


Schedule of Accreditation

issued by

United Kingdom Accreditation Service

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

 <p>0626</p> <p>Accredited to ISO/IEC 17025:2005</p>	<p>WRc - NSF Ltd</p> <p>Issue No: 023 Issue date: 18 October 2011</p>	
	<p>Fern Close Pen-y-Fan Industrial Estate Oakdale Newport Gwent NP11 3EH</p>	<p>Contact: Mr Paul Davis Tel: +44 (0)1495 236260 Fax: +44 (0)1495 249234 E-Mail: paul.davis@wrcnsf.com Website: www.wrcnsf.com</p>
<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
<p>Plumbing Items Items in contact with water distribution network</p>	<p>Mechanical, Metallurgical and Physical Tests and Examinations of Water Fittings which are subject to the United Kingdom Regulations Scheme</p>	<p>Methods documented in Water Regulations Advisory Scheme - Test and Acceptance Document 5-50-01</p> <p>Test Code Sheets:</p> <p>1111.1 1111.2 1111.3 1111.4 1111.5 1111.6 1111.7 1111.8 1111.9 1111.10 1111.11 1111.13 1111.14 1111.15 1111.16 1111.17 1111.18 1111.19 1112.1 1112.2 1112.3 1112.4 1112.5 1112.6 1112.7 1112.8 1112.9 1112.11 1112.12</p>



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Plumbing Items Items in contact with water distribution network (cont'd)	Mechanical, Metallurgical and Physical Tests and Examinations of Water Fittings which are subject to the United Kingdom Regulations Scheme (cont'd)	Test Code Sheets: (cont'd) 1112.14 1112.15 1113.1 1113.2 1113.5 1211.1 1211.2 1211.3 1211.4 1211.5 1211.6 1211.7 1211.8 1211.12 1211.14 1211.15 1211.16 1211.17 1211.19 1211.20 1211.21 1211.22 1212.1 1212.3 1212.4 1212.5 1212.6 1212.7 1212.10 1212.11 1212.12 1311.1 1311.2 1311.3 1311.5 1312.1 1312.3 1312.5 1312.6 1312.7 1312.8 1312.9 1312.10 1312.11 1312.12 1312.13



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Plumbing Items Items in contact with water distribution network (cont'd)	Mechanical, Metallurgical and Physical Tests and Examinations of Water Fittings which are subject to the United Kingdom Regulations Scheme (cont'd)	Test Code Sheets: (cont'd) 1312.14 1313.1 1313.2 1313.3 1313.4 1313.7 1314.1 1314.4 1314.5 1314.6 1314.7 1314.8 1314.9 1314.10 1314.11 1314.12 1314.13 1314.14 1314.15 1315.1 1315.2 1315.4 1315.5 1315.6 1411.3 1412.1 1511.1 1511.2 1511.4 1511.5 1511.6 1512.1 1512.2 1512.3 1512.5 1512.7 1512.8 1512.10 1512.11 1512.12 1611.1 1611.2 1611.3 1611.4 1611.5 1611.6



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Plumbing Items Items in contact with water distribution network (cont'd)	Mechanical, Metallurgical and Physical Tests and Examinations of Water Fittings which are subject to the United Kingdom Regulations Scheme (cont'd)	Test Code Sheets: (cont'd) 1611.7 1611.8 1611.9 1611.10 1611.11 1611.13 1611.14 1611.15 1611.16 1612.1 1711.2 2111.1 2111.2 2111.3 2113.14 2114.2 2211.1 2211.2 2211.3 2211.11 2212.1 2212.3 2212.4 2212.6 2212.9 2212.10 2212.11 2212.12 2212.13 2212.14 2212.15 2212.20 2213.1 2213.2 2213.3 2213.5 2213.6 2213.7 2213.8 2213.9 2213.10 2213.11 2213.12 2213.13 2213.14 2213.15



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Plumbing Items Items in contact with water distribution network (cont'd)	Mechanical, Metallurgical and Physical Tests and Examinations of Water Fittings which are subject to the United Kingdom Regulations Scheme (cont'd)	Test Code Sheets: (cont'd) 2213.16 2213.17 2213.18 2213.19 3212.1 3212.2 4001.6 5011.1 5011.2 5011.3 5011.5 5011.6 5011.7 5021.3 5031.1 5031.2 5031.3 6001.1
Water Meters for use in closed conduits	Water Pressure, Pressure Loss, Water Temperature, Flow Sensitivity, Reverse Flow and Accelerated Ageing Tests	BS EN 14154-1 (2005) and BS EN 14154-3 (2005) Excluding Section 6 but including 6.5 OIML R 49-2:2004, Section 6 ISO 4064-3:2005 excluding Section 9
PRODUCT TESTING - Plumbing items	Mechanical, Physical, Accelerated Ageing Tests and Examinations	BS 7206:1990 BS 6283:Part 2:1991 BS 6283:Part 4:1991 BS 2456:1990 BS 1212:Part 2:1990 BS 1212:Part 3:1990 BS 1212:Part 4:1991 BS 1125:1987 BS 5503:1990 BS 5504:Part 4:1990 BS 7357:1990 BS 7358:1990 Ozone Chamber 50 pphm ±5 pphm ISO 281 Laboratory Test Procedure 1-50-240



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PRODUCT TESTING (cont'd) - Plumbing items (cont'd)	Mechanical, Physical, Accelerated Ageing Tests and Examinations (cont'd)	BS EN 200:1992 excluding Section 13, Acoustics BS 5412:1996 BS EN 248:2002
PRODUCT TESTING WC flushing test equipment	Mechanical, Physical, Accelerated Ageing Tests and Examinations	 BS EN 997:2003
Indirectly heated unvented (closed) Storage water heaters	Up to 1000 l capacity suitable for water supply pressures between 0.5 and 10 bar.	BS EN 12897:2006 (excluding clause 4.4.4 - Leakage test on double walled primary heater)
Inline hot water supply tempering valves	For sanitary hot water systems of nominal sizes from DN15 to DN50	BS EN 15092:2008
THERMOSTATIC MIXING VALVE TESTING	Mechanical, Accelerated Ageing Tests and Examinations	NHS Model Engineering Specification (D08) Thermostatic mixing valves (Healthcare Premises) BS EN 1287:1999 BS EN 1111:1998
PIPELINE SYSTEMS TESTING - Water pipes and pipe fittings	Mechanical, Physical, Accelerated Ageing, Thermal Stability Tests and Fusion Welding	Laboratory Test Procedures: 1-50-101 to 1-50-104 1-50-107 to 1-50-110 1-50-112 to 1-50-113
Polyethylene Pressure Pipe Systems with an Aluminium Barrier Layer	<u>Resistance to permeability of specific contaminants</u>	Water Industry Specification WIS:4-32-19 Appendix B:April 2009
WATERS	<u>Chemical Tests</u>	
Potable, Raw, Surface and Groundwaters	Colour	HMSO:1981 ISBN 011 751955 3 ING 78 by Spectrophotometry
	Turbidity	HMSO:1981 ISBN 011 751955 3 ING 100 by Nephelometry



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PIPE FITTINGS Water fittings, pipe materials and coatings	Flavour and odour Taste	BS 6920:Parts 1 and 2 and ADMIN 7: Accredited Laboratories Operating Procedure (Water Regulations Advisory Scheme, WRAS) PROC/MAT 006 AS/NZS 4020:2005 PROC/MAT 206
WATERS Leachates from Materials Testing	Colour Mean Dissolved Oxygen Difference (MDOD) Turbidity Residual Chlorine (Total/Free)	HMSO:1981 ISBN 011 751955 3 ING 78 by Spectrophotometry BS 6920:Part 2.4 (2000) Accredited Laboratories Operating Procedure (Water Regulations Advisory Scheme, WRAS) PROC/MIC 001 AS/NZS 4020:1999 PROC/MIC 201 HMSO:1981 ISBN 011 751955 3 ING 100 by Nephelometry HMSO:1980 ISBN 011 751493 4 PROC/MIC 009

