

National Technical Systems

7447 W. 33rd St. N.
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www.nts.com/locations/wichita

HARD ARMOR STAND-ALONE PLATE:

P-BFS TEST

Date Received: February 16, 2023
Via: FedEx
Returned Via: FedEx

Record No.: PGD23001-6
Test Date: March 28, 2023
Customer: Protection Group Denmark

Test Conditions

Temperature: 20.0 °C
Humidity: 34 %
Clay Block No.: 11
Clay Block Size: 24" x 24" x 5.5"
Clay Temperature: 35.6 °C
Drop Average: 19.06 mm

Range 3

Muzzle to Screen 1: 11.98 m
Screen 1 - 4: 1.52 m
Screen 4 - Target: 1.74 m
Midpoint to Target: 2.50 m
Barrel Length: 66.04 cm

Test Standard: IAW Modified / Abbreviated NIJ 0101.06, July 2008
Threat Level: III++

Conditioning: Ambient
Drop Test: Yes
Submersion: Yes

Sample Description		Shot / Projectile Description				Chronograph		Test Results	
Manufacturer:	Model No.:	Shot No.	Shot Location	Degree Obliquity	Caliber	Bullet Weight (gr.) / Type	TIME sec	VELOCITY m/s	Perforation
Protection Group Denmark	B-line-Single-NIJ3	1	Top Left	0°	5.56x45mm	62 / SS109	159.6	954.9	17.92
N/A	N/A	2	Bottom Right	0°			160.0	952.5	16.48
N/A	N/A	3	Middle Left	0°			159.4	956.1	No Perforation
30x25		4	Middle Right	0°			159.6	954.9	No Perforation
2.550		5	Top Right	0°			161.2	945.4	No Perforation
		6	Bottom Left	0°			160.6	948.9	No Perforation

This test was performed in accordance with the specification requirements listed in addition to any customer testing modifications or requests. The test results properly reflect the ballistic performance of the listed sample. This test report shall not be reproduced except in full without written approval of National Technical Systems.

Notes:

•Stand-Alone plate tested non-planar (with clay mound / build-up)

Ammunition Description:

5.56x45mm, 62 gr. FMJ (SS109)
Velocity: 950 +/- 9.1 m/s

Sample Description:

•Customer Proprietary

Project Manager: Montgomery
Range Tech(s): Zerger

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HARD ARMOR STAND-ALONE PLATE:

P-BFS TEST

Date Received: February 16, 2023
Via: FedEx
Returned Via: FedEx

Record No.: PGD23001-7
Test Date: March 28, 2023
Customer: Protection Group Denmark

Test Conditions

Temperature: 20.4 °C
Humidity: 33 %
Clay Block No.: 11
Clay Block Size: 24" x 24" x 5.5"
Clay Temperature: 35.4 °C
Drop Average: 18.55 mm

Range 3

Muzzle to Screen 1: 11.98 m
Screen 1 - 4: 1.52 m
Screen 4 - Target: 1.74 m
Midpoint to Target: 2.50 m
Barrel Length: 66.04 cm

Test Standard: IAW Modified / Abbreviated NIJ 0101.06, July 2008
Threat Level: III

Conditioning: Ambient
Drop Test: Yes
Submersion: Yes

Sample Description	Shot / Projectile Description				Chronograph		Test Results	
	Shot No.	Shot Location	Degree Obliquity	Caliber	Bullet Weight (gr.) / Type	TIME sec	VELOCITY m/s	Perforation
Manufacturer: Protection Group Denmark	1	Top Left	0°	7.62mm NATO	147 / FMJ (M80)	179.2	850.4	43.85
Model No.: B-line-Single-NIJ3	2	Bottom Right	0°			179.0	851.4	40.93
Lot No.: N/A	3	Middle Left	0°			177.4	859.1	No Perforation
Serial No.: N/A	4	Middle Right	0°			179.1	850.9	No Perforation
Size (cm): 30x25	5	Top Right	0°			180.6	843.9	No Perforation
Weight (kg.): 2.558	6	Bottom Left	0°			178.4	854.3	No Perforation

This test was performed in accordance with the specification requirements listed in addition to any customer testing modifications or requests. The test results properly reflect the ballistic performance of the listed sample. This test report shall not be reproduced except in full without written approval of National Technical Systems.

Notes:

•Stand-Alone plate tested non-planar (with clay mound / build-up)

Ammunition Description:

7.62mm NATO, 147 gr. (9.6g) FMJ (U.S. Military M80)
Velocity: 847 +/- 9.1 m/s

Sample Description:

•Customer Proprietary

Project Manager: Montgomery
Range Tech(s): Zerger

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HARD ARMOR STAND-ALONE PLATE: P-BFS TEST

Date Received: February 16, 2023
Via: FedEx
Returned Via: FedEx

Record No.: PGD23001-8
Test Date: March 28, 2023
Customer: Protection Group Danmark

Test Conditions

Temperature: 21.9 °C
Humidity: 33 %
Clay Block No.: 11
Clay Block Size: 24" x 24" x 5.5"
Clay Temperature: 35.3 °C
Drop Average: 18.89 mm

Range 3

Muzzle to Screen 1: 11.98 m
Screen 1 - 4: 1.52 m
Screen 4 - Target: 1.74 m
Midpoint to Target: 2.50 m
Barrel Length: 50.80 cm

Test Standard: IAW Modified / Abbreviated NIJ 0101.06, July 2008
Threat Level: III+

Conditioning: Ambient
Drop Test: Yes
Submersion: Yes

Sample Description	Shot / Projectile Description					Chronograph		Test Results
	Shot No.	Shot Location	Degree Obliquity	Caliber	Bullet Weight (gr.) / Type	TIME sec	VELOCITY m/s	Penetration BFS (mm)
Manufacturer: Protection Group Danmark	1	Top Left	0°	7.62x39mm	123 / MSC	212.1	718.5	25.28
Model No.: B-line-Single-NIJ3	2	Bottom Right	0°			212.3	717.9	25.58
Lot No.: N/A	3	Middle Left	0°			209.6	726.4	No Perforation
Serial No.: N/A	4	Middle Right	0°			211.9	719.2	No Perforation
Size (cm): 30x25	5	Top Right	0°			206.7	730.2	No Perforation
Weight (kg.): 2.532	6	Bottom Left	0°			209.3	728.1	No Perforation

This test was performed in accordance with the specification requirements listed in addition to any customer testing modifications or requests. The test results properly reflect the ballistic performance of the listed sample. This test report shall not be reproduced except in full without written approval of National Technical Systems.

Notes:

•Stand-Alone plate tested non-planar (with clay mound / build-up)

Ammunition Description:

Russian 7.62x39mm 123 gr. MSC (M43)
Velocity: 725 +/- 9.1 m/s

Sample Description:

•Customer Proprietary

Project Manager: Montgomery
Range Tech(s): Zerger

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HARD ARMOR STAND-ALONE PLATE: P-BFS TEST

Date Received: February 16, 2023
Via: FedEx
Returned Via: FedEx

Record No.: PGD23001-9
Test Date: March 28, 2023
Customer: Protection Group Danmark

Test Conditions

Temperature: 21.1 °C
Humidity: 34 %
Clay Block No.: 11
Clay Block Size: 24" x 24" x 5.5"
Clay Temperature: 34.7 °C
Drop Average: 17.23 mm

Range 3

Muzzle to Screen 1: 11.98 m
Screen 1 - 4: 1.52 m
Screen 4 - Target: 1.74 m
Midpoint to Target: 2.50 m
Barrel Length: 50.80 cm

Test Standard: IAW Modified / Abbreviated NIJ 0101.06, July 2008
Threat Level: III+

Conditioning: Ambient
Drop Test: Yes
Submersion: Yes

Sample Description		Shot / Projectile Description				Chronograph		Test Results	
Manufacturer:	Model No.:	Shot No.:	Shot Location:	Degree Obliquity:	Caliber:	Bullet Weight (gr.) / Type:	TIME sec:	VELOCITY m/s:	Penetration BFS (mm):
Protection Group Danmark	B-line-Single-NIJ3	1	Top Center	0°	7.62x39mm	119 / API BZ	214.4	710.8	24.34
N/A	N/A	2	Bottom Right	0°			211.3	721.2	23.86
N/A	N/A	3	Bottom Left	0°			213.5	713.8	24.38
Serial No.:	Size (cm):	Weight (kg.):							
N/A	30x25	2.569							

This test was performed in accordance with the specification requirements listed in addition to any customer testing modifications or requests. The test results properly reflect the ballistic performance of the listed sample. This test report shall not be reproduced except in full without written approval of National Technical Systems.

Notes:

•Stand-Alone plate tested non-planar (with clay mound / build-up)

Ammunition Description:

Russian 7.62x39mm 119 gr. API BZ
Velocity: 715 +/- 9.1 m/s

Sample Description:

•Customer Proprietary

Project Manager: Montgomery
Range Tech(s): Zerger

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HARD ARMOR STAND-ALONE PLATE: P-BFS TEST

Date Received: February 16, 2023
Via: FedEx
Returned Via: FedEx

Record No.: PGD23001-10
Test Date: March 28, 2023
Customer: Protection Group Denmark

Test Conditions

Temperature: 21.1 °C
Humidity: 34 %
Clay Block No.: 11
Clay Block Size: 24" x 24" x 5.5"
Clay Temperature: 34.7 °C
Drop Average: 17.23 mm

Range 3

Muzzle to Screen 1: 11.98 m
Screen 1 - 4: 1.52 m
Screen 4 - Target: 1.74 m
Midpoint to Target: 2.50 m
Barrel Length: 71.12 cm

Test Standard: IAW Modified / Abbreviated NIJ 0101.06, July 2008
Threat Level: IV

Conditioning: Ambient
Drop Test: Yes
Submersion: Yes

Sample Description	Shot / Projectile Description					Chronograph		Test Results
	Shot No.	Shot Location	Degree Obliquity	Caliber	Bullet Weight (gr.) / Type	TIME sec	VELOCITY m/s	Penetration BPS (mm)
Manufacturer: Protection Group Denmark Model No.: U-line-ESAPI-NIJ4 Lot No.: N/A Serial No.: N/A Size (cm): 30x25 Weight (kg.): 2.950	1	Center	0°	.30 Cal. (.30-06)	166 / M2AP	173.7	877.4	40.01

This test was performed in accordance with the specification requirements listed in addition to any customer testing modifications or requests. The test results properly reflect the ballistic performance of the listed sample. This test report shall not be reproduced except in full without written approval of National Technical Systems.

Notes:

•Stand-Alone plate tested non-planar (with clay mound / build-up)

Ammunition Description:

.30 Cal. (.30-06) 166 gr. (10.8g) AP (U.S Military M2AP)
Velocity: 878 +/- 9.1 m/s

Sample Description:

•Customer Proprietary

Project Manager: Montgomery
Range Tech(s): Zerger

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HARD ARMOR STAND-ALONE PLATE: P-BFS TEST

Date Received: February 16, 2023
Via: FedEx
Returned Via: FedEx

Record No.: PGD23001-11
Test Date: March 28, 2023
Customer: Protection Group Denmark

Test Conditions

Temperature: 20.8 °C
Humidity: 33 %
Clay Block No.: 11
Clay Block Size: 24" x 24" x 5.5"
Clay Temperature: 34.7 °C
Drop Average: 17.23 mm

Range 3

Muzzle to Screen 1: 11.98 m
Screen 1 - 4: 1.52 m
Screen 4 - Target: 1.74 m
Midpoint to Target: 2.50 m
Barrel Length: 71.12 cm

Test Standard: IAW Modified / Abbreviated NIJ 0101.06, July 2008
Threat Level: IV

Conditioning: Ambient
Drop Test: Yes
Submersion: Yes

Sample Description	Shot / Projectile Description					Chronograph		Test Results
	Shot No.	Shot Location	Degree Obliquity	Caliber	Bullet Weight (gr.) / Type	TIME sec-s	VELOCITY m/s	Penetration BFS (mm)
Manufacturer: Protection Group Denmark Model No.: U-line-ESAPI-NIJ4 Lot No.: N/A Serial No.: N/A Size (cm): 30x25 Weight (kg.): 2.943	1	Center	0°	7.62x54R	155 / B32 API	177.7	857.6	41.11

This test was performed in accordance with the specification requirements listed in addition to any customer testing modifications or requests. The test results properly reflect the ballistic performance of the listed sample. This test report shall not be reproduced except in full without written approval of National Technical Systems.

Notes:

•Stand-Alone plate tested non-planar (with clay mound / build-up)

Ammunition Description:

7.62x54R, 150 gr. API B32
Velocity: 854 +/- 9.1 m/s

Sample Description:

•Customer Proprietary

Project Manager: Montgomery
Range Tech(s): Zerger