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# Euro asphalt Implementation in the UK

Bob Noakes

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# What it's all about

- EU Legislation
- What went on
- What have we achieved
- What does it mean for you

# Legislation

- Construction Products Directive CPD
- Council Directive 89/106/EEC of 21 December 1988 on the approximation of laws, regulations and administrative provisions of the Member States relating to construction products

This directive has been amended by the following Council Directives:

1. 1992 Product Safety;
2. 1993 CE Marking.

# Committee Structure

- CEN TC 227
- WG1
- TG1,2,3,4

## UK Mirror committees

- BSI B510
- B510/1
- WG1,2

# UK contributors

- National Government
- Local Government
- Consultants
- Contractors
- Materials Industry
- Certification Bodies
- Research Institutes
- Experts

# What went on



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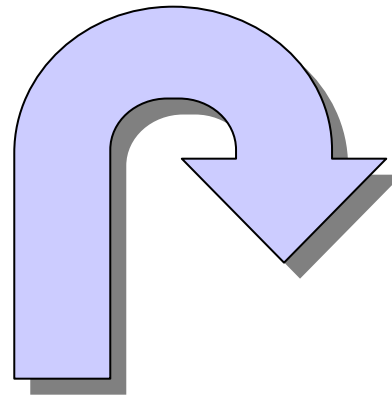
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# What has UK been doing

- Revision of British Standards
- QA in production SS 14
- BBA/HAPAS
- QA installation SS16

# What have we got out of it all

- Asphalt , very much the same as we had before ;
- But not quite





# Procurement

- EU legislation enforces the CPD to be used in all Public Procurement
- Contract requirements are not included in the European Standards

# A change in the marketplace

- EN 13108 specifications do not have the same legal status as British Standards
- They are requirements which manufacturers must meet in order to place products onto the market
- Trading Standards legislation

# BSI Ten Steps to Heaven

- **STEP 1: IDENTIFY THE DIRECTIVES THAT ARE APPLICABLE TO YOUR PRODUCT.** YOU CAN DOWNLOAD THESE DIRECTIVES FREE OF CHARGE FROM THE EU WEBSITE
- **STEP 2: IDENTIFY THE CONFORMITY ASSESSMENT PROCEDURE THAT MUST BE TAKEN.** THIS COULD BE SELF-DECLARATION, INVOLVE TESTING INSPECTION OR QUALITY SYSTEM ASSESSMENT FROM A NOTIFIED BODY OR A COMBINATION OF THESE.
- **STEP 3: DETERMINE THE DATES BY WHICH YOU MUST TAKE ACTION.** THIS WILL BE THE DATE THAT THE DIRECTIVE COMES INTO FORCE., IT IS AN OFFENCE TO PLACE A PRODUCT ON THE MARKET WITHOUT CE MARKING BECAUSE IT INDICATES A PRESUMPTION OF CONFORMITY WITH ALL RELEVANT LEGISLATION.
- **STEP 4: IDENTIFY IF THERE ARE ANY HARMONISED EUROPEAN STANDARDS APPLICABLE TO YOUR PRODUCT.** THESE ARE NOT ALWAYS MANDATORY FOR MANUFACTURERS ALTHOUGH THERE IS A PRESUMPTION THAT CONFORMITY TO THESE STANDARDS WILL GIVE CONFORMITY WITH THE RELEVANT PART OF THE DIRECTIVE..
- **STEP 5: ENSURE THE PRODUCT COMPLIES WITH ALL THE ESSENTIAL REQUIREMENTS OF THE DIRECTIVE(S).**

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- **STEP 6: IDENTIFY WHETHER INDEPENDENT ASSESSMENT OF YOUR CONFORMITY TO THE DIRECTIVE, OR SOME ASPECTS OF IT, IS REQUIRED FROM A NOTIFIED BODY. THIS WILL BE STATED IN THE DIRECTIVE AND IS DEPENDENT UPON THE PRODUCT YOU ARE CE MARKING. YOU MUST NOT AFFIX CE MARKING TO YOUR PRODUCT UNTIL ALL NECESSARY CERTIFICATIONS HAVE BEEN OBTAINED FROM THE NOTIFIED BODY.**
- **STEP 7: MAINTAIN TECHNICAL DOCUMENTATION REQUIRED BY THE DIRECTIVE(S).** YOUR TECHNICAL DOCUMENTATION SHOULD SUPPORT YOUR COMPLIANCE WITH THE REQUIREMENTS OF THE DIRECTIVE. IT IS ESSENTIAL TO RETAIN THIS DOCUMENTATION.
- **STEP 8: PREPARE THE DECLARATION OF CONFORMITY AND THE REQUIRED SUPPORTING EVIDENCE.** THE DECLARATION OF CONFORMITY ALONG WITH THE TECHNICAL DOCUMENTATION SHOULD BE AVAILABLE TO COMPETENT AUTHORITIES (EU MEMBERS) UPON REQUEST.
- **STEP 9: CHECK THAT NO OTHER PURELY NATIONAL REQUIREMENTS EXIST IN THE COUNTRIES WHERE THE PRODUCT WILL BE SOLD. THESE MAY INCLUDE NATIONAL STANDARDS, LABELLING OR PACKAGING REQUIREMENTS.**
- **STEP 10: AFFIX CE MARKING ON YOUR PRODUCT AND/OR ITS PACKAGING AND ACCOMPANYING LITERATURE AS STATED IN THE DIRECTIVE.**

# What have we got

- The 13108 series
- 8 product standards
- 2 production standards
- The 12697 series 43 testing standards
- PD 6691 UK National guidance asphalt
- PD 6692 UK National guidance tests
- BS 594987 installation

# PD6691

- Gives a **one-to-one** equivalence between mixtures specified with BS 594 and 4987 and those specified to BS EN 13108.
- **Annex B** gives example specifications for Asphalt Concrete (BS 4987 Macadam) and EME2.
- **Annex C** gives example specifications for Hot Rolled Asphalt. BS 594
- **Annex D** gives example specifications for Stone Mastic Asphalt.
- The specifications work in a slightly different way to the old British Standards and specifiers are recommended to read this Guidance Document in full.

# *Mix designation*

- The BS EN13108-1 mix designation consists of the minimum four sections as below:
  - **AC**     **D**                                     **base/bin/surf**                                     **binder**
  - Where:     **AC**                                     denotes Asphalt Concrete,
  - **D**                                     is the upper sieve size of the mix, in mm
  - **base**                                     denotes base course
  - **bin**                                     denotes binder course
  - **surf**                                     denotes surface course
  - **binder**                                     is the designation of the binder used

# Extra info

- UK also included other descriptors for clarity eg, DBM, Open-graded macadam, Dense surface course, .
- **AC 20 dense bin 100/150 des**
- Dense Asphalt Concrete with maximum aggregate size 20mm for binder course with paving grade bitumen, grade 100/150, designed target grading
- BS 4987, Clause 6.5, Table 15 (and Table C.2) as: 0/20mm DBM 125 design binder course or 0/20 DBM 125 des,



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# BS 594987

- This is the baseline document for all asphalt works.
- Applies principally to Parts 1, 4 and 5 of BS EN 13108 relating to Asphalt Concrete, Hot Rolled Asphalt (including application of coated chippings to provide texture for skid resistance) and Stone Mastic Asphalt,
- Applies from the point of collection from the production plant until the materials are in-situ and ready to receive a further superimposed layer or traffic.

# Specification for Highway Works

- Revised by Interim Advice Notes IAN 101/07 Feb 08 and IAN 102/07.
- Incorporates new terminology ,BS 594987 as well as additional requirements for bonding and sealing of pavement layers.
- New SHW clauses 903, 929, 930 and 937 contain more onerous requirements for asphalt used in HA highway works.

# What does it mean for me

- Client , Specifier , Contractor , Supplier
- Is there more/less risk
- Specifiers/Contractors need to learn the new requirements
- Suppliers are the industry sector which has the responsibility for putting the products on the market so are at the forefront

# Contract Documentation for review and amendment

- Adopted works contracts (Section 278, 106, 38)
- Capital Works Contracts
- Maintenance Works Contracts
- Specifications
- Notes for Guidance
- Standard Drawings
- Detail Drawings
- Bills of Quantities
- Orders to Contractors
- HAUC
- Property related specifications e.g. education, sports, footways and cycleways
- Public Rights of Way

# Summary general

- *The contract types used*
- *What mixture types and aggregate sizes are used*
- *Fundamental or empirical approach for asphalt concrete*
- *Which test options will be recommended*
- *What properties will not be required and which classes recommended for the others*
- *How is the national advice promulgated*
- *How are the standards linked into application*

# Summary UK

- CPD / EU procurement
- CEN Committees
- PrEN 13108, 12697, PD's new BS
- BS 594987, PD6691 Annexes are all you need

# Thanks for listening



Bob Noakes