

AquaArm DrainBoard

(Formerly known as MYK AQUADRAIN)

Combined drainage and filter product for landscape and roof gardens



TECHNICAL DATA SHEET

Product Description

AquaArm DrainBoard is an efficient, filtered sub-soil drainage system for drainage of all in-ground structures. It comprises a highly compression resistant and flexible studded structural plastic core bonded to heavy-duty, non-woven polypropylene filter fabric.

Uses

- AquaArm DrainBoard is a light-weight drainage layer with high flow capacity.
- It guides redundant water swiftly to the drain.
- It is specifically designed for use with all waterproofing membrane systems as well as any torch-applied waterproofing membranes.
- It provides uninterrupted, permanent high flow drainage to lift pits, basement retaining walls, bridge abutments, planter box walls and floors.
- AquaArm DrainBoard is used to collect and control water under landscaped podium decks, terraces or roofs.

Features and Benefits

- Fast installation.
- Lightweight.
- High water flow capacity.
- High compressive strength
- Flexible
- Pre-manufactured drain and filter in one component
- Simple joints
- No on-site fabrication
- No aggregates required
- Non-toxic to plant root systems
- High compressive strength studded core accepts structural and traffic loads, while allowing uninterrupted water flow system.

Application Methodology

Inspect any applied waterproof membranes to insure they are clean and undamaged.

- Damaged areas must be repaired before installing AquaArm DrainBoard.
- Surfaces should be generally clean, dry and free of any debris

AquaArm DrainBoard may be:

- Installed vertically or horizontally to any structure.
- Laid directly to lost formwork or shotcrete before pouring in-situ concrete walls.
- Laid directly over waterproofing membrane systems before backfill, landscape or paving.
- Used in conjunction with geotextile covered foundation drainage line to prevent build-up of hydrostatic water pressure on tanking membrane.

Installation

- Install AquaArm DrainBoard sheet with geotextile towards the source of water.

On verticals use suitable adhesives or battens, to hold AquaArm DrainBoard in place. Pins and other mechanical fasteners must not be used over any waterproof membrane as they may penetrate and cause damage. However, they may be used when no waterproofing is present.

Joining

Adjacent rolls may be joined by butt joints or by overlapping the cautions a minimum 50mm.

Overlap geotextile layer 50 to 100mm minimum and seal lap securely to prevent any soil infiltration to the studded core.

Sealing Edges

All exposed edges of AquaArm DrainBoard should have geotextile wrapped around the core edge to prevent entry of debris and silt.

Corners

AquaArm DrainBoard can be readily bent on site to form internal corners. External corners are formed by cutting the dimpled core at the corner and providing an extra 100mm wide strip of geotextile to wrap around corner and overlap joint, before bonding with adhesive.

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Technical Data

S.NO.	Property	AquaArm DrainBoard 10	AquaArm DrainBoard 20
	Core Properties		
1	Dimpled Sheet	HDPE	HDPE
2	Colour of dimpled sheet	Black	Black
3	Weight of dimpled sheet (g/m ²)	Approx 600	Approx 1000
4	Dimple height (mm)	10	20
5	Roll width (m)	2.00	2.00
6	Foil length (m)	12.5	12.5
7	Number of dimples (pcs/ m ²)	Approx 3360	Approx 400
8	Air gap (between dimples) (l/m ²)	Approx 7.9	Approx.14
9	Compressive strength (kN/m ²)	Approx 400	Approx 200
	Geotextile Properties		
1	Geotextile Resin	PP	PP
2	Area Weight (g/m ²)	136	136
3	Permeability (10 ⁻³ m/s)	Approx 50	Approx 50
	Geocomposite Properties		
1	Area Weight (g/m ²)	740	1140
2	Drainage capacity(l/(ms))	Approx 3.34 according to DIN EN ISO 12958:1999	Approx. 7.5 according to DIN EN ISO 12958:1999
3	Tensile strength(MD) (kN/m) Tensile strength(CMD) (kN/m)	15.4 16.8 according to DIN EN ISO 10319	19.2 20.8 according to DIN EN ISO 10319
	General		
1	Service temperature range (°C)	-40 to 80	-40 to 80

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Packaging

AquaArm DrainBoard 10

Roll length: 12.5m. Roll Width: 2m

AquaArm DrainBoard 20

Roll length: 12.5m. Roll Width: 2m

Product Categories Available



Legal Note

The information, and, in particular, the recommendations relating to the application and end-use of MYK Arment products, are given in good faith based on MYK Arment current knowledge and experience of the products when properly stored, handled and applied under normal conditions in accordance with MYK Arment's recommendations. In practice, the difference in materials, substrates and actual site conditions are such that no warranty in respect of merchant ability or of fitness for a particular purpose, nor any liability arising out of any legal relationship whatsoever, can be inferred either from this information, or from any written recommendations, or from any other advice offered. The user of the product must test the product's suitability for the intended application & purpose. MYK Arment reserves the right to change the properties of its products. The proprietary rights of third parties must be observed. All orders are accepted subject to our current terms of sale and delivery. Users must always refer to the most recent issue of the local product data sheet for the product concerned, copies of which will be supplied on request.

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