

Technical data sheet

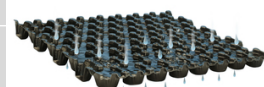
BauderGREEN RE 40

drainage and retention board



17/03/2025

Product description	Moulded HDPE 40mm retention and drainage board
Application fields	Retention board with a temporary water storage function for delayed rainwater run-off as part of a water retention solution
Article number	7468 1040



Characteristic	Unit	Value
Material	-	100% recycled HDPE, black
Weight	g/m ²	1800
Initial thickness of material	mm	1,8
Size	m	1,04x2,03
Height of cells	mm	40
Lower surface contact area	%	42
Delivery form	-	board of 2.1m ²
Compressive strength	kPa	80 (EN ISO 25619-2)

Installation guidance

Refer to Bauder Green and Blue Roof Installation Guide.

Run-off coefficients in a planted roof construction (BauderGREEN Retention system run-off coefficient-RE 01):

- BauderGREEN FSM 600 protection mat
- BauderGREEN RE 40 retention panel
- BauderGREEN FV 125 filter fleece
- BauderGREEN BBT-R substrate

Substrate thickness	Run-off coefficient C*
6.00 cm	0.24
8.00 cm	0.16
10.00 cm	0.11
12.00 cm	0.10

* Values according to the FLL guidelines with a 2% pitch from the expert report provided by the consultancy of Prof. Dr. St. Roth-Kleyer dated 15.03.2018

Optional structure variant: RE 40 filled with BauderGREEN MD BS expanded slate mineral drain (BauderGREEN Retention system run-off coefficient sponge – RE 02): Run-off coefficients from 0.33 to 0.13

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Draining performance horizontal

Hydraulic gradient		Longitudinal (load 20 kPa) (EN 12958)	Transverse (load 20 kPa) (EN 12958)
i = 0.01 (1% slope)	l/(m·s)	0.75	0.65
i = 0.02 (2% slope)	l/(m·s)	1.08	0.96

Product storage guidance

The product should be stored dry, protected against weathering, and must not be exposed to temperatures exceeding 35°C. The products must not be exposed to a direct naked flame or other ignition sources, or to solvents or other chemicals. Ensure the product(s) are clear of buildings and any other storage areas. Where there are storage containers on site, these may be suitable for storing products.

Pallet size

240 boards / 504m²

Packaging material

The product will be delivered on wooden pallets with plastic overwrap to protect the product.

Handling/PPE

All persons using the product should be fully aware of the manual handling methods as roofing materials are heavy and can cause serious injury. When using/handling the product, installers should be provided with, and wear, suitable personal protective equipment.

Shelf life

When stored correctly, the product has no stated shelf life.

Disposal guidance

Waste of the product is not a hazardous substance. Observe local regulations. European Waste Catalogue EWC number 170203 Plastic Mirror Non-hazardous

Recycled Content

100% recycled material

Further information/documents

Current documents such as DoP's (where relevant), brochures, installation guides, etc. can be found by visiting www.bauder.co.uk

Safety Data Sheet

Safety Data Sheets are designed to provide the necessary information to recipients of substances and mixtures in the EU & UK. This product is classed as an article; therefore, this product does not have a requirement for a Safety Data Sheet.