

REC GEOTEXTILE 285

PROTECTION GEOTEXTILES

DESCRIPTION

REC GEOTEXTILE 285 are mechanically bonded (needle-punched) continuous-filament nonwovens manufactured from UV-stabilised polypropylene. They have been developed to protect geomembranes from damage by the sharp edges of the stone fill.

Mechanical properties guarantee strong resistance to installation damage, excellent hydraulic properties and long-term performance.

PRIMARY APPLICATIONS

- Separation for infrastructure projects
- Membrane protection
- Filtration layer for rock armour or rip rap layers
- Tunnel lining
- Canal and reservoir lining
- Landfill base sealing
- Landfill surface drainage / sealing
- Filter drain wraps
- Horse ménage and gallops

TECHNICAL INFORMATION

PROPERTIES	STANDARD	SPECIFICATION
Mass per unit area	ASTM D5261, ISO 9864	285 g/m ²
Thickness	ASTM D5199	>2.5 mm
Wide Width Tensile Strength (Elongation @ Break)	ASTM D4595 BS 6906/1, ISO 10319	22 KN/m (40%)
CBR Puncture Strength	GRI GSI BS 6906/6, ISO 12236	3350 N
Cone Drop	ASTM D4533 BS 6606/6, ISO 13433	<17 mm
Pore Size (090)	ISO 12956	≤ 95 mm
Permeability	ISO 11058 BS 6906/3	≥ 55 l/m ² /sec 203 l/m ² /sec
UV Resistance	ASTM D4355	70%

FEATURES/BENEFITS

- **REC GEOTEXTILE 285** maintain the permanent sealing function of synthetic geomembranes
 - **REC GEOTEXTILE 285** prevent direct puncturing of the geomembrane by the sharp edges of the stone fill. Thanks to a combination of product thickness and stiffness, pressure and friction stresses which can damage geomembranes are significantly reduced.
 - **REC GEOTEXTILE 285** offer a high tensile strength at low strain. This supports the protection function as the thickness is maintained even when the geotextile experiences high tensile forces. In addition this takes stress loads from the geomembrane and reduces the danger of sliding especially on slopes.
- **REC GEOTEXTILE 285** have a drainage function

- The high in-plane-flow of **REC GEOTEXTILE 285** throughout the thickness of the material allows water and gas to drain. Decades of experience in tunnel construction with this material have shown that **REC GEOTEXTILE 285** replaces the need for drainage material around the tunnel lining.
- **REC GEOTEXTILE 285** are robust and long-lasting
 - **REC GEOTEXTILE 285** is resistant to all chemical and biological media usually occurring in soils and construction materials. It cannot be dissolved by water and therefore is harmless to ground water.
 - **REC GEOTEXTILE 285** are equipped with a UV-stabilizer, providing extended resistance to direct sunlight.

PACKING

REC GEOTEXTILE 285 is available in 100m Rolls.

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