


Schedule of Accreditation

issued by

United Kingdom Accreditation Service

2 Pine Trees, Chertsey Lane, Staines-upon-Thames, TW18 3HR, UK

 9271 Accredited to ISO/IEC 17025:2017	Encocam Ltd (Trading as Cellbond, Anthropomorphic Test Devices, Testing Facility)	
	Issue No: 014 Issue date: 18 October 2024	
	IMET Emery Crescent Alconbury Weald Huntingdon PE28 4YE	Contact: Mr J McCusker Tel: +44 (0) 1480 278334 Fax: +44 (0) 1480 450181 E-Mail: john.mccusker@cellbond.com Website: http://www.cellbond.com
Testing performed at main address only		

Flexible Scope

The Flexible Scope applies to the laboratory's accreditation to ISO / IEC 17025:2017 for testing activities in accordance with the standards listed in the schedule. This may also include tests on the same or similar product types against standards, or customer-specified methods, that are not specifically listed in this Schedule, providing that:

1. The method or standard does not introduce new principles of measurement.
2. The method or standard does not require measurements to be made outside the parametric boundaries defined in this Schedule.

Information about flexible scopes of accreditation is available in UKAS document GEN 4.



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DETAIL OF ACCREDITATION

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
ANTHROPOMORPHIC TEST DEVICES Free Motion Headform Pedestrian Headform -3.5kg Child, 4.5kg Adult, 4.8kg Ejection Mitigation Headform (226) Pedestrian leg form Sub Assembly a-PLI – Femur, Tibia, Knee	<u>Physical Tests</u> Centre of gravity test Weight 0-20kg Distance ± 200 mm Dynamic impact test - head drop: Acceleration 0-500g Resultant Acceleration 0-275g Centre of gravity test Weight 0-20kg Distance ± 200 mm Dynamic impact test - head drop Acceleration 0-500g Resultant Acceleration 0-300g Centre of gravity test Weight 0-20kg Distance ± 200 mm Static flexure test - 3 point bending test Displacement 0-30mm Force 0-100kN Bending Moment 0-400Nm	Documented in House Method WI-TF-007 Incorporating standard 49 CFR 572.100-103 Documented in House Method WI-TF-058 Incorporating standard 49 CFR 572.100-103 Documented in House Method WI-TF-007 Incorporating standards: EC631:2009, Part V, Sections 3.3 and 4.3 ISO14513:2016, Clause 5.1.1 ISO16850:2007+A1:2013, Clause 5.1.1 Documented in House Method WI-TF-058 EC631:2009, Appendix I, Sections 4.2 and 4.4 ISO14513:2016, Annex A ISO16850:2007+A1:2013, Annex B Documented in-house method WI-TF-007 Documented in House Method WI-TF-057 Incorporating standard: ISO TS 20458 Section 6.2



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<p>ANTHROPOMORPHIC TEST DEVICES (cont'd)</p> <p>Pedestrian leg form Sub Assembly Flex-PLI Femur, Tibia, Knee</p> <p>Pedestrian leg form Full Assembly a-PLI</p> <p>Pedestrian leg form Full Assembly Flex-PLI</p> <p>Bone Qualification</p> <p>Q-Series Lumbar Spine -Q1, Q1.5, Q3, Q6, Q10</p>	<p><u>Physical Tests (cont'd)</u></p> <p>Static flexure test - 3 point bending test Displacement 0-30mm Force 0-100kN Bending Moment 0-400Nm</p> <p>Dynamic impact test - inverse Displacement 0-30mm Bending Moment 0-385Nm</p> <p>Dynamic impact test - inverse Displacement 0-30mm Bending Moment 0-385Nm</p> <p>Dynamic impact test - pendulum Displacement 0-30mm Bending Moment 0-385Nm</p> <p>Femur and Tibia</p> <p>Dynamic impact test - pendulum arm Angle $\pm 80^\circ$ Speed 0-5m.s⁻¹ Acceleration 0-500g Moment ± 40Nm Deceleration Pulse 0-5m.s⁻¹</p>	<p>Documented in House Method WI-TF-057 Incorporating standard: -R127r2e, Annex 6, Section 1.2</p> <p>Documented in House Method WI-TF-013 Incorporating standard: ISO TS 20458 Section 6.33</p> <p>Documented in House Method WI-TF-013 Incorporating standard: -R127r2e, Annex 6, Section 1.4</p> <p>Documented in House Method WI-TF-014 Incorporating standard: -R127r2e, Annex 6, Section 1.3</p> <p>Documented in House Method WI-TF-057 Incorporating standard: ISO TS 20458: 2023 Section 6.2</p> <p>Documented in House Method WI-TF-012 Incorporating standards Q1-UM, Section 8.3 Q1.5-UM, Section 8.3 Q3-UM, Section 8.3 Q6-UM, Section 8.3 Q10-UM, Sections 14.8-14.10 49 CFR 572.33 Fig 22</p>



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<p>ANTHROPOMORPHIC TEST DEVICES (cont'd)</p> <p>Q-Series Neck -Q0, Q1, Q1.5, Q3, Q6, Q10</p>	<p><u>Physical Tests</u> (cont'd)</p> <p>Dynamic impact test - pendulum arm Angle $\pm 80^\circ$ Speed 0-5m.s⁻¹ Acceleration 0-500g Moment $\pm 40\text{Nm}$ Deceleration Pulse 0-5m.s⁻¹</p>	<p>Documented in House Method WI-TF-012 Incorporating standards Q0-UM, Section 5.4 Q1-UM, Section 8.2 Q1.5-UM, Section 8.2 Q3-UM, Section 8.2 Q6-UM, Section 8.2 Q10-UM, Sections 14.4-14.7 49 CFR 572.33 Fig 22</p>
<p>Q-Series Thorax -Q1, Q1.5, Q3, Q6, Q10</p>	<p>Dynamic impact test - pendulum Speed 0-5m.s⁻¹ Acceleration 0-500g Deflection 0-40mm Force 0-2.5kN</p>	<p>Documented in House Method WI-TF-009 Incorporating standards Q1-UM, Section 8.5 Q1.5-UM, Section 8.5 Q3-UM, Section 8.5 Q6-UM, Section 8.5 Q10-UM, Sections 14.11-14.13</p>
<p>Q-Series Headform -Q0, Q1, Q1.5, Q3, Q6, Q10</p>	<p>Dynamic impact test - head drop Acceleration 0-500g Resultant Acceleration 0-160g</p>	<p>Documented in House Method WI-TF-058 Incorporating standards Q0-UM, Section 5.3 Q1-UM, Section 8.1 Q1.5-UM, Section 8.1 Q3-UM, Section 8.1 Q6-UM, Section 8.1 Q10-UM, Sections 14.1-14.3 49 CFR 572.102 Fig 50</p>
<p>Q-Series Abdomen -Q1, Q1.5, Q3, Q6, Q10</p>	<p>Static compression test Displacement 0-20mm</p>	<p>Documented in House Method WI-TF-008 Incorporating standards Q1-UM, Section 8.4 Q1.5-UM, Section 8.4 Q3-UM, Section 8.4 Q6-UM, Section 8.4 Q10-UM, Section 14.16</p>



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ANTHROPOMORPHIC TEST DEVICES (cont'd) Q-Series Shoulder -Q10 Q-Series Pelvis -Q10	<u>Physical Tests</u> (cont'd) Dynamic impact test - pendulum: -Speed 0-5m.s ⁻¹ -Acceleration 0-500g -Force 0-3kN Dynamic impact test - pendulum: -Speed 0-5m.s ⁻¹ -Acceleration 0-500g -Force 0-5kN	Documented in-house method: -WI-TF-009 Incorporating standard: -Q10-UM, Sections 14.14 and 14.17 Documented in-house method: -WI-TF-009 Incorporating standard: -Q10-UM, Section 14.15
END		