



TABLE 1

CBR(%)	Sub base on Capping (mm)		Geotextile
	Sub base	Capping	
≤2	MKCC Senior Engineer to be Consulted		Yes
2 - 2.5	300	300	Yes
2.5 - 3	300	150	Yes
3 - 5	300	N/A	Yes
5≥	300	N/A	No*

*Unless there is built up ground, for additional stabilisation

- All sub base is to be Type 1 in compliance with MCHW: CC 201 clause 8.
- All capping is to be 6F2 or 6F5 in compliance with MCHW: CC 601 clauses 6.65 & 6.66.
- Grading certificates for all granular fill are to be provided for every 500 tonnes.
- Minimum total thickness to be 450 if subgrade is frost susceptible.
- Ground stabilisation may be used as an alternative to capping from formation CBRs of less than 2%. Proposal must be submitted to MKCC Senior Engineer for approval.
- CBR plate testing required on sub base to achieve a level of 15% and above.
- Air void testing required on all asphalt layers. DMRB (Design Manual for Roads and Bridges) or CC 202 in MCHW (Manual of Contract Documents for Highway Works) guidance to be followed.
- All testing to be undertaken at 25m intervals.
- Layby parking bay construction details to be same as adjacent road surface.

Layers	Residential distributor / primary street asphalt and Industrial carriageway	Residential asphalt carriageway	Grid roads carriageway
Surface Layer	45mm HRA 35/14 Surface Layer Polymer Modified Bitumen (PMB) with Pre-coated chipping 14/20 PSV 68. CC 202 CL 17&18	45mm HRA Surface Course Polymer Modified Bitumen (PMB) 10mm Nom. Size to CC 202 cl 14.	45mm HRA 35/14 Surface Layer Polymer Modified Bitumen (PMB) with Pre-coated chipping 14/20 PSV 68. CC 202 CL 17&18
Binder Course	60mm thick 20 nominal size Binder Course HDM50. CC 202 Cl. 13 & 14	60mm thick 20mm nom. size Binder Course. Type HDM50 to CC 202 Cl. 13 & 14	60mm thick 20 nominal size Binder Course HDM50. CC 202 Cl. 13 & 14
Base	145mm thick AC32 dense base 40/60 to BS EN 13108-1 CC 202 Cl. 8.2 & 19.3	105mm AC32 dense base 40/60 rec. to BS EN 13108-1 & CC 202 Cl. 8.2 & 19.3	250mm thick AC32 dense base 40/60 to BS EN 13108-1 CC 202 Cl. 8.2 & 19.3 - laid in 2x 125mm layers
Sub Base	300mm granular type 1 CC 201 Cl. 8.1	300mm granular type 1 CC 201 Cl. 8.1	300mm granular type 1 CC 201 Cl. 8.1

Further notes:

Coated chippings shall be 14/20 mm and comply with CC 202 Clause 17.6, 17.7 & 17.8 (MCHW) and conform to BS EN 13108-4, the detailed requirements in BSI PD 6691 Annex C clause C.2.8 and requirements specified in Appendix 7/1.

The shape of the chippings shall comply with Flakiness Index category FI20 as defined in BS EN 13043 clause 4.1.6

NOTES

1. All dimensions are in millimetres unless shown otherwise.
2. A bond coat shall be applied between all bituminous layers, when cold, in accordance with BS 594987.
3. When the surface course is not laid within 48 hours of the binder course, the binder course shall be blinded with coated grit complying with BS 594987 & BS EN 13108.
4. Manhole and gully covers should not be set until after the base material is laid.
5. To address site specific needs and localised material requirements, the Engineer reserves the right to vary the asphalt materials and layer depths specified.
6. When patching asphalt, any patch joint within 2.5m to be connected into 1 larger patch rather than multiple smaller patches.
7. Bitumen seals required on all asphalt vertical faces / over-banding may be required on horizontal faces with Senior Engineer discretion.
8. Sub base to extend behind kerb race 75mm per 1000mm width of surface for additional stability.
9. Texture depth:
Main Carriageway Including Roundabout Approach:
Minimum 1.2mm - Average 1.5mm - Maximum 1.8mm
Roundabout Circulatory:
Minimum 0.8mm - Average 1.2mm - Maximum 1.5mm
10. For further information refer to Standard Details Guidance Note drawing no. MKCC-100-001.
11. Tack coat to be applied prior to laying any upper bituminous layer.

<p>Highways and Transportation Civic Offices 1 Saxon Gate East Central Milton Keynes MK9 3EJ</p>	DRAWING TITLE:																
	Pavement Construction - Asphalt Carriageway																
	SCALE:	REV:		DRAWN:	CHECKED:	APPROVED:	REV:	AMENDMENTS:	DRN:	CHCK'D:	APPR'D:	DATE:					
	NTS	P02		PG	JM	LS											00/00/0000
			INITIALS:				DRAWING NO:										
			DATE:	13/02/2026	17/03/2026	17/03/2026	MKCC-700-001										

