


Schedule of Accreditation

issued by

United Kingdom Accreditation Service

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

 Accredited to ISO/IEC 17025:2005	Exova (UK) Ltd	
	Issue No: 037 Issue date: 16 December 2011	
	Exova (UK) Ltd No 6 Coronet Way Centenary Park Eccles Manchester M50 1RE	Contact: Mr L Candler Tel: +44 (0)161-787 3250 Fax: +44 (0)161-787 3251 E-Mail: larry.candler@exova.com Website: www.exova.com
Testing performed at the above address only		

Location details	Activity	Location code				
<table style="width: 100%; border: none;"> <tr> <td style="width: 50%;">Address</td> <td style="width: 50%;">Local contact</td> </tr> <tr> <td>No 6 Coronet Way Centenary Park Eccles Manchester M50 1RE</td> <td>Contact: Mr L Candler Tel: +44 (0)161-787 3250 Fax: +44 (0)161-787 3251 E-Mail: larry.candler@exova.com</td> </tr> </table>	Address	Local contact	No 6 Coronet Way Centenary Park Eccles Manchester M50 1RE	Contact: Mr L Candler Tel: +44 (0)161-787 3250 Fax: +44 (0)161-787 3251 E-Mail: larry.candler@exova.com	Metals & Weldments - Corrosion tests Metals & Weldments - Chemical tests Metals & Weldments - Mechanical tests Metals & Weldments - Metallurgical tests Organic Coatings and Paints - Performance Tests Plastics including PE, PVC & GRP and thermoplastic liners – Mechanical and Physical tests Soils – Physical tests	A
Address	Local contact					
No 6 Coronet Way Centenary Park Eccles Manchester M50 1RE	Contact: Mr L Candler Tel: +44 (0)161-787 3250 Fax: +44 (0)161-787 3251 E-Mail: larry.candler@exova.com					

Site activities performed away from the locations listed above:

Location details	Activity	Location code				
<table style="width: 100%; border: none;"> <tr> <td style="width: 50%;">Address</td> <td style="width: 50%;">Local contact</td> </tr> <tr> <td>Unit 7 Wharfside Industrial Estate Waterside Trafford Park Manchester M17 1WD</td> <td>Contact: Mr L Candler Tel: +44 (0)161-787 3250 Fax: +44 (0)161-787 3251 E-Mail: larry.candler@exova.com</td> </tr> </table>	Address	Local contact	Unit 7 Wharfside Industrial Estate Waterside Trafford Park Manchester M17 1WD	Contact: Mr L Candler Tel: +44 (0)161-787 3250 Fax: +44 (0)161-787 3251 E-Mail: larry.candler@exova.com	Iron Pipes – Condition assessment Plastics including PE, PVC & GRP and thermoplastic liners – Pressure tests	B
Address	Local contact					
Unit 7 Wharfside Industrial Estate Waterside Trafford Park Manchester M17 1WD	Contact: Mr L Candler Tel: +44 (0)161-787 3250 Fax: +44 (0)161-787 3251 E-Mail: larry.candler@exova.com					



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Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
METALS, ALLOYS and METAL PRODUCTS	<u>Corrosion Tests</u>		
Austenitic stainless steels	Ferric chloride pitting corrosion resistance	ASTM G48-03 (2009) Method A Shell ES/247 Revision 2, 2003	A
	Susceptibility to intergranular attack (excluding sensitisation heat treatment):	ASTM A262-02a (2008) Practice A & E BS EN ISO3651-2:1998	A
	Salt spray	BS 3900:Part F4:1968 BS EN ISO 9227:2006 ASTM B117-07 ASTM G85 -09 Annex A5 Documented In-House Method NL Coat 15	A
	<u>Mechanical Tests</u>		
	Bend	BS EN ISO 7438:2005 ASTM A370-09a ASTM E190-92(2008) ASTM E290-2009	A
	Hardness		
	Brinell (HB10/3000 and HB1/30)	BS EN ISO 6506-1:2005 ASTM E10-08	A
	Rockwell (B and C Scales)	BS EN ISO 6508-1:2005 ASTM E18-08b ASTM A370-09a	A
	Vickers HV5, 10 & 30	BS EN ISO 6507:2005 ASTM E92-82(2003)	A
	Low Force Vickers HV1	BS EN ISO 6507-1:2005 ASTM E384-09	A
	Micro Hardness Vickers HV0.1, 0.3 & 0.5 Knoop HK0.1, 0.2 & 0.5	ASTM E384-09	A



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METALS, ALLOYS and METAL PRODUCTS (cont'd)	Mechanical Tests (cont'd)		
	Hardness (cont'd)		
	Micro Hardness Vickers HV0.1, 0.3 & 0.5	BS EN ISO 6507-1:2005	A
	<u>Impact</u>		
	Izod	BS 131 Part 1:1961(1989)	A
	Charpy V-notch	BS EN 10 045-1:1990 ASTM E23-07a ASTM A370-09a	A
	Crystallinity	BS 131 Part 5:1965(1982)	
	<u>Tensile</u>		
	(forces 5 kN up to 600 kN) (ambient temperature)	BS EN ISO 6892-1:2009 BS EN 2002-1:2005 ASTM E8/E8M-09 ASTM A370-09a	A
	(forces 5 kN up to 50 kN) (temperature range ambient to 300°C)	BS EN 10002-5:1992 BS EN 2002-2:2005 ASTM E21-09 BS 4 A4:Part1:Sect2:1966	A
Weldments	Bend, Fracture, Hardness, Impact, Tensile and Macro-examination in accordance with specific welding codes	BS EN 287:Part 1:2004 BS EN 287:Part 2:1992 BS EN 288:Part 4:1992 BS EN 910:1996 BS EN 875:1995 BS EN 876:1995 BS EN 895:1995 BS EN 1043-1:1996 BS EN 1320:1997 BS EN 1321:1997 BS 4871:Part 3:1985 BS 4872:Part 1:1982 BS 4872:Part 2:1976 BS EN ISO 15614-1:2004 ASME IX-07 API 5L 44 th Edition. 2007 API 1104 20 th Edition	A



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METALS, ALLOYS and METAL PRODUCTS (cont'd)	<u>Metallurgical Tests</u>		
	Depth of carburized and hardened case (micrographic method)	BS 6286:1982(2005) BS EN ISO 2639:2002	A
	Depth of decarburisation (micrographic method)	BS EN ISO 3887:2003	A
	Phase volume fraction	ASTM E562-08 Shell ES/247 Revision 2:2003	A
	Grain size	BS 4490:1989 (withdrawn) ASTM E112-96(2004)	A
	Inclusion Count	ASTM E45-05 Method A	A
	Austenite Spacing	ASTM E112-96(04) DNV RP F112 (Appendix B) Draft Issue April 2006	A
Duplex Austenitic/Ferritic stainless steels	Detecting detrimental intermetallic phases	ASTM A923-08	A
	Classification of third phase precipitates	Documented In-House Method NL Mech 22	A
ORGANIC COATINGS and PAINTS	<u>Performance Tests</u>		
	Accelerated weathering	ASTM G154-06	A
	Cathodic disbonding	T/SP/CW6 Part 1, October 2004 BS 3900:Part F11:1985	A
	Coating thickness	T/SP/CW6 Part 1, October 2004 BS 3900:Part C5:1992 Method 6Ba (Withdrawn) ISO 2808:1991 ASTM D1186-01	A



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ORGANIC COATINGS and PAINTS (cont'd)	<u>Performance Tests (Cont'd)</u>		
	Cross cut adhesion	BS 3900:Part E6:1992 (Withdrawn) ISO 2409:1992	A
	High voltage holiday detection	T/SP/CW6 Part 1, October 2004	A
	V-cut coating adhesion	T/SP/CW6 Part 1, October 2004	A
	Pull off adhesion	ASTM D4541-02 Method E	A
	Strain polarisation	T/SP/CW6 Part 1, October 2004	A
	Abrasion resistance	ASTM D4060-07	A
	Hot water immersion	T/SP/CW6 Part 1, October 2004	A
	Flexibility	T/SP/CW6 Part 1, October 2004	A
	Cupping Test	BS EN ISO 1520:2006	A
	Bend Test (Cylindrical Mandrel)	BS EN ISO 1519:2002	A
	Rapid Deformation Impact	ASTM D2794:2004	A
	Measurement of Specular Gloss of non-metallic paint films at 20°, 60° and 85°	BS EN ISO 2813:2000	A
	Coating Thickness	BS EN ISO 2360:2003	A
	Buchholz Indentation test	BS EN ISO 2815:2003	A
Assessment of Degree of Blistering	BS EN ISO 4628-2:2003	A	
Determination of Resistance to humid atmospheres containing sulphur dioxide	BS EN ISO 3231:1997	A	



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	Exposure to Filtered Xenon arc radiation	BS EN ISO 11341:2004	A
	Colour Differences	ISO 7724-3:1984	
	Acid and Mortar Resistance of Factory Applied Clear Coatings on Extruded Aluminium Products	BS EN 12206-1:2004	A
	Determination of resistance to humidity	BS EN ISO 6270-2:2005	A
FBE Powder	Machu Test	Qualicoat 2.11	A
	Gel time	T/SP/CW6 Part 1, October 2004	A
FBE Powder	Moisture content	Documented In-House Method NL/COAT 24	A
PLASTICS including PE, PVC and GRP and thermoplastic liners.	<u>Mechanical and Physical Tests</u>		
	Tensile Strength, Strain and Modulus	BS EN ISO 527-1:1996 BS EN ISO 527-2:1996 BS EN ISO 527-3:1996 BS EN ISO 527-4:1997 BS 4994:1987	A
	Lap Shear	BS 4994:1987 (B.9)	A
	Shear Strength of Bond	BS 4994:1987 (B.10)	A
	Short-term Flexural Properties	BS EN ISO 178:2003 BS EN ISO 14125:1998 WIS 4-34-02, April 1986, Issue 1 WIS 4-34-04, March 1995, Issue 2	A



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PLASTICS including PE, PVC and GRP and thermoplastic liners (Cont'd)	<u>Mechanical and Physical Tests</u> (Cont'd)		
	Long-term Flexural Creep Modulus	Documented In-house Method PDL-SOP09	A
	Butt Fusion Jointing and Electro fusion Weld Tests	WIS 4-32-08, April 2002, Issue 3 WIS 4-32-14, March 1995, Issue 1	A
	Fracture Toughness	Documented In-house Method PDL-SOP12 WIS 4-32-17, August 2001, Issue 2	A
	Charpy Impact	BS EN ISO 179:1997 BS EN ISO 179-1:2001 WIS 4-32-17, August 2001, Issue 2 Documented In-house Method PDL-SOP15	A
	Peel Test	BS 4994:1987	A
	Hardness (Barcol)	BS 4994:1987 BS 2782:Part 10:Method 1001:1977	A
	Oxidation Induction Time	ISO TR 10837:1991 WIS 4-32-17, August 2001, Issue 2	A
	Talc Contamination Test	WIS 4-32-08, April 2002, Issue 3 WIS 4-32-14, March 1995, Issue 1	A
	Acetone Test	BS 4994:1987	A



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PLASTICS including PE, PVC and GRP and thermoplastic liners (Cont'd)	<u>Mechanical and Physical Tests</u> (Cont'd) Pressure Testing	BS EN ISO 9080:2003 BS EN ISO 1167-1:2006 WIS 4-32-17, August 2001, Issue 2 WIS 4-32-14, March 1995, Issue 1 PAS 27:1999	B
METALS, ALLOYS and METAL PRODUCTS Iron Pipes	<u>Physical Tests</u> Condition Assessment	Document No. 9 "Water Mains Rehabilitation Manual, WRC 1986"	B
SOILS	<u>Physical Tests</u> Soil Resistivity	Documented In-house Method PDL-SOP01 ASTM G57-06 Soil Sampling Method	A
	Moisture Content	Documented In-house Method PDL-SOP01	A
END			