Schedule of Accreditation

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United Kingdom Accreditation Service

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Accredited to ISO/IEC 17025:2017

NP Aerospace Limited

Issue No: 021 **Issue date:** 07 November 2023

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Testing performed at the above address only

DETAIL OF ACCREDITATION

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
Calibre of Bullets Calibre of Fragments	5.56 mm to 14.5 mm 5.56 mm to 20 mm	The range of capabilities detailed in this section are parameter based to allow reporting of work carried out to specific customer requirements as agreed at the customer contract review and included in the listed product types.
Velocity of Bullets Velocity of Fragments	250 ms^{-1} to 1650 ms^{-1} ± 0.15 % 250 ms^{-1} to 1400 ms^{-1} ± 0.20 %	
Penetration depth	3 mm to 60 mm ± 1.0 mm	
Pitch and Yaw angle – deviation from projectile orientation	0° to 360° ± 1.0°	
Conditioning temperature and humidity	-44.5 °C to +72 °C ± 2.0 °C 40 %rh to 70 %rh ± 7 %rh	
Temperature in air	+10 °C to +30 °C ± 2.0 °C	
Mass	0 g to 50 g ± 0.63 mg 50 g to 2 kg ± 0.35 g 2 kg to 30 kg ± 0.82 g	
Thickness	0.1 mm to 25.4 mm ± 30 µm	
Structural Rigidity		
(Force – Compression)	100 N to 2500 N 0.50 %	
(Displacement)	0.5 mm to 10 mm ± 50 µm 10 mm to 50 mm ± 0.50 %	
Blunt impact (Drop Rig)		
Impact Force	1 g to 450 g ± 3.0 %	
Velocity of impact	5 ms^{-1} to 10 ms^{-1} ± 0.050 m/s	

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Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
Hard Armour Plate	Ballistic Penetration and Ballistic Signature Test Type III Type IV	NIJ 0101.04 Sept 2000 Ballistic Resistance of Personal Body Armor
	Ballistic Baseline Limit Type III Type IV	NIJ 0101.04 Sep 2000 Ballistic Resistance of Personal Body Armor
	Ballistic Penetration and Ballistic Signature Test (P-BFS) Type III Type IV	NIJ 0101.06 Jul 2008 Ballistic Resistance of Personal Body Armor
	Ballistic Limit Determination Type III Type IV	NIJ 0101.06 Jul 2008 Ballistic Resistance of Personal Body Armor
	Ballistic Signature Test Cat. A1,A2,A3,A5 & A Special Cat. B2,B3,B4,B5 & B Special Cat. C4,C5,C6,C7 & C Special Cat. D1,D3,D5 & D Special	AEP 2920 Ed A Ver 2 Sept 2016 Procedures for the Evaluation And Classification of Personal Armour
	Ballistic Baseline Limit Cat. A1,A2,A3,A5 & A Special Cat. B2,B3,B4,B5 & B Special Cat. C4,C5,C6,C7 & C Special Cat. D1,D3,D5 & D Special	AEP 2920 Ed A Ver 2 Sept 2016 Procedures for The Evaluation And Classification of Personal Armour
	Ballistic Signature Test	UK/SC/6515 Iss 01 Jan 2008 Osprey Hard Armour Testing Protocol

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
Ballistic Combat Helmets	Ballistic Penetration Type I Type II-A Type II Special Type	NIJ0106.01 Dec 1981 For Ballistic Helmets STANAG 2920 Ed 2 July 2003
	Ballistic Signature Test Class F5 1.1g FSP	AEP 2920 Ed A Ver 2 Sept 2016 Procedures for The Evaluation and Classification of Personal Armour
	Ballistic Baseline Limit Class G5 1.1g FSP (Sabot)	AEP 2920 Ed A Ver 2 Sept 2016 Procedures for The Evaluation and Classification of Personal Armour
	Ballistic Limit Testing	UK/SC/6599 Iss 04 Jul 2011 Technical Specification For Helmet Combat Assault Mk7 UK/SC/5449 Iss 01 Mar 1996 Ballistic Test Method for Personal Armour and Lightweight Materials ITEAP/6851 Issue 3.6 12 March 2019 W8486-148836/A Nov 2014 Combat Helmets
	Ballistic Signature Test	W8486-148836/A Nov 2014 Combat Helmets
	Blunt Impact	W8486-148836/A Nov 2014 Combat Helmets AEP 2902 2019 Edition A Version 1 Chapter 4 Blunt Impact Methods A,B,C and D BS6658:1985 Appendix E and F ITEAP/6851 Issue 3.6 12 March 2019

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
Soft Body Armour Fillers and Ancillaries	Ballistic Baseline Limit Class F5 1.1g FSP Ballistic Baseline Limit Class G5 1.1g FSP (Sabot) Ballistic Limit Testing	AEP 2920 Ed A Ver 2 Sept 2016 Procedures for The Evaluation and Classification of Personal Armour AEP 2920 Ed A Ver 2 Sept 2016 Procedures for The Evaluation and Classification of Personal Armour DC/PS/6541 Iss 01 May 2008 Performance Specification for Filler, Body Armour, Osprey Ancillary DC/PS/6255 Iss 01 May 2008 Performance Specification for Filler Body Armour
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