

Surface protection

General

All asphalt roofing, including upstands, should be protected against static point loading and mechanical damage.

On inverted roofs, the ballast and insulation will provide protection to the mastic asphalt. The insulation and ballasting should be installed as soon as is practically possible and after any waterproofing integrity testing of the membrane has been carried out. Care should be taken to provide adequate protection at upstands.

Sand rubbing

To minimise surface crazing on horizontal and slightly sloping surfaces, immediately after completion of laying and whilst the mastic asphalt is still warm, clean sharp sand should be rubbed evenly into the surface of the mastic asphalt with a wooden float.

Promenade surfacing

On terrace/balcony roofs where point loading is anticipated, a suitable tile should be laid in accordance with manufacturer's instructions. Alternatively, other forms of paving may be laid in a cementitious bedding on an isolating membrane.

Vertical and sloping surfaces

On vertical and sloping surfaces, exposed upstands, kerbs etc. a suitable solar reflective paint may be used.

Solar protection

Various methods of reducing solar gain may be adopted, and should follow the laying of the mastic asphalt without undue delay.

In a warm roof construction it is essential to provide efficient solar protection to the mastic asphalt which should be applied as soon as possible after the mastic asphalt has been laid.

On horizontal surfaces this should be by the application of one of the following:

- a. Solar reflective paint (not metal or water-based), applied in accordance with manufacturer's recommendations. Maintenance will also be necessary in accordance with the paint manufacturer's requirements.
- b. Stone chippings of limestone, granite, gravel, calcined flint, calcite, feldspar or similar of 10-14mm nominal size, free from dust, bedded in a suitable compound.
- c. Stone aggregate of 20mm nominal size, loose laid, but secured around outlets etc.
- d. Light coloured pedestrian tiles fixed in suitable adhesive in accordance with tile manufacturers' recommendations particularly when point loading is expected.
- e. Concrete paving slabs bedded in cement, sand, mortar on a loose laid isolating membrane.

