

PRODUCT DATA SHEET

COLETANCHE ES 4 HFA



DESCRIPTION

COLETANCHE ES 4 HFA is an SBS elastomeric modified bituminous geomembrane.

USE

Extreme level of mechanical resistance, for use as environmental protection and underground works waterproofing (aggressive materials, reinforced precautions), in particular :

- Railways, directly under ballast,
- Dams

The membrane has the same friction angle on both sides.

Product use must be validated by Axter.

APPLICATION METHOD

By torch welding or other similar technique.

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 (g/m ²) :	Glass mat	50
Reinforcement (g/m ²) :	Non-woven geotextile	400
Binder (g/m ²) :	Elastomeric SBS	5400
Surface finish (g/m ²) :	Sand	250
Under surface finish (g/m ²) :	Peel-off silicone film	40

CHARACTERISTICS

		STANDARD	UNITS	AVERAGE	Min
Dimensions	Length	-	m	55	54
	Width		m	5.10	5.01
Thickness (on finished product)		ASTM D 5199	mm	5.60	4.80
Surface mass		ASTM D 3776	kg/m ²	6.40	5.90
Resistance to tearing	Longitudinal	ASTM D 4073	N	1225	919
	Cross direction			1025	769
Tensile properties : maximum tensile strength	Longitudinal	ASTM D 7275	kN/m	35	29.2
	Cross direction			30	23.2
Tensile properties : elongation	Longitudinal		%	60	45
	Cross direction			60	45
Static Puncture		ASTM D 4833	N	650	585
Flexibility at low temperature	Longitudinal	ASTM D 5147	°C	-20	-15
	Cross direction			-20	-15
Water permeability (liquid tightness)		ASTM E 96	m/s	6.10 ⁻¹⁴	<
Gas permeability (gas tightness)		ASTM D 1434-82	m ³ /(m ² .j.atm)	2.10 ⁻⁴	<

NOTE: AXTER COLETANCHE INC. may modify the composition and/or utilisation of its products without prior notice. Consequently orders will be filled according to the latest specification.

