
**APPENDIX F
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APPENDIX F

PUBLICATIONS REFERRED TO IN THE SPECIFICATION

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1. (05/01) BRITISH STANDARDS

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BS 6588	Specification for Portland pulverized-fuel ash cements (05/02)	1001 2602 Appx B
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BS 6699	Specification for ground granulated blastfurnace slag for use with Portland cement (05/02)	1001 1702 1703 Table 17/10 1705
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BS 7079	Part A1. Preparation of steel substrates before application of paints and related products. Visual assessment of surface cleanliness. Specification for rust grades and preparation grades of uncoated steel substrates and of steel substrates after overall removal of previous coatings. (05/03)	1606 1904 5004 5005				
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	Part F7. Specification for fused aluminium oxide	1903				
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BS 7123	Specification for metal arc welding of steel for concrete reinforcement	1603 1604 1605 1610 1611 1717				
		BS 7263	Precast concrete flags, kerbs, channels, edgings and quadrants	Part 1. Specification	1101 1101NI 1104 1109 1522	
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BS 7671	Regulations for electrical installations. IEE Wiring Regulations Sixteenth edition	1217 1401 1401NI 1420 1424 1503 1517 1526
BS 7818	Specification for pedestrian restraint systems in metal	412 2202
BS 7962	Black materials for marking existing road markings - Specification (08/03)	1212 1212NI
BS 8000	Workmanship on building sites Part 4. Code of Practice for waterproofing.	2005
BS 8004	Code of practice for foundations	Table 17/4b
BS 8008	Guide to safety procedures for the construction and descent of machine bored shafts for piling and other purposes	1603
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BS EN 351-1	Durability of wood and wood-based products. Preservative-treated solid wood. Classification of preservative	311

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BS EN 351-2	Durability of wood and wood-based products. Preservative-treated solid wood. Guidance on sampling for the analysis of preservative-treated wood (02/03)	311
BS EN 471	Specification for high-visibility warning clothing	117 117NI
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BS EN 1011-1	General guidance for arc welding	1803
BS EN 1418	Welding personnel. Approval testing of welding operators for fusion welding and resistance weld setters for fully mechanised and automatic welding of metallic materials	1803
BS EN 1423	Road marking materials. Drop on materials. Glass beads, anti-skid aggregates and mixtures of the two	1212 1212NI 1217 2606 Appx A Appx B
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BS EN 1426	Methods of tests for petroleum and its products. Bitumen and bituminous binders. Determination of needle penetration	902 941
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BS EN 10 034	Structural steel I and H sections. Tolerances on shape and dimensions	1606
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BS EN 10 147	Continuously hot-dip zinc coated structural steels strip and sheet. Technical delivery conditions (02/03)	2104
BS EN 10 155	Structural steels with improved atmospheric corrosion resistance. Technical delivery conditions	1803
BS EN 10 160	Ultrasonic testing of steel flat product of thickness equal or greater than 6 mm (reflection method)	1803

BS EN 10 210	Hot finished structural hollow sections of non-alloy and fine grain structural steels	402 1204 1310 1803
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BS EN 12 390-4	Testing hardened concrete. Compressive strength. Specification for testing machines	Table 10/15
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BS EN 12 878	Pigments for the colouring of building materials based on cement and/or lime. Specifications and methods of test (11/02)	1704

BS EN 13 036-1	Road and airfield surface characteristics - Test Methods Part 1: Measurement of pavement surface macrotexture depth using a volumetric patch technique (11/02)	918 921 922 942 1046 1044
BS EN 13 183	Moisture content of a piece of sawn timber (11/02)	311
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BS EN 24 017	Hexagon head screws. Product grades A and B (02/03)	2502 Appx A
BS EN 24 018	Hexagon head screws. Product grade C (02/03)	1803 Appx A
BS EN 24 032	Hexagon head nuts, style 1. Product grades A and B (02/03)	1803 2502 Appx A
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BS EN 24 624	Paints and varnishes. Pull-off test. (05/03)	1907
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BS EN 50 0-2-4	Specification for conduit systems for cable management. Particular requirements. Conduit systems buried under ground (02/03)	1530 Appx B
BS EN 55 014	Limits & methods of measurement of radio disturbance characteristics of electrical motor-operated and thermal appliances for household & similar purposes, electric tools & similar electric apparatus	1406
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BS EN 60 529	Specification for degrees of protection provided by enclosures (IP code)	1407 1418 1530
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BS EN 60 898	Specification for circuit breakers for overcurrent protection for household and similar installations	1416
BS EN 60 920	Specification for ballasts for tubular fluorescent lamps. General and safety requirements	1412 Appx B
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BS EN 60 922	Auxiliaries for lamps. Ballasts for discharge lamps (excluding tubular fluorescent lamps). General and safety requirements. (02/03)	1412 Appx B
BS EN 60 923	Auxiliaries for lamps. Ballasts for discharge lamps (excluding tubular fluorescent lamps). Performance requirements (02/03)	1412 Appx B
BS EN 60 947	Part 2. Circuit breakers	1416
BS EN 61 048	Specification for capacitors for use in tubular fluorescent and other discharge lamp circuits. General and safety requirements	1415 Appx B
BS EN 61 049	Specification for capacitors for use in tubular fluorescent and other discharge lamp circuits. Performance requirements	1415 Appx B
BS EN 62 035	Discharge lamps (excluding fluorescent lamps), Safety specifications (02/03)	1408
BS EN ISO 898	Mechanical properties of fasteners made of carbon steel and alloy steel (02/03)	2502 Appx A
BS EN ISO 1461	Hot dip galvanized coatings on fabricated iron and steel articles. Specifications and test methods	305 1909
BS EN ISO 8502	Preparation of steel substrates before application of paints and related products. Tests for the assessment of surface cleanliness (05/03)	1902 5002
BS EN ISO 8503-1	Preparation of steel substrates before application of paints and related products. Surface roughness characteristics of blast-cleaned steel substrates. Specifications and definitions for ISO surface profile compactors for the assessment of abrasive blast-cleaned surfaces (05/03)	1904 5004
*BS EN ISO 9001 : 1994	Quality systems. Model for quality assurance in design, development, production, installation and servicing (11/02)	1424 1711
*BS EN ISO 9002 : 1994	Quality systems. Model for quality assurance in production, installation and servicing. (11/02)	104 104NI 902
	*Note: BS EN ISO 9001: 1994 and BS EN ISO 9002: 1994 will be superseded by BS EN ISO 9001: 2000 from 15 December 2003. A transition period of 3 years has been provided to allow companies to manage the change from the 1994 standards to the 2000 standards. During the transition period certification to either standard is generally recognised.	904 to 911 913 to 915 920 930 932 to 938 942 943 946 to 948

BS EN ISO 11124-2	Preparation of steel substrates before application of paints and related products. Specifications for metallic blast-cleaning abrasives Chilled-iron grit (05/03)	1903 5003
BS EN ISO 11124-3	Preparation of steel substrates before application of paints and related products. Specifications for metallic blast-cleaning abrasives. High-carbon cast-steel shot and grit (05/03)	1903 5003
BS EN ISO 11126-7	Preparation of steel substrates before application of paints and related products. Specifications for non-metallic blast-cleaning abrasives. Specifications for fused aluminium oxide (05/03)	1903 5003

2. (05/01) BRITISH STANDARD DRAFTS FOR DEVELOPMENT (DD) DOCUMENTS
(Published by The British Standards Institution)

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DD 213	Method for determination of the indirect tensile stiffness modulus of bituminous mixtures	929 937 948 Table 9/12 Table 9/13 Table 9/14
DD 226	Method for determining resistance to permanent deformation of bituminous mixtures subject to unconfined dynamic loading	929 952
DD 228	Methods for determination of maximum density of bituminous mixtures	926 929 943 948
DD 229	Method for determination of the relative hydraulic conductivity of permeable surfacings	938
DD 232	Method for determination of the maximum binder content of bituminous mixtures without excessive binder drainage	937 938 942

3. (05/01) EUROPEAN STANDARDS

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EN 45001	General criteria for the operation of testing laboratories	105
EN 45002	General criteria for the assessment of testing laboratories	105
Draft EN 227189	Unbound and hydraulically bound mixtures - Part 2: Slag bound mixtures - definitions, composition, classification	805
prEN 12 272-1	Surface Dressing - Test Methods Part 1: Rate of spread and accuracy of spread of binders and chippings	919 920

prEN 12 272-1	Surface Dressing - Test Methods Part 2: Visual Assessment of Defects	922
prEN 12 272-8	Slurry Surfacing - Test Methods Part 8: Visual Assessment of Defects	918
prEN 13 286-41	BS EN 13 286-141 Unbound and hydraulically bound mixtures - Part 41. Test method for the determination of the compressive strength of hydraulically bound mixtures (02/03)	805
4. (05/01) INTERNATIONAL STANDARDS (Published by the International Organization for Standardization)		
		Specification Clause/Table/ Appendix
ISO 209 (BS 1473 and BS 1474)	Wrought aluminium and aluminium alloys Chemical composition and forms of products Part 1: Chemical composition (05/03)	1909 5005
ISO 752	Zinc ingots (05/03)	1909 5005
ISO 898	Mechanical properties of fasteners made of carbon steel (02/03)	305
ISO 898-1 (BS EN ISO 898-1)	Bolts, screws and studs (02/03)	402
ISO 898-2 (BS EN ISO 898-2)	Nuts with specified proof load values. Course thread (02/03)	501 507 Appx A
ISO 2409 (BS EN ISO 24 09)	Paints and varnishes. Cross-cut test	1606
ISO 2859 - 1	Specification for sampling plans indexed by acceptable quality level (AQL) for lot - by - lot inspection. (BS 6001Part 1)	311
ISO 4014 (BS EN 24 014)	Hexagon head bolts. Product grades A and B	501
ISO 4016 (BS EN 24 016)	Hexagon head bolts. Product grade C	305 402 507
ISO 4017 (BS EN 24 017)	Hexagon head screws. Product grades A and B	501
ISO 4018 (BS EN 24 018)	Hexagon head screws. Product grade C	305 402 507 Appx A
ISO 4032 (BS EN 24 032)	Hexagon nuts, style 1. Product grades A and B	501
ISO 4034 (BS EN 24034)	Hexagon nuts. Product grade C	305 402 507
ISO 4892 (BS 2782-540B)	Methods of testing plastics	626
ISO 8402	Quality vocabulary	104 104NI

ISO 8501-1	Preparation of steel substrates before application of paints and related products. Visual assessment of surface cleanliness. Part 1: Rust grades and preparation grades of uncoated steel substrates and of steel substrates after overall removal of previous coatings. (05/03)	1803 1904 5004 5005
ISO 8501-2	Preparation of steel substrates before application of paints and related products. Visual assessment of surface cleanliness. Part 2: Preparation grades of previously coated steel substrates after localized removal of previous coatings. (05/03)	5004
ISO 9000 : 1994	Quality management systems. Fundamentals and vocabulary	1046
ISO 11126-3	Preparation of steel substrates before application of paints and related products. Specification for non-metallic blast-cleaning abrasives. Part 3: Copper refinery slag (05/03)	1903 5003

5. (05/01) DEPARTMENT OF TRANSPORT; DEPARTMENT OF ENVIRONMENT, TRANSPORT AND THE REGIONS; SCOTTISH DEVELOPMENT DEPARTMENT; THE SCOTTISH OFFICE; WELSH OFFICE; AND DEPARTMENT OF THE ENVIRONMENT FOR NORTHERN IRELAND PUBLICATIONS

(Published by The Stationery Office (formerly HMSO)) (02/03)

		Specification Clause/Table/ Appendix
(i)	Traffic Signs Manual	1216
	Chapter 1. Introduction 1977	1208
	Chapter 7. The Design of Traffic Signs 1997	1216
	Chapter 8. Traffic Safety Measures and Signs for Road Works and Temporary Situations. 1991	117 117NI
		1216
(ii)	Working Drawings for Traffic Sign Design and Manufacture (Volumes 1, 2 and 3)	1216

6. (05/01) UK OVERSEEING ORGANISATIONS PUBLICATIONS INCLUDING THEIR PREDECESSOR'S PUBLICATIONS

(Published by The Stationery Office or HMSO)

		Specification Clause/Table/ Appendix
Bridges - Advice Notes		
(i)	BA 27	Quality Assurance Scheme for Paints and Similar Protective Coatings. (DMRB 2.4.2) (05/03)
	BA 35	Inspection and Repair of Concrete Highway Structures. (DMRB 3.3.2). (Not applicable for use in Scotland Northern Ireland addendum applicable for use in Northern Ireland)
		1911 5007 1714

Bridges - Standards			
(ii)	BD 2	Technical Approval of Highway Structures. (DMRB 1.1.1) (02/03)	106 Appx A
(iii)	BD 12	Design of Corrugated Steel Buried Structures with Spans not greater than 0.9 metres and up to 8.0 metres (DMRB 2.2.6) (02/03)	2501
(iv)	BD 26	Design of Lighting Columns. (DMRB 2.2.1)	1207 1302 1306 Appx A
(v)	BD 35	Quality Assurance Scheme for Paints and Similar Protective Coatings. (DMRB 2.4.1) (05/03)	1221 1901 1911 Table 19/1 5001 5007 Table 50/1
(vi)	BD 52	The Design of Highway Bridge Parapets. (DMRB 2.3.3)	2202 Appx A
(vii)	BD 68	Crib Retaining Walls. (DMRB 2.1.3)	625
(viii)	BD 70	Strengthening/Reinforced Soils and Other Fills for Retaining Walls and Bridge Abutments. (DMRB 2.1.5)	2502
(ix)	BD 87	Maintenance of Painting of Steelwork (DMRB 3.2.2) (05/03)	5001

7. (05/01) HIGHWAYS AGENCY (TSS DIVISION) PUBLICATIONS
(Published by the Highways Agency. E-mail: tss_plans_registry@highways.gsi.gov.uk) (02/03)

			Specification Clause/Table/ Appendix
Traffic Engineering - Advice Notes			
(i)	TA 61	Currency of the Traffic Signs Manual. (DMRB 8.2.2)	117 117NI
(ii)	TA 63	Convoy Working. (DMRB 8.4.5).	117 117NI
(iii)	TA 64	Narrow Lane and Tidal Flow Operations at Roadworks on Motorways and Dual Carriageway Trunk Roads with Full Width Hard Shoulders. (DMRB 8.4.3)	117 117NI
Traffic Engineering - Standards			
(iv)	TD 49	Mobile Lane Closures. (DMRB 8.4.4)	117 117NI

Traffic Control and Communications - Specifications

(v)	TR 0102	Traffic Signals and Traffic Signal Equipment	1217
(vi)	TR 2017	Single Mode Fibre Optic and Copper Communications Cable	1506
(vii)	TR 2029	Inductive Loop Cable	1506
(viii)	TR 2031	Inductive Loop Feeder Cable	1506
(ix)	TR 2150	NMCS Non-Armoured Copper Communications Cable	1506 1513 1518
(x)	TR 2151	NMCS Non-Armoured Optical Fibre Communications Cable	1506 1518
(xi)	TR 2152	NMCS Non-Armoured Coaxial Communications Cable	1506 1518
(xii)	TR 2153	NMCS Non-Armoured Energy Cable	1506 1516 1518
(xiii)	TR 2158	NMCS Armoured Copper Communications Cable	1506 1518
(xiv)	TR 2159	NMCS Armoured Optical Fibre Communications Cable	1506 1518
(xv)	TR 2160	NMCS Armoured Coaxial Communications Cable	1506 1518
(xvi)	TR 2161	NMCS Armoured Energy Cable	1506 1516 1518
(xvii)	TRG 0500	Type Approval of Equipment	1217
(xviii)	MCE 2183	Ducted Cable Network Cable Joint Enclosure Specification	1514
(xix)	MCG 1022	Testing for Newly Installed Motorway Communications and Power Cables	1506 1518
(xx)	MCG 1055	Testing for Newly Installed Motorway Optical Fibre Communications Cable (Single Mode)	1506 1518
(xxi)	MCG 1099	NMCS Non-Armoured Cables: Installed Cable Testing Procedures	1518
(xxii)	MCH 1540	Specification for the Installation of Detector Loops on Motorways and All Purpose Trunk Roads	1218
(xxiii)	MCH 1260	Requisition for Equipment - Central Stores - Supply (02/03)	1505
(xxiv)	MCH 1286	Request for Financial Approval (Standard and Non-Standard Schemes) and Bulk Purchase Equipment Order (02/03)	1505

8. (05/01) TRANSPORT RESEARCH LABORATORY REPORTS
(Published by TRL (formerly TRRL) and by The *Stationery Office (formerly HMSO))

			Specification Clause/Table/ Appendix
(i)	CR54	Soil corrosivity assessment - D Eyre and D A Lewis	Table 6/3
(ii)	TRL273	Use and application of the MCA with particular reference to glacial tills - G D Matheson and M G Winter.1997	632SE
(iii)	PA3287/97	Repeated load test with vacuum confinement - M Nunn	929 952
(iv)	RR57	Pervious macadam trials on trunk road A38 Burton Bypass, 1984 - M E Daines	938
(v)	RR323	Trials of porous asphalt and rolled asphalt on the A38 at Burton - M E Daines	938
(vi)	*Road Note 36	Specification for the manufacture and use of rubberised bituminous road materials and binders. (2nd Edition) 1968 Road Research Laboratory	938

9. (05/01) ACTS AND STATUTORY INSTRUMENTS

			Specification Clause/Table/ Appendix
(i)		The Construction (General Provisions) Regulations. 1961	607
(ii)		The 'Zebra, Pelican and Puffin' Pedestrian Crossings Regulations and General Directions. 1997	104 1201 1201NAW
(iii)		The Traffic Signs Regulations and General Directions. 2002 (08/03)	104 117 1201 1212 1213 1214 1215 1216 1201NAW
(iv)		The Traffic Signs (Welsh and English Language Provisions) Regulations and General Directions. 1985	1201NAW
(v)		The Electricity at Work Regulations. 1989	1401
(vi)		Construction Products Directive (89/106/EEC)	104 104NI
(vii)		Note: The 'Essential Requirements' are reproduced in Schedule 2 of The Construction Products Regulations. 1991 Personal Protective Equipment Directive (89/686/EEC)	117 117NI
(viii)		Traffic Signs (Welsh and English Language Provisions) Regulations 1985	1201NAW

(ix)	The Construction (General Provisions) Regulations (Northern Ireland) 1963	607NI
(x)	The 'Zebra' Pedestrian Crossings Regulations (Northern Ireland) 1974	104NI 1201NI
(xi)	The Traffic Signs Regulations (Northern Ireland) 1997	104NI 117NI 1201NI 1212NI 1213NI 1214 1215 1216
(xii)	The 'Pelican' Pedestrian Crossings Regulations (Northern Ireland) 1989	104NI 1201NI
(xiii)	The Electricity at Work Regulations (Northern Ireland) 1991	1401NI
(xiv)	Road Vehicles Lighting Regulations (Northern Ireland) 2000	117NI
(xv)	Wildlife and Countryside Act 1981	3002
(xvi)	Weeds Act 1959	3002
(xvii)	Protection of Badgers Act 1992	3003

10. (05/01) QUALITY MANAGEMENT SCHEMES PUBLICATIONS

		Specification Clause/Table/ Appendix
(i) UNITED KINGDOM ACCREDITATION SERVICE (UKAS) SECTOR SCHEMES DOCUMENTS PUBLICATIONS		
Scheme 2	Supply and Erection of Fences	
Scheme 2A	Sector Scheme Document for The Design and/or Supply, Installation and Repair of Fences	Appx A
Scheme 2	Supply and Erection of Fences	
Scheme 2B	Sector Scheme Document for Vehicle Restraint Systems	Appx A
Scheme 4	Sector Scheme Document for Preservative Treatment of Timber (BWPDA Guidance Note QGN -2)	Appx A
Scheme 6	Sector Scheme Document for The Manufacture, Supply and Verification of Lighting Columns and Bracket Arms	Appx A
Scheme 7	Sector Scheme Document for The Application of Road Marking Materials and Road Studs to Road Surfaces	Appx A
Scheme 12	Temporary Traffic Management	
Scheme 12A	Sector Scheme Document for The Static Temporary Traffic Management on Motorways and High Speed Dual Carriageways for Schemes Incorporating Contraflow Operations and/or temporary road markings (08/03)	117 117NI Appx A
Scheme 12B	Sector Scheme Document for Static Temporary Traffic Management on Motorways and High Speed Dual Carriageways for Schemes not Incorporating Contraflow Operations and/or temporary road markings	Appx A

Scheme 12C	Sector Scheme Document for Mobile Lane Closures Temporary Traffic Management on Motorways and Dual Carriageways	Appx A
Scheme 13	Sector Scheme Document for The Supply and Application of Surface Dressing to Road Surfaces	Appx A
Scheme 14	Sector Scheme Document for The Quality Assurance of the Production of Asphalt Mixes	Appx A
Scheme 15	Sector Scheme Document for The Supply of Paring Grade Bitumen (11/02)	Appx A

(ii) THE BRITISH STANDARDS INSTITUTION (BSI) PUBLICATIONS

Scheme 2	Supply and Erection of Fences	
Scheme 2A	Sector Scheme Document for The Design and/or Supply, Installation and Repair of Fences (QGN 5000/5)	Appx A
Scheme 5	Fabrication and Installation of Bridge Parapets and Cradle Anchorages (QGN 3204.2/194)	Appx A
Scheme 6	Sector Scheme Document for The Manufacture, Supply and Verification of Lighting Columns and Bracket Arms (QAS 5020/304)	Appx A
Scheme 8	Installation and Maintenance of Traffic Signals (QAS 3433/287)	Appx A
Scheme 10	Installation and Maintenance of Electrical Apparatus and Cabling for Highway Lighting and Traffic Signs (QAS 3480/376)	Appx A

(iii) LLOYD'S REGISTER QUALITY ASSURANCE LIMITED (LRQA) PUBLICATIONS

Scheme 1	Manufacture of Fencing Components (QSS 32042)	Appx A
Scheme 2	Supply and Erection of Fences	
Scheme 2A	Sector Scheme Document for The Design and/or Supply, Installation and Repair of Fences (QSS 680/2)	Appx A
Scheme 5	Fabrication and Installation of Bridge Parapets and Cradle Anchorages (QSS 32043)	Appx A
Scheme 6	Sector Scheme Document for The Manufacture, Supply and Verification of Lighting Columns and Bracket Arms (QSS 5020)	Appx A
Scheme 10	Installation and Maintenance of Electrical Apparatus and Cabling for Highway Lighting and Traffic Signs (QSS 620/2)	Appx A

(iv) NATIONAL QUALITY ASSURANCE (NQA) LIMITED PUBLICATIONS:

Scheme 8	Installation and Maintenance of Traffic Signals (QSS015)	Appx A
Scheme 10	Installation and Maintenance of Electrical Apparatus and Cabling for Highway Lighting and Traffic Signs (QSS014)	Appx A

(v) SGS Yarsley ICS LIMITED PUBLICATIONS:

Scheme 8	Installation and Maintenance of Traffic Signals (BN164/D)	Appx A
Scheme 10	Installation and Maintenance of Electrical Apparatus and Cabling for Highway Lighting and Traffic Signs (BN183D)	Appx A

(vi) ISOQAR LTD PUBLICATION:

Scheme 10	Installation and Maintenance of Electrical Apparatus and Cabling for Highway Lighting and Traffic Signs (QAR154)	Appx A
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(vii) BM TRADA/CQA PUBLICATIONS:

Scheme 5	Fabrication and Installation of Bridge Parapets and Cradle Anchorages (SFSS5)	Appx A
Scheme 10	Installation and Maintenance of Electrical Apparatus and Cabling for Highway Lighting and Traffic Signs (28.HW.001)	Appx A

(viii) UK CERTIFICATION AUTHORITY FOR REINFORCING STEELS (CARES) PUBLICATION

Scheme 11	Supply and Installation of Post-Tensioning Systems in Concrete Structures	Appx A
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11. (05/01) BRITISH BOARD OF AGREMENT CERTIFICATES:

Available from the British Board of Agrément,
PO Box No. 195, Bucknalls Lane, Garston,
195 Bucknalls Lane, Garston, Watford, Herts, WD25 9BA
Telephone: + 44 (0) 1923 665300
Facsimile: + 44 (0) 1923 665301
E Mail: mail@bba.star.co.uk

**Specification
Clause/Table/
Appendix**

(a) Agrément Certificates	1001 1017
(b) Roads and Bridges Certificates	104 104NI 501 508 508NI 514 515 518 1001 1017 1530 1716 2003 2005 2501 2502 Appx C

(c) HAPAS-Roads and Bridges Certificates

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Table 9/8
Table 9/9
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12. (05/01) MISCELLANEOUS

		Specification Clause/Table/ Appendix
(i)	The American Association of State Highway and Transportation Officials Standard ASHTO M36M-89I: Specification for Metallic (Zinc or Aluminium) Coated Corrugated Steel Culverts and Underdrains. 1989	Table 5/1
(ii)	The American Association of State Highway and Transportation Officials Standard M190-80: Specification for Bituminous Coated Corrugated Metal Culvert Pipe and Pipe Arches. 1980	501
(iii)	The American Association of State Highway and Transportation Officials Standard M274-87I: Interim Specification for Steel Sheet Aluminous Coatings for Corrugated Steel Pipes. 1987	501
(iv)	The American Society for Testing and Materials ASTM Standard A325 - 02: Specification for High-Strength Bolts for Structural Steel Joints. 2002 (02/03)	1803 Appx A
(v)	The American Society for Testing and Materials ASTM Standard C413-83: Test Method for Absorption of Chemical Resistant Mortars Grouts and Monolithic Surfacing. 1983	2601
(vi)	The American Society for Testing and Materials ASTM Standard C-827-87: Test Methods for Early Volume Changes of Cementitious Mixtures. 1987	2601
(vii)	The American Society for Testing and Materials ASTM Standard C939-87: Test Method for Flow of Grout for Preplaced Aggregate Concrete. 1987	2601
(viii)	The American Society for Testing and Materials ASTM Standard D2628-81: Specification for Preformed Polychloroprene Elastomeric Joint Seals for Concrete Pavements. 1981	1017
(ix)	The American Society for Testing and Materials ASTM Standard D2872-88 Test Method for Effect of Heat and Air on a moving film of Asphalt	923 926

(x)	The American Society for Testing and Materials ASTM Standard D4533 - 85	514
(xi)	The American Petroleum Institute Specification for Line Pipe (API Specification 5L).	1606
(xii)	The American Iron and Steel Institute (AISI) Specification: Standard Steels	1207 1312
(xiii)	Engineering Recommendation G.39/1, 1992 Model Code of Practice. Covering Electrical Safety in the Planning, Installation, Commissioning and Maintenance of Public Lighting and Other Street Furniture Published by The Electricity Association Services Ltd, 30 Millbank London SW1P 4RD. Tel. 020-7963-5801	1401 1401NI
(xiv)	Guidance for Safer Temporary Traffic Management issued jointly by the Highways Agency, CSS (formerly County Surveyors Society), and the Health and Safety Executive. Hard copies available from TRL Ltd. Digital copy is available on the Highways Agency website Guidance for Safer Temporary Traffic Management - Issued 2002 (http://www.highways.gov.uk/aboutus/corpdocs/gstt_may_02/index.htm) (08/03)	117 117NI
(xv)	Temporary Traffic Management on High Speed Roads Good Working Practice issued jointly by the Highways Agency, the Roads Service, the National Assembly for Wales, the Scottish Executive, CSS (formerly County Surveyors Society), the Health and Safety Executive, the Association of Chief Police Officers and Industry representatives. Hard copies available from TRL Ltd. (08/03) Digital copy is available on the Highways Agency website: Temporary Traffic Management on High Speed Roads - Good Working Practice (http://www.highways.gov.uk/aboutus/corpdocs/ttm_sept_02/index.htm) (08/03)	117 117NI
(xvi)	Engineering Equipment and Material Users Association, Drilling Fluid Materials, Publication No. 163, Bentonite	1618
(xvii)	Department of Housing and Construction, Commonwealth of Australia, Standard Specifications RA SS 106 and MT RA 100	1017
(xviii)	Maps of the British Geological Survey	601
(xix)	Publication CIE No 54. Retro-reflection, definition and measurement	1214
(xx)	Specification for the Reinstatement of Openings in Highways. Issued by the Highway Authorities and Utilities Committee	706 1043
(xxi)	Maps of the Geological Survey of Northern Ireland	601NI
(xxii)	SSD Application Guide No. 1 (revised 1989). Printed and Published by the Scottish Development Department	632SE
(xxiii)	Current Practice Sheet 3PC/06/01 "Thermal Movement of Concrete", by R D Brown, Concrete Journal 1972	1039
(xxiv)	Code of Practice on Health and Safety for Vehicle Recovery Operations Published by the Association of Vehicle Recovery Operators	117 117NI 120

(xxv)	National Joint Utilities Group Publication No. 4	1421 1530
(xxvi)	Concrete Society Technical Report No. 47: Durable Bonded Post-Tensioned Concrete Bridges.	1711 Appx A
(xxvii)	'Quality Control - Production of Recycled Aggregates' Published by Construction Research Communications (CRC), 151 Rosebery Avenue, London EC1R 4GB (ISBN 1 86081 381 X), published March 2000	710
(xxviii)	Special Digest SDI 'Concrete in aggressive ground' (Published in four parts) Building Research Establishment - August 2001 (05/02)	Table 17/4 Table 17/5 Table 17/6 Table 17/7
(xxix)	Joint Liaison Committee on Plant Suppliers Code of Practice for Plant Handling 1985	3010
(xxx)	Safety Guides published by the Forestry & Arboriculture Safety & Training Council (FASTCo) at 231 Corstorphine Road, Edinburgh, EH12 7AT	3010
(xxxi)	Arboriculture Research Note 48/83 'A definition of the best pruning positions' by D Lonsdale from Arboricultural Advisory and Information Service at Alice Holt Lodge, Wrecclesham, Farnham, Surrey, GU10 4LH	3010
(xxxii)	Arboriculture Research Notes on specific tree diseases: Note 46/91 'Anthracnose of London Plane' by R G Strouts Note 58/95 'Phytophthora root disease' by R G Strouts Note 79/89 'Scab and Black Canker of Willow' by D R Rose Note 111/92 'Bleeding canker of Caucasian Lime (Tilia x euchlora)' by J N Gibbs Note 118/94 'Fireblight of ornamental trees and shrubs' by R G Strouts	3010 3010 3010 3010 3010
(xxxiii)	Arboriculture Research and Information Notes on specific tree diseases: Note 122/94 'The horse chestnut scale: a pest of town trees' by D Wainhouse Note 124/94 'The Asian strain of Gypsy Moth, Lymantria dispar: a significant threat to trees' by T G Winter and H F Evans from Arboricultural Advisory and Information Service at Alice Holt Lodge, Wrecclesham, Farnham, Surrey, GU10 4LH	3010 3010 3010
(xxxiv)	Society of Steel Construction of Japan Document JSS II - 09 - 1996 (02/03)	1803
(xxxv)	Concrete Society Report CS/101	1714