



ARDEX DRS 10/20 GC

Prefabricated Drainage Composite

Provides effective drainage and waterproof membrane protection

Dimple structure effectively captures and transports high water volumes

Resists high loads from earth form work

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DESCRIPTION

ARDEX DRS 10/20 GC is a dimpled plastic sheet that provides effective drainage and waterproof membrane protection on foundation walls and other underground structures. The integrated non-woven geotextile covering the dimples prevents soil particles blocking the drainage sheet, creates an air gap for reliable ventilation and allows inflow and with its dimple structure effectively captures and transports high water volumes and resists high loads from earth and formwork.

Applications

- Basement Foundations
- Retaining Walls
- Planters
- Bridge Abutments

ARDEX DRS 10 GC & DRS 20 GC perform a multifaceted role by providing protection for waterproofing systems and managing sub-surface water around building foundations. Soil backfill is retained by a filter fabric while allowing water to pass into the drainage core providing hydrostatic relief. Collected water is then conveyed to a proper collection system.

ARDEX DRS 10 GC & DRS 20 GC each consist of an impermeable polymeric sheet cuspated under heat and pressure to form a high flow dimpled drainage core. Cuspation/dimples can be on one side giving a flat surface on the opposite side (**DRS 10**) or cuspated/dimpled on both sides (**DRS 20**). The core is then bonded to a layer of non woven filter fabric. The filter fabric retains soil or sand particles as well as freshly placed concrete or grout, allowing filtered water to pass into the drainage core.

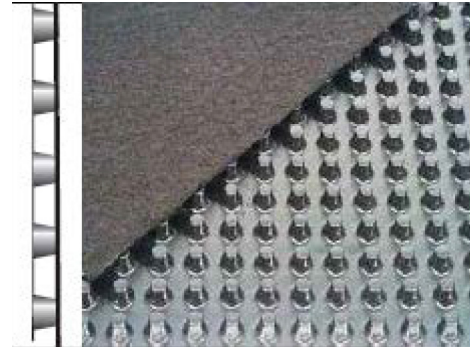
The double cuspated (**DRS 20**) provides an additional void space between the wall/wall membrane and Drainage Composite for air and water to circulate. In addition it maintains a very high flow rate while providing a higher strength for greater depths.

INSTALLATION

- Installed either vertically or horizontally.
- Held in place by either taping, nailing, gluing or simply overhanging over the wall while backfilling takes place.
- Installed with the geotextile facing the backfill.
- Joined by simply butting edge to edge and overlapping the geotextile overhang and securing with reinforced canvas tape.
- Alternatively overlap the cuspatate core by 50mm and secure geotextile as previous.
- Backfill with free draining fill taking care not to disturb or damage the ARDEX DRS 10 GC/DRS 20 GC.

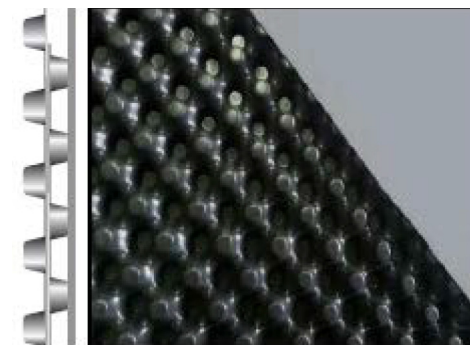
ARDEX DRS 10 GC

Single Cuspated (Raised cups one side)



ARDEX DRS 20 GC

Double Cuspated (Raised cups both sides)



ARDEX DRS 10/20 GC

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TECHNICAL DATA

The Technical Data shown below are the average results of the Tests, Measurements and Trials, carried out on ARDEX DRS 10 GC & DRS 20 GC.

Characteristics	Units	Geotextile Properties				
		DRS 10 GC	DRS 20 GC		DRS 10 GC	DRS 20 GC
Comprehensive Strength (ASTM-1621)	kN/m ²	528	250	Flow (AS3706.9-12)	>200 l/m ² /s	>180 l/m ² /s
Thickness (ASTM-1777)	mm	10.0	20.0	CBR (AS3706.7-12)	>1500 N	>2000 N
Flow (ASTD-4716) j=1.0	l/min/m width	223	450	EOS (AS3706.4-12)	<0.12 mm	<0.12 mm
Roll Length	m	12.5	30.0	Grab (AS3706.2-12)	>500 N	>700 N
Roll Width	m	1.22	1.10			
Roll Weight	kg	18	26			

DISCLAIMER

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This datasheet was issued in March 2020 and is valid for 3 years, in some instances a newer version may be published. Always refer to www.ardexaustralia.com for the latest technical data from ARDEX Australia Pty Ltd.

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