# MANUAL OF CONTRACT DOCUMENTS FOR HIGHWAY WORKS VOLUME 1 SPECIFICATION FOR HIGHWAY WORKS

# SERIES 000 INTRODUCTION

## **Contents**

Clause	Title	Page
000	Introduction	2
001	National Alterations of the Overseeing Organisations of Scotland, Wales and Northern	
	Ireland	2
002	Terms and Abbreviations	2
003	Appendices	2
004	British Standards, British Standard Codes of Practice, Harmonised European	
	Standards, European Standards and Other Reference Documents	2
005	Thickness of Material and Tolerances	3
006	Acknowledgements	3

March 1998 1

# **INTRODUCTION**

#### 000 Introduction

- 1 (05/01) The Specification for Highway Works is published as Volume 1 of the Manual of Contract Documents for Highway Works and in addition to the Introduction contains 27 Series and 8 Lettered Appendices.
- 2 Reference should be made to the Schedule of Pages and Relevant Publication Dates in the Contract to determine the publication date of each page of the Specification for Highway Works applicable to the Contract.

# 001 National Alterations of the Overseeing Organisations of Scotland, Wales and Northern Ireland

1 (02/03) Additional and Substitute specification requirements of the Scottish Executive Development Department, the Welsh Assembly Government and the Department for Regional Development, a department of the Northern Ireland Executive, are contained within Volume 1 of the Manual of Contract Documents for Highway Works. These Additional and Substitute Clauses are identified by the suffix SE, NAW or NI respectively and are located immediately after the end of each Series or Lettered Appendix of the Specification.

Unless stated otherwise in Appendix 0/5, these Clauses are deemed to be included in contracts administered by the above Overseeing Organisations. Clauses with suffix SE, NAW or NI are deemed to replace Clauses of equal number but without suffix.

#### 002 Terms and Abbreviations

1 (02/03) Unless specifically defined otherwise the definitions of terms used in the Specification and associated documents are those in BS 6100, Glossary of Building and Civil Engineering Terms.

The term Overseeing Organisation means the Highways Agency, the Scottish Executive Development Department, the Welsh Assembly Government or the Department for Regional Development, depending on which is responsible for the Contract.

2 Abbreviations are in accordance with the recommendations given in BS 5775. Abbreviations listed in Table 0/1 have the meanings shown therein.

# 003 Appendices

- 1 Appendices identified by the letters A to H contain standard information and requirements.
- 2 Numbered Appendices (identified by digits, eg 17/2) contain Contract-specific information and requirements. The Numbered Appendices incorporated in the Contract are listed in Appendix 0/3.

# 004 British Standards, British Standard Codes of Practice, Harmonised European Standards, European Standards and Other Reference Documents

- 1 (05/01) The following publications to which reference is made in the Specification are listed in Appendix F:
  - (i) British Standards;
  - (ii) British Standard Drafts for Development (DD) Documents;
  - (iii) European Standards;
  - (iv) International Standards;
  - (v) 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;
  - (vi) UK Overseeing Organisations Publications including their Predecessor's Publications;
  - (vii) Highways Agency (TSS Division) Publications;
  - (viii) Transport Research Laboratory Reports;
  - (ix) Acts and Statutory Instruments;
  - (x) Quality Management Schemes Publication;
  - (xi) British Board of Agrément Certificates;
  - (xii) Miscellaneous.

### TABLE 0/1: (02/03) Abbreviations

AASHTO AMORITION AMERICAN ASSOCIATION of State Highway and Transportation Officials AAV Aggregate Abrasion Value AISI American Iron and Steel Institute AMD Amendment to British Standard ASR Alkali Silica Reaction ASTM American Society for Testing and Materials BBA British Board of Agrément BRE Building Research Establishment Ltd BS British Standard Institution CBM Cement Bound Material CBR California Bearing Ratio CHS Circular Hollow Section CP British Standard Code of Practice EN European Standard FTD Flat Traffic Delineator HAPAS Highway Authorities Product Approval Scheme HCD Highway Construction Details HMSO/TSO Her Majesty's Stationery Office/The Stationery Office HSE Health and Safety Executive International Organization for Standardization MCV Moisture Condition Value MDPE Medium Density Polyethylene NG Notes for Guidance on the Specification for Highway Works PC Portland Cement PRD Percentage Refusal Density PSV Polished Stone Value PVC Polyvinyl Chloride RHS Rectangular Hollow Section SHW Specification for Highway Works SI Statutory Instrument SMC TRL (formerly TRRL)  UKAS United Kingdom Accreditation Service UKAS United Kingdom Accreditation Service UKAS United Kingdom Accreditation Service UNITED Condition of painty in thickness ggbs mc moisture content minimum dry film thickness (of paint) optimum moisture content pfa	Abbreviation	Meaning
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ASR ASTM American Society for Testing and Materials BBA British Board of Agrément BUILDING Research Establishment Ltd BS British Standard BSI California Bearing Ratio CHS CIrcular Hollow Section CP British Standard Code of Practice EN European Standard FTD Flat Traffic Delineator HAPAS Highway Authorities Product Approval Scheme HCD Highway Construction Details HMSO/TSO Her Majesty's Stationery Office/The Stationery Office HSE Health and Safety Executive International Organization for Standardization MCV MOPE Medium Density Polyethylene NG Notes for Guidance on the Specification for Highway Works PC Portland Cement PRD Percentage Refusal Density PSV Polished Stone Value PVC Polyvinyl Chloride RHS Rectangular Hollow Section SHW Specification for Highway Works SI Statutory Instrument SMC TRL (formerly TRRL) Transport Research Laboratory (formerly Transport and Road Research Laboratory) UKAS PVC-U Unplasticised Polyvinyl Chloride Cross-linked Polyethylene  DC direct current dry film thickness ggbs mc moisture content minimum dry film thickness (of paint) optimum moisture content	AISI	American Iron and Steel Institute
ASTM  American Society for Testing and Materials  BBA  BRE  Building Research Establishment Ltd  BS  British Standard  BSI  British Standards Institution  CBM  Cement Bound Material  CBR  California Bearing Ratio  CHS  Circular Hollow Section  CP  British Standard Code of Practice  EN  European Standard  FTD  Flat Traffic Delineator  HAPAS  Highway Authorities Product Approval Scheme  HCD  Highway Construction Details  HMSO/TSO  Her Majesty's Stationery Office/The Stationery Office  HSE  Health and Safety Executive  ISO  International Organization for Standardization  MCV  Moisture Condition Value  MDPE  Medium Density Polyethylene  NG  Notes for Guidance on the Specification for Highway Works  PC  Portland Cement  PRD  Percentage Refusal Density  PSV  Polished Stone Value  PVC  Polyvinyl Chloride  RHS  Rectangular Hollow Section  SHW  Specification for Highway Works  SI  Statutory Instrument  SMC  TRL (formerly TRRL)  Transport Research Laboratory  (formerly Transport and Road Research Laboratory)  UKAS  PVC-U  Unplasticised Polyvinyl Chloride  Cross-linked Polyethylene  DC  direct current  dry film thickness  ggbs  ground granulated blastfurnace slag  moisture content  minimum dry film thickness (of paint)  optimum moisture content	AMD	Amendment to British Standard
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omc optimum moisture content		
		=
pulverised-fuel ash		
	ріа	pulverised-tuel asn

- 2 British Standards and British Standard Codes of Practice incorporated in the Contract by a reference which does not include a date shall be the respective editions current on the date stated in the Contract, and incorporating all British Standards Institution amendments current on that date. British Standards and British Standard Codes of Practice incorporated in the Contract by a reference that includes a date shall be deemed to exclude British Standards Institution amendments issued after that date except any such amendments shown in brackets immediately following the stated date.
- 3 In respect of all other references the date of the edition applicable to the Contract shall be that stated in Appendix F or, where no date is stated, the date of the edition current on the date stated in the Contract and incorporating all published amendments current on that date.
- 4 Where a British Standard incorporated in the Contract has been superseded by a Harmonised European Standard, or a European Standard, issued prior to the date stated in the Contract then such Harmonised European Standard or European Standard shall be substituted for the British Standard and any amendments thereto contained in the Specification.

#### 005 Thickness of Material and Tolerances

- Unless stated to the contrary, the thickness of material described shall mean the finished or compacted thickness.
- The requirements for tolerances, where necessary, are incorporated in the Specification, on the Drawings and by reference in the publications listed in Appendix F.

#### 006 Acknowledgements

- 1 (05/01) The Overseeing Organisations acknowledge the permission given by:
  - (i) the British Standards Institution for reprinting extracts from BS 594, BS 812, BS 1722, BS 5400, BS 5649 and BS 6779.