

		 AB 171
MILITARY INSTITUTE OF ARMAMENT TECHNOLOGY		
LABORATORY OF THE INSTITUTE – TEAM OF RESEARCH LABORATORIES ul. Prym. St. Wyszyńskiego 7, 05-220 ZIELONKA tel. 22 / 76 14 422 akredytowane przez Polskie Centrum Akredytacji,		
TESTING LABORATORY OF FIREARMS AND PROTECTIVE COVERS (LBUSO)		
TEST PROTOCOL NO. 107/2026	CONTRACT NUMBER (ORDER): U/ZCU2/07/0034/2026	
	Date of preparation: 27.07.2026	

1. **CUSTOMER:** NOXODA LLC
32-500 Chrzanów, Wyczółkowskiego 1 Street
TIN: 628 229 92 94

2. **IDENTIFICATION AND DESCRIPTION OF TESTED PRODUCT:** Ballistic helmets type 01PRO-FAST – list of products in table 1.

3. **TEST BASE:** Contract no. U/ZCU2/07/0034/2026 dated 02.07.2026 r.

4. **SAMPLING FOR TESTING:**

The samples in the form of complete batch of Ballistic helmets 01PRO-FAST were provided by the customer representative for testing and accepted based on the sample identification protocol constituting an attachment to this test protocol. The samples were registered in the Register of samples & reports (Rejestr próbek i sprawozdań LBUSO RWD nr 203/7) under the item number: 144/26, sample no.: 144/26-34/26.

Detailed list of tested products can be found in Table no. 1.

Table no. 1

Year of production		2026
Product		Ballistic helmet
Type		01PRO-FAST
Lot No.		06/26/F
LBUSO sample no.		144/26-34/26
No.	No. of specimen	Size
1	(1)	M/L
2	(2)	M/L
3	(4)	M/L
4	(5)	M/L
5	(9)	M/L
6	(10)	M/L

**5. DATE OF ACCEPTANCE
OBJECTS FOR TESTING:**

02.07.2026 r.

6. DATE OF TESTING:

02÷03.07.2026 r.

**7. IDENTIFICATION OF TEST SCOPE
AND TESTING METHOD:**

The tests were conducted on the ballistic helmets listed in Table no. 1 within the scope specified by the Client, based on accredited testing procedures:

- LBUSO.PB.12 Edycja 7 z dnia 10.01.2024 r.
„Badania kuloodporności próbek”
(Procedure LBUSO.PB.12 Ed. 7 dated 10.01.2024 r. “Examination of bullet resistance of the samples”);
- LBUSO.PB.15 Edycja 4 z dnia 04.04.2022 r.
„Pomiar prędkości za pomocą barier optycznych”
(Procedure LBUSO.PB.15 Ed. 4 dated 4 April 2022, „Velocity measurement using optical barriers”)

and standards:

- NIJ 0106.01 – „NIJ Standard for Ballistic Helmets”;
- NIJ 0108.01 – „Ballistic Resistant Protective Materials”.

8. ADDITIONAL INFORMATION:

8.1 Environmental conditions during test:

- temperature 23°C;
- relative humidity 40÷45%;
- atmospheric pressure 1007÷1010 hPa.

8.2. Test equipment:

- Test barrel no. 6150 (chambered in 9x19 mm);
- 9x19 mm ammunition with FMJ projectile, lot no. T-17-005;
- Test barrel no. 3140 (chambered in .357 Magnum);
- .357 Magnum ammunition with JSP, lot no. 353/66/1;
- Test barrel no. 2867 (chambered in .44 Magnum);
- .44 Magnum ammunition with LSWC, hand loaded;
- Projectile velocity and angle of deflection measurement system, no. 0779-8-2018/CWA;
- Climate chamber Type C600-70 0577-8-2012/CWA;
- Weather gauge Kestrel, no. 31916/CWA and 31917/CWA;
- Tape measure SOLA-5m, no. 31978/CWN;
- Measuring tape 50 m, no. 30502/CWN;
- Steel ruler POLMIAR (0÷1000) mm, no. 30736/CWA;
- Digital protractor, no. 18506/CWN.
- Caliper LBUSO 32.

9. TEST RESULTS:

9.1 Ballistic Penetration Test (type II according to NIJ 0106.01)

The test was conducted on the basis of the accredited testing procedures:

- LBUSO.PB.12 Edycja 6 z dnia 04.04.2022, „Badania kuloodporności próbek” (Procedure LBUSO.PB.12 Ed. 6 dated 4 April 2022, “Examination of bullet resistance of the samples”);
- LBUSO.PB.15 Edycja 4 z dnia 04.04.2022 r. „Pomiar prędkości pocisków za pomocą barier optycznych” (Procedure LBUSO.PB.15 Ed. 4 dated 4 April 2022, “Velocity measurement using optical barriers”)

and standard:

- NIJ 0106.01 – „NIJ Standard for Ballistic Helmets”.

Test was conducted according to methodology specified in section 5.2 of NIJ 0106.01 standard. The results of bullet resistance tests are presented in Tables no. 2÷3.

The following notations are used in the tables below:

- (PP) – partial penetration according to NIJ 0106.01.

Test protocol designation: 107/2026-U/ZCU2/07/0034/2026	Test manager signature: 	Page no.: 3/6	Copy no.: 1. of 2
--	--	------------------	----------------------

Tabel no. 2

LBUSO sample no.		144/26-34/26			
Sample condition		Dry, conditioned at +20°C ± 2°C			
No. of specimen		(9)		(1)	
Ammunition		9x19 mm with FMJ projectile		.357 with JSP projectile	
Parameter		Projectile measured velocity [m/s]	Result	Projectile measured velocity [m/s]	Result
1	Front	429	PP	433	PP
2	Back	426	PP	433	PP
3	Left	430	PP	434	PP
4	Right	423	PP	443	PP

Tabel no. 3

LBUSO sample no.		144/26-34/26			
Sample condition		After immersion in water at +25°C ± 5°C			
No. of specimen		(10)		(2)	
Ammunition		9x19 mm with FMJ projectile		.357 with JSP projectile	
Parameter		Projectile measured velocity [m/s]	Result	Projectile measured velocity [m/s]	Result
1	Front	429	PP	435	PP
2	Back	431	PP	431	PP
3	Left	434	PP	433	PP
4	Right	423	PP	431	PP

9.2 Ballistic Penetration Test (type IIIA according to NIJ 0108.01)

The test was conducted on the basis of the accredited testing procedures:

- LBUSO.PB.12 Edycja 6 z dnia 04.04.2022, „Badania kuloodporności próbek” (Procedure LBUSO.PB.12 Ed. 6 dated 4 April 2022, “Examination of bullet resistance of the samples”);
- LBUSO.PB.15 Edycja 4 z dnia 04.04.2022 r. „Pomiar prędkości pocisków za pomocą barier optycznych” (Procedure LBUSO.PB.15 Ed. 4 dated 4 April 2022, “Velocity measurement using optical barriers”)

and standards:

- NIJ 0106.01 – „NIJ Standard for Ballistic Helmets”;
- NIJ 0108.01 – „Ballistic Resistant Protective Materials”.

Test was conducted according to methodology specified in section 5.2 of NIJ 0106.01 standard. Ammunition parameters (projectile type and measured velocity) were determined based on NIJ 0108.01. The results of bullet resistance tests are presented in Tables no. 4÷5.

The following notations are used in the tables below:

- (PP) – partial penetration according to NIJ 0106.01.

Tabel no.4

LBUSO sample no.		144/26-34/26			
Sample condition		Dry, conditioned at +20°C ± 2°C			
No. of specimen		(9)		(4)	
Amunition		9x19 mm with FMJ projectile		.357 with JSP projectile	
Parameter		Projectile measured velocity [m/s]	Result	Projectile measured velocity [m/s]	Result
1	Front	429	PP	438	PP
2	Back	426	PP	429	PP
3	Left	430	PP	440	PP
4	Right	423	PP	433	PP

Tabel no. 5

LBUSO sample no.		144/26-34/26			
Sample condition		After immersion in water at +25°C ± 5°C			
No. of specimen		(10)		(5)	
Amunition		9x19 mm with FMJ projectile		.357 with JSP projectile	
Parameter		Projectile measured velocity [m/s]	Result	Projectile measured velocity [m/s]	Result
1	Front	429	PP	429	PP
2	Back	431	PP	440	PP
3	Left	434	PP	430	PP
4	Right	423	PP	432	PP

10. MEASUREMENT ACCURACY:

Measurement uncertainty is in the range of:

- projectile velocity: $\pm 0,20 \%$;
- linear length measurement: $\pm 0,20 \%$;
- angle of projectile impact: $\pm 0,1^\circ$.

Extended uncertainty arises from the standard uncertainty multiplied by an expansion factor of $k=2$, which, for a normal distribution, provides a confidence level of approximately 95%.

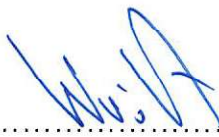
The above test results apply only to the tested samples.

Without written permission of the LBUSO Laboratory test protocol cannot be copied otherwise than in its entirety.

Attachments:

1. Protokół wyboru próbek (obiektów) do badań nr 18/2026 dated 02.07.2026 r.
2 pages. – only ad acta ZCU.5200 kat. B15.
2. Oświadczenie Zamawiającego o przeznaczeniu wyrobów na rynek cywilny dated 22.06.2026 r. 1 page. – only ad acta ZCU.5200 kat. B15.
3. Oświadczenie Zamawiającego o przekazaniu kompletnych partii wyrobów dated 29.06.2026 r. 1 page. – only ad acta ZCU.5200 kat. B15.

Test manager:


MSc Eng. Andrzej WRÓBLEWSKI

Authorized by:


MSc Łukasz WALASZEK

Head of the Testing Laboratory::


p.p. MSc Łukasz WALASZEK

Head of the Institute Laboratory:


PhD Eng. Eugeniusz MILEWSKI

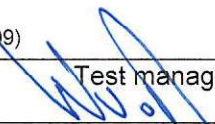
----- END OF TEST PROTOCOL -----

Printed in 2 copies:

Copy No.: 1 – Customer

Copy No.: 2 – ZCU.5200 kat. B15.

Created by: Eng. Jakub Przybysz (+48 22 76 14 809)

Test protocol designation: 107/2026-U/ZCU2/07/0034/2026	Test manager signature: 	Page no.: 6/6	Copy no.: 1 of 2
--	--	------------------	---------------------