

# Filter Fabric Sheet Drain

**Filter fabric sheet drains** are a cost effective alternative to conventional aggregate for vertical or horizontal drainage on retaining walls, foundation walls, podium decks and landscape drainage. The lightweight and flexible rolls are made from a high quality, abrasion resistant, non-woven geotextile filter fabric bonded to a strong, HDPE dimpled core.

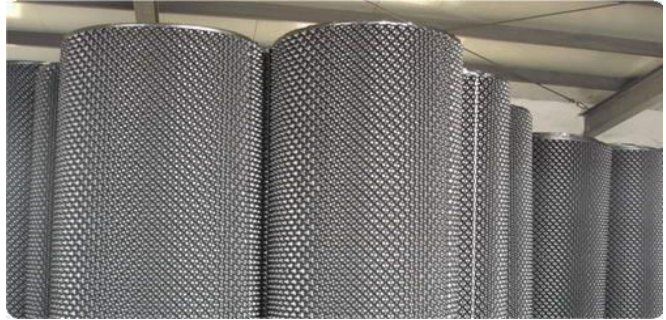


The voids in the dimpled core collect and transport high volumes of water and its high compressive strength resists loads from in-fill and formwork. The filter fabric:

- creates a permanent air gap for ventilation between the soil and the wall
- provides hydrostatic relief by allowing high volumes of filtered water to pass into the drainage core; and
- prevents soil particles blocking the drainage core.

The cusped core and filter fabric are resistant to saline solutions, alkalis and acids.

Filter fabric drain is supplied as rolls, either 1200m x 20m or 2400mm x 20m with a 150mm filter fabric overlap depending on the requirements. To form a wider sheet, the dimples along the edges can be pressed together on site.

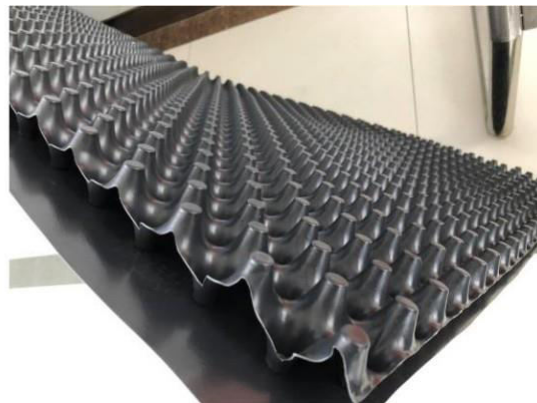


## Applications

- Retaining wall drains
- Roof garden drains
- Basement walls and foundations
- Podium drains
- Reducing hydrostatic pressure behind vertical structures
- Protecting waterproofing membranes
- Landscape drainage
- Shotcreting
- Bridge abutments

## Product Details

Both **MD10** (10mm high) and **MD20** (20mm high) protect waterproofing systems and manage sub-surface water around building foundations. **MD10 & MD20** have dimples on one side of the core and a flat surface on the opposite side.



MD10 and MD20 - single dimpled cores MD18 - double dimpled core

**DD18** is dimpled on both sides. This provides an additional void space between the wall/wall membrane and is widely used for podium decks.

## SPECIFICATIONS

Core Properties	Units	10 Single	20 Single	18 Double	Geotextile Properties	
Compression (ASTM-1621)	kPa	500	200	250	Flow	>200 l/m <sup>2</sup> /s
Thickness	mm	10	20	18	CBR	>1500 N
Flow	l/min/m width	223	480	450	EOS	<0.12 mm
Roll length	m	20	20	20	Grab	>500 N
Roll width	m	1.1/2.2	1.1/2.2	1.1		
Roll weight	kg	18	30	26		

## Installation

Dimple sheet drains are installed either vertically or horizontally with the geotextile facing towards the soil and the dimples against the wall. For wider areas, the dimples along the edges of the sheets are easily pressed together or butted edge to edge and secured with reinforced tape.

During backfilling with free draining fill, the sheets are held in place by either taping, nailing, gluing or hanging over the wall. It is important not to disturb or damage the filter drain during this process.