

BALLISTIC RESISTANCE TEST

Chesapeake Testing

4603B Compass Point Road
Belcamp, MD 21017

Client: THE SELF DEFENSE COMPANY

Job No.: 3786-001-1

Test Date: 3/10/2016

Test Panel

Description: Unidirectional Aramid fabric, 25 layers.

Manufacturer: THE SELF DEFENSE COMPANY

Sample No.: AS230TT- No.2

Size: 400 x 400 mm
Avg. Thick: NA
Thickness: NA

Weight: 0.910 kg
Plies/Laminates: NA

Date Received: 3/10/2016
Via: Hand Carried
Returned: Hand Carried

Setup

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

Primary Vel. Screens (ft): 6.500, 6.833,
11.166, 11.500
Primary Vel. Location (ft): 9.000
Range to Target (ft): 17.200
Target to Witness (in): 0.000

Range No.: 2
Temp: 69.0 °F
BP: 29.9 inHg
RH: 41.4%
Barrel/Gun: CT-3108
Gunner: Jason Siverd
Recorder: M. Contreras

Ammunition

Projectile	Lot No.	Powder
(1) .44-mag., 240-grain SJHP	Speer Unknown	Accurate No. 5

Applicable Standards or Procedures

Clay Drop 1 - Drop Time: 9:50 AM; Block No. 29; Temp: 92.8°F; Drop Depths: 18.9 mm, 21.0 mm, 19.7 mm, 19.2 mm, 21.2 mm

(1) NIJ-STD-0101.06 Level IIIA (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	239.7	3490	1433	3016	1437	1435	None	37.5	0.0	
2	1	239.7	3452	1448	2983	1453	1451	None	33.9	0.0	
3	1	239.9	3486	1434	3013	1438	1436	None	29.9	0.0	
4	1	239.0	3482	1436	3009	1440	1438	None	NA	30.0	
5	1	239.0	3482	1436	2997	1446	1441	None	NA	45.0	
6	1	239.0	3498	1429	3024	1433	1431	None	NA	0.0	

Remarks:

Required velocity: 1430 ±30 ft/s

Footnotes:

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4603B Compass Point Road
Belcamp, MD 21017

Client: THE SELF DEFENSE COMPANY

Job No.: 3786-001-2

Test Date: 3/10/2016

Test Panel

Description: Unidirectional Aramid laminate.

Manufacturer: THE SELF DEFENSE COMPANY

Sample No.: Superflex 4.6- No.1A

Size: 400 x 502 mm
Avg. Thick: NA
Thickness: NA

Weight: 0.895 kg
Plies/Laminates: NA

Date Received: 3/10/2016
Via: Hand Carried
Returned: Hand Carried

Setup

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

Primary Vel. Screens (ft): 6.500, 6.833,
11.166, 11.500
Primary Vel. Location (ft): 9.000
Range to Target (ft): 17.200
Target to Witness (in): 0.000

Range No.: 2
Temp: 68.9 °F
BP: 29.8 inHg
RH: 43.2%
Barrel/Gun: CT-3108
Gunner: Jason Siverd
Recorder: M. Contreras

Ammunition

Projectile	Lot No.	Powder
(1) .44-mag., 240-grain SJHP	Remington Unknown	Accurate No. 5

Applicable Standards or Procedures

Clay Drop 1 - Drop Time: 9:50 AM; Block No. 29; Temp: 92.8°F; Drop Depths: 18.9 mm,21.0 mm,19.7 mm,19.2 mm,21.2 mm

(1) NIJ-STD-0101.04 Level IIIA (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	238.9	3426	1459	NR	NR	1459	None	37.9	0.0	(a)
2	1	237.3	3487	1434	3015	1437	1436	None	38.4	0.0	
3	1	239.4	3525	1418	3045	1423	1421	None	40.1	0.0	
4	1	240.1	3463	1444	2991	1449	1446	None	NA	30.0	
5	1	239.1	3468	1442	2998	1445	1444	None	NA	30.0	
6	1	239.6	3431	1457	2952	1468	1463	None	NA	0.0	(b)

Remarks:

Required velocity: 1430 ±30 ft/s

Footnotes:

(a) No velocity reading was obtained.

(b) The projectiles velocity spread was greater than 10 feet.

BALLISTIC RESISTANCE TEST

Chesapeake Testing

4603B Compass Point Road
Belcamp, MD 21017

Client: THE SELF DEFENSE COMPANY

Job No.: 3786-001-3

Test Date: 3/11/2016

Test Panel

Description: Single curve PE plate tested in conjunction with unidirectional aramid fabric, 25 layers.

Manufacturer: THE SELF DEFENSE COMPANY

Sample No.: UDL-HG2-160 (M80, V0) No.2

Size: 250 x 300 mm
Avg. Thick: NA
Thickness: NA

Weight: 1.205 kg
Plies/Laminates: NA

Date Received: 3/10/2016
Via: Hand Carried
Returned: Hand Carried

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.: 2
Temp: 69.0 °F
BP: 30.0 inHg
RH: 47.2%
Barrel/Gun: Test Barrels
Gunner: Lance Eveland
Recorder: M. Contreras

Ammunition

Projectile	Lot No.	Powder
(1) 7.62 x 51-mm, 149-grain M80 FMJ	Military Unknown	N133
(2) 7.62 x 39-mm, 123-grain PS Ball	Russian Unknown	IMR 4227

Applicable Standards or Procedures

Clay Drop 1 - Drop Time: 11:00 AM; Block No. 29; Temp: 92.2°F; Drop Depths: 18.8 mm, 20.1 mm, 20.1 mm, 17.9 mm, 19.9 mm

(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	148.7	3593	2783	3348	2788	2785	None	31.3	0.0	
2	1	147.6	3581	2793	3337	2797	2795	None	41.2	0.0	
3	2	122.6	4208	2376	3924	2379	2377	None	34.9	0.0	
4	2	122.9	4239	2359	3952	2362	2360	None	32.6	0.0	
5	2	122.1	4176	2395	3893	2397	2396	None	NA	0.0	
6	2	122.3	4218	2371	3934	2372	2372	None	NA	0.0	

Remarks:

M80 required velocity: 2780 ±30 ft/s

PS Ball requested velocity: 2365 ±35 ft/s

Footnotes: