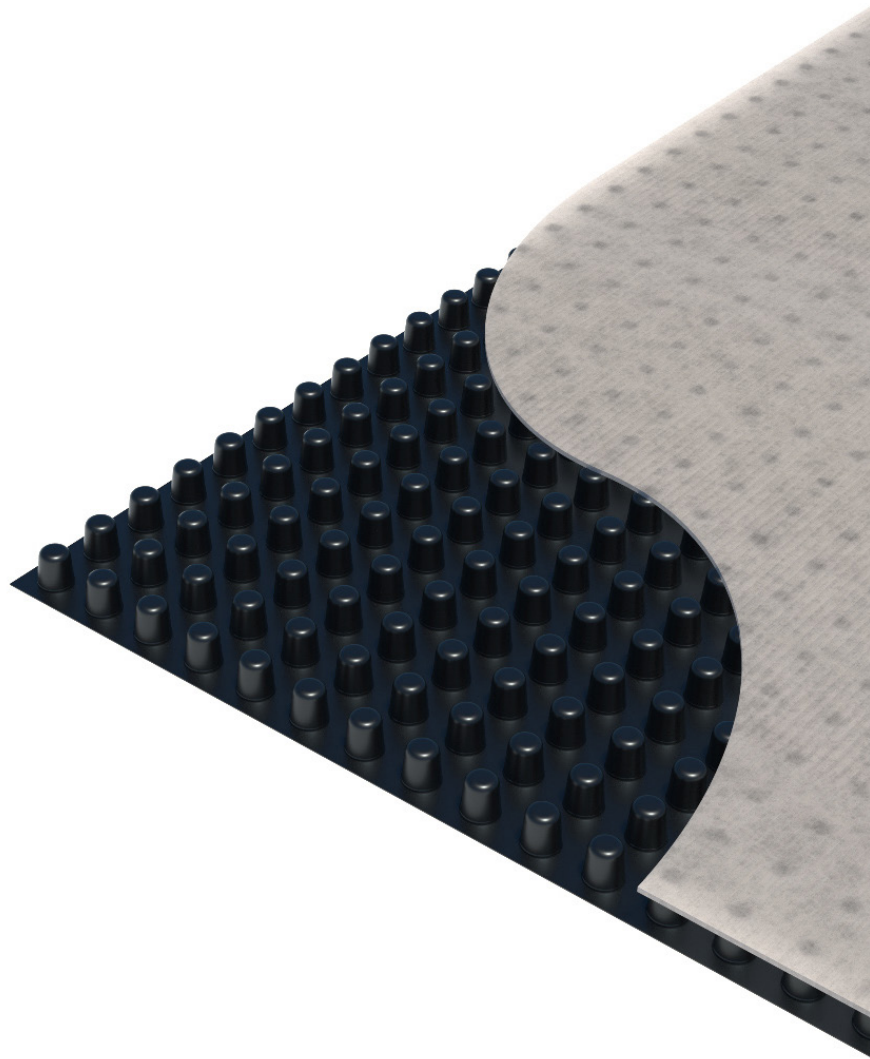


Med0 DM12 Drainage Board

Product Data Sheet



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		Units	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 0 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/m²)	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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PERPENDICULAR WATER INFLOW (dimpled side only)

Essential characteristics	Performance				Units	Test method
Water flow at 50mm head At 2kPa permeability (coeff)	95 2.5×10^{-3}	-	-	$\pm 30\%$ $\pm 30\%$	(l/m ² .s) (m/s) -	BS EN ISO 11058 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	$\pm 0.25 \pm 0.25$	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 $\pm 10\%$ 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.

This information given in good faith and is based on the latest knowledge available to Radmat Building products Ltd. Whilst every effort has been made to ensure that 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.

For further information on Radmat products and services please call **01858 410372**, email tech enquiries@radmat.com or visit our website www.radmat.com **JAN 2019**