

Detail considerations

Movement & construction joints

Where movement joints are required within the structure to be tanked with mastic asphalt, compatible waterproof movement joints must be incorporated at the same positions.

Construction joints should be kept to a minimum. Their probable position should be foreseen when the design is being prepared and details of the joints shown on the drawings. They should be designed to provide thorough keying of the faces of the concrete and may include the provision of water bars if necessary to prevent the ingress of water.

Separating membranes

Mastic asphalt tanking is normally laid without a separating membrane. However, where excessive 'blowing' is experienced in the first horizontal coat of mastic asphalt, the use of a glass fibre tissue separating membrane with 50mm laps may be considered. 'Blowing' may occur if the surface is damp, or occasionally on concrete in exceptionally dry weather or on dusty surfaces.

Fillets

Fillets should be formed with a solid angle of tanking grade mastic asphalt, in two coats, with a minimum of 40mm on the face, at approximately 45°.

Chases

Chases should be provided in brickwork and concrete and should be 25mm x 25mm. The lower nib of the chase should be carefully removed in order to maintain a full thickness of mastic asphalt at this point. The chase should be pointed as soon as practical after asphalting using a cement, sand, mortar containing a suitable polymer admixture such as styrene butadiene rubber or acrylic.

Service pipes

Continuity of tanking and linings must, in all cases, be ensured and for this reason the penetration of the tanking by service or other pipes, cables etc. should be avoided and special provision should be made.

Pile caps

To ensure continuity of the mastic asphalt tanking in a basement supported on piled foundations it is essential that there should be a complete separation between the floor of the basement and the pile caps. The mastic asphalt tanking should be laid as a continuous membrane over the entire area of the basement floor and the provisions of BS 8102 should be fully implemented.