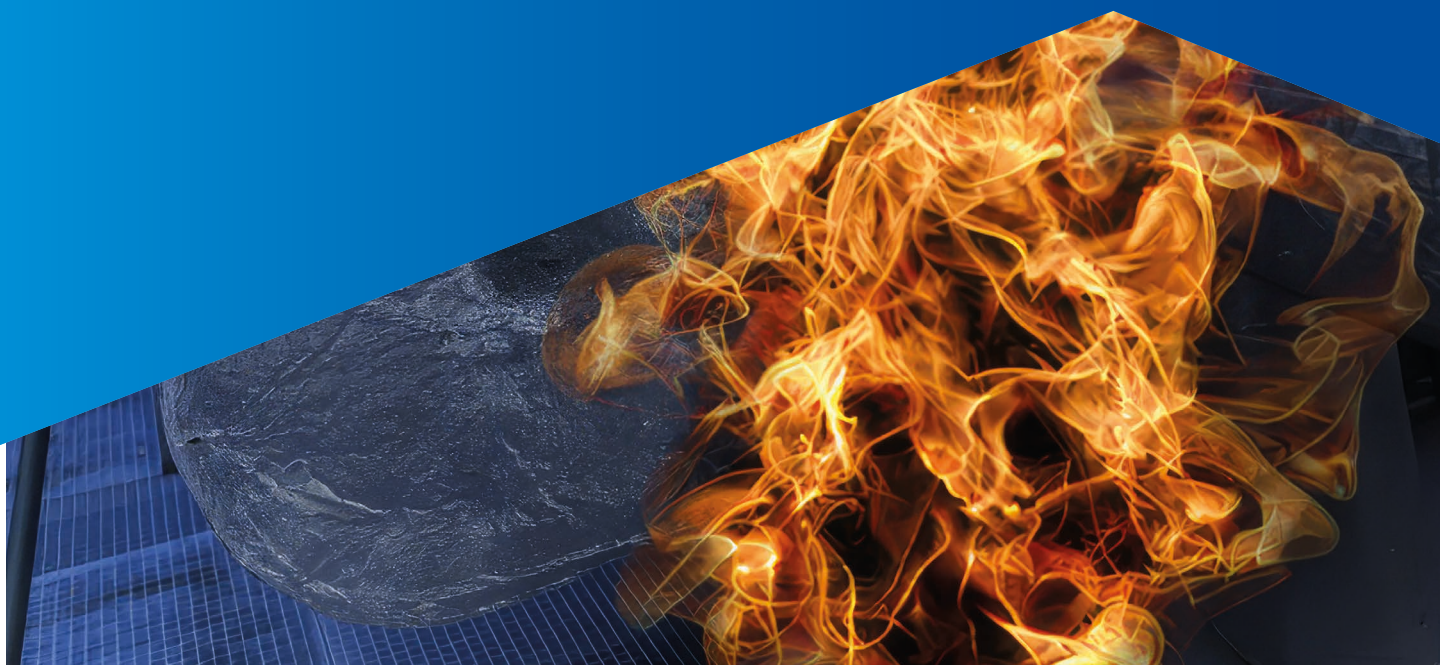




The exclusive  
mat for passive  
fire protection

TEKNO-FIRE EI 120





# TEKNO-FIRE

## Insulating mat EI 120



### Advantages

- Standard dimensions for pipes and channels
- Maximum adaptation flexibility
- Cannot be altered over time
- Easy installation and replacement of parts
- Reduced management and maintenance costs
- Monitoring of product without system stop
- On request, it can be created in any format, for off standard needs



**Certified product**  
**FIRE RESISTANCE**  
**CLASS: EI 120**

### Fields of use

TEKNO-FIRE can be used to protect against fire and heat in:

- horizontal service ducts and/or vertical generic ducts
- inspection hatches in steel sheet metal (600 X 450 mm) present on electrical duct protection channels
- water pipes
- gas tubes
- compartments or protections produced requiring EI 120 characteristics

**Quote on request**

### Coating

Aluminium-coated glass fibre fabric (internal part);  
400 g/m<sup>3</sup> aluminium-coated glass fibre fabric (external part)

### Internal material

Bio-soluble fibre felt  
non-combustible, 100 kg/m<sup>3</sup>

### Supply format

**Length 7.30 m x width 0.67 m**

On request you can have mats already cut to size, sewn on all 4 sides (tailor-made kit)

**Thickness:** 30 mm  $\pm$  5%

**Storage:** protect from water

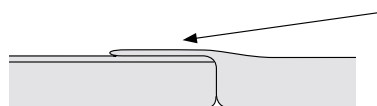
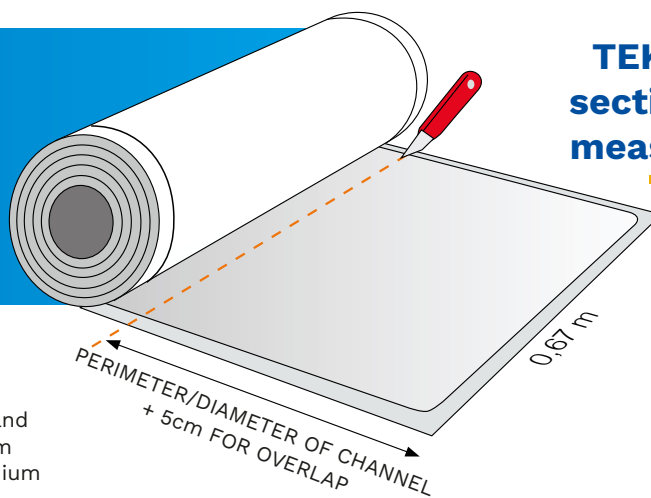


Industrial



Passive fire protection

## TEKNO-FIRE section cut to measurement



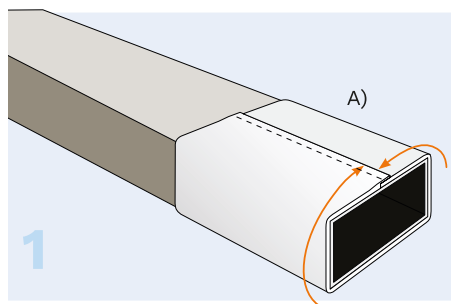
"Step" overlap and fixture with 5 cm adhesive aluminium tape.

The process begins with a **TEKNO-FIRE section cut to measurement and wrapped around the perimeter of the system.**

The second section is joined to the previous one, overlapping the two "stepped" parts and then the ones that follow. Overlapping of the head should be 5 cm, which must be taken into account when cutting the sections.

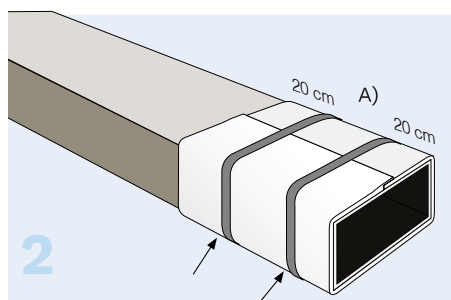
**Fixing of the single section or between the sections is carried out using 5 cm aluminium adhesive tape.**

**In situations where the perimeter is over 3 m, the weight of the coating requires a greater retaining force and AISI 304 steel wire is used instead of adhesive tape, which is then covered with 5 cm aluminium tape.**

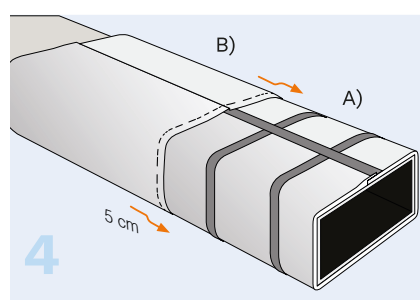


Perimeter wrapping of Tekno-Fire section **A)** on channel. The joint overlap is longitudinal.

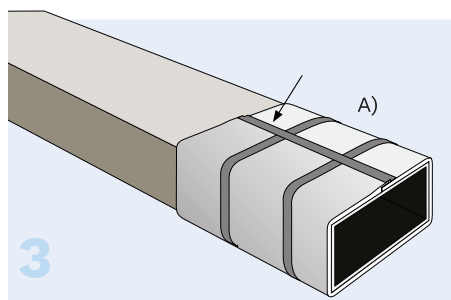
### Application sequence on channel



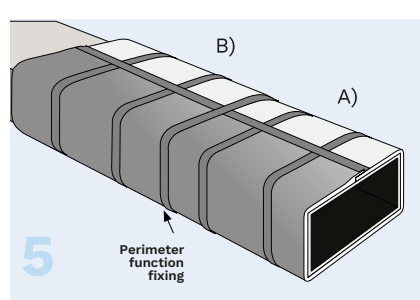
Fixture of Tekno-Fire section on channel with 5 cm aluminium adhesive tape, arranged in the perimeter direction, 20 cm approx. from the end of the covering.



Tekno-Fire section **B)** cut to measurement and arranged in sequence, as indicated in point 1, with the perimeter joint overlap (5 cm) between the two consecutive sections.



Fissaggio del sormonto di giunzione longitudinale di Tekno-Fire con lo stesso nastro adesivo



Fixture with aluminium adhesive tape of section **B)**, according to points 2-3. Complete fixture with the same tape on the overlap of the perimeter joint between the two sections **A-B)**.



## Certification

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Istituto Giordano n. 267981/3192FR - EI 120  
on 06/04/2010. Fire test conducted in the  
Certified Laboratory approved by the Ministry on  
06/04/2010, according to standards,  
UNI EN 13501-2:2008, UNI EN 1363-1:2001  
and UNI EN 1366-5:2005



[www.teknisol.it](http://www.teknisol.it)