

Product data sheet

COLETANCHE ES4

Description

Coletanche ES4 is an elastomeric modified bituminous geomembrane.

Use

Extreme level of mechanical constraints, exposed or covered (aggressive materials, reinforced precautions). For example:

- Storage of harmful waste,
- Large dams,
- Railways (use directly under ballast),
- Railway bridges.

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	11.8 oz/yd ²
Reinforcement:	Glass fleece	1.5 oz/yd ²
Binder:	Elastomeric bitumen	159.3 oz/yd ²
Surface finish:	Sand	7.4 oz/yd ²
Underside finish:	Peel-off silicone coated film	0.4 oz/yd ²

Characteristics

		Standards	Units	Average	Minimum
Dimensions	Length	-	ft	180	177
	Width		ft	16.70	16.40
Thickness (on finished product)		ASTM D5199	mil	220.50	189.00
Surface mass		ASTM D5261	oz/yd ²	188.80	174.00
Tear resistance	Longitudinal direction	ASTM D4073	lbf	275	207
	Cross direction			230	173
Tensile properties: Strength	Longitudinal direction	ASTM D7275	lbf/in	200	167
	Cross direction			171	132
Tensile properties: Elongation	Longitudinal direction		%	60	45
	Cross direction			60	45
Static puncture		ASTM D4833	lbf	146	132
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.