

Product data sheet

COLETANCHE ES1

Description

Coletanche ES1 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 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 | 5.9 oz/yd ² |
| Reinforcement: | Glass fleece | 1.5 oz/yd ² |
| Binder: | Elastomeric bitumen | 112.1 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 | 328 | 325 |
| | Width | | ft | 16.70 | 16.40 |
| Thickness (on finished product) | | ASTM D5199 | mil | 137.80 | 122.00 |
| Surface mass | | ASTM D5261 | oz/yd ² | 123.90 | 109.10 |
| Tear resistance | Longitudinal direction | ASTM D4073 | lbf | 169 | 127 |
| | Cross direction | | | 112 | 84 |
| Tensile properties: Strength | Longitudinal direction | ASTM D7275 | lbf/in | 126 | 94 |
| | Cross direction | | | 103 | 77 |
| Tensile properties: Elongation | Longitudinal direction | | % | 60 | 45 |
| | Cross direction | | | 60 | 45 |
| Static puncture | | ASTM D4833 | lbf | 101 | 91 |
| 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.