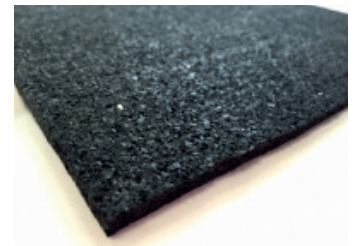


# Product Data Sheet

## PROTECTION MAT

### **Robust, flexible, high density vulcanised rubber crumb protection membrane**

Axter's rubber crumb Protection Mat is designed to protect bitumen and synthetic roof waterproofing membranes from damage caused by abrasion, point loading, blunt materials, backfilling and concrete casting. It reduces the risk of damage and perforation of the waterproofing membrane both during the roofing works and after completion, providing permanent protection and extending the life of the membrane.



Protection Mat is made up of natural and synthetic elastomeric compounds and has a density of 950 kg/m<sup>3</sup>. It is manufactured from recycled materials with one of the main components being recovered PFU (from used car tyres), bound by polyurethane resin.

## Advantages

- Excellent mechanical protection of the waterproofing membrane
- Easy to install
- Immediately trafficable after installation
- Eco-friendly due to being manufactured from recycled rubber
- Excellent mechanical resistance to impact by blunt materials
- High dimensional stability for permanent loads (green roofs, foundations, driveway roofs and floors)
- Strong resistance to abrasion and tearing
- Rot-proof, resistant to mould and moisture
- Re-usable
- Cost-effective

## Physical & Mechanical Characteristics

| Description                 | Unit               |            | Norms          | Tolerances |
|-----------------------------|--------------------|------------|----------------|------------|
| Rubber thickness            | mm                 | 6          | EN 13849-1     | ± 10%      |
| Rubber density              | kg/ m <sup>3</sup> | 950        |                | ± 7%       |
| Elongation at break         | %                  | 35         | EN ISO 1798    | ± 5%       |
| Tensile strength            | N/mm <sup>2</sup>  | 0.9        | EN ISO 1798    | ± 2%       |
| Static puncture resistance  | kg                 | 45         | EN 12730 met B | Min        |
| Dynamic puncture resistance | mm                 | ≥ 2500     | EN 12691 met A | Min        |
| Heat resistance             | °C                 | Up to + 80 |                | -          |
| Cold resistance             | °C                 | Up to - 30 |                | -          |
| Fire rating                 |                    | B2         | DIN 4102       | -          |
| SHORE A hardness            |                    | 50         |                | ± 10%      |

\* no drilling

## Thermal Performance

| Description          | Symbol | Unit | Value  | Norms             | Notes                  |
|----------------------|--------|------|--------|-------------------|------------------------|
| Thermal conductivity | (λ)    | W/mK | 0.1226 | UNI EN 12667:2002 | Cert no. 078-09-the TR |

## Chemical Performance

| Characteristic         |  |
|------------------------|--|
| Resistance to microbes | Resistant to fungi, insects and microbe attack                                   |
| Chemical interaction   | Highly resistant to acids and alkaline detergents, rot-proof                     |
| Electrostatics         | Does not accumulate static charge and prevents static movement between materials |
| Eco-sustainability     | 100% recyclable  |

## Installation

The Protection Mat provides excellent protection to waterproofing membranes. Due to its flexibility, it can be used on horizontal or curved surfaces and it can be cut and shaped around any construction detail. It is designed to be used effectively on inverted roofs, living roofs, regularly trafficked roofs and walkways, parking areas, on maintenance areas and in artificial tunnels.

It is ideal for the horizontal and vertical protection of underground waterproofing foundation walls, basements, drains, tunnels, and ditches.

It can also be used as an anti-vibration protection layer under machinery (such as compressors, air conditioning units and generators) when installed on the roof.

### Horizontal Installation

The Protection Mat is applied to protect the bitumen membrane by laying out rolls adjacent to each other and overlapping them by 8 cm, taking care not to leave any gaps between them.

This then needs to be covered by further layers such as concrete or ballast which will ensure that the Protection Mat is well anchored.

### Vertical Installation – bitumen membranes only

Torch the bitumen membrane which has already been applied as waterproofing of the foundation so that it becomes tacky.

Apply the Protection Mat and press it into the membrane firmly so that it bonds fully.

Repeat with the next roll, butting it up to the previous one, so that there are no gaps between the panels.

A slight overlap is tolerated (max 1 cm.).

For best results it is recommended to start installation of the Protection Mat from the top working downwards.

## Dimensions and Packaging

|                            | Units             | Value          | Tolerances |
|----------------------------|-------------------|----------------|------------|
| Thickness                  | mm                | 6              | ± 10%      |
| Roll height                | m                 | 1              | ± 2%       |
| Roll length **             | m                 | 8              | ± 1%       |
| Weight per m <sup>2</sup>  | kg/m <sup>2</sup> | 4.5            | ± 7%       |
| Number of rolls per pallet | pcs               | 16             |            |
| Total area per pallet      | m <sup>2</sup>    | 128            |            |
| Pallet dimension           | cm                | 100x120x100+10 |            |

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