

JUTA UK **PD 1700** include a high compressive strength Cuspate 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).

Mean Value (applied tolerance*)				
	Test Method	Unit	PD1700	
Mechanical Properties				
CBR Puncture Resistance	EN ISO 12236	N	1700	
Tensile Strength (MD/CMD)	EN ISO 10319	kN/m	12	
Tensile Elongation (MD/CMD)	EN ISO 10319	%	12	
Compressive Strength	EN ISO 25619	kPa	140	
Hydraulic Properties				
Pore Size (O₉₀)	EN ISO 12956	µm	100	
Permeability (H₅₀)	EN ISO 11058	l/m ² /s	79	
In plane water flow (hard/soft) platens (to simulate soil action) (i) Hydraulic gradient (i) = 1 simulates Vertical application (i) = 0.1 simulates slope application	EN ISO 12958	l/s/m width	i = 1.0 @ 20kPa	1.83
			i = 1.0 @ 100kPa	1.69
			i = 1.0 @ 200kPa	1.53
			i = 0.1 @ 20kPa	0.49
			i = 0.1 @ 100kPa	0.45
			i = 0.1 @ 200kPa	0.45
Physical Properties (nominal)				
Mass per unit Area	EN ISO 9864	g/m ²	620	
Thickness	EN ISO 9863-1	mm	8.00	
Material Dimensions				
Roll Width		m	2.00	
Roll Length		m	20	
Gross roll weight		kg	30	

Additional Information

APPLICATION

JUTA UK PD 1700 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 pipes. PD 1700 can be used in combination with GP gas/waterproofing barriers to provide both protection and drainage for external tanking application, ensuring the 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. PD 1700 is independently tested and verified by UKAS accredited bodies. As a CSSW qualified manufacturer, JUTA has the right solutions, optimised for market demands.

INSTALLATION

PD 1700 should be installed with the geotextile facing the soil/backfill, and the direction of water flow. Rolls can be cut to size on site. PD 1700 can be held in place prior to backfilling with D5 Butyl tape (50mm wide), or mechanically fixed in the absence of a gas/waterproofing barrier.

Adjacent rolls can be overlapped using the geotextile, secured with D5 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 area, 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 PD 1700. Compactive effort should be avoided within the first 100mm of the PD1700.

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. PD 1700 should be kept in the supplied packaging until such time as it is required for installation, and then covered within 2 weeks of installation.

ADDITIONAL INFORMATION

For additional information or assistance, please contact JUTA UK directly.