

BASALTEX[®]

The thread of stone

FIRE PROTECTION FOR TUNNELS

Product description:

Oldroyd Xtf is a **FIRE RESISTANT TUNNEL CAVITY MEMBRANE**. The membrane consists of a specially profiled, studded and grooved flame retardant PP sheet on which is laminated a high tensile strength, fire resistant, **COATED BASALTEX FABRIC**.

The polyolefin sheet provides the structure of the membrane and ensures its waterproofness protecting the tunnels from the detrimental effects of dripping water, while the Basaltex fabric increases its mechanical strength considerably, as well as being of vital importance to the **FIRE RESISTANCE PROPERTIES** of the membrane.

Standardized fire testing (SBI - EN 13823, EN ISO 11925-2) by accredited laboratories have proven that the Oldroyd Xtf membrane is fire resistant for **more than 20 minutes at a temperature >1000°C**, and passes requirements for classification B-s2.d0 in accordance to EN 13501.

Test of toxic gases (such as HCl, HBr, HF, NO_x, HCN, SO₂) according to IMO FTPC Part 2 shows values of less than 50 ppm (minimum measuring limit), which is less than 10% of maximum allowed level. CO₂ formation is less than 20% of maximum allowed level.

Overview of fire resistant properties

Technical properties	Unit	Standard	Value
Fire test, classification	B-s2.d0	EN 13501	Passed
Fire test SBI		EN 13823	
-FIGRA (0.2MJ)	W/s		<80
-THR (600s)	MJ		<1
-SMOGRA	m ² /s ²		<50
-TSP (600s)	m ²		<140
-Fs (30s)	mm	EN ISO 11925-2	<150

Basaltex expertise

Basaltex has experience with **SPECIAL COATING SYSTEMS** and after-treatments of basalt fabrics. For this product, Basaltex developed a special coating system ensuring both stability of the fabric during processing as a good compatibility with the PP sheet.



Oldroyd Xtf is patent pending and a product of

