

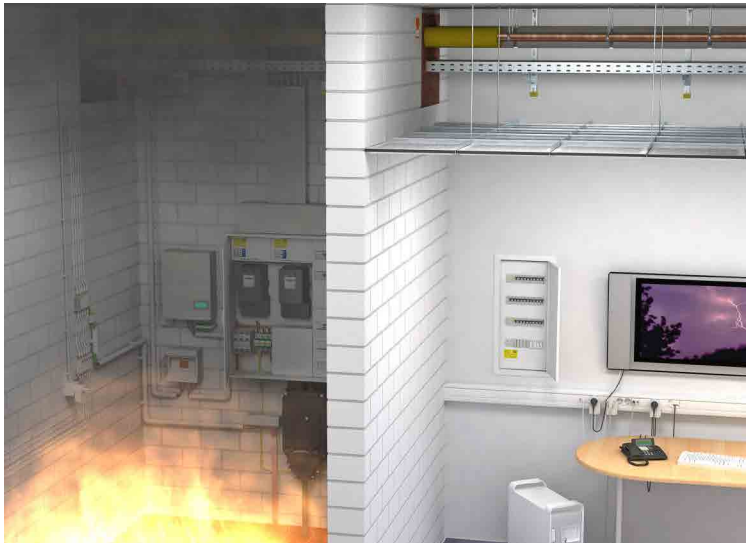
**Fire protection in Electrical Technology**

**OBO**  
**BETTERMANN**



# Protection Aims

Measures must be taken for buildings in which many people meet regularly, so that if there is a fire, no one is injured. There are three aims that are to be followed for effective fire protection.



## First Aim: Limit the spread of fire

Fire sealants which reliably seal the ceiling and wall penetration of cables and pipes, should be used.

The following results are observed on using passive fire sealants:

- The spread of fire and smoke is prevented.
- Room closure guaranteed.
- Avoids heating up of cable support systems.



Behavior of cables in case of fire: PVC-insulated, low-smoke, halogen-free(from left)

## Second Aim: Protect escape and rescue routes

According to the construction regulation, emergency escape route is obligatory in every building. It must be guaranteed that, if there is a fire, these routes can be used to leave the building without any risk

This requirement can be fulfilled using appropriate type of installation

- Concealed installation.
- Installation in fire protection duct systems.
- Installation above suspended fire protection ceilings.
- Use of non-combustible materials.



## Third aim: Function maintenance - important electrical systems must continue to function

Function maintenance only relates to those areas which provide the power supply to safety relevant systems. The power supply to these systems must be ensured for a specific period of time, even if there is fire.

### 30 minutes: Function maintenance for a safe evacuation and rescue

The function maintenance must be guaranteed for the following equipment during this time:

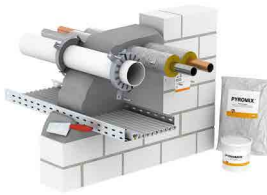
- Safety Lighting systems.
- Lifts with fire control.
- Fire alarm systems.

### 90 minutes: Function maintenance for effective fire-fighting

Equipments in this case includes:

- Water pressure increase systems for fire supply.
- Mechanical smoke extraction systems.
- Fire brigade lifts & Bed lifts in hospitals and similar equipment.

# OBO Passive Fire Sealants



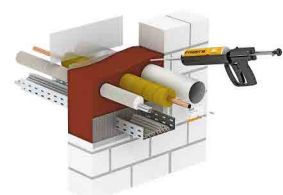
## PYROMIX

Combination insulation systems made of special fire protection mortar, fire resistance class S 90



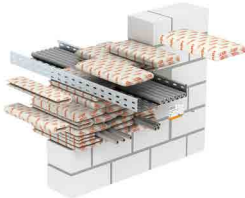
## PYROPLATE Fibre

Combination insulation system with coated mineral fibre plates, fire resistance class S90



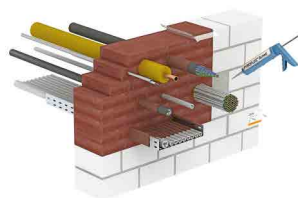
## PYROSIT NG

Combination insulation system made of 2-component fire protection foam from cartridges, fire resistance class to EI120



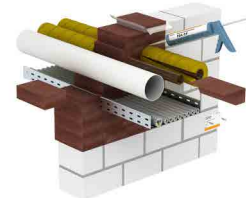
## PYROBAG

Cable insulation made of fire protection bags with special, fibre-free filling, fire resistance class S90



## PYROPLUGS Block 220

Cable insulation made of foam blocks, fire resistance classes to EI120



## PYROPLUGS Block 200

Combination insulation made of foam blocks, fire resistance class S90



## PYROPLUG Peg

Cable insulation made of plugs, fire resistance classes S30 to S90



## PYROPLUG Shell

Systems for the insulation of cables with pipe shells, fire resistance classes S30 to S90



## PYROCOMB Tubes

Cable insulation with pipe seals to insulate electrical installation pipes, fire resistance class S90



## PYROCOMB

Pipe seals for insulation of combustible pipes in the PYROMIX, PYROPLATE fibre systems and a stand-alone solution, fire resistance class S90



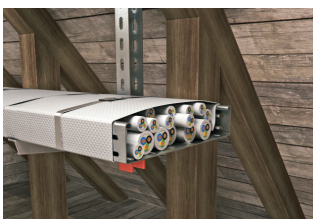
## PYROPLUG Mini

Systems for insulation of cables with one-component filler, fire resistance class S90



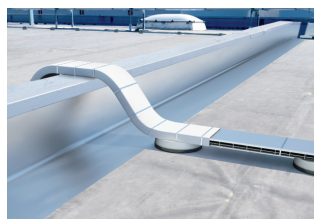
## PYROMIX Screed

System for insulation of cables with one-component filler and mineral wool, fire resistance class S90



## Cable Bandage

To bandage cable support systems in areas with many combustible materials



## Cable Bandage in Photovoltaic application

To bandage cable support systems in areas with many combustible materials



## Cable Ducts

To achieve electrical function maintenance

## Sales Offices:

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Coimbatore  
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Ernakulam  
8879637273

Gujarat  
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Nagpur  
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