

Mastic asphalt roofing

General

Mastic asphalt roofing should be installed in accordance with the recommendations of BS 8128:1998 - Code of Practice for Mastic Asphalt Roofing. The number of coats should be appropriate to the waterproofing requirements and traffic conditions of the roof.

Horizontal, sloping and vertical surfaces

Horizontal surfaces up to & including 10° pitch

On horizontal surfaces up to and including 10° pitch the mastic asphalt should be laid in two coats to a thickness of 20mm on a separating membrane of sheathing felt. In general, difficulties can be experienced in laying mastic asphalt directly over insulants to surfaces over 5° pitch.

Sloping and vertical surfaces over 10° pitch, other than timber or lightweight concrete and excluding skirtings

On sloping and vertical surfaces over 10° pitch the mastic asphalt should be laid in three coats to a thickness of 20mm without a separating membrane.

Sloping and vertical surfaces of timber or lightweight concrete over 10° pitch, including skirtings

On sloping and vertical surfaces of timber or lightweight concrete the mastic asphalt should be laid in three coats to a thickness of 20mm on expanded metal lathing over a separating membrane of sheathing felt.

Horizontal surfaces designed as inverted roofs, roof gardens, reservoirs or buried waterproofing

On horizontal surfaces designed as inverted roofs, green roofs, reservoirs or buried waterproofing, the mastic asphalt should be laid in three coats to a thickness of 30mm over a separating membrane of glass fibre tissue. Alternatively, a fully bonded system may be installed, consisting of one layer sheet membrane bonded to deck covered with mastic asphalt in two coats 20mm thick.

Mastic asphalt air & vapour control layer

A mastic asphalt vapour barrier should be laid in one coat not less than 10mm thick on a glass fibre tissue.

Planters / Roof gardens

Waterproofing should be applied horizontally and vertically to the inside and outside faces of planters. If it is only intended to provide a minimum 150mm skirting to the outside face of planters, consideration should be given to the provision of damp-proof courses or cavity trays within the planter walls. Within planters, the mastic asphalt should be protected from backfilling and subsequent digging operations by concrete slabs, non biodegradable boards or similar means.

Skirtings and upstands

Skirtings and upstands other than timber or lightweight concrete

On skirtings and upstands up to 300mm high the mastic asphalt should be applied in two coats to a thickness of 13mm. Where skirtings and upstands are over 300mm high the mastic asphalt should be applied in three coats to a thickness of 20mm.

NOTE: Two coat work may be permissible to vertical upstands in excess of 300mm in areas such as tank rooms and mechanical services areas where the appearance of the finished work is not of paramount importance, or where the mastic asphalt will be subsequently covered by inverted roof boards, cladding etc.

Skirtings and upstands of timber and lightweight concrete

On skirtings and upstands of timber or lightweight concrete the mastic asphalt should be applied in three coats to a thickness of 20mm, on expanded metal lathing over a separating membrane of black sheathing felt.

Skirtings and upstands on expanded metal lathing to concrete, brick or blockwork

In certain circumstances it may be necessary to incorporate expanded metal lathing to concrete, brickwork or blockwork. In these situations the mastic asphalt should be applied in three coats to a thickness of 20mm including a separating membrane of sheathing felt, where required.