

Cert. №: LF20221035

Certificate of Test

Client: _____ Folkward _____

Address: _____ Sindelargasse 82, 1100 Vienna, Austria _____

Sample Name: _____ Bulletproof High Cut Level IIIA ECO Helmet _____

Physical and Chemical Inspection Center in Non-metals
Material of Ordnance Industries

May.16.2022

NOTES

1. Without business seal and paging seal the certificate is invalid.
2. Without approver signature the certificate is invalid.
3. Without the written approval of our laboratory, the certificate should not be reproduced except in full.
4. This Certificate is based on data obtained from having test only the samples submitted and should not be interpreted as an endorsement by Physical and Chemical Inspection Center in Non-metals Material of Ordnance Industries of the continuing quality, or performance, of any other items of the same, or similar design.
5. All instrumentation and measurement devices were calibrated in accordance with ISO 17025 Requirements.

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Sample Name	Bulletproof High Cut Level III A ECO Helmet	Test Type	Consignation Test
Client	Folkward	Contact Person	Folkward
Address	Sindelargasse 82,1100 Vienna, Austria	Phone	+43(0)660 666 90 35
Date Received	03/13/2022	Date Tested	03/15/2022
Sample No.	1-1#	Sample Amount	1
Test Standard	NIJ 0106.01 NIJ Standard for Ballistic Helmets		
Categories	Ballistic Resistance		
Test Conclusion	<p>The Bulletproof High Cut Level III A ECO Helmet provided by Folkward was tested according with NIJ 0106.01 and client requirements. Under normal temperature and humidity, no perforation occurs after two fair shots at the sample with .44 Magnum SJHP under the reference velocity of 436m/s \pm 9m/s, and two fair shots at the sample with 7.62mm \times 25 TOKAREV Lead Core FMJ under the reference velocity of 445m/s \pm 10m/s, the maximum Trauma Height is 29.6mm.</p> <p>Laboratory configuration, sample description and test results are showed from Page 2 to 4.</p> <p style="text-align: center;">Physical and Chemical Inspection Center in Non-metals Material of Ordnance Industries May.16.2022</p>		
Prepared By:	Reviewed By:	Approved By:	

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Laboratory Configuration	
Test Unit	Physical and Chemical Inspection Center in Non-metals Material of Ordnance Industries
Ambient Test Conditions	Temperature: 19°C; Relative Humidity: 62%
Setup	Weapons: Ballistic Barrel Bullets: .44 Magnum SJHP, 7.62mm × 25 TOKAREV Lead Core FMJ Electrical chronometer (No.:6015) Caliper Gauge(No.: 11242252) Electronic Balance(No.:F40604303)
Test Range	5m
Angle of Incidence	0°
Sample Description	
Sample No.	1-1#
Configuration	The helmet shell is made of Aramid
Remarks	※ Client requirements: the sample should be tested referring to NIJ 0106.01 for 2 shots of 7.62mm × 25 TOKAREV Lead Core FMJ and 2 shots of .44 Magnum SJHP.

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Results of Ballistic Resistance Test

Sample No.	Thickness (mm)	Weight (g)	Conditioning	Shot No.	Impact Point	Velocity (m/s)	Results	Trauma Height (mm)	Remarks
1-1#	9.4	1144	Normal Temperature and Humidity	1	Front	437.5	Stop	10.1	Bullets: 7.62mm × 25 TOKAREV Lead Core FMJ
				2	Back	447.2	Stop	11.3	
				3	Left	434.0	Stop	29.6	Bullets: .44 Magnum SJHP
				4	Right	442.5	Stop	26.1	

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Attached Pictures



(a) front



(b) back



(c) left



(d) right



(e) inside

Fig. 1 Bulletproof High Cut Level IIIA ECO Helmet 1-1# (after testing)