

Schedule of Accreditation

issued by

United Kingdom Accreditation Service

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

 <p>0483</p> <p>Accredited to ISO/IEC 17025:2005</p>	<h3>Acoustical Investigation & Research Organisation Ltd (AIRO)</h3>	
	<p>Issue No: 030 Issue date: 20 February 2018</p>	<p>Contact: Eur Ing D L Watts Tel: +44 (0)1442 247146 E-Mail: airo@airo.co.uk Website: www.airo.co.uk/</p>
<p>Duxons Turn Maylands Avenue Hemel Hempstead Hertfordshire HP2 4SB</p>		
<p>Testing performed by the Organisation at the locations specified below</p>		

Locations covered by the organisation and their relevant activities

Laboratory locations:

Location details		Activity	Location code
<p>Address Duxons Turn Maylands Avenue Hemel Hempstead Hertfordshire HP2 4SB</p>	<p>Local contact Eur Ing D L Watts</p>	<p>Laboratory measurements of airborne & impact sound insulation of building elements</p> <p>Measurement of sound absorption in a reverberation room</p> <p>Determination of noise emission from small movable machines e.g. in support of EC Noise Directive</p>	<p>Lab</p>

Site activities performed away from the locations listed above:

Location details		Activity	Location code
<p>Any suitable customer premises</p>		<p>Sound insulation tests including pre-completion testing for dwellings and rooms for residential purpose for The Building Regulations 2010. Approved Document E (2003 Edition incorporating 2004, 2010, 2013 and 2015 amendments). & Building Bulletin 93</p> <p>Determination of noise emission from machines and small movable machines e.g. in support of EC Noise Directive</p> <p>Stage 1 sound insulation testing for the purpose of Robust Details Limited surveillance evaluations</p>	<p>Site</p>



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DETAIL OF ACCREDITATION

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
<p><u>Building Elements</u> Separating elements including partitions, doors, windows, walls, floors, façade constructions, other panels, ventilators, grilles, cable raceways, etc</p>	<p>Laboratory measurement of airborne sound insulation of building elements</p> <p>(The properties measured are the Sound Reduction Index, Element Normalised Level Difference and related factors)</p>	<p>BS EN ISO 140-3:1995 BS EN ISO 717-1:2013 BS EN 20140-10:1992 ISO 140-10:1991</p> <p>The Noise Insulation Regulations 1975 (Schedule 1 Part III)</p>	Lab
<p>BUILDING ELEMENTS Walls BS EN ISO 10140-1: 2010 (Annex A) Doors BS EN ISO 10140-1: 2010 (Annex B) Windows BS EN ISO 10140-1: 2010 (Annex C) Glazing BS EN ISO 10140-1: 2010 (Annex D) Small technical elements such as ventilators, grills and cable raceways BS EN ISO 10140-1: 2010 (Annex E) Floors BS EN ISO 10140-1:2010 (Annex F) Shutters BS EN ISO 10140-1: 2010 (Annex I) Building elements and facades not specifically described in the Annexes of BS EN ISO 10140-1: 2010</p>	<p>Laboratory measurement of airborne sound insulation of building elements</p>	<p>BS EN ISO 10140-2:2010 BS EN ISO 717-1:2013</p>	
<p>ACOUSTICAL LININGS Linings on walls and floors BS EN ISO 10140-1:2010 (Annex G)</p>	<p>Laboratory measurement of improvement of airborne sound insulation</p>	<p>BS EN ISO 10140-2:2010 BS EN ISO 717-1:2013</p>	



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Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
<u>Building Finishes</u> Including ceiling panels, wall panels, carpets, curtains, proprietary or purpose made sound absorbent materials, and other room contents including seating, screens and space absorbers	Measurement of sound absorption in a reverberation room (The properties measured are Sound Absorption Coefficients for plane absorbers or the Equivalent Sound Absorption Areas for discrete objects)	BS EN ISO 354:2003 BS EN ISO 11654:1997	Lab
<u>Floors and Floor Systems</u>	Laboratory measurement of impact sound insulation of floors (The properties measured are the Normalized Impact Sound Pressure Levels and related factors)	BS EN ISO 140-6:1998 BS EN ISO 717-2:2013	Lab
BUILDING ELEMENTS Floors BS EN ISO 10140-1:2010 (Annex F)	Laboratory measurement of impact sound insulation of building elements	BS EN ISO 10140-2:2010 BS EN ISO 10140-3:2010 BS EN ISO 717-1:2013 BS EN ISO 717-2:2013	Lab
<u>Floor Finishes</u>	Laboratory measurement of the reduction of transmitted impact noise by floor coverings (The properties measured are the Reduction of Impact Sound Pressure Levels caused by the floor covering and related factors)	BS EN ISO 140-8:1998 BS EN ISO 717-2:2013	Lab
FLOOR COVERINGS Floor Coverings BS EN ISO 10140-1:2010 (Annex H)	Laboratory measurement of improvement of impact sound insulation	BS EN ISO 10140-3:2010 BS EN ISO 717-2:2013	Lab



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Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
<u>Machines</u>	Determination of noise emission from small movable equipment/machines, based on sound pressure level measurements in a reverberant field or in a free field over a reflecting plane (The property measured is the Sound Power Level)	BS EN ISO 3743-1:1995 BS EN ISO 3743-1:2010 BS EN ISO 3744:1995 BS EN ISO 3744:2010	Lab
<u>Road Traffic Noise Barriers</u>	Laboratory measurement of the acoustical performance of barriers, both sound absorption and sound insulation (The properties measured are the Sound Absorption Coefficients and the Sound Reduction Index, with single figure ratings derived from a specified traffic noise spectrum)	BS EN 1793-1:1998 BS EN 1793-2:1998 BS EN 1793-1:2012 BS EN 1793-2:2012 BS EN 1793-3:1998	Lab
<u>Building Elements</u> such as partitions, walls, floors, facades	Field measurement of airborne sound insulation. (The properties measured are Level Differences and related factors)	Sound insulation tests including pre-completion testing for dwellings and rooms for residential purpose for The Building Regulations 2010. Approved Document E (2003 Edition incorporating 2004, 2010, 2013 and 2015 amendments). Stage 1 sound insulation testing for the purpose of Robust Details Limited surveillance evaluations (as described in Inspectorate Manual RD049 dated 15/06/2017) BS EN ISO 140-4:1998 BS EN ISO 140-5:1998 BS EN ISO 717-1:1997 Building Bulletin 93 Feb 2015	Site



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<u>Floors</u>	Field measurement of impact sound insulation of floors between rooms. (The properties measured are Impact Sound Pressure Levels and related factors)	Sound insulation tests including pre-completion testing for dwellings and rooms for residential purpose for The Building Regulations 2010. Approved Document E (2003 Edition incorporating 2004, 2010, 2013 and 2015 amendments). Stage 1 sound insulation testing for the purpose of Robust Details Limited surveillance evaluations (as described in Inspectorate Manual RD049 dated 15/06/2017) BS EN ISO 140-7:1998 BS EN ISO 717-2:1997 Building Bulletin 93 Feb 2015	Site
<u>Rooms</u>	Field measurements of reverberation time	Building Bulletin 93 Feb 2015	Site
	Indoor ambient noise levels from both external sources & mechanical services	Building Bulletin 93 Feb 2015 (excluding the measurement of noise from ventilator actuators and dampers)	Site
<u>Machinery</u> such as compressors, power generators, welding generators etc	Determination of noise emission from machinery based on sound pressure level measurements in a reverberant field or in a free field over a reflecting plane. (The property measured is the Sound Power Level)	BS EN ISO 3743-1:1995 BS EN ISO 3743-1:2010 BS EN ISO 3744:1995 BS EN ISO 3744:2010	Site
<u>Lawnmowers</u>	Determination of noise emission from lawnmowers based on sound pressure level measurements in a free field over natural grass. (The property measured is the Sound Power Level)	ISO 11094:1991	Site

END