Panel

Description: Portable Shield Partition

Manufacturer: Versare/ARMAT

Sample No.: Versare/ARMAT-ABP-13

Size: 86.00 x 77.00 in
Avg. Thick: NA
Thickness: NA

Weight: 88.90 lbs
Plies/Laminates: NA

Date Received: 10/19/2018
Via: FedEx
Returned: FedEx

Setup

Shot Spacing: Customer request
Witness Panel: NA
Backing Material: NA
Condition: Ambient

Primary Vel. Screens (ft): NA
Primary Vel. Location (ft): NA
Range to Target (ft): NA
Target to Witness (in): NA

Range No.: 4
Temp: 67.8 °F
BP: 29.8 inHg
RH: 41.2%
Barrel/Gun: See Remarks
Gunner: Josh Petty
Recorder: Matt Settle

Ammunition

Projectile	Lot No.	Powder
(1) .44-mag., 240-grain SWCGC	Rim Rock Bullets	2400
(2) 9-mm NATO, 124-grain FMJ	Remington	NA
(3) 12-gauge, 2 3/4 in mag., 00 BK	Herters	NA

Applicable Standards or Procedures

(1) Customer request

Shot No.	Ammo	Weight (gr)	Time 1 (µs)	Time 2 (µs)	Avg. Vel. (ft/s)	Penetration	Obliq. (°)	Footnotes
1	2	NA	NR	NR	NR	None	0.0	(a)
2	2	NA	NR	NR	NR	None	0.0	(a)
3	2	NA	NR	NR	NR	None	0.0	(a)
4	2	NA	NR	NR	NR	None	0.0	(a)
5	2	NA	NR	NR	NR	None	0.0	(a)
6	2	NA	NR	NR	NR	None	0.0	(a)
7	2	NA	NR	NR	NR	None	0.0	(a)
8	2	NA	NR	NR	NR	None	0.0	(a)
9	2	NA	NR	NR	NR	None	0.0	(a)
10	2	NA	NR	NR	NR	None	0.0	(a)
11	1	NA	NR	NR	NR	None	0.0	(b)
12	1	NA	NR	NR	NR	None	0.0	(b)
13	1	NA	NR	NR	NR	None	0.0	(b)
14	1	NA	NR	NR	NR	None	0.0	(b)
15	1	NA	NR	NR	NR	None	0.0	(b)
16	1	NA	NR	NR	NR	None	0.0	(b)
17	2	NA	NR	NR	NR	None	0.0	(c)
18	2	NA	NR	NR	NR	None	0.0	(c)
19	2	NA	NR	NR	NR	None	0.0	(c)
20	2	NA	NR	NR	NR	None	0.0	(c)
21	2	NA	NR	NR	NR	None	0.0	(c)
22	2	NA	NR	NR	NR	None	0.0	(c)
23	2	NA	NR	NR	NR	None	0.0	(c)

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Manufacturer: Versare/ARMAT

Sample No.: Versare/ARMAT-ABP-13

Shot No.	Ammo	Weight (gr)	Time 1 (µs)	Time 2 (µs)	Avg. Vel. (ft/s)	Penetration	Obliq. (°)	Footnotes
24	2	NA	NR	NR	NR	None	0.0	(c)
25	2	NA	NR	NR	NR	None	0.0	(c)
26	2	NA	NR	NR	NR	None	0.0	(c)
27	2	NA	NR	NR	NR	None	0.0	(c)
28	2	NA	NR	NR	NR	None	0.0	(c)
29	2	NA	NR	NR	NR	None	0.0	(c)
30	2	NA	NR	NR	NR	None	0.0	(c)
31	2	NA	NR	NR	NR	None	0.0	(c)
32	2	NA	NR	NR	NR	None	0.0	(c)
33	2	NA	NR	NR	NR	None	0.0	(c)
34	2	NA	NR	NR	NR	None	0.0	(c)
35	2	NA	NR	NR	NR	None	0.0	(c)
36	2	NA	NR	NR	NR	None	0.0	(c)
37	2	NA	NR	NR	NR	None	0.0	(d)
38	2	NA	NR	NR	NR	None	0.0	(d)
39	2	NA	NR	NR	NR	None	0.0	(d)
40	2	NA	NR	NR	NR	None	0.0	(d)
41	2	NA	NR	NR	NR	None	0.0	(d)
42	2	NA	NR	NR	NR	None	0.0	(d)
43	2	NA	NR	NR	NR	None	0.0	(d)
44	2	NA	NR	NR	NR	None	0.0	(d)
45	2	NA	NR	NR	NR	None	0.0	(d)
46	2	NA	NR	NR	NR	None	0.0	(d)
47	2	NA	NR	NR	NR	None	0.0	(d)
48	2	NA	NR	NR	NR	None	0.0	(d)
49	2	NA	NR	NR	NR	None	0.0	(d)
50	2	NA	NR	NR	NR	None	0.0	(d)
51	2	NA	NR	NR	NR	None	0.0	(d)
52	2	NA	NR	NR	NR	None	0.0	(d)
53	2	NA	NR	NR	NR	None	0.0	(d)
54	2	NA	NR	NR	NR	None	0.0	(d)
55	2	NA	NR	NR	NR	None	0.0	(d)
56	2	NA	NR	NR	NR	None	0.0	(d)
57	2	NA	NR	NR	NR	None	0.0	(d)
58	2	NA	NR	NR	NR	None	0.0	(d)
59	2	NA	NR	NR	NR	None	0.0	(d)
60	2	NA	NR	NR	NR	None	0.0	(d)
61	2	NA	NR	NR	NR	None	0.0	(d)
62	2	NA	NR	NR	NR	None	0.0	(d)
63	2	NA	NR	NR	NR	None	0.0	(d)
64	2	NA	NR	NR	NR	None	0.0	(d)
65	2	NA	NR	NR	NR	None	0.0	(d)
66	2	NA	NR	NR	NR	None	0.0	(d)
67	2	NA	NR	NR	NR	None	0.0	(d)
68	2	NA	NR	NR	NR	None	0.0	(d)
69	3	NA	NR	NR	NR	None	0.0	(e)
70	3	NA	NR	NR	NR	None	0.0	(e)

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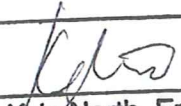
Sample No.: Versare/ARMAT-ABP-13

Remarks:

All shots were fired using firearms.

Footnotes:

- (a) Ten shots fired into a customer specified area using a Glock Model 17 pistol with 4.5" barrel, firing factory ammunition.
- (b) Six shots fired into a customer specified area using a Ruger Super Blackhawk pistol with 7.5" barrel, firing factory ammunition.
- (c) Twenty shots fired evenly throughout the sample using a Glock Model 17 pistol with 4.5" barrel, firing factory ammunition.
- (d) Thirty-two shots fired evenly throughout the sample using a CZ Scorpion Carbine with 16" barrel, firing factory ammunition.
- (e) Two shots fired at customer specified locations using a Remington 870 shotgun with 18.5" barrel, firing factory ammunition.

by: 
Kyle North, Engineer


EMILY E. ADKINS
Notary Public
Harford County
Maryland
My Commission Expires August 31, 2021

Emily E. Adkins 11/13/18