

CeTeau® - WICK DRAIN

DESCRIPTION

CeTeau wick drains consist of a specially designed polymer core extruded into a unique configuration to transmit maximum water flow on both sides of the core. The core is fully wrapped in a nonwoven geotextile filter jacket that is ultrasonically welded to maintain effective filtration. The CeTeau wick drain construction exhibits a high tensile strength and is resistant to naturally occurring ground acids and alkalis.

APPLICATION

The use of CeTeau wick drains can be of significant assistance in increasing the rate of consolidation of very soft and saturated soils, ultimately increasing the shear strength of the soil, such that some engineering structure may be constructed. The CeTeau wick drains are inserted into the soil by pushing the product to a predetermined depth at a design spacing distance that shortens the drainage path of the exiting water within the soil to be consolidated. Generally a surcharge load is then applied over the area to be consolidated to further increase the consolidation rate.

CeTeau wick drains have been used extensively throughout Australia for many years. The drains have been designed to withstand the significant initial installation stresses that are imposed upon the drain whilst maintaining the longer term performance characteristics that are required of such products including efficient filtration and high drainage flow even under buckled conditions.

TYPICAL PROPERTIES

PHYSICAL PROPERTIES	TEST METHOD	UNIT	CeTeau-DRAIN VALUE
Drain Core		Material / Colour	PP/PE / white
Drain Filter		Material / Colour	PET / grey
Assembled Drain Width	ASTM D3774	mm	100
Assembled Drain Thickness	ASTM D5199	mm	3.4
Drain Filter Pore Size	ASTM D4751	µm	75
Assembled Drain Grab Strength	ASTM D638	N	2500
Assembled Drain Flow Discharge @ 200kPa	ASTM D4716	m ³ /yr	2800
PACKING DETAILS	TEST METHOD	UNIT	CeTeau-DRAIN VALUE
Assembled Roll Length	n/a	m	300
Assembled Roll Diameter	n/a	m	1.1
Assembled Roll Mass	n/a	kg	22.5

Other grades of CeTeau wick drain are available.

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SYDNEY

P: (02) 9725 4321

F: (02) 9725 4304

E: info@globalsynthetics.com.au

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P: (07) 3865 7000

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P: (08) 9459 4300

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