

Product data sheet

COLETANCHE ES1 HFA

Description

Coletanche ES1 HFA is an elastomeric modified bituminous geomembrane.

Use

Low level of mechanical constraints, exposed or covered limiting risks of puncture and tensile stresses. For example:

- Landfill and waste capping,
- Shallow hydraulic ponds,
- Ditches.

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	200 g/m ²
Reinforcement:	Glass fleece	50 g/m ²
Binder:	Elastomeric bitumen	3800 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	100	99
	Width		m	5.10	5.01
Thickness (on finished product)		ASTM D5199	mm	3.50	3.10
Surface mass		ASTM D5261	kg/m ²	4.20	3.70
Tear resistance	Longitudinal direction	ASTM D4073	N	750	563
	Cross direction			500	375
Tensile properties: Strength	Longitudinal direction	ASTM D7275	kN/m	22	16.5
	Cross direction			18	13.5
Tensile properties: Elongation	Longitudinal direction		%	60	45
	Cross direction			60	45
Static puncture		ASTM D4833	N	450	405
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.