

# Schedule of Accreditation

issued by

## United Kingdom Accreditation Service

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

 <p><b>UKAS</b> TESTING</p> <p>2594</p> <p>Accredited to ISO/IEC 17025:2017</p>	<p><b>R-TECH Services Ltd trading as R-TECH Materials</b></p> <p>Issue No: 041 Issue date: 19 January 2026</p>	
	<p><b>Testing House</b> Kenfig Industrial Estate Margam Port Talbot SA13 2PE</p>	<p><b>Contact: Dave Mumford</b> Tel: +44 (0)1656 748000 Fax: +44 (0)1656 670130 E-Mail: dave.mumford@r-techmaterials.com Website: www.rtech-materials.com</p>
<p>Testing performed at the above address only</p>		

R-Tech Materials is accredited for a limited flexible scope that enables the laboratory to conduct accredited testing through the modification of existing test methods, inclusion of technically equivalent standard methods and inclusion of revised standard methods to activities detailed below, in accordance with their documented in-house procedure RT 08.

### DETAIL OF ACCREDITATION

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
METALS, ALLOYS and METAL PRODUCTS	<u>Chemical Tests</u> Elemental Analysis	Chemical tests for elemental analysis (by ICP-OES or Leco) are not currently covered for flexible scope for the modification of existing test methods
High Alloy Steel and Stainless Steel	Al, As, B, Co, Cr, Cu, Mn, Mo, Nb, Ni, P, Pb, Sb, Si, Sn, Ti, V, W, Zr	Documented In-House method APM10 using ICP-OES
Plain carbon and low alloy steels*	Fe, Si, Mn, P, Cr, Mo, Ni, Al, B, Co, Cu, Nb, Sn, Ti, V	Documented In-House method APM10 using ICP-OES
Plain carbon, low alloy and stainless steels	Carbon and Sulphur	Documented In-House method APM 04 using Leco CS 744 analyser
Plain carbon, low alloy and stainless steels	Oxygen and Nitrogen	Documented In-House method APM 05 using Leco ON 736 analyser
Plain carbon, low alloy and stainless steels	<u>Mechanical Tests</u>  Tensile (Forces up to 1500 kN)	BS EN ISO 6892-1 (Method B) excluding annex G ASTM A370
	Vickers hardness (HV0.5, HV1, HV10 & HV30)	BS EN ISO 6507-1



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Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
<p>METALS, ALLOYS and METAL PRODUCTS (cont'd)</p> <p>WELDMENTS</p> <p>Carbon steel, stainless steel &amp; stainless steel clad reinforcing bars, wire rod, wires, welded fabrics for the reinforcement of concrete, and steel bars, and wire for the pre-stressing of concrete</p>	<p><u>Mechanical Tests</u> (cont'd)</p> <p>Tests designated in specified welding codes, as detailed below</p> <p>Hardness, Tensile and Visual Examination</p> <p>Bend</p> <p>Re-bend</p> <p>Reverse bend</p> <p>Tensile (Forces up to 1500 kN)</p>	<p>BS EN ISO 15614-1 BS EN ISO 9015-1 BS EN ISO 4136 BS EN ISO 17637</p> <p>BS 6744 BS EN 10080 ASTM A615/A615M ASTM A706/A706M</p> <p>BS 4482:1985 (Withdrawn) BS 4482 BS 4449:1997 (Superseded) BS 4449 + A3 BS EN ISO 15630-1 BS EN ISO 15630-2 BS EN ISO 15630-3</p> <p>ISO 7801</p> <p>BS 4449:1997 (Superseded) BS 4449 +A3 BS 4482:1985 (Withdrawn) BS 4482 BS 4483:1998 (Withdrawn) BS 4483 BS 4486 BS 6744 BS EN ISO 6892-1 (Method B) excluding Annex G BS EN ISO 15630-1 BS EN ISO 15630-2 BS EN ISO 15630-3 ASTM A615/A615M ASTM A706/A706M ASTM A970/A970M</p>



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METALS, ALLOYS and METAL PRODUCTS (cont'd)	<u>Mechanical Tests</u> (cont'd)	
	Fatigue (Forces up to 400 kN)	BS 4449:1997 (Superseded) BS 4449 + A3 BS EN ISO 15630-2:2002 (withdrawn) BS EN ISO 15630-1 BS EN ISO 15630-2 BS EN ISO 15630-3
Carbon steel, stainless steel & stainless steel clad reinforcing bars, wire rod, wires, welded fabrics for the reinforcement of concrete, and steel bars, and wire for the pre-stressing of concrete (cont'd)	Weld shear	BS 4483:1998 (withdrawn) BS 4483 BS EN ISO 15630-2
	<u>Dimensional Tests</u>	
	Determination of geometrical characteristics Indentation measurements Relative rib area Deviation from nominal mass per metre	BS EN ISO 15630-1 BS EN ISO 15630-2 BS EN ISO 15630-3
	Determination of geometrical characteristics Relative rib area	BS 6744
	Effective cross-sectional area Projected and relative rib area	BS 4449:1997 (Superseded) BS 4449 + A3
	Measurement of Deformations	ASTM A615/A615M ASTM A706/A706M
	<u>Metallurgical Tests</u>	
	Macro examination	Documented In-House Method PM23
Welded carbon & stainless steel reinforcing bars	<u>Mechanical Tests</u>	
	Bend	BS EN ISO 17660-1



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<p>METALS, ALLOYS and METAL PRODUCTS (cont'd)</p> <p>Carbon steel, stainless steel &amp; stainless steel clad reinforcing bars, wire rod, wires, welded fabrics for the reinforcement of concrete, and steel bars, and wire for the pre-stressing of concrete (cont'd)</p>	<p><u>Mechanical Tests</u> (cont'd)</p> <p>Tensile (Forces up to 1500 kN)</p>	<p>BS 4449:1997 (Superseded) BS 4449 + A3 BS 6744 BS 7123:1989 (Superseded) BS EN ISO 17660-1</p>
	<p>Hardness survey (HV30, HV10 &amp; HV1.0)</p> <p>Weld shear (Forces up to 900 kN)</p> <p><u>Metallurgical</u></p> <p>Macro examination</p>	<p>BS EN ISO 9015-1 BS EN ISO 15614-1</p> <p>BS EN ISO 15630-2 BS EN ISO 17660-1</p> <p>BS 7123:1989 (Superseded) BS EN ISO 17660-1 BS EN ISO 17660-2 DIHM PM25</p>
<p>Mechanical splices, (couplers) for reinforcement of concrete</p>	<p><u>Mechanical Tests</u></p> <p>Tensile (Forces up to 1500 kN)</p> <p>Compression (Forces up to 1500 kN)</p> <p>Cyclic tensile (Forces up to 1500 kN)</p> <p>Low cycle reverse loading tests, S1, S2 and S</p>	<p>BS 4449:1997 (Superseded) BS 4449 + A3 BS EN ISO 15630-1 BS 8597 Sellafield Engineering Standard ES_0_3110_2 ASTM A1034 NF A35-20-2-1</p> <p>DIHM PM51 Sellafield Engineering Standard ES_0_3110_2 ASTM A1034</p> <p>DIHM PM50 &amp; PM 58 Sellafield Engineering standard ES0_3110_2 ASTM A1034</p> <p>ISO 15835-2:2009 (superseded) ISO 15835-2</p>



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METALS, ALLOYS and METAL PRODUCTS (cont'd)	<u>Mechanical Tests</u> (cont'd)	
Mechanical splices, (couplers) for reinforcement of concrete (cont'd)	Fatigue (Forces up to 400 kN)	BS 8597 BS EN ISO 15630-1 ASTM A1034 NF A35-20-2-1
	Slip test	BS 8597 ISO 15835-2:2009 (superseded) ISO 15835-2 ASTM A1034
	Tensile (Temperature ≤ -7 °C) (Forces up to 1200 kN)	DIHM PM49 Sellafield Engineering standard ES_0_3110_2
	Determination of permanent offset (elongation / slip)	BS 8110-1:1997 (Withdrawn) DIHM PM18 & PM45 Sellafield Engineering Standard ES_0_3110_2 ASTM A1034 NF A35-20-2-1
Headed anchors for reinforcing steel	Tensile (Forces up to 1500 kN)	DIHM PM61 & PM62 Sellafield Engineering Standard ES_0_3110_2
	Load Transfer in air (tensile test)	ISO 15698-2
	Robustness Test (wedge tensile test)	ISO 15698-2
	Permanent elongation / slip in tension or compression (Forces up to 1500 kN)	DIHM PM61 & PM62 Sellafield Engineering Standard ES_0_3110_2
	Tensile (Temperature ≤ -7 °C) (Forces up to 1500 kN)	DIHM PM62 Sellafield Engineering Standard ES_0_3110_2
	Cyclic Tensile (Forces up to 1500 kN)	DIHM PM63 Sellafield Engineering Standard ES_0_3110_2



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<p>METALS, ALLOYS and METAL PRODUCTS (cont'd)</p> <p>Bar, wire and strand for the pre-stressing of concrete</p> <p>PLASTICS, INCLUDING REINFORCED PLASTICS, FIBRE REINFORCED PLASTIC COMPOSITES, LAMINATES and RESINS</p>	<p><u>Mechanical Tests</u> (cont'd)</p>	
	<p>Modulus of elasticity (Forces up to 1000 kN)</p>	<p>BS EN ISO 15630-3</p>
	<p><u>Physical Tests</u></p>	
	<p>Glass Content</p>	<p>BS EN ISO 1172 Method A</p>
	<p>Resin, Fibre and Void Content</p>	<p>BS ISO 14127 Procedure A3</p>
	<p>Density and Specific Gravity (Relative Density)</p>	<p>ASTM D792</p>
	<p>Water absorption</p>	<p>BS EN ISO 62</p>
	<p><u>Thermal Properties Analysis</u></p>	
	<p>Glass transition temperature by dynamic mechanical analysis (DMA)</p>	<p>BS ISO 6721-11 ASTM D7028</p>
	<p>Coefficient of thermal expansion by thermomechanical analysis (TMA)</p>	<p>BS ISO 11359-1 BS ISO 11359-2 ASTM E831</p>
	<p>Glass transition temperature By Differential Scanning Calorimeter (DSC)</p>	<p>BS EN ISO 11357-2</p>
	<p><u>Mechanical Tests</u> (Performed in an environment of controlled temperature and relative humidity)</p>	
	<p>Tensile properties (Forces up to 250 kN)</p>	<p>BS EN ISO 527-2 BS EN ISO 527-4 BS EN ISO 527-5 ASTM D3039/D3039M ASTM D5766</p>
<p>Shear properties - In-plane Shear (<math>\pm 45^\circ</math> Tension) - V-Notched Rail Shear Method - V-Notched Beam Method</p>	<p>BS EN 6031 ASTM D7078/D7078M ASTM D5379/D5379M</p>	



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PLASTICS, INCLUDING REINFORCED PLASTICS, FIBRE REINFORCED PLASTIC COMPOSITES, LAMINATES and RESINS (cont'd)	<u>Mechanical Tests</u> (cont'd) (Performed in an environment of controlled temperature and relative humidity)	
	Apparent Interlaminar Shear strength (Forces up to 250 kN)	BS EN 2563
	Apparent interlaminar shear strength (Short Beam) (Forces up to 10 kN)	BS EN ISO 14130 ASTM D2344/D2344M
	Barcol hardness	BS 2782-10: Method1001:1977 (Withdrawn)
	Compressive properties (Forces up to 250 kN)	BS EN ISO 604 ASTM D6641/D6641M
	Compressive modulus and strength	BS EN 2850
	Determination of heat deflection temperature	BS EN ISO 75-1 BS EN ISO 75-2
	Flexural properties (Forces up to 10 kN & 100 kN)	BS EN ISO 178 + A1 BS EN ISO 14125 + A1 ASTM D790
	In-plane shear strength at 5%/shear strain/shear modulus by tensile test of a ±45° laminate (Forces up to 250 kN)	BS EN ISO 14129 ASTM D3518/D3518M
	Fibre Reinforced Plastic Rebar	Tensile properties (forces up to 1500 kN)
ADHESIVES	<u>Mechanical Tests</u> (Performed in an environment of controlled temperature and relative humidity)	
	Lap shear strength of rigid-to-rigid bonded assemblies (Forces up to 250 kN)	ISO 4587
	Climbing drum peel (Forces up to 10 kN)	ASTM D1781



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ADHESIVES (cont'd)	<u>Mechanical Tests</u> (cont'd) (Performed in an environment of controlled temperature and relative humidity)	
	Core shear properties of sandwich constructions by beam flexure (Forces up to 250 kN)	ASTM C393/C393M
Sandwich Construction (Core)	Flatwise Tensile	ASTM C297/C297M
PLUMBING ITEMS. ITEMS IN CONTACT WITH THE WATER DISTRIBUTION NETWORK	<u>Mechanical, Physical tests and examination of water fittings which are subject to the UK regulations scheme</u>	Methods documented in the Water Regulations Advisory Scheme  Test Code Sheets
Taps, valves, float operated valves, plug cocks, ferrules, water heaters,	Closure (up to 60 bar) - under high downstream pressure - under low downstream pressure	1111.1 1111.8 1111.11
water meters and plumbing fittings for use with tube/pipe.	Porosity	1112.1
	Joint Effectiveness	1113.1
Draw-off taps, compression type fittings for tube/pipe	Torque – Operating Mechanism	1315.1
	Torque – Connection & Disconnection	1315.2
	Torque – Backnuts	1315.4
Compression type fittings for tube/pipe	Tension - Single pull (Pull out of assembled joint)	1314.1 1314.7 1314.9 1314.10 1314.11 1314.12 1314.13 1314.14 1314.15



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PLUMBING ITEMS. ITEMS IN CONTACT WITH THE WATER DISTRIBUTION NETWORK (cont'd)	<u>Mechanical, Physical tests and examination of water fittings which are subject to the UK regulations scheme</u> (cont'd)	Methods documented in the Water Regulations Advisory Scheme
All water fittings	Tension – Multiple pull (Pull out of assembled joint)	Test Code Sheets 1314.8
	Corrosion Protection	1412.1
	Means for Connection & Disconnection	1611.5
	Visual Inspection Seal to be readily renewable	1611.8
	Visual Inspection Fixing of washer plate	1611.9
	Visual Inspection Means of Operation	1611.10
	Visual Inspection All fittings	4001.11
	Effect upon water quality (non-metallic materials)	2111.1
	Marking for identification	6001.1
	Tap Gap	2213.18 2213.19
	Linear Dimensions	5011.1
Soldered fittings in contact with potable water	Determination of the presence of Lead in solder	2111.3
Plastic pipes and fittings	Determination of Opacity	2114.2 BS EN ISO 7686:2005
TAPS	Endurance	1211.3 2211.3 BS EN 200:2023 (Clause 12.3) BS EN 817:2008 (Clause 12.3)



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<p><b>FLEXIBLE SCOPE CONSTRAINTS</b></p> <p>ENGINEERING and STRUCTURAL COMPONENTS, PRODUCTS, FIXINGS, WELDMENTS AND RIGID PLASTICS, FIBRE REINFORCED POLYMERIC MATERIALS, PLUMBING ITEMS, ITEMS IN CONTACT WITH THE WATER DISTRIBUTION NETWORK</p>	<p>Tensile &amp; compressive forces, Fatigue, Displacement, Bending, Hardness, Metallurgy, Physical properties (Polymers and composites), Dimensional measurement,</p> <ul style="list-style-type: none"> <li>• Forces up to ± 1500 kN</li> <li>• Forces up to ± 250 kN (Polymers &amp; Composites)</li> <li>• Fatigue ± 400 kN</li> <li>• Dimensional (within calibrated limits of the optical projector and measuring instruments)</li> <li>• Hardness (Vickers &amp; Barcol)</li> <li>• Pressure (Hydrostatic) up to 60 Bar</li> </ul>	<p>Documented In-House Methods developed using procedure RT 8</p>
END		