


# Schedule of Accreditation

issued by

## United Kingdom Accreditation Service

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

 <p>9271</p> <p>Accredited to ISO/IEC 17025:2017</p>	<b>Encocam Ltd</b> <b>(Trading as Cellbond, Anthropomorphic Test Devices, Testing Facility)</b>	
	<b>Issue No: 006    Issue date: 03 March 2021</b>	
	<b>5 Stukeley Business Centre</b> <b>Blackstone Road</b> <b>Huntingdon</b> <b>PE29 6EF</b> <b>United Kingdom</b>	<b>Contact: Mr N Saxby</b> <b>Tel: +44 (0) 1480 435302</b> <b>Fax: +44 (0) 1480 450181</b> <b>E-Mail: neil.saxby@encocam.com</b> <b>Website: http://www.encocam.com</b>
<b>Testing performed at the above address only</b>		

### DETAIL OF ACCREDITATION

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
<b>ANTHROPOMORPHIC TEST DEVICES</b>  Knee Ligament	<u>Physical Tests</u>  <u>Destructive bending test</u> Force 0 to 500N Angle $\pm 25^\circ$ Energy 93 to 107J	Documented in House Method WI-TF-005 Incorporating standard EC 631/2009, Appendix I, Sections 2.1.1, 2.1.2 and 2.1.4
Free Motion Headform	<u>Centre of gravity test</u> Weight 0-20kg Distance $\pm 200$ mm	Documented in House Method WI-TF-007 Incorporating standard 49 CFR 572.100-103
Pedestrian Headform -3.5kg Child, 4.5kg Adult, 4.8kg	<u>Dynamic impact test - head drop:</u> Acceleration 0-500g Resultant Acceleration 0-275g	Documented in House Method WI-TF-006 Incorporating standard 49 CFR 572.100-103
	<u>Centre of gravity test</u> Weight 0-20kg Distance $\pm 200$ mm	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



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Ejection Mitigation Headform (226)	<p><u>Dynamic impact test - head drop</u> Acceleration 0-500g Resultant Acceleration 0-300g</p> <p><u>Centre of gravity test</u> Weight 0-20kg Distance <math>\pm 200</math>mm</p>	<p>Documented in House Method WI-TF-018 EC631:2009, Appendix I, Sections 4.2 and 4.4 ISO14513:2016, Annex A ISO16850:2007+A1:2013, Annex B</p> <p>Documented in-house method WI-TF-007</p>
Q-Series Neck -Q0, Q1, Q1.5, Q3, Q6, Q10	<p><u>Dynamic impact test - pendulum arm</u> Angle <math>\pm 80^\circ</math> Speed 0-5m.s<sup>-1</sup> Acceleration 0-500g Moment <math>\pm 40</math>Nm Deceleration Pulse 0-5m.s<sup>-1</sup></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>
Q-Series Lumbar Spine -Q1, Q1.5, Q3, Q6, Q10	<p><u>Dynamic impact test - pendulum arm</u> Angle <math>\pm 80^\circ</math> Speed 0-5m.s<sup>-1</sup> Acceleration 0-500g Moment <math>\pm 40</math>Nm Deceleration Pulse 0-5m.s<sup>-1</sup></p>	<p>Documented in House Method WI-TF-017 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>
Q-Series Thorax -Q1, Q1.5, Q3, Q6, Q10	<p><u>Dynamic impact test - pendulum-</u> Speed 0-5m.s<sup>-1</sup> 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>



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<p>ANTHROPOMORPHIC TEST DEVICES (cont'd)</p> <p>Q-Series Abdomen -Q1, Q1.5, Q3, Q6, Q10</p> <p>Q-Series Headform -Q0, Q1, Q1.5, Q3, Q6, Q10</p> <p>Flex-PLI Sub-Assembly -Femur, Tibia, Knee</p> <p>Flex-PLI Full Assembly</p>	<p><u>Physical Tests</u> (cont'd)</p> <p><u>Static compression test</u> Displacement 0-20mm</p> <p><u>Dynamic impact test - head drop</u> Acceleration 0-500g Resultant Acceleration 0-160g</p> <p><u>Static flexure test - 3 point bending test</u> Displacement 0-30mm Force 0-4kN Bending Moment 0-400Nm</p> <p><u>Dynamic impact test - inverse</u> Displacement 0-30mm Bending Moment 0-385Nm</p> <p><u>Dynamic impact test - pendulum</u> Displacement 0-30mm Bending Moment 0-385Nm</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> <p>Documented in House Method WI-TF-011 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>Documented in House Method WI-TF-015 WI-TF-016</p> <p>Documented in House Method WI-TF-013</p> <p>Documented in House Method WI-TF-014</p>
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