

BALLISTIC RESISTANCE TEST

NTS-Chesapeake Testing

4603B Compass Point Road
Belcamp, MD 21017

Client: Diamond Defense LLC
Job No.: CD01-2021-R01BRT-196176
Test Date: 7/13/2021

Test Panel

Description: C1. 16#40-7727-105135.

Manufacturer:

Sample No.: 32533-02 (.30 Cal 110gr FMJ, V0-NIJ08)

Size: 9.50 x 12.50 in
Avg. Thick: 0.229 in
Thickness: 0.232 in; 0.230 in;
0.225 in; 0.228 in

Weight: 0.91 lbs
Plies/Laminates: NA

Date Received: 7/12/2021
Via: UPS
Returned: UPS

Setup

Shot Spacing: NIJ-STD-0108.01 Level IIIA
Witness Panel: 0.02 in 2024-T3 Aluminum
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.: 1
Temp: 68.8 °F
BP: 30.1 inHg
RH: 57.0%
Barrel/Gun: Test Barrel
Gunner: Cody Schilling
Recorder: Lance Eveland

Ammunition

Projectile	Lot No.	Powder
(1) .30-cal. Carbine, 110 gr. FMJ	Magtech	Accurate No. 2

Applicable Standards or Procedures

- (1) NIJ-STD-0108.01 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	109.8	1469	2042	1469	2042	2042	None		0.0	

Remarks:

Required Velocity: 2030 +/- 50 ft/s.

Footnotes:

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4603B Compass Point Road
Belcamp, MD 21017

Client: Diamond Defense LLC
Job No.: CD01-2021-R01BRT-196168
Test Date: 7/13/2021

Test Panel

Description: C1. 16#40-7727-105135.

Manufacturer:

Sample No.: 32533-03 (40gr SS197, V0-NIJ08)

Size: 9.50 x 12.50 in
Avg. Thick: 0.234 in
Thickness: 0.236 in; 0.238 in;
0.232 in; 0.230 in

Weight: 0.91 lbs
Plies/Laminates: NA

Date Received: 7/12/2021
Via: UPS
Returned: UPS

Setup

Shot Spacing: NIJ-STD-0108.01 Level IIIA
Witness Panel: 0.02 in 2024-T3 Aluminum
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.: 1
Temp: 68.8 °F
BP: 30.1 inHg
RH: 58.0%
Barrel/Gun: Test Barrel
Gunner: Cody Schilling
Recorder: Lance Eveland

Ammunition

Projectile	Lot No.	Powder
(1) 5.7X28mm, 40-grain SS197SR	FNH USA	Accurate No. 2

Applicable Standards or Procedures

- (1) NIJ-STD-0108.01 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	39.9	1669	1797	1669	1797	1797	None		0.0	
2	1	40.0	1632	1838	1632	1838	1838	None		0.0	
3	1	40.1	1625	1846	1625	1846	1846	None		0.0	

Remarks:

Required Velocity: 1790 +/- 50 ft/s.

Footnotes:

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4603B Compass Point Road
Belcamp, MD 21017

Client: Diamond Defense LLC
Job No.: CD01-2021-R01BRT-196170
Test Date: 7/13/2021

Test Panel

Description: C1. 16#40-7727-105135.

Manufacturer:

Sample No.: 32533-04 (28gr SS195, V0-NIJ08)

Size: 9.50 x 12.50 in
Avg. Thick: 0.232 in
Thickness: 0.234 in; 0.236 in;
0.228 in; 0.231 in

Weight: 0.91 lbs
Plies/Laminates: NA

Date Received: 7/12/2021
Via: UPS
Returned: UPS

Setup

Shot Spacing: NIJ-STD-0108.01 Level IIIA
Witness Panel: 0.02 in 2024-T3 Aluminum
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.: 1
Temp: 68.8 °F
BP: 30.1 inHg
RH: 57.0%
Barrel/Gun: Test Barrel
Gunner: Cody Schilling
Recorder: Lance Eveland

Ammunition

Projectile	Lot No.	Powder
(1) 5.7X28mm 27-grain SS195 LFHP	FNH USA 06FNB14	Accurate No. 2

Applicable Standards or Procedures

- (1) NIJ-STD-0108.01 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	27.6	1530	1961	1532	1958	1960	None		0.0	
2	1	27.6	1415	2120	1415	2120	2120	None		0.0	
3	1	27.6	1469	2042	1469	2042	2042	None		0.0	

Remarks:

Required Velocity: 1970 +/- 50 ft/s.

Footnotes:

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NTS-Chesapeake Testing

4603B Compass Point Road
Belcamp, MD 21017

Client: Diamond Defense LLC
Job No.: CD01-2021-R01BRT-196165
Test Date: 7/13/2021

Test Panel

Description: C1. 16#40-7727-105135.

Manufacturer:

Sample No.: 32533-06 (9mm 127 SXT, V0-NIJ08)

Size: 9.50 x 12.50 in
Avg. Thick: 0.233 in
Thickness: 0.237 in; 0.235 in;
0.231 in; 0.229 in

Weight: 0.91 lbs
Plies/Laminates: NA

Date Received: 7/12/2021
Via: UPS
Returned: UPS

Setup

Shot Spacing: NIJ-STD-0108.01 Level IIIA
Witness Panel: 0.02 in 2024-T3 Aluminum
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.: 1
Temp: 68.8 °F
BP: 30.1 inHg
RH: 57.0%
Barrel/Gun: Test Barrel
Gunner: Cody Schilling
Recorder: Lance Eveland

Ammunition

Projectile	Lot No.	Powder
(1) 9-mm, 127-grain SXT	Winchester Ranger	Accurate No. 2

Applicable Standards or Procedures

- (1) NIJ-STD-0108.01 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	127.0	2172	1381	2172	1381	1381	None		0.0	
2	1	127.0	2211	1357	2211	1357	1357	None		0.0	
3	1	127.1	2208	1359	2211	1357	1358	None		0.0	

Remarks:

Required Velocity: 1340 +/- 50 ft/s.

Footnotes:

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NTS-Chesapeake Testing

4603B Compass Point Road
Belcamp, MD 21017

Client: Diamond Defense LLC
Job No.: CD01-2021-R01BRT-196157
Test Date: 7/13/2021

Test Panel

Description: C1. 16#40-7727-105135.

Manufacturer:

Sample No.: 32533-07 (.40 Cal 95gr HP, V0-NIJ08)

Size: 9.50 x 12.50 in
Avg. Thick: 0.232 in
Thickness: 0.232 in; 0.234 in;
0.233 in; 0.229 in

Weight: 0.91 lbs
Plies/Laminates: NA

Date Received: 7/12/2021
Via: UPS
Returned: UPS

Setup

Shot Spacing: NIJ-STD-0108.01 Level IIIA
Witness Panel: 0.02 in 2024-T3 Aluminum
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.: 1
Temp: 68.8 °F
BP: 30.1 inHg
RH: 62.0%
Barrel/Gun: Test Barrel
Gunner: Cody Schilling
Recorder: Lance Eveland

Ammunition

Projectile	Lot No.	Powder
(1) .40-cal., 95-grain S&W HP	Smith & Wesson	Accurate No. 2

Applicable Standards or Procedures

- (1) NIJ-STD-0108.01 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	94.6	2045	1467	2047	1466	1466	None		0.0	
2	1	94.7	2025	1481	2025	1481	1481	None		0.0	
3	1	94.8	2023	1483	2025	1481	1482	None		0.0	

Remarks:

Required Velocity: 1470 +/- 50 ft/s.

Footnotes:

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NTS-Chesapeake Testing

4603B Compass Point Road
Belcamp, MD 21017

Client: Diamond Defense LLC
Job No.: CD01-2021-R01BRT-196177
Test Date: 7/13/2021

Test Panel

Description: C1. 16#40-7727-105135.

Manufacturer:

Sample No.: 32533-08 (12 gauge 1oz slug, V0-NIJ08)

Size: 9.50 x 12.50 in
Avg. Thick: 0.230 in
Thickness: 0.230 in; 0.232 in;
0.230 in; 0.227 in

Weight: 0.91 lbs
Plies/Laminates: NA

Date Received: 7/12/2021
Via: UPS
Returned: UPS

Setup

Shot Spacing: NIJ-STD-0108.01 Level IIIA
Witness Panel: 0.02 in 2024-T3 Aluminum
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.: 1
Temp: 68.8 °F
BP: 30.1 inHg
RH: 57.0%
Barrel/Gun: Test Barrel
Gunner: Cody Schilling
Recorder: Lance Eveland

Ammunition

Projectile	Lot No.	Powder
(1) 12 ga. 2-3/4 in. 1 oz. Slug	Winchester Ranger	NA

Applicable Standards or Procedures

- (1) NIJ-STD-0108.01 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	NA	2572	1166	2546	1178	1172	None		0.0	

Remarks:

Footnotes:

BALLISTIC RESISTANCE TEST

NTS-Chesapeake Testing

4603B Compass Point Road
Belcamp, MD 21017

Client: Diamond Defense LLC
Job No.: CD01-2021-R01BRT-196163
Test Date: 7/13/2021

Test Panel

Description: C1. 16#40-7727-105135.

Manufacturer:

Sample No.: 32533-09 (9mm 115gr FMJ, V0-NIJ08)

Size: 9.50 x 12.50 in
Avg. Thick: 0.232 in
Thickness: 0.233 in; 0.235 in;
0.229 in; 0.231 in

Weight: 0.91 lbs
Plies/Laminates: NA

Date Received: 7/12/2021
Via: UPS
Returned: UPS

Setup

Shot Spacing: NIJ-STD-0108.01 Level IIIA
Witness Panel: 0.02 in 2024-T3 Aluminum
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.: 1
Temp: 68.8 °F
BP: 30.1 inHg
RH: 57.0%
Barrel/Gun: Test Barrel
Gunner: Cody Schilling
Recorder: Lance Eveland

Ammunition

Projectile	Lot No.	Powder
(1) 9mm LUGER 115gr FMJ	Remington	Accurate No. 2

Applicable Standards or Procedures

- (1) NIJ-STD-0108.01 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	115.0	2250	1333	2250	1333	1333	None		0.0	
2	1	115.2	2274	1319	2277	1318	1318	None		0.0	
3	1	115.3	2262	1326	2262	1326	1326	None		0.0	

Remarks:

Required Velocity: 1305 +/- 50 ft/s.

Footnotes:

BALLISTIC RESISTANCE TEST

NTS-Chesapeake Testing

4603B Compass Point Road
Belcamp, MD 21017

Client: Diamond Defense LLC
Job No.: CD01-2021-R01BRT-196174
Test Date: 7/13/2021

Test Panel

Description: C1. 16#40-7727-105135.

Manufacturer:

Sample No.: 32533-10 (Norinco, V0-NIJ08)

Size: 9.50 x 12.50 in
Avg. Thick: 0.232 in
Thickness: 0.235 in; 0.234 in;
0.230 in; 0.229 in

Weight: 0.91 lbs
Plies/Laminates: NA

Date Received: 7/12/2021
Via: UPS
Returned: UPS

Setup

Shot Spacing: NIJ-STD-0108.01 Level IIIA
Witness Panel: 0.02 in 2024-T3 Aluminum
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.: 1
Temp: 68.8 °F
BP: 30.1 inHg
RH: 57.0%
Barrel/Gun: Test Barrel
Gunner: Cody Schilling
Recorder: Lance Eveland

Ammunition

Projectile	Lot No.	Powder
(1) 7.62 x 25-mm, TOKAREV SJLC	Chinese	Accurate No. 2

Applicable Standards or Procedures

- (1) NIJ-STD-0108.01 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	85.5	1908	1572	1908	1572	1572	None		0.0	
2	1	85.8	1940	1546	1940	1546	1546	None		0.0	
3	1	85.9	1967	1525	1969	1524	1524	None		0.0	

Remarks:

Required Velocity: 1550 +/- 50 ft/s.

Footnotes:

BALLISTIC RESISTANCE TEST

NTS-Chesapeake Testing

4603B Compass Point Road
Belcamp, MD 21017

Client: Diamond Defense LLC
Job No.: CD01-2021-R01BRT-196155
Test Date: 7/13/2021

Test Panel

Description: C1. 16#40-7727-105135.

Manufacturer:

Sample No.: 32533-11 (44 Mag, V0-NIJ08)

Size: 9.50 x 12.50 in
Avg. Thick: 0.228 in
Thickness: 0.230 in; 0.232 in;
0.225 in; 0.223 in

Weight: 0.91 lbs
Plies/Laminates: NA

Date Received: 7/12/2021
Via: UPS
Returned: UPS

Setup

Shot Spacing: NIJ-STD-0108.01 Level IIIA
Witness Panel: 0.02 in 2024-T3 Aluminum
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.: 1
Temp: 68.8 °F
BP: 30.1 inHg
RH: 64.0%
Barrel/Gun: Test Barrel
Gunner: Cody Schilling
Recorder: Lance Eveland

Ammunition

Projectile	Lot No.	Powder
(1) .44-mag., 240-grain SJHP	Speer B02X	HP-38

Applicable Standards or Procedures

- (1) NIJ-STD-0108.01 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	241.0	2159	1390	2159	1390	1390	None		0.0	
2	1	241.0	2155	1392	2157	1391	1391	None		0.0	
3	1	241.0	2084	1440	2081	1442	1441	None		0.0	

Remarks:

Required Velocity: 1400 +/- 50 ft/s.

Footnotes:

BALLISTIC RESISTANCE TEST

NTS-Chesapeake Testing

4603B Compass Point Road
Belcamp, MD 21017

Client: Diamond Defense LLC
Job No.: CD01-2021-R01BRT-196159
Test Date: 7/13/2021

Test Panel

Description: C1. 16#40-7727-105135.

Manufacturer:

Sample No.: 32533-12 (.357 Sig GDHP, V0-NIJ08)

Size: 9.50 x 12.50 in
Avg. Thick: 0.233 in
Thickness: 0.232 in; 0.234 in;
0.235 in; 0.230 in

Weight: 0.91 lbs
Plies/Laminates: NA

Date Received: 7/12/2021
Via: UPS
Returned: UPS

Setup

Shot Spacing: NIJ-STD-0108.01 Level IIIA
Witness Panel: 0.02 in 2024-T3 Aluminum
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.: 1
Temp: 68.8 °F
BP: 30.1 inHg
RH: 59.0%
Barrel/Gun: Test Barrel
Gunner: Cody Schilling
Recorder: Lance Eveland

Ammunition

Projectile	Lot No.	Powder
(1) .357 SIG 125-grain GDHP	Speer	Accurate No. 2

Applicable Standards or Procedures

- (1) NIJ-STD-0108.01 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	124.2	2032	1476	2032	1476	1476	None		0.0	
2	1	124.1	2057	1458	2057	1458	1458	None		0.0	
3	1	124.0	2015	1489	2018	1487	1488	None		0.0	

Remarks:

Required Velocity: 1465 +/- 50 ft/s.

Footnotes: