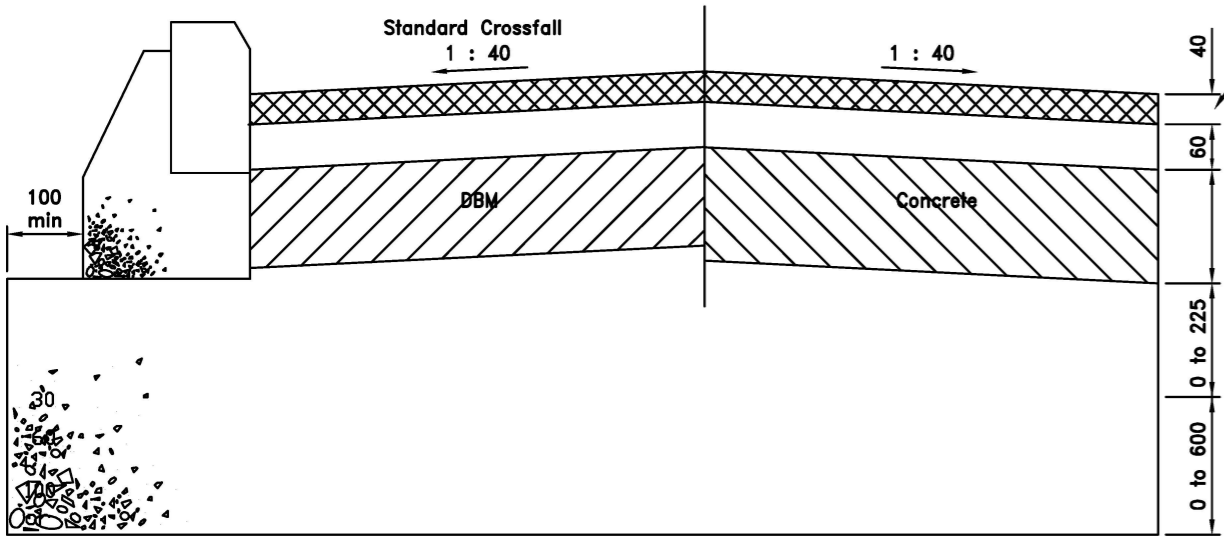


Drawing Number  
**SD/900/2D**



Surface course AC10 close surf 100/150 or HRA 30/14 F surf 40/60 + PCC  
 Binder course AC20 dense bin 100/150 or HRA 60/20 bin 40/60  
 Base course AC32 HDM base 40/60 or HRA 60/32 base 40/60 (30/45)  
 Granular Sub-base material Type 1 (see Note 13)  
 Thickness dependent on CBR of sub-grade  
 Granular capping layer (see Note 13)  
 Thickness dependent on CBR of sub-grade

- Notes
- All dimensions are in millimetres
  - Lower grade binders may only be used with the approval of the Engineer.
  - Where the nominal size of the aggregate has not been specified the Developer shall comply with the particular requirements regarding depths of course and size of aggregates in the appropriate British Standards.
  - When the surface course is not laid immediately after the binder course, the binder course shall be blinded with coated grit complying with BS 594987 & BS EN 13108. Coated grit to be applied to the surface course where directed by the Engineer.
  - When the surface course is not laid immediately after the binder course, a tack coat complying with Class A1-40 or K1-40 of BS 434 Part 1 shall be applied at a uniform rate of spread of 0.35 l/m<sup>2</sup> or 0.55 l/m<sup>2</sup> prior to laying the surface course.
  - When the binder course is not laid immediately after the base, a tack coat shall be applied as above.
  - The aggregate in surface course materials shall have a minimum polished stone value of 50 and a maximum aggregate abrasion value of 14.
  - Gravel aggregates will not be permitted in bituminous materials.
  - Limestone aggregate will not be permitted in surface course of binder course material which is to be trafficked.
  - Sand fines will not be permitted in copated macadams.
  - Coated macadam must comply with BS 594897 & BS EN 13108.
  - Manhole covers should not be set until after the base material is laid.
  - Pavement construction thickness must be suitable for the anticipated traffic loadings and locations.
  - Testing to be in accordance with PD6692.

Test Result	CBR of sub-grade %	<=2	<=5	<=15	<=30	>30
Sub-base	Granular sub-base Type 1	150	150	225	150	0
Capping Layer	Granular sub-base Type 1 or material as specified below	600	350	-	-	-

Minimum total thickness 450 if sub-grade is frost susceptible  
 Surface course thickness may be increased to 45mm in cold weather conditions with the approval of the Engineer.  
 Binder course may then be reduced to 55mm.

If the Developer wishes to use a crushed rock, crushed slag, crushed concrete, broken brick or capping layer material which he considers may be suitable for the sub-base and complies in all respects to Type 1 sub-base except for grading, the Developer shall demonstrate its suitability together with the compaction plant he proposes to use by completing a trial area. The Engineer reserves the right to reject any material which is outside the specified gradings and costs in relation to trial areas, whether the material and the method of compaction is approved or rejected, shall be met by the Developer. The acceptance of material outside the specified gradings will require a 150 blinding layer of Type 1 material in order to reach the specified tolerances.

Do not scale this drawing

Rev	Date	Description	Checked
D	APR 19	Updated title block	NR
C	MAY 13	Minor amendments	KPT
B	MAR 11	Asphaltic concrete standards	KPT
A	MAR 08	Various minor amendments	KPT



Project  
**STANDARD DRAWINGS**

Title  
**PAVEMENT CONSTRUCTION THICKNESS  
MAJOR ACCESS ROADS**

Drawing No.  
**SD/900/2D**

Scale **NOT TO SCALE** Date **SEPT 1999**

**Department of Place,  
Planning & Regeneration**