

Schedule of Accreditation

issued by

United Kingdom Accreditation Service

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

 <p>0357</p> <p>Accredited to ISO/IEC 17025:2017</p>	<p>British Board of Agreement</p> <p>Issue No: 047 Issue date: 02 April 2020</p>	
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<p>Testing performed at the above address only</p>		

DETAIL OF ACCREDITATION

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
HOMOGENEOUS and INHOMOGENEOUS MATERIALS	<p>All measurements:</p> <p>Specimen thickness - 10-300 mm</p> <p>Mean temperature range - 273K to 298K</p> <p>Thermal conductivity measurement: - 0.01 to 0.10 W/(mK)</p> <p>Thermal resistance measurement: - 17 to 0.3 m²K/W</p> <p>Best measurement uncertainty - +/- 1.5%</p>	<p>ISO 8301 BS EN 12664:2001 BS EN 12667:2001 BS EN 12939:2001 and ASTM C518-15 using a 762 mm square heat flow meter facility</p>
SOLAR PANEL SYSTEMS	<p>Resistance to wind uplift</p> <p>Weathertightness</p>	<p>MCS 012:2018 BS EN 14437:2004</p> <p>MCS 012:2018 (Test D only)</p>
PLASTICS	<p><u>Mechanical Tests</u></p>	
Films and sheets up to 1.0 mm Thickness	Tensile properties (loads from 1 to 100 kN)	BS EN ISO 527-3:1996 BS 2782:Part 3 Method 326E:1995
Films and sheets from 1.0 to 3.0 mm thickness	Tensile properties (loads from 1 to 100 kN)	Documented In-House Method based on BS EN ISO 527-3:1996
Rigid plastics	Flexural properties	BS EN ISO 178:2010+A1:2013
Rigid cellular materials	Compressive strength (loads up to 100 kN)	BS EN ISO 844:2014
Vulcanised or thermoplastic rubber	Tear strength (loads up to 100 kN)	BS ISO 34-1:2015
Adhesives	Bond strength (T Peel) (loads up to 100 kN)	BS EN ISO 11339:2010



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<p>PLASTICS (cont'd)</p> <p>Geotextiles and geotextile-related products</p> <p>Vulcanised or thermoplastic rubber</p> <p>Solid vulcanised or thermoplastic rubber</p> <p>Bitumen, plastic and rubber flexible sheets for waterproofing</p> <p>Flexible sheets for waterproofing – Bitumen, plastic and rubber sheets for roof waterproofing</p> <p>WATERPROOFING MEMBRANES AND SYSTEMS FOR CONCRETE BRIDGE DECKS</p>	<p><u>Mechanical Tests</u> (cont'd)</p> <p>Static puncture (loads up to 25 kN)</p> <p>Hardness</p> <p>Dimensions</p> <p>Water Tightness Water Pressure</p> <p>Water Penetration > 60 kPa</p> <p>Determination of water vapour transmission properties.</p> <p><u>Mechanical Tests</u></p> <p>Tensile adhesion (loads up to 50 kN)</p> <p>Impact</p>	<p>BS EN ISO 12236:2006</p> <p>BS ISO 48:2010</p> <p>BS ISO 23529:2016</p> <p>BS EN 1928:2000; Method A</p> <p>HAPAS Guidelines Document:August 2012</p> <p>BS EN 1931:2000 Excluding cl.6, <i>sampling</i>.</p> <p>HAPAS Guidelines Document:August 2012</p> <p>HAPAS Guidelines Document:August 2012</p>



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WATERPROOFING SYSTEMS FOR UNDERLINE BRIDGE DECKS	<u>Physical Tests</u> Exposure to ultra violet light Conditioning	BS EN ISO 16474-1:2013 BS EN ISO 16474-3:2013
THERMAL INSULATING PRODUCTS FOR BUILDING APPLICATIONS	<u>Physical Tests</u> Determination of thickness Determination of flatness Determination of compression behaviour Determination of compressive creep Determination of tensile strength perpendicular to faces Determination of short term water absorption by partial immersion Determination of long term water absorption by immersion Determination of long term water absorption by diffusion	BS EN 823:2013 BS EN 825:2013 BS EN 826:2013 BS EN 1606:2013 BS EN 1607:2013 BS EN 1609:2013:Method A BS EN 12087:2013:Methods 1A and 2A BS EN 12088:2013 BS EN ISO 16536:2019 ISO 29768:2008(2018)
THERMOPLASTIC PIPES up to 1000 mm diameter	<u>Mechanical and Physical Tests</u> Short-term stiffness Flexibility of a pipe ring	BS EN ISO 9969:2016 BS EN ISO 13968:2008
EXTERNAL RIB-REINFORCED PVC-U-PIPES Pipes up to 250 mm nominal internal diameter	<u>Mechanical and Physical Tests</u> Short-term stiffness Flexibility of a pipe ring	WIS No. 4-31-05 Issue 2 Appendix B WIS No. 4-31-05 Issue 2 Appendix E



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CAVITY WALLS filled with thermal insulation materials	<u>Physical Tests</u> Water resistance	Water Resistance Detailed Operating Procedure
EXTERNAL THERMAL INSULATION COMPOSITE SYSTEMS with RENDERING	Hygrothermal behaviour	ETAG 004:2013
WINDOWS and DOORS	Elements up to 2.5 m high and 3.0 m wide (Maximum pressure \pm 3000 Pa) Air permeability Water tightness Wind resistance Load bearing capacity of safety devices	BS 6375-1:2015 + A1:2016 and the specified tests. BS EN 12210:2016 and the specified tests BS EN 1026:2016 BS EN 1027:2016 and 2000 BS EN 12211:2016 BS 6375-2:2009 BS EN 14609:2004 as amended by DIHM 23-04-047 BS EN 14351-1:2006+A2:2016
DOOR ASSEMBLIES - external, single leaf	<u>Physical Tests</u> Thermal Cyclic Test	BS 8529:2017 (Annex B)



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<p>EXTERNAL DOORSETS - single and double leaf - single and double swing - hinged - sliding (single and multi-track) – max width 2 metres - pivot - stable - with or without integral side panels and fanlights.</p> <p>LETTER PLATES</p> <p>WINDOWS, SINGULAR & MULTILIGHT - top hung, side hung, bottom hung, butt hinged; - top and side hung projected; - top hung and side hung fully reversible; - tilt and turn and turn and tilt; - vertical and horizontal sliding; - fixed and fixed casements (dummy vents); - parallel opening; - double opening (French windows)- max width 2 metres; - vertical and horizontal pivot.</p> <p>GENERAL</p>	<p><u>Physical Tests</u></p> <p>Security hardware and cylinder test (Parts 1 & 2) Manipulation test Infill manual test Infill mechanical test Manual cutting test Mechanical loading test Manual check test Soft body impact test Hard body impact test</p> <p>Security of fixings</p> <p>Manipulation test Infill manual test Infill mechanical test Mechanical loading test Manual check test</p> <p>Corrosion tests in artificial atmospheres - NSS (neutral salt spray)</p>	<p>PAS 24:2016</p> <p>BS EN 13724:2002 and 2013</p> <p>PAS 24:2016</p> <p>BS EN ISO 9227:2017</p>

END