

# Schedule of Accreditation

issued by

## United Kingdom Accreditation Service

21 - 47 High Street, Feltham, Middlesex, TW13 4UN, UK

 <p><b>UKAS TESTING</b> 2594</p> <p>Accredited to <b>ISO/IEC 17025:2005</b></p>	<h3>R-TECH Services Ltd</h3> <p><b>Issue No: 009    Issue date: 07 April 2010</b></p>	
	<p><b>Engineering Centre for Manufacturing and Materials</b> Heol Cefn Gwrgan Margam Port Talbot SA13 2EZ</p>	<p><b>Contact: Dr A Franks</b> Tel: +44 (0)1639 864668 Fax: +44 (0)1639 864678 E-Mail: <a href="mailto:tony.franks@r-techservices.co.uk">tony.franks@r-techservices.co.uk</a> Website:</p>
<p><b>Testing performed at the above address only</b></p>		

### DETAIL OF ACCREDITATION

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
<p><b>METALS, ALLOYS and METAL PRODUCTS</b></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, wire and strand for the pre-stressing of concrete</p>	<p><u>Mechanical Tests</u></p>	
	<p>Tensile (Forces up to 1200 kN)</p>	<p>BS EN ISO 6892-1:2009 (Method B) BS EN 10002-1:2001 (Superseded) ASTM A370-07 ASSHTO T244-06</p>
	<p>Vickers hardness (HV10)</p>	<p>BS EN ISO 6507-1:2005</p>
	<p>Bend</p>	<p>BS 6744:2001 ASTM A370-09a ASTM A615/A615M-09a AASHTO MP13M/MP13-04 AASHTO T285-89 (2005)</p>
	<p>Fatigue (Forces up to 250 kN)</p>	<p>BS 4449:1997 (Superseded) BS 4449:2005 BS 6744:2001 BS EN ISO 15630-1:2002 BS EN ISO 15630-2:2002 BS EN ISO 15630-3:2002</p>
	<p>Macro examination</p>	<p>Documented In-House Method PM23</p>



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Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
<p><b>METALS, ALLOYS and METAL PRODUCTS (Cont'd)</b></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, wire and strand for the pre-stressing of concrete (Cont'd)</p>	<p><u>Mechanical Tests</u></p> <p>Tensile (Forces up to 1200 kN)</p> <p>Rebend</p> <p>Weld shear</p> <p><u>Dimensional Tests</u></p> <p>Determination of geometrical characteristics Indentation measurements Relative rib area Deviation from nominal mass per metre</p> <p>Cladding thickness</p> <p>Determination of geometrical characteristics</p> <p>Effective cross sectional area Projected rib area</p>	<p>BS 4449:1997 (Superseded) BS 4449:2005 BS 4482:1985 (Withdrawn) BS 4482:2005 BS 4483:1998 (Withdrawn) BS 4483:2005 BS 4486:1980 BS 6744:2001 BS EN ISO 15630-1:2002 BS EN ISO 15630-2:2002 BS EN ISO 15630-3:2002 ASTM A370-09a ASTM A615/A615M-09a AASHTO MP13M/MP13-04 AASHTO T244-06</p> <p>BS 4482:1985 (Withdrawn) BS 4482:2005 BS 4449:1997 (Superseded) BS 4449:2005 BS EN ISO 15630-1:2002 BS EN ISO 15630-2:2002 BS EN ISO 15630-3:2002 ISO 7801:1984</p> <p>BS EN ISO 15630-2:2002</p> <p>BS EN ISO 15630-1:2002 BS EN ISO 15630-2:2002 BS EN ISO 15630-3:2002</p> <p>ASTM G12-83 (Withdrawn) AASHTO MP13M/MP13-04</p> <p>BS 6744:2001 AASHTO MP13M/MP13-04</p> <p>BS 4449:1997 (Superseded) BS 4449:2005</p>



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Mechanical splicers, (couplers) for reinforcement of concrete	<u>Mechanical Tests</u>  Tensile  Determination of permanent offset	BS 4449:1997 (Superseded) BS 4449 :2005 BNFL Technical Std. A0391_1 Issue 2 July 2006  BS 8110:Part 1:1997 Documented In-House Method PM18
Welded carbon & stainless steel reinforcing bars	Macro examination  Hardness survey	BS 7123:1989 (Superseded) Documented In-House Method PM25  BS EN ISO 15614-1:2004 BS EN 1043-1:1996
Welded carbon & stainless steel reinforcing bars (Cont'd)	Tensile (Forces up to 1200 kN)	BS 4449:1997 (Superseded) BS 4449:2005 BS 6744:2001 BS 7123:1989 (Superseded)
END		