

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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SEP.10

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Global Synthetics
AUSTRALIAN COMPANY - GLOBAL EXPERTISE

SYDNEY

P: (02) 9631 0744

F: (02) 9631 0755

E: info@globalsynthetics.com.au

BRISBANE

P: (07) 3865 7000

F: (07) 3865 4444

www.globalsynthetics.com.au

PERTH

P: (08) 9459 4300

F: (08) 9459 4311