

PD1700

JUTA PD1700 include a high compressive strength Cusplate High Density Polyethylene (HDPE) Drainage core with a geotextile filter geotextile bonded to one side. Protection Drainage (PD) 1700 is designed as a high flow medium to alleviate hydrostatic pressure on below ground structures, as well as providing protection to the underlying membrane (gas/waterproofing).

Thickness	8.0 mm
Width	2.0 m
Length	20 m
Weight	620 g/m ²

TITANTECH®

For developers of brownfield and contaminated sites the TITANTECH® family of products represent a major step forward in safeguarding projects against gaseous and chemical contamination.

Application

JUTA PD1700 is primarily used for external tanking applications, forming a high compressive strength void, providing a path of least resistance for water, which enables controlled drainage into outlets or connector pies. PD1700 can be used in combination with GP gas/waterproofing barriers to provide both protection and drainage for external tanking application, ensuring gas/waterproofing barrier remains intact and the system performs as intended.

Features and Benefits

Optimised for maximum strength and performance, providing high levels of flow. Complies with the latest codes of practice as published by BS, BRE and CIRIA. PD1700 is independently tested and verified by UKAS accredited bodies. As CSSW qualified manufacturer, JUTA has the right solutions, optimised for market demands.

Named Accessory in Certification



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Rev 2024

Feature	Characteristics	Test Method	PD1700
Mechanical Properties	CBR Puncture Resistance	EN ISO 12236	1700 N
	Tensile Strength (MD/CMD)	EN ISO 10319	12 kN/m
	Tensile Elongation (MD/CMD)	EN ISO 10319	12 %
	Compressive Strength	EN ISO 25619	140 kPa
Hydraulic Properties	Pore size (O_{90})	EN ISO 12956	90 μ m
	Permeability (H_{50})	EN ISO 11058	79 l/m ² /s
	In plane water flow	EN ISO 12958	1.83 l/s/m width i = 1.0 @ 20 kPa
	(Hard/soft) platens (To simulate soil action)		1.69 l/s/m width i = 1.0 @ 100 kPa
	(i) Hydraulic gradient		1.53 l/s/m width i = 1.0 @ 200 kPa
	(i) = 1 simulates vertical application		0.49 l/s/m width i = 0.1 @ 20 kPa
	(i) = 1 simulates vertical application		0.45 l/s/m width i = 0.1 @ 100 kPa
	(i) = 0.1 simulates slope application		0.45 l/s/m width i = 0.1 @ 200 kPa
Physical Properties	Mass per unit area	EN ISO 9864	620 g/m ²
	Thickness	EN ISO 9863-1	8.00 mm
Material Dimensions	Roll Width		2.00 m
	Roll Length		20 m
	Gross roll weight		30 kg

JUTA UK

Please contact JUTA
UK Directly for more
information on PD1700

Installation

PD1700 should be installed with the geotextile facing the soil/backfill, and the direction of water flow. Rolls can be cut to size on site. PD1700 can be held in place prior to backfilling with DS Butyl tape (50 mm wide), or mechanically fixed in the absence of a gas/waterproofing barrier.

Adjacent rolls can be overlapped using the geotextile, secured with DS Butyl tape (50mm). Roll ends can be connected by simply butting the cusped sheet together.

Connection to land drains/collection pipes is achieved by placement within the slotted areas, or removal of the cusped core and wrapping of geotextile around the pipe. Care must be taken not to damage/cut the geotextile during core removal to facilitate the connection.

Backfilling should proceed with caution to avoid undue stress on the PD1700. Compactive effort should be avoided within the first 100mm of the PD1700.

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Handling

Roll weights can be up to 35kg and hence appropriate equipment is required for unloading and handling.

Storage

PD1700 is supplied in packaging designed to protect the product from damage during handling and storage, and degradation as a result of UV exposure. PD1700 should be kept in the supplied packaging until such time as it is required for installation, and then covered within 2 weeks of installation.

