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MonarTile 1F Underslating Felt

Pitched Roofing Systems

Description

MonarTile 1F is a traditional bitumen pitched roofing undertile lining manufactured to the former British Standard BS 747 Type 1F (now withdrawn). The carrier consists of an absorbent sheet of organic fibres, saturated and coated with bitumen combined with a layer of jute hessian embedded in the coating on one side of the felt, so as to reinforce and strengthen the sheet. The surface is then finished with sand to prevent sticking in the roll.

Intended Use

MonarTile 1F is a traditional bituminous membrane intended as an underlay for discontinuous roofing for use in application on pitched roofs over rafters or fully supported on timber sarking in ventilated roof constructions.

Weathertightness

MonarTile 1F will provide protection from the weather during installation of the primary roof covering, however it is recommended that the membrane is covered as soon as possible.

The use of a sacrificial temporary roof covering should therefore be considered if prolonged periods of exposure are expected.

Due to nature of installation a pitched roof underlay is not a complete waterproof barrier and some rain penetration may occur.

Typical Specification

Pitched roof underlay to be MonarTile 1F, as manufactured by Icopal Limited, Barton Dock Road, Stretford, Manchester, M32 0YL. The membrane is to be installed and sealed in accordance with the relevant codes of practice and with the manufacturer's instructions.

Delivery and Storage

MonarTile 1F is delivered to site in rolls individually wrapped and bearing the manufacturer's name and product description. The material when removed from the pallet must be stood on end on a flat level surface, under cover and away from exposure to the sun and away from heat sources. Mechanical damage must also be avoided.

When used during colder weather, the product should be stored between 10 °C and 20 °C for 24 hours before installation.

Do not store where membranes are liable to come into contact with hydrocarbon solvents, such as petroleum spirit or diesel oil or other organic solvents.

Properties

Roll Size	1.0m x 15 m
Colour	Black/sanded
Thickness	0.45 mm
Weight/Unit area	1.5 kg·m ⁻²

Compatibility

MonarTile 1F membranes are compatible with most materials normally used within roof substructures and finishes. It may be cut and applied using techniques described in the current BS 5534: Part 1 (Slating and Tiling; including shingles).

Hydrocarbon solvent based products, such as Naphtha, paraffin and creosote will have a harmful effect and should not be allowed to come into contact with these membranes.

UV Resistance

MonarTile 1F membranes are not designed to be left exposed for long periods and must be covered as soon as possible.

Durability

When covered MonarTile 1F is designed to have a serviceable life equal to the primary roof covering performance.

Quality Assurance

MonarTile 1F membranes are supplied under a Quality Management System approved to ISO 9001: 2000 by BSI Quality Assurance.



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Installation Details

MonarTile 1F must be installed and fixed in accordance with the manufacturer's instructions and the relevant recommendations of BS 5534:2003+A1:2010 and BS 8000-6: 2013. Installation can be carried out under all conditions normal to roofing work.

The membrane is installed parallel to the eaves and should be fixed with galvanised large head clout nails. It should be lapped to shed water out and down the slope.

Partially Supported: In partially supported applications, MonarTile 1F may be laid draped across the rafters without the need for counter-battens. The membrane should be draped to ensure that surface water can drain freely beneath the tiling battens.

Fully Supported: MonarTile 1F may be laid directly onto sarking (roofing grade ply or OSB). When installed fully supported, the membrane should be laid taut (but not drum tight). Counter-battens must be used, to allow any surface water to drain freely down to the gutter.

MonarTile 1F should be treated as a high resistance layer (HR) in accordance with 'BS5250: Code of practice for control of condensation in buildings'. In warm roof specifications, a ventilation gap of at least 50mm between the insulation and the underlay should be allowed.

Please consult Icopal Technical Services for further information.

Eaves Protection

Pitched roof underlays are often dressed into the eaves gutter, leaving a strip of the material exposed to the elements and to UV radiation causing degradation or even disintegration of the membrane.

A more durable material for these exposed gutter areas is recommended. Icopal 5U Eaves Sheet is a polyester reinforced bituminous membrane (formerly BS 747 Type 5U). Alternatively, Monarflex EavesGuard is a rigid component designed specifically for this use. It eliminates the need for a tilting fillet and also protects MonarTile 1F from prolonged exposure to UV light at eaves.

Laps

Laid parallel to the eaves, the size of the horizontal overlaps in MonarTile 1F will depend upon the pitch of the roof and should be formed in accordance with the table below. All vertical overlaps should be 100 mm and should be supported over a rafter.

Pitch	Horizontal Lap
12.5° to 15°	225 mm
15° to 35°	150 mm
above 35°	100 mm

Technical Services

Specialist advice and design guidance on all matters relating to MonarTile 1F is freely available from our Technical Department at the address below.

Availability

Item Code	Description	Roll Length
3007195	MonarTile 1F	1.0 m x 15 m

NOTE: This information is given in good faith being based on the latest knowledge known to Icopal Limited. Whilst every effort has been made to ensure the contents of the publication are current while going to press, customers are advised that products, techniques and Codes of Practice are under constant review and liable to change without notice. Up to date information is available from our Technical Services Department on request.

Responsibility cannot be accepted for the application of products, and no claims can be considered, where the manufacturer's instructions have not been followed. The user should not assume, based on information provided in this sheet, that the product is suitable for any abnormal use.

All products are sold subject to our standard conditions of sale, available on request.