

Schedule of Accreditation

issued by

United Kingdom Accreditation Service

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

 <p>Accredited to ISO/IEC 17025:2005</p>	<h3>Wavin UK</h3> <p>Issue No: 023 Issue date: 12 May 2011</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
<p>PLASTIC and COMPOSITE PIPES and ASSOCIATED FITTINGS</p>	<p>A flexible scope including:</p> <p>Hydrostatic and cyclic pressure resistance tests</p> <p>Thermal cycling tests</p> <p>Loading tests</p> <p>The effects of chemical materials on pipe systems</p> <p>and any combination of the above, within the ranges of:</p> <p>temperature 5 °C to 135 °C pressure ≤ 120 bar</p> <p>and specifically including the following tests in accordance with the requirements of the listed product standards:</p>	<p>Documented In-House Methods developed using Section 5.4 of the Quality Manual</p>
<p>THERMOPLASTICS PIPES and ASSOCIATED FITTINGS for cold potable water</p>	<p>Hydrostatic and cyclic pressure resistance of pipes and fittings</p>	<p>BS EN ISO 1167-1:2006 BS EN ISO 1167-2:2006 IGN 4-37-02:1999</p>
<p>THERMOPLASTICS PIPES and ASSOCIATED FITTINGS for hot and cold water for domestic purposes and heating installations in buildings</p>	<p>Dimensions - diameter, length and wall thickness</p>	<p>BS 7291-1:2010 CI 5 BS EN ISO 3126:2005 BS EN ISO 15876-2:2003 CI 6.1 BS EN ISO 15876-3:2003 CI 6.1 BS EN ISO 21003-2:2008 CI 8.1 BS EN ISO 21003-3:2008 CI 7.1</p>



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THERMOPLASTICS PIPES and ASSOCIATED FITTINGS for hot and cold water for domestic purposes and heating installations in buildings	Long term hydrostatic strength of pipes (10-125 °C, ≤ 100 bar) within the customer's specified environment	BS 7291-1:2010 CI 6.2 BS EN ISO 1167-1:2006 BS EN ISO 1167-2:2006 BS EN ISO 15876-2:2003 CI 4.2, 7 & 8 BS EN ISO 21003-2:2008 CI 9 (Annex B) DVGW W544:2007 CI 5.1.7 BRL.5604:2008 CI 4.5.5.1 BRL.5605:2008 CI 4.5.5.1 BRL-K 536 Part C:2009 CI 3.5.4 AS/NZS 2642.1:2007 CI 6.1 & 6.2 AS/NZS 2642.2:2008 CI 10.2 & 10.3
	Hydrostatic pressure resistance of assembled pipes and fittings (10-125 °C, ≤ 100 bar) within the customer's specified environment	BS 7291-1:2010 CI 6.3 (Annex B) BS 7291-2:2010 CI 5.4.2 BS EN ISO 1167-1:2006 BS EN ISO 1167-2:2006 BS EN ISO 15876-5:2003 CI 4.2 BS EN ISO 21003-5:2008 CI 5.2 DVGW W534:2004 CI 12.10 BRL-K 536 Part C:2009 CI 3.3.2 AS/NZS 2642.3:2008 CI 12.2.1
	Resistance to thermal cycling of assembled pipe and fittings (10-114 °C, ≤ 20 bar)	BS 7291-1:2010 CI 6.4 (Annex C) BS EN 12293:2000 BS EN ISO 15876-5:2003 CI 4.5 BS EN ISO 21003-5:2008 CI 5.5 DVGW W534:2004 CI 12.6 BRL.5604:2008 CI 4.3.2 BRL.5605:2008 CI 4.3.2 BRL-K 536 Part C:2009 CI 3.3.2 AS/NZS 2642.3:2008 CI 12.2.4
	Resistance to elevated temperature cycling	BS EN 1055:1996
Resistance to cyclic pressure shock of assembled pipes and fittings (10-95 °C, 1-25 bar)	BS 7291-1:2010 CI 6.5 (Annex D) BS EN 12295:2000 BS EN 15876-5:2003 CI 4.6 BS EN ISO 21003-5:2008 CI 5.6 DVGW W534:2004 CI 12.5 BRL-K 536 Part C:2009 CI 3.3.2 AS/NZS 2642.3:2008 CI 12.2.6	



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THERMOPLASTICS PIPES and ASSOCIATED FITTINGS for hot and cold water for domestic purposes and heating installations in buildings	Resistance to pull-out of assembled joints (pipe sample length limited to 100 mm)	BS 7291-2:2010 CI 5.4.1 (Annex C) BS EN 712:1995 BS EN ISO 15876-5:2003 CI 4.4 BS EN ISO 21003-5:2008 CI 5.4 DVGW W534:2004 CI 12.11 BRL.5604:2008 CI 4.3.2 BRL.5605:2008 CI 4.3.2 BRL-K 536 Part C:2009 CI 3.3.2 AS/NZS 2642.3:2008 CI 12.2.3
	Resistance to leakage when subjected to bending	BS EN ISO 15876-5:2003 CI 4.3 BS EN ISO 21003-5:2008 CI 5.3 DVGW W534:2004 CI 12.12 BRL.5604:2008 CI 4.3.2 BRL.5605:2008 CI 4.3.2 BRL-K 536 Part C:2009 CI 3.3.2 AS/NZS 2642.3:2008 CI 12.2.2
	Leaktightness under vacuum	BS 7291-2:2010 CI 5.4.3 BS EN 12294:2000 BS EN ISO 15876-5:2003 CI 4.7 BS EN ISO 21003-5:2008 CI 5.7 DVGW W534:2004 CI 12.4 BRL.5604:2008 CI 4.3.2 BRL.5605:2008 CI 4.3.2 BRL-K 536 Part C:2009 CI 3.3.2
	Effect of heating water additives	DIN 4726:2008 CI 5.5
WATERLESS WASTE VALVES	Thermal cycling	Documented In-House Method No TP35 BS EN 274-2:2002 CI 3 ASME A112.18.8:2009 CI 3.6 BRE Cert 42-97:2008 CI 5.2 IGC 203:2004 CI 5.4
	Australian thermal cycling	Documented In-House Method No TP36 AS 2887:1993 CI 2.6.4 AS 2888.8:2002 ATS 5200.047:2005 CI 9.3



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WATERLESS WASTE VALVES	Water way flow rate	Documented In-House Method No TP37 BS EN 274-2:2002 CI 5.1 ASME A112.18.8:2009 CI 3.1 ATS 5200.047:2005 CI 9.1 BRE Cert 42-97:2008 CI 2.1.3 IGC 203:2004 CI 5.1
	Air way flow rate	Documented In-House Method No TP38 BS EN 12380:2002 CI 6.5 ASME A112.18.8:2009 CI 3.3 ASSE 1051:2009 BRE Cert 42-97:2008 CI 2.4.1 IGC 203:2004 CI 5.2
	One way sealing performance	Documented In-House Method No TP39 ASME A112.18.8:2009 CI 3.2 ATS 5200.047:2005 CI 9.2 BRE Cert 42-97:2008 CI 2.1.1 IGC 203:2004 CI 5.3
	Cyclic fatigue	Documented In-House Method No TP40 BS EN 1055:1996 ASME A112.18.8:2009 CI 3.7.1 & 3.7.2 IGC 203:2004 CI 5.5
	Resistance to household substances / other solvents (24 hours)	Documented In-House Method No TP41 ASME A112.18.8:2009 CI 3.8.2, 3.8.3, 3.9.2 & 3.9.3 BRE Cert 42-97:2008 CI 2.2.2 & 5.2 IGC 203:2004 CI 5.6 & 5.7
	Resistance to other solvents / household substances (cycle)	Documented In-House Method No TP42 ATS 5200.047:2005 CI 9.4 & 9.5 BRE Cert 42-97:2008 CI 5.2 IGC 203:2004 CI 5.7
	Back pressure resistance	Documented In-House Method No TP43 BRE Cert 42-97:2008 CI 2.1.2 & 5.2 IGC 203:2004 CI 5.9



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WATERLESS WASTE VALVES	Leak tightness	Documented In-House Method No TP44 ASME A112.18.8:2009 CI 3.5 IGC 203:2004 CI 5.10
	Life cycle	Documented In-House Method No TP45 ASME A112.18.8:2009 CI 3.11
	Resistance to cigarette burns	Documented In-House Method No TP46 ATS 5200.047:2005 CI 9.6
	Recovery from excess back pressure	Documented In-House Method No TP47 ASME A112.18.8:2009 CI 3.4
	Drop test	Documented In-House Method No TP48 BS EN 12380:2002 CI 6.2, 6.2.1 & 6.2.2 ASME A112.18.8:2009 CI 3.10 IGC 203:2004 CI 5.8
	END	