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MILITARY INSTITUTE OF ARMAMENT TECHNOLOGY

LABORATORY OF THE INSTITUTE – TEAM OF RESEARCH LABORATORIES

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akredytowane przez Polskie Centrum Akredytacji,

TESTING LABORATORY OF FIREARMS AND PROTECTIVE COVERS (LBUSO)

TEST PROTOCOL NO. 110/2026

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.

Test protocol designation:
110/2026-U/ZCU2/07/0034/2026

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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	(8)	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 procedure:

- LBUSO.PB.23 Edycja 4 z dnia 10.01.2024 – „Badanie odporności hełmów, kasków i osłon balistycznych na uderzenia”
(Procedure LBUSO.PB.23 Ed. 4 dated 10.01.2024 r. “Examination of the impact resistance of helmets and ballistic protection covers”).

8. ADDITIONAL INFORMATION:

8.1 Environmental conditions during test:

- temperature 24°C;
- relative humidity 42%;
- atmospheric pressure 1008hPa.

8.2. Test equipment:

- Cone shaped testing weight (5kg);
- Weather gauge Kestrel, no. 31917/CWA;
- Measuring tape 50 m, no. 30502/CWN;
- Steel ruler POLMIAR (0÷1000) mm, no. 30736/CWA;
- Digital protractor, no. 18506/CWN;
- Caliper 630 STAINLESS LBUSO 32.

9. TEST RESULTS:

9.1 Ballistic Penetration Test (PN-V-87001:2011 section 4.9.3)

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

- LBUSO.PB.23 Edycja 4 z dnia 10.01.2024 – „Badanie odporności hełmów, kasków i osłon balistycznych na uderzenia”
(Procedure LBUSO.PB.23 Ed. 4 dated 10.01.2024 r. “Examination of the impact resistance of helmets and ballistic protection covers”).

The ballistic helmet, complete with its shock-absorbing liner, was mounted on a headform in a manner that prevented shifting upon impact. A contoured lead-sheet witness plate was installed at the top of the headform to assess the effects of the weight impacts. Three drops were performed from a height of 2 meters onto the area surrounding the helmet shell's apex, with each drop targeting a different location. Following the drops, the helmet and the witness plate were inspected.

The test results are presented in Table no. 2.

Table no. 2

LBUSO sample no.	144/26-34/26
No. of specimen	(8)
Equipment	Cone shaped testing weight
Drop no.	Result
1	No penetration or cracking of the helmet, no indentation on the witness plate.
2	No penetration or cracking of the helmet, no indentation on the witness plate.
3	No penetration or cracking of the helmet, no indentation on the witness plate.

10. MEASUREMENT ACCURACY:

Measurement uncertainty is in the range of:

- linear length measurement: $\pm 0,20 \%$

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.

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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:

.....*Maciej Trzepała*.....
MSc Eng. Maciej TRZEPAŁKA

Authorized by:

.....*Łukasz Walaszek* 27.07.2026.....
MSc Łukasz WALASZEK

Head of the Testing Laboratory::

.....*Łukasz Walaszek* 27.07.2026.....
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Head of the Institute Laboratory:

KIEROWNIK ZESPOŁU
LABORATORIÓW BADAWCZYCH
PEŁNOMOCNIK DYREKTORA
.....*Eugeniusz Milewski*.....
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PhD Eng. Eugeniusz MILEWSKI
dr inż. 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)

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