

## DBGS Drain 8 Drainage & filter layer

### Description

This drainage & filter layer is applied as horizontal and vertical drainage under a soil substrate in green roofs. This layer keeps the substrate in place, drains the water and protects the waterproof layer from mechanical damage.

### Composition

It consists of a first filter fleece, a central part made of wide-spaced, polypropylene filaments and a second filter fleece, all of which are thermo-bonded across the entire surface. Water easily filters through the fleece and drains through the core. The fleeces are non-woven, polypropylene geo-textiles. The mat has 100 mm wide strips for overlapping purposes.



### Technical characteristics

Total thickness:  $\pm 8$  mm (EN964-1)  
 Total volume/mass:  $\pm 700$  g/m<sup>2</sup>  
 Roll length: 15 m  
 Roll width: 2 m  
 Roll diameter:  $\varnothing 0,4$  m  
 Roll weight:  $\pm 21$  kg  
 Horizontal draining capacity on a 4% slope in the longitudinal direction:  
 - under a pressure of 20 kPa :  $\pm 0,36$  l/s.m (EN ISO 12958 S/R)  
 - under a pressure of 50 kPa :  $\pm 0,33$  l/s.m (EN ISO 12958 S/R)  
 - under a pressure of 100 kPa :  $\pm 0,28$  l/s.m (EN ISO 12958 S/R)  
 - under a pressure of 200 kPa :  $\pm 0,12$  l/s.m (EN ISO 12958 S/R)  
 (These results are divided by two in case of a 2% slope.)  
 Tensile strength of the filters:  $> 6.7$  kN/m  
 Weight of filter fleeces (EN 965): 100 g/m<sup>2</sup>  
 Thickness of filter fleeces: 0.9 mm  
 Static puncture resistance of the filter fleeces (EN 12236): 1125 N  
 Dynamic puncture resistance of the filters (cone drop test EN 918): 30 mm  
 Permeability index of the filters: (EN ISO 11058): 130 mm/s.  
 Fleece pores opening (EN ISO 12956): 115 micron.

### Installation

The surface has to be clean and without debris.  
 Unroll the layer directly to its location and cut on size.  
 To avoid wind uplift, ballast the drainage layer instantly with the bags of substrate or ballast.  
 Overlap the rolls and close with industrial quality self-adhesive tape.



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