

# VOLGRIP EP

Supply and installation of bentonite geomembrane, composed of sodium bentonite encapsulated between two geotextiles, for the effective waterproofing of water containment or waste storage and disposal structures, whether built with natural soil or concrete.

The product must be used, in combination with a protective confinement layer in concrete or well-compacted soil of at least 40 cm, for:

- Reservoirs and dams
- Canals and river banks
- Landfills for disposal or secondary containment of liquid waste
- Solid waste landfills
- Infrastructure works such as roads, railways, airport runways...

The material must have the following characteristics:

EC Certification according to UNI EN 13361, UNI EN 13362, UNI EN 13492, UNI EN 13493, UNI EN 15382

Specification	Test method	Values
<i>Non-woven weight</i>	UNI EN ISO 9864	200 g/m <sup>2</sup>
<i>Weight</i>	UNI EN ISO 9864	100 g/m <sup>2</sup>
<i>Sodium Bentonite content</i>	UNI EN 14196	4200 g/m <sup>2</sup>
<i>Free swelling</i>	ASTM D 5890	24 ml/2g
<i>Fluid Loss Index</i>	ASTM D 5891	18 ml
<i>Tensile strength</i>	UNI EN ISO 10319	8 kN/m
<i>Resistance to static punching (CBR)</i>	UNI EN ISO 12236	1,5 kN
<i>Hydraulic capacity of the geocomposite</i>	UNI EN 16146	6E <sup>-9</sup> m <sup>3</sup> /m <sup>2</sup> /s

as well as Volgrip EP Volteco or a product with equal or superior characteristics.

The technical data must be supported by test certification issued by an accredited official laboratory and / or be subjected to quality control according to ISO 9001.

For further details on the individual products and installation specifications, refer to the relevant technical data sheets which can be downloaded in the updated version on the website [www.volteco.com](http://www.volteco.com).