

# FIRESTOP

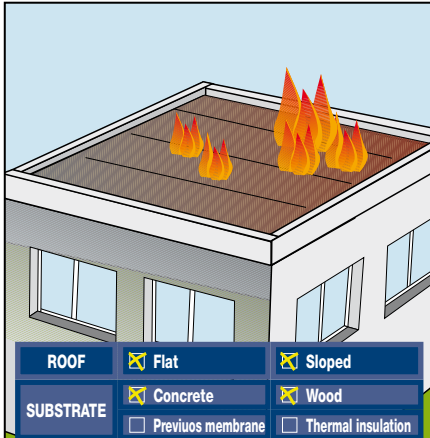
## • FIRESTOP POLYESTER

**FIRE RESISTANT ELASTOPLASTOMERIC POLYMER-BITUMEN WATERPROOFING MEMBRANE, WITH HARMLESS FLAME RETARDANT ADDITIVES, SELF-PROTECTED WITH SLATE GRANULES**




### PROBLEM

#### HOW TO PROTECT VISIBLE WATERPROOF COVERING LAYERS FROM FIRE

In many cases of fire, the roofing constitutes the building's weak point as it is put under stress by the load, the flames tend to rise upwards and the fire may be fuelled by the materials of the roof itself. In Italy, the technology and legal regulations regarding protection against fire coming from the interior of a building are highly developed. It must not be forgotten however, that many serious fires often start on the roof as a result of sparks carried by the wind from a fire in a nearby building, or even from the torch used to install roofing membranes. A heavy protection consisting of a layer of gravel or of a cement hood provides sufficient fire protection. This also applies to pitched roofs, when they are finished with a membrane with metallic self-protection. Not all structures however are suitable to support heavy protection and on flat roofs and ribbed metal sheets, coats with metallic foil cannot be applied and they are not recommended for use on insulating panels which have a high thermal resistance. To assess the behaviour of the membranes in a fire, INDEX is the only company in Italy that has equipped itself with the Nord Test appliance, approved by Swedish Institute SP, Sveriges Provnings-och Forskningsinstitut, which is valid for all Scandinavian countries, including Denmark, where fire prevention regulations are particularly strict because of the high number of wooden roofs in the country. The same test, bearing No.UNI ENV 1187/2, was selected also by CEN which, as designated by the EU, is delegated to setting up fire resistance tests.



### DESCRIPTION

CATEGORY	CHARACTERISTICS	
		
SPECIAL ELASTOPLASTOMERIC	WATERPROOF	FIRE RESISTANT



**FIRESTOP POLYESTER** is a fire resistant membrane containing harmless inorganic anti-flame additives - it is the result of INDEX's research. It does not have any of the counter-indications typical of membranes self-protected with a metallic foil. It can be applied without any protection on both flat and pitched roofs, and on insulating layers with high thermal resistance. **FIRESTOP POLYESTER** is a polymer bitumen waterproofing membrane which satisfies the Scandinavian fire resistance regulations: Nord Test Method-Resistance to fire spread according to SS 02 48 24 - NT FIRE

006, assimilated as European method UNI ENV 1187/2. Fire resistance is long lasting and is constantly controlled in the factory. The reinforcement of **FIRESTOP POLYESTER** consists of a rot-proof, non-woven single strand polyester fabric; the waterproofing mass which covers it resists temperature ranges and ageing. The upper side, self-protected by hot-bonded and pressed slate granules, is a further protection against fire. Over this, a side overlapping strip without any slate, protected with a strip of Flamina film (to be torch melted) enables you to seal the joint. This film also lines the membrane's lower side, ensuring it is laid fast and safe.

### FIELDS OF USE

**FIRESTOP POLYESTER** protects the entire covering system from fire when used as a final layer on roofs with visible waterproofing coat. It is particularly suitable for covering systems in ribbed metal sheets and wood. Furthermore, it is recommended for use on systems where insulating panels which are sensitive to fire will be laid and as an under-tile membrane on wooden structures. **FIRESTOP POLYESTER** can be used on either flat or sloping roofs.



**INTENDED USE OF "CE" MARKING SPECIFIED ACCORDING TO THE AISPEC-MBP GUIDELINES**

#### EN 13707 - REINFORCED BITUMEN SHEETS FOR ROOF WATERPROOFING

- Upper layer in multi-layer systems without permanent heavy surface protection
- FIRESTOP POLYESTER 4,5 kg/m<sup>2</sup>

#### EN 13859-1 - UNDERLAY FOR DISCONTINUOUS ROOFING

- FIRESTOP POLYESTER 4,5 kg/m<sup>2</sup>

### METHOD OF USE



TORCH APPLICATION



HOT AIR APPLICATION



NAILING

### ADVANTAGES

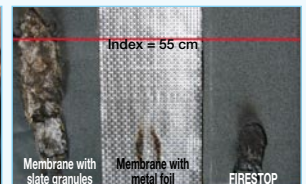
- The membrane is fire-resistant and can be installed also on insulation with a high thermal resistance.
- Contain non-toxic flame retardant additives.

### CERTIFICATION



**SITAC**

with certifies the resistance to fire conform to European standard EN-1187



## TECHNICAL CHARACTERISTICS

	T	FIRESTOP POLYESTER
Weight (EN 1849-1)	±15%	4,5 kg/m <sup>2</sup>
Roll size (EN 1848-1)	≥	1x10 m
Reinforcement		"Non-woven" Spunbond polyester fabric
Watertightness (EN 1928 - B method)	≥	60 kPa
Maximum tensile force Long./Trasv. (EN 12311-1)	~20%	750/600 N/50 mm
Elongation (EN 12311-1)	-15 V.A.	50/50%
Resistance to tearing (nail shank) (EN 12310-1)	~30%	150/150 N
Dimension stability	≤	-0,5/+0,5%
Flexibility to low temp. (EN 1109)	≤	-5°C
Flow resistance at elevated temperature (EN 1110)	≥	120°C
• after ageing (EN 1926-1110)	-10%	NPD
Reaction to fire class (EN 13501-1)		Euroclass F
External fire performance (EN 13501-5)		F <sub>roof</sub>

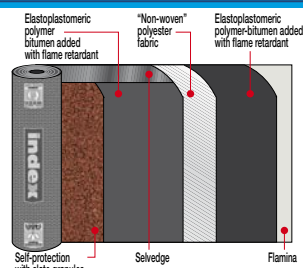
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The figures shown are average indicative figures relevant to current production and may be changed or updated by INDEX S.p.A at any time without previous warning. The advice and technical information provided, is what results from our best knowledge regarding the properties and the use of the product. Consider

## MEMBRANE COMPOSITION

### FIRESTOP POLYESTER



## PRODUCT FINISH



**EMBOSSING FLAMINA.** The embossing on the lower surfaces of the membranes finished with Flamina film makes it possible to lay the product precisely and quickly; forming a smooth surface when melted with the torch. It indicates the correct melting temperature and lets the film retract faster. The embossing also enables optimal vapour diffusion; in spot bonded and loose laid installation, in the points where it remains intact, preventing blisters and swelling.



**MINERAL PROTECTION.** On the visible face of the membrane, a protective coating made up of slate granules of various colours is hot bonded. This mineral shield protects the membrane from ageing caused by UV rays.

- FOR ANY FURTHER INFORMATION OR ADVICE ON PARTICULAR APPLICATIONS, CONTACT OUR TECHNICAL OFFICE
- IN ORDER TO CORRECTLY USE OUR PRODUCTS, REFER TO INDEX TECHNICAL SPECIFICATIONS

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Construction Systems and Products

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