

SPECIFICATION INFORMATION COMPOSITE DRAINAGE BOARD

Revised: 05-08-17

1.0 PRODUCT NAME

AquaCheck® DB 1000/2000 Series
Light and Moderate-Duty Composite
Drainage Boards

2.0 MANUFACTURER



Insulation Solutions Inc.
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East Peoria, IL 61611

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3.0 PRODUCT DESCRIPTION

3.1 Basic Use:

AquaCheck® DB 1000/200 Series are multi-faceted composite drainage boards designed to protect waterproofing systems and manage subsurface water around foundations. Hydrostatic relief is provided by retaining soil backfill and only allowing water to pass into the drainage core. Water is collected and passed to proper collection systems. Proven applications include: Foundation Walls, Retaining Walls, Planters, Roof Gardens, Bridge Abutments and Under Slab.

AquaCheck® DB 1000 Series is used in light-duty (residential) applications.

AquaCheck® DB 2000 Series is used in moderate-duty (commercial) applications.

3.2 Composition & Materials:

AquaCheck® DB 1000/2000 Series consists of an impermeable polymeric sheet cusped under heat and pressure to form a high flow dimpled drainage core. The core is then bonded to a layer of non-woven filter fabric designed to retain soil and sand particles to prohibit sediment build-up.

AquaCheck® DB 1500/2500 have identical properties to **AquaCheck® DB 1000/2000** with the addition of a protection film bonded to the backside of the cusped core to provide protection for waterproofing membranes.

3.3 Product Dimensions & Weight:

AquaCheck® DB 1000 Series

- 4' x 50' - 42 lbs.
- 6' x 50' - 55 lbs.
- 8' x 50' - 70 lbs..

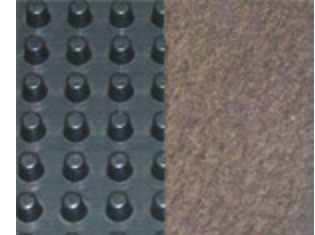
AquaCheck® DB 2000 Series

- 4' x 50' - 50 lbs.
- 6' x 50' - 65 lbs.
- 8' x 50' - 83 lbs.

4.0 TECHNICAL DATA

4.1 Applicable Standards

- American Society for Testing & Materials (ASTM)
- **ASTM D 1777** Standard Test Method for Thickness of Textile Materials
- **ASTM D 1621** Standard Test Method for Compressive Properties of Rigid Cellular Plastics
- **ASTM D 4716** Standard Test Method for Determining the (in-plane) Flow Rate per Unit Width and Hydraulic Transmissivity of a Geosynthetic Using a Constant Head
- **ASTM D 4491** Standard Test Methods for Water Permeability of Geotextiles by Permittivity
- **ASTM D 4833** Standard Test Method for Index Puncture Resistance of Geomembranes and Related Products
- **ASTM D 4632** Standard Test Method for Grab Breaking Load and Elongation of Geotextiles



PROPERTIES	TEST METHOD	AQUACHECK® DB 1000 SERIES		AQUACHECK® DB 2000 SERIES	
	<i>Applicable Standard</i>	<i>English</i>	<i>Metric</i>	<i>English</i>	<i>Metric</i>
CORE					
Thickness, Nominal	ASTM D-1777	.40 in	10.16 mm	.40 in	10.16 mm
Compressive Strength	ASTM D-1621	11,000 psf	528 kNm ²	15,000 psf	719 kNm ²
Flow (Hydraulic Gradient = 1)	ASTM D-4716	18 g/min/ft	223 L/min/m	21 g/min/ft	260 L/min/m
FABRIC					
Flow	ASTM D-4491	140 g/min/ft ²	5704 L/min/m ²	140 g/min/ft ²	5704 L/min/m ²
Puncture	ASTM D-4833	65 lbs	.30 kN	65 lbs	.30 kN
AOS*	EOS**	70 U.S. Sieve	.212 mm	70 U.S. Sieve	.212 mm
Grab Tensile	ASTM D-4632	100 lbs	.45 kN	100 lbs	.45 kN

* AOS - Apparent Opening Size (U.S. Standard Sieve)

** EOS - Equivalent Opening Size (Geotextile Fabrics)

Note: To the best of our knowledge, these are typical property values and are intended as guides only, not as specification limits. Insulation Solutions Inc.® makes no warranties as to the fitness for a specific use or merchantability of products referred to, no guarantee of satisfactory results from reliance upon contained information or recommendations and disclaims all liability for resulting loss or damage.