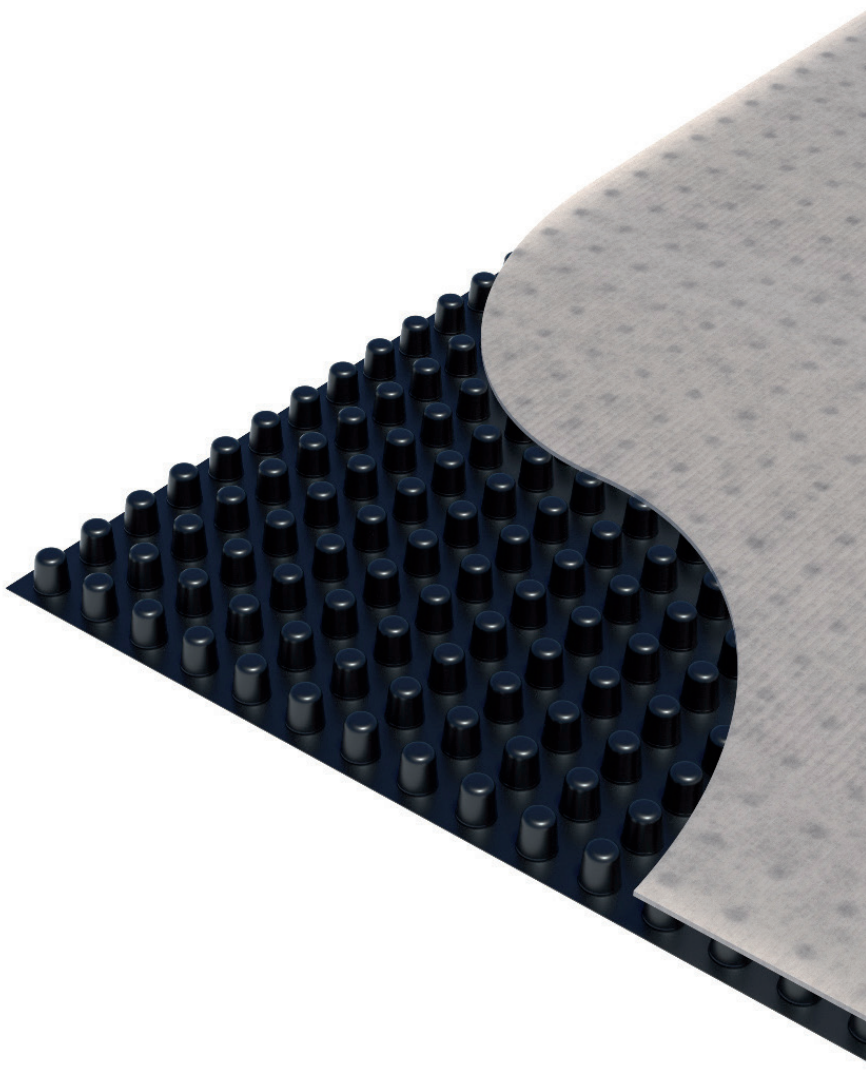
Radmat® building products

Specialists in Roofing and Waterproofing

# **Med0** DM12 Drainage Board

## Product Data Sheet



A drainage board with integral filter layer for Extensive green roofing.

# Med0

# DM12 Drainage Board

## General Information

**Radmat DM12** is a drainage element for use beneath bedded paving or a cast concrete slab installed above waterproofing or ProTherm Min K layer in inverted roofing. Consisting of a non woven needle punched geotextile filter layer thermally bonded to one side of a 12mm deep HDPE (High Density Polyethylene) cuspated core DM12 is effectively impermeable one side. The textile filter has a flap extending beyond the core on one edge.

## Installation instructions

Unroll over waterproofing membrane or protection fleece butting side laps and end laps.

## Delivery conditions

**Delivery Form** Sheet

**Storage and transport** Delivered flat on a pallet. Store flat.

| PRODUCT DIMENSIONS | | |
|---|---|---|
| **Subject** | **Performance** | **Unit** |
| Length | 50 or 25 | m |
| Width | 1.1 or 2.2 | m |

| DECLARED PERFORMANCE | | | | |
|---|---|---|---|---|
| **Essential characteristics** | **Performance** | | **Unit** | **Test method** |
| Thickness at 2kPa | 1.2 | -10% | (mm) | BS EN ISO 9863-1 |
| Tensile strength MD/CD | 9.5/9.5 | -15% | (kN/m) | BS EN ISO 10319 |
| Elongation | 50/50 | ±30% | (%) | BS EN ISO 10319 |
| Pore size $O_{90}$ | ±30% | - | (micron) 115 | BS EN ISO 12956 |
| Static puncture resist CBR | 1600 | -15% | (N) | BS EN ISO 12236 |
| Dynamic perf. cone drop | 32 | +25% | (mm) | BS EN ISO 13433 |
| Carbon black content | 0.8-2.5 | - | (%) | ASTM D1603 |
| Thickness at 2kPa | 12.0 | ±10% | (mm) | BS EN ISO 9863-1 |
| Mass per unit area | 970 | approx | ($g/m^2$) | BS EN ISO 9864 |
| Usable tensile strength MD/CD (kN/m) | ±10% | - | 17/11 | BS EN ISO 10319 |
| Minimum ultimate compressive strength | 700 | - | kPa | BS EN ISO 10319 |
| Long term compressive strength | 250 | - | kPa | BS EN ISO 10319 |
| Long term loading strength (100+ years) | 200 | - | kPa | ASTM D7361-07 |
| Elongation MD/CD | 45 / 30 | ±10% | (%) | BS EN ISO 10319 |
| CBR puncture resistance | 2300 | -20% | (N) | BS EN ISO 12236 |

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# DM12 Drainage Board

| PERPENDICULAR WATER INFLOW (dimpled side only) | | | | | | |
|---|---|---|---|---|---|---|
| **Essential characteristics** | **Performance** | | | | **Units** | **Test method** |
| **Water flow at 50mm head At 2kPa** | 95 | - | - | ±30% | ($l/m^2.s$) (m/s) | BS EN ISO 11058 |
| **permeability** *(coeff)* | $2.5 \times 10^{-3}$ | | | ±30% | - | BS EN ISO 11058 |
| **Breakthrough head** | 0 | - | - | - | l/m. sec | BS BS 6906 pt 3 |
| **In-plane water-flow** | **HG = 1.0** | - | **HG = 0.1** | - | - | **Hydraulic gradient** |
| **MD/CD** | | | | | | |
| **- at 20kPa pressure** | 4.25 | ±0.25 | 1.25 | ±0.12 | (l/m. sec) | BS EN ISO 12958 |
| **- at 100kPa pressure** | 3.50 | ±0.25±0.25 | 1.00 | ±0.12 | (l/m. sec) | BS EN ISO 12958 |
| **- at 200kPa pressure** | 2.50 | | 0.65 | ±0.12 | (l/m. sec) | BS EN ISO 12958 |

**NOTES**

- The geotextile is bonded to the core to minimise intrusion into and blockage of the drainage passage under the action of pressure of backfill material.
- The values given are indicative and correspond to nominal results obtained in our laboratories and testing institutes. In line with our policy of continuous improvement the right is reserved to make changes without notice at any time.
- Unless otherwise stated allowable tolerances are ± 10% of the typical value. The tolerance on roll length is 1.5% and on roll width 1.0%
- Due to the range of products, interfaces with other products and loading conditions, only selected testing has been done on creep and protection efficiency. Radmat will be pleased to discuss available test data and arrange testing if appropriate.
- Final determination of the suitability of any information is the sole responsibility of the user. Radmat will be pleased to discuss the use of this or any other product but responsibility for selection of a material and its application in any specific project remains with the user.



For further information on Radmat products and services please call **01858 410372**, email **techenquiries@radmat.com** or visit our website **www.radmat.com** **APR 24**

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