

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>Sandberg LLP</h3> <p>Issue No: 025 Issue date: 15 May 2006</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
METALS, ALLOYS and METAL PRODUCTS	Tensile strength	BS EN 10002-1:2001
	Vickers hardness	BS EN ISO 6507-1:1998
	Charpy impact testing up to 300 joules at 77K and from 233K to ambient temperature	BS EN 10045-1:1990
	Methods for bend testing	BS EN ISO 7438:2000
	Micrographic determination of the grain size of steel	BS EN ISO 643:2003
	Micrographic determination of the morphology of graphite in cast iron	BS EN ISO 945:1994
METALS & ALLOYS : ferrous and non-ferrous	Metallographic examination and identification of materials	Documented In-House Method MS/LG/TP M/26 using acid etching and light microscopy
WELDMENTS	Tests designated in specified welding codes - as detailed below:- Bend, Fracture, Hardness, Impact, Tensile, Visual-examination, Macro-examination, Micro-examination	BS EN 287:Part 1:2004
		BS EN ISO 9606:Part 2:2004
		BS EN ISO 15614:Part 1:2005
		BS EN ISO 15614:Part 2:2005
		BS EN 875:1995
		BS EN 876:1995
		BS EN 895:1995
		BS EN 910:1996
		BS EN 1043-1:1996
		BS EN 1320:1997
		BS EN 1321:1997
		BS 4872:Part 1:1982(1999)
		BS 4872:Part 2:1976(1999)
BS 5400:Part 6:1999		
BS 7123:1989		



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METALS, ALLOYS, METAL PRODUCTS WELDMENTS and REINFORCING STEELS	Macroscopic examination by etching with strong mineral acid	BS 6533:1984 (2004)
REINFORCING STEELS	Tensile strength up to 32 mm diameter	BS 4449:2005
	Rebend up to 40 mm diameter	BS 4449:2005
	Tensile properties	BS 4482:1985 BS 4483:1998
	Weld test	BS 7123:1989
	Bond strength	BS 4449:1997
	Macro-etch tests	BS 7123:1989 BS 6533:1984 (2004)
STEEL COUPLERS for use in working scaffolds and falsework	Bearing capacity of right angle and swivel couplers	BS 1139-2.1:1991 (EN 74:1988) Clause 9.2, 9.3 and 9.4
NUTS and BOLTS black nuts and bolts, isometric nuts and bolts, high strength friction grip nuts and bolts, higher strength friction grip nuts and bolts.	Length: 0 to 50mm (0.01mm) 50 to 300mm (0.02mm) Diameter 0 to 50mm (0.01mm) 50 to 300mm (0.02mm)	BS 3643:Part 1:1981 (2004) BS 3643:Part 2:1981 (2004) BS 3692:2001 BS 4190:2001 BS 4395:Part 1:1969 (2004) BS 4395:Part 2:1969 (2004) BS 4604:Part 1:1970 BS 4604:Part 2:1970 BS 4827:1972 (2004) BS EN ISO 3506:Part1:1998 BS EN ISO 3506:Part2:1998
	Tensile strength	BS 57:1951 (obsolescent) BS 84:1956 (obsolescent) BS 916:1953 (obsolescent)
	Proof Loading	BS 1580:Part 1&2:1962 (1998) BS 1580:Part 3:1965 (2004) BS 1768:1963 (obsolescent) BS 1769:1951 (obsolescent)
	Vickers hardness	ASTM A307- 04 ASTM A325- 04b ASTM A354- 04 ASTM A563- 04a ASTM F568- 04 ASTM F606 – 02e1
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NUTS and BOLTS black nuts and bolts, isometric nuts and bolts, high strength friction grip nuts and bolts, higher strength friction grip nuts and bolts (cont'd)	Torque Slip factor Shank tension	