

Description

Xeric filtadrain is a three-dimensional geocomposite drainage system comprising a studded HDPE cusped core together with a non-woven geotextile filter fabric bonded to one side. The filter is specifically designed to allow free entry of water only, whilst preventing soil particles from clogging the drainage system. Xeric Filtadrain is designed to be placed with the geotextile fabric facing the direction of water seepage or backfill. Xeric Filtadrain can be placed directly against the concrete substrate, masonry, Xeric WP or Xeric Seamless LA waterproof membranes. Designed to fully comply with agreement of type 'C' design BS 8102.

Advantages:

- Easy to install.
- Long life.
- High flow rates.
- Resistant to most acids, alkalis, sulphates and leachate.
- Rot proof.
- Replaces 'French Drains'.
- Reduces risk of leaks.
- Reduces hydrostatic pressure build up.

Application:

- Use with Xeric membranes or similar around the perimeter of basement structures.
- Lift pits
- Retaining walls.
- Subways.

Installation:

Xeric Filtadrain can be fixed horizontally or vertically but vertically requires more cutting and jointing. Vertical fixing to high walls is not recommended in windy conditions or where backfill will not take place for some time. Fixing horizontally, unroll the sheet along the length of the wall and cut to size. Filtadrain should be fixed to the wall using Xeric Tape DS. Hilti bolts can also be used but this means puncturing the drainage sheet. If this occurs re-seal penetrations with a waterproof sealant. Backfill to within 200mm of the top edge. the second layer of the Filtadrain can be placed in position, ensuring to butt the two edges together and allowing the 100mm geotextile overlap to cover the sheet below. The overlap can be sealed to the lower layer of Filtadrain using Formwork Tape or similar. This will seal the joint prior to the full height desired. Close off the top and sides with fabric.

Xeric Filtadrain Strip

When installing this strip peel back the fabric from the studded core, wrap around the strip and tuck behind core. Put a small amount of aggregate in place prior to backfilling. This forms a collect and control of ground water and can be linked to the overall drainage system.

Technical Data

Core Thickness	Xeric Filtadrain	Xeric Filtadrain Strip
In plane water flow (HG=1.0)	4/l/s/m	16/l/s/m
In plane waterflow (HG=0.01)	0.26/l/s/m	0.54/l/s/m
Compressive force (at 20% compression)	250Kn/m ²	200Kn/m ²
HDPE Thickness	1.0mm	1.0mm
Chemical Resistance	Unaffected by most acids and alkalis, oils, fuels, chlorides, and sulphates.	Same
Organic resistance	Resistant to Microbiological attack	Same
Application Temperature Range	+5°C to 50°C	Same
Geotextile only		
Material	High Density polypropylene	High Density polypropylene
Type	Heat bonded Non-woven	Needle punched Non-woven
Chemical Resistance	Not affected by acid or alkali	Not affected by acid or alkali
Bacteria/fungi	Does not support growth	Does not support growth
Mass/Unit area	136g/m ²	200g/m ²
Thickness	0.46mm	2.00mm
Tensile load	8.2KN/m	12.5KN/m
Puncture Resistance	1270N	2100N
Tear Resistance	225/240N	275N
Pore Size	160 Micron	110 Micron
Water Flow	100 l/m ² /sec	250 l/m ² /sec
U.V resistance	Good	Good