

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 1.2 ft to be placed under the ends of the mandrel.

Composition (indicative)

Reinforcement:	Geotextile	8.8 oz/yd ²
Reinforcement:	Glass fleece	1.5 oz/yd ²
Binder:	Elastomeric bitumen	141.6 oz/yd ²
Surface finish:	Sand	7.4 oz/yd ²
Underside finish:	Peel-off silicone coated film	1.2 oz/yd ²

Characteristics

		Standards	Units	Average	Minimum
Dimensions	Length	-	ft	213	210
	Width		ft	16.70	16.40
Thickness (on finished product)		ASTM D5199	mil	189.00	165.40
Surface mass		ASTM D5261	oz/yd ²	171.10	147.50
Tear resistance	Longitudinal direction	ASTM D4073	lbf	214	160
	Cross direction			191	143
Tensile properties: Strength	Longitudinal direction	ASTM D7275	lbf/in	188	142
	Cross direction			166	124
Tensile properties: Elongation	Longitudinal direction		%	60	45
	Cross direction			60	45
Static puncture		ASTM D4833	lbf	128	115
Flexibility at low temperature	Longitudinal direction	ASTM D5147	°F	-4	5
	Cross direction			-4	5
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.