

Schedule of Accreditation

issued by

United Kingdom Accreditation Service

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

 0483 Accredited to ISO/IEC 17025:2017	Acoustical Investigation & Research Organisation Ltd (AIRO)	
	Issue No: 035 Issue date: 16 May 2022	
	Duxons Turn Maylands Avenue Hemel Hempstead Hertfordshire HP2 4SB	Contact: Eur Ing D L Watts Tel: +44 (0)1442 247146 E-Mail: airo@airo.co.uk Website: www.airo.co.uk/
Testing performed by the Organisation at the locations specified below		

Locations covered by the organisation and their relevant activities

Laboratory locations:

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

Site activities performed away from the locations listed above:

Location details		Activity	Location code
Any suitable customer premises		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 Determination of noise emission from machines and small movable machines e.g. in support of EC Noise Directive Stage 1 sound insulation testing for the purpose of Robust Details Limited surveillance evaluations	Site



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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
<u>Building Elements</u> Separating elements including partitions, doors, windows, walls, floors, façade constructions, other panels, ventilators, grilles, cable raceways, etc	Laboratory measurement of airborne sound insulation of building elements (The properties measured are the Sound Reduction Index, Element Normalised Level Difference and related factors)		Lab
Walls BS EN ISO 10140-1: 2021 (Annex A) Doors BS EN ISO 10140-1: 2021 (Annex B) Windows BS EN ISO 10140-1: 2021 (Annex C) Glazing BS EN ISO 10140-1: 2021(Annex D) Small technical elements such as ventilators, grills and cable raceways BS EN ISO 10140-1: 2021 (Annex E) Floors BS EN ISO 10140-1:2021 (Annex F) Shutters BS EN ISO 10140-1: 2021 (Annex I) Building elements and facades not specifically described in the Annexes of BS EN ISO 10140-1: 2021		BS EN ISO 10140-2:2021 BS EN ISO 717-1:2020	Lab
<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>Acoustical Linings</u> Linings on walls and floors BS EN ISO 10140-1:2021 (Annex G)	Laboratory measurement of improvement of airborne sound insulation	BS EN ISO 10140-2:2021 BS EN ISO 717-1:2020	Lab



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<u>Floors and Floor Systems</u> <u>Building Elements</u> Floors BS EN ISO 10140-1:2021 (Annex F)	Laboratory measurement of impact sound insulation of floors (The properties measured are the Normalized Impact Sound Pressure Levels and related factors)	BS EN ISO 10140-2:2021 BS EN ISO 10140-3:2021 BS EN ISO 717-1:2020 BS EN ISO 717-2:2020	Lab
<u>Floor Coverings</u> BS EN ISO 10140-1:2021 (Annex H)	Laboratory measurement of improvement of impact sound insulation	BS EN ISO 10140-3:2021 BS EN ISO 717-2:2020	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 (Withdrawn) BS EN 1793-2:1998 (Withdrawn) BS EN 1793-1:2017 BS EN 1793-2:2018 BS EN 1793-3:1998	Lab
<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 3743-1:2010 BS EN ISO 3744:1995 (Withdrawn) BS EN ISO 3744:2010	Lab
<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 3743-1:2010 BS EN ISO 3744:1995 (Withdrawn) BS EN ISO 3744:2010	Site



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<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 (Withdrawn)	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>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 Version 8 dated 10/03/2020) BS EN ISO 140-4:1998 (Withdrawn) BS EN ISO 16283-1:2014+A1:2017 BS EN ISO 16283-3:2016 BS EN ISO 717-1:1997 (Withdrawn) BS EN ISO 717-1:2020 Building Bulletin 93 Feb 2015	Site



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<p><u>Floors</u></p>	<p>Field measurement of impact sound insulation of floors between rooms.</p> <p>(The properties measured are Impact Sound Pressure Levels and related factors)</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).</p> <p>Stage 1 sound insulation testing for the purpose of Robust Details Limited surveillance evaluations (as described in Inspectorate Manual RD049 Version 8 dated 10/03/2020)</p> <p>BS EN ISO 140-7:1998 (Withdrawn)</p> <p>BS EN ISO 16283-2:2020</p> <p>BS EN ISO 717-2:1997 (Withdrawn)</p> <p>BS EN ISO 717-2:2020</p> <p>Building Bulletin 93 Feb 2015</p>	<p>Site</p>
<p>END</p>			