

Product data sheet

COLETANCHE ES3 HFA

Description

Coletanche ES3 HFA is an elastomeric modified bituminous geomembrane.

Use

Extreme level of mechanical constraints, exposed or covered (puncturing materials, thick cover layer, high pressures). For example:

- Mining and industrial waste storage facilities,
- Bottom of landfill cells,
- Deep hydraulic ponds,
- Dams.

The membrane has the same friction angle on both sides.

The product use must be validated by consultation.

Application method

By torch welding or other similar process.

Storage

Rolls must not be stored directly on the ground. Provide suitable supports (blocks, slides, wooden planks) with a minimum height of 35 cm to be placed under the ends of the mandrel.

Composition (indicative)

Reinforcement:	Geotextile	300 g/m ²
Reinforcement:	Glass fleece	50 g/m ²
Binder:	Elastomeric bitumen	4800 g/m ²
Surface finish:	Sand	250 g/m ²
Underside finish:	Peel-off silicone coated film	40 g/m ²

Characteristics

		Standards	Units	Average	Minimum
Dimensions	Length	-	m	65	64
	Width		m	5.10	5.01
Thickness (on finished product)		ASTM D5199	mm	4.80	4.20
Surface mass		ASTM D5261	kg/m ²	5.80	5.00
Tear resistance	Longitudinal direction	ASTM D4073	N	950	713
	Cross direction			850	638
Tensile properties: Strength	Longitudinal direction	ASTM D7275	kN/m	33	24.8
	Cross direction			29	21.8
Tensile properties: Elongation	Longitudinal direction		%	60	45
	Cross direction			60	45
Static puncture		ASTM D4833	N	570	513
Flexibility at low temperature	Longitudinal direction	ASTM D5147	°C	-20	-15
	Cross direction			-20	-15
Water permeability		ASTM E96	m/s	6.10 ⁻¹⁴	<
Gas permeability		ASTM D1434-82	m ³ /(m ² .d.atm)	2.10 ⁻⁴	<

The manufacturer reserves the right to modify, at any time, the characteristics of its products.