



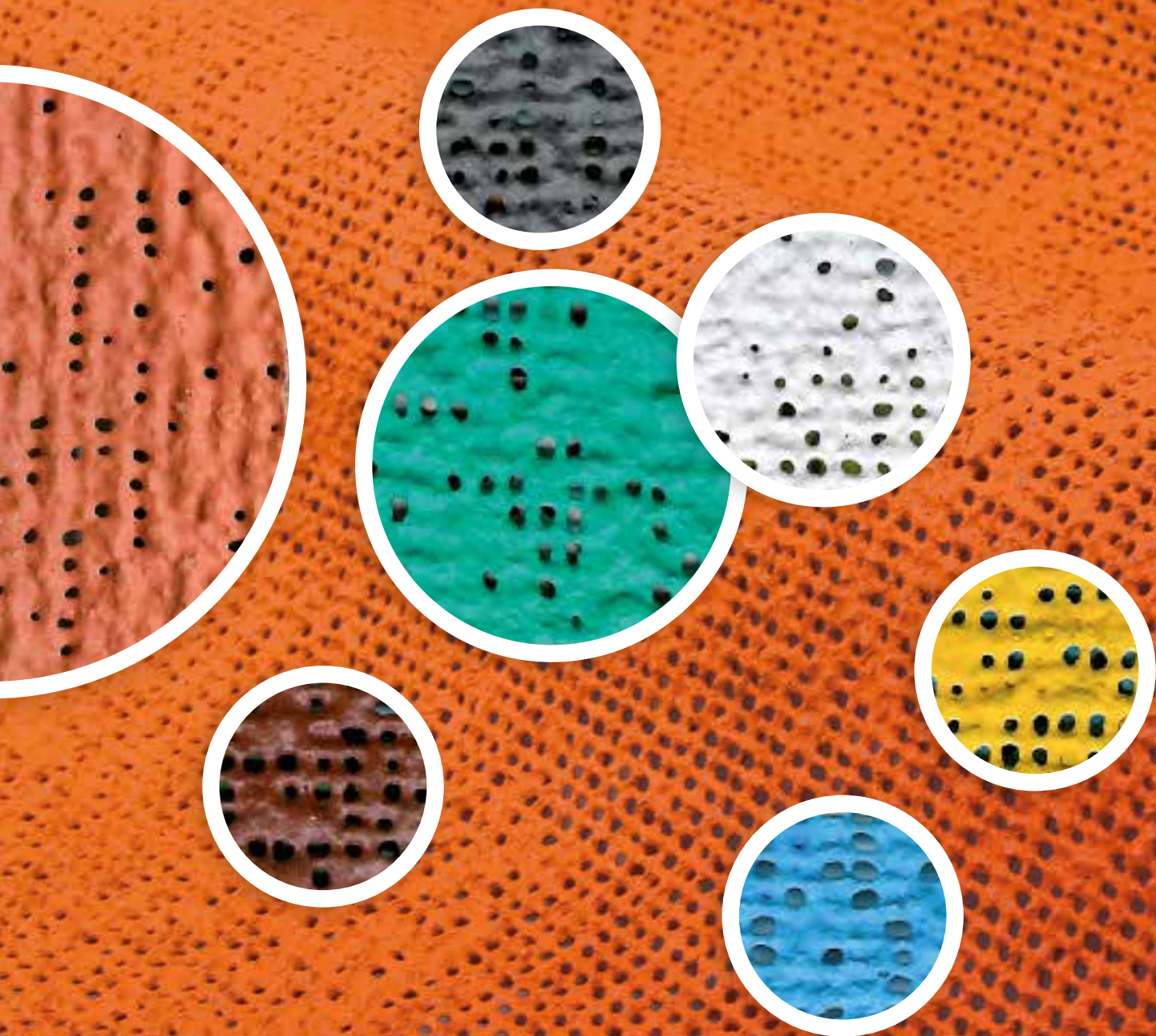
We don't let
anything burn!



For over 20 years, we have been leaders in all things related to fire protection and prevention.

HAPUFLAM

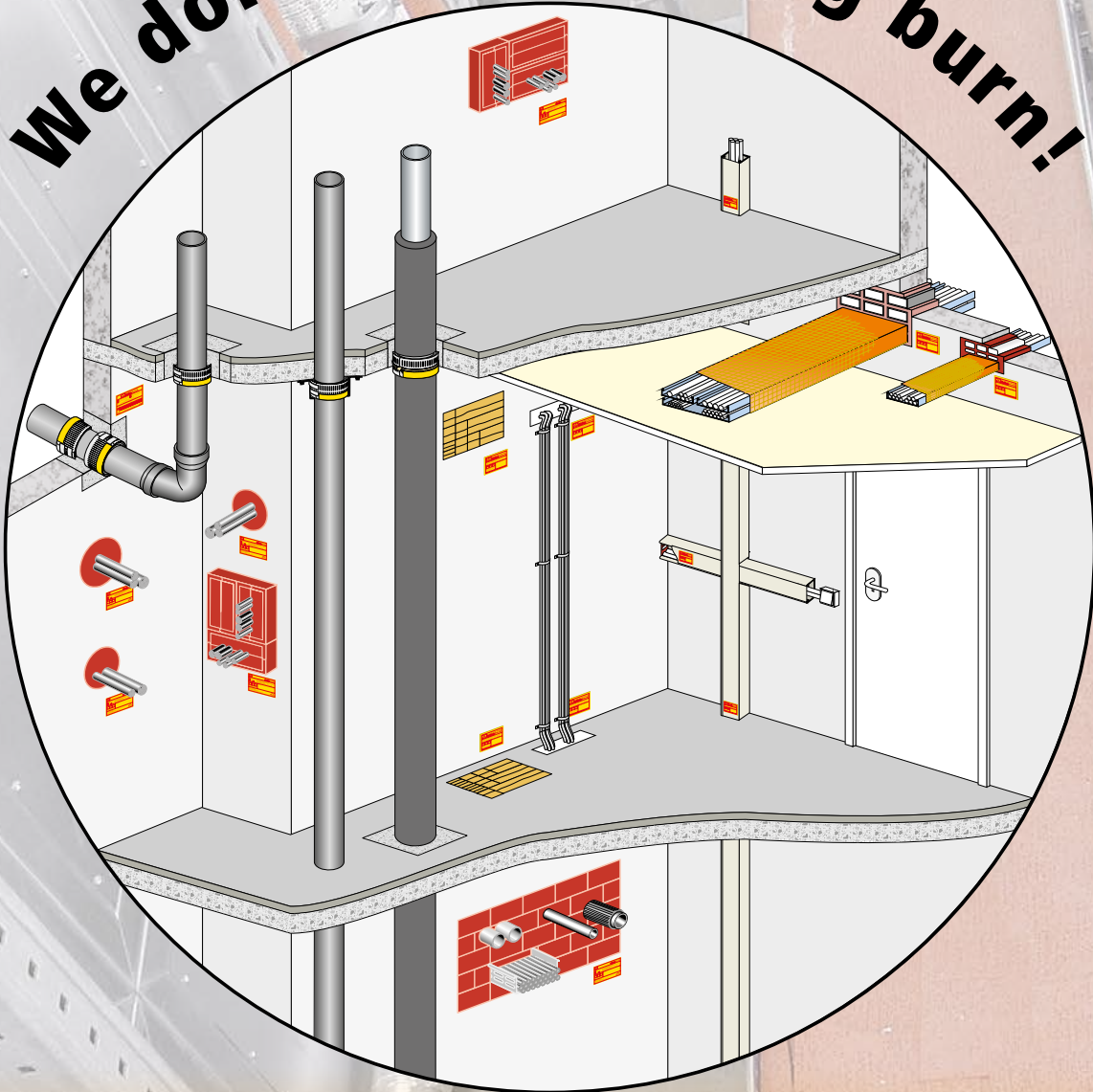
www.hapuflam.de



What colour should it be?

Our Hapuflam fire protection lattice is available in various colours – the colour has no influence on its reaction to fire

We don't let anything burn!



Allianz Arena, Munich



Olympia Stadium, Berlin

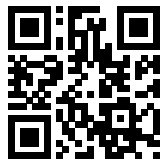


Airport, Frankfurt



Phoenix Centre, Hamburg

Fire protection on fabric with European approval

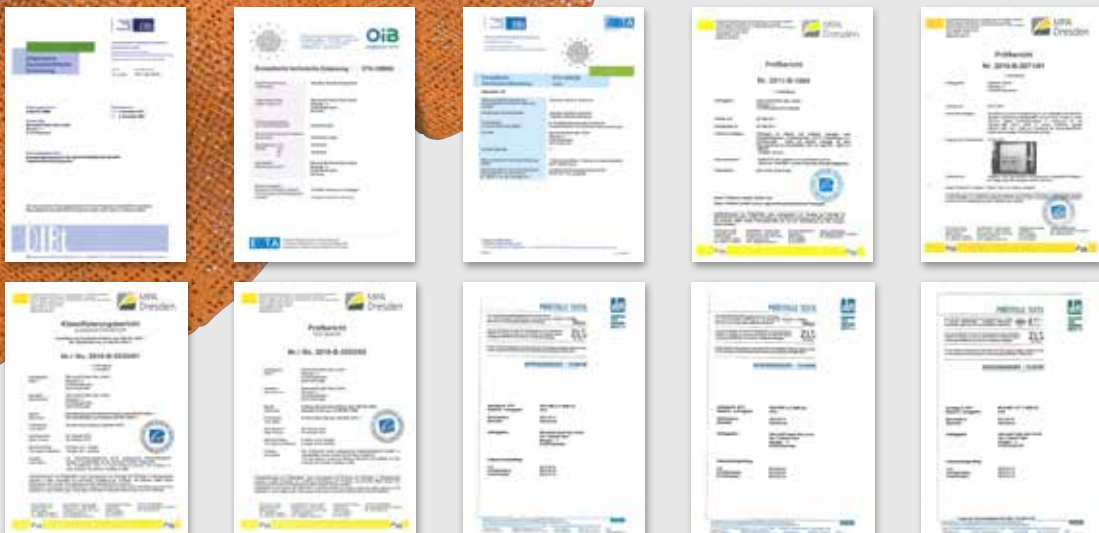


Unique worldwide – thanks to ventilation and extreme tear resistance

The Hapuflam ® fire protection lattice

is setting new standards in preventative fire protection. In the event of the self-ignition of electrical wiring (cables) and wire systems (cable systems) caused by short-circuiting or overheating, it prevents the fire from spreading via the electrical cables and cabling systems fitted with fire protection coatings – especially thanks to the action of the intumescent material.

The fire protection lattice offers safety on a high level when exposed to fire or heat.



The advantages are

Our fabric offers safety on a high level when exposed to fire or heat.

In this way, we are setting completely new standards in preventative fire protection.



- Building approval
Z-56.217-3569



- European Technical Assessment
ETA-16/0748
- European Technical Assessment
ETA-12/0566

- tested in accordance with
IEC 60331-21
(testing time 120 min.)



Technical properties

- ✓ Flexible (can be adapted everywhere)
- ✓ Light (no static problems)
- ✓ Space-saving (no additional suspension necessary)
- ✓ Thin (low installation height)
- ✓ Perforated (operating heat can escape)
- ✓ Tear-resistant (for difficult installation conditions)

Further advances:

- No maintenance costs
- Simple control possible (visual)
- Early recognition possible through reaction of the fabric (discolouration)
- The open net structure allows you to precisely localise the fire, even during the smouldering phase (early fire detection)
- Can be reused when renovating
- Can be combined with other fire protection systems (e.g. sprinklers)

Simple Installation



✓ Simple, reasonably priced installation



✓ No waste, no dirt



✓ No cable cleaning work



✓ Even coating



✓ Installation errors prevented



Advantages :

✓ Clean installation without additional coating

✓ Cost saving

✓ Time saving thanks to flexible applications

✓ Possible to retrofit at any time without difficulty



Using the specially developed Hapuflam® mounting clips, cables can be **removed without a problem** or re-laid (frequent opening and closing possible)

Hapuflam® Fire Protection Coating Installation Instructions



1. Preparing the fire protection lattice

Cut the lattice to the right size using a blade or pair of scissors. Take into account slopes and overlaps (each 40 mm).

2. Identification labels

The labels should be placed somewhere clearly visible around the coating.



3. Means of installation

• Means of installation

The following fastening elements are suitable for installation on ceilings and walls: HUS-H screws, DBZ wedge nails, metal tubular or perforated tape, and steel rails.

• Sealing / connecting the mats

Seal and connect the mats with Hapuflam®- mounting clips (item no. 8003) or galvanised binding wire. The middle web serves to fix the montage clips to the lattice, the two outer webs serve to seal the coating. If you exceed the mat length, more mats can be fastened with mounting clips to make this longer. Thinner bundles of cables can easily be sealed with galvanised binding wire.

4. Overlaps

The overlaps must be approx. 4 cm from the connecting lattice in both vertical and horizontal directions. They may not have any gaps, holes or breaks and must be sealed with galvanised binding wire, if applicable.

5. Wrapping possibilities

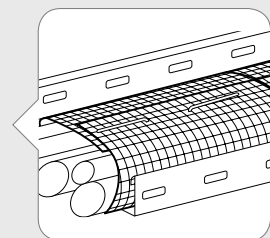
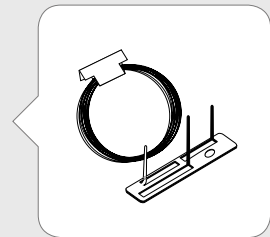
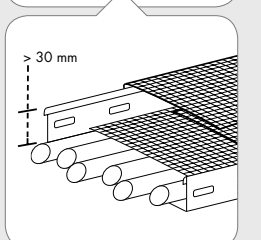
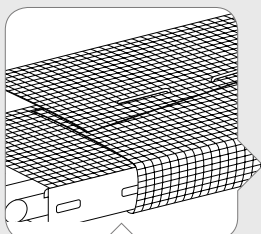
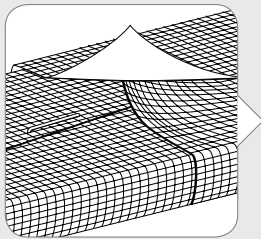
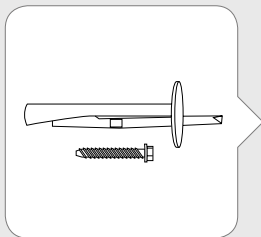
The Hapuflam® fire protection coating can be used in several ways to protect cables.

• Inner wrapping

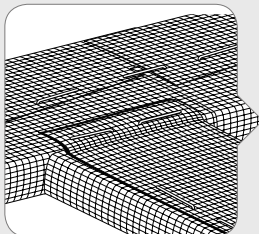
For cable trays still to be occupied, or that aren't crowded, the lattice can be fitted into the empty tray and then laid with cables.

• Outer wrapping

If the cable tray is full, the cables are laid inside and the tray coated with the lattice. If the cable tray is not very full and the distance between the lattice and cables is larger than 3 cm, you must lay a strip of lattice in the tray on top of the cables. If retrofitting, the cables can also be laid on top of the lattice.

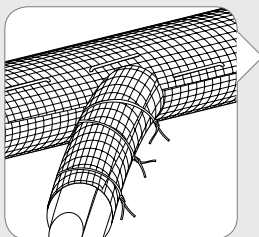


Hapuflam® Fire Protection Coating Installation Instructions



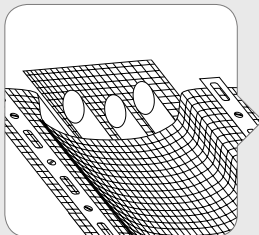
6. Cable outlets

Cable outlets must also be wrapped. Cut the lattice in such a way that it can be folded together to form no gap. The lattice must be fastened with the mounting clips (or galvanised binding wire) in such a way that the coating is closed. For a smaller scale, it is recommended to use galvanised binding wire.



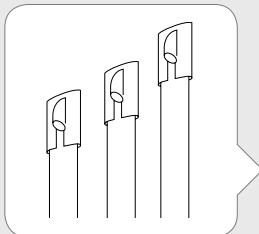
7. Installation on ceiling and wall

Select the distance of the ceiling fastening (screw distance) so that the fire protection lattice comes flush with the ceiling. Ensure that the lattice overlaps by at least 4 cm both horizontally and vertically. Fasten the lattice with the mounting clips (or galvanised binding wire) in such a way that the coating is closed. The clip distance may be a maximum of 40 cm.



• Ceiling installation with a distance of > 3 cm

If the distance to the ceiling is greater than 3 cm, you must insert a strip of fire protection lattice. With very wide cable trays, ensure that the distance of the cables to the fire protection lattice is less than 4 cm. You may also need to support and fasten the lattice, e.g. with U-channels and in the middle. When suspending cable trays and wall brackets, the lattice should be cut and folded in such a way that no gaps form.

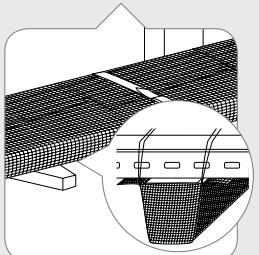


8. Large-scale anchoring

For direct ceiling installation, use metal tubular or perforated tape for large-scale anchoring.

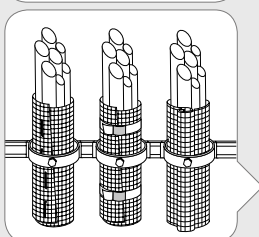
9. Large-scale anchoring

For ceiling installation with tray brackets, fasten the lattice, e.g. using steel cable ties with clasps to prevent the lattice from sagging.



10. Ceiling installation with group holders

Lay the cable bundle coated with the fire protection lattice completely in the group holder.

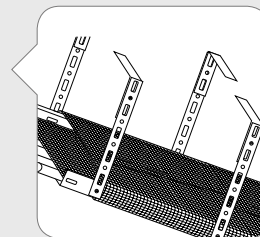
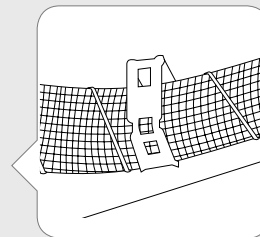
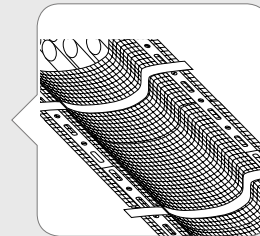
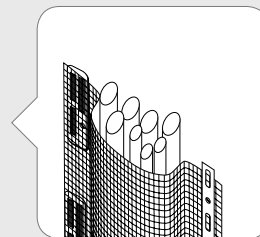
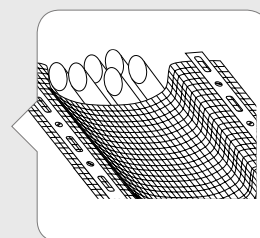


11. Ceiling installation on slopes

For laid cable trays with an angle of $\sim 45^\circ$ and vertical cable trays, the lattice must be installed directly onto the cables.

12. Wall installation using support rails

Lay the cable bundle coated with the fire protection lattice in the holder and do not tighten too much.





Magdeburg Train Station



Allianz



Dresden Train Station

Installation Examples



Magdeburg Train Station



European School Munich

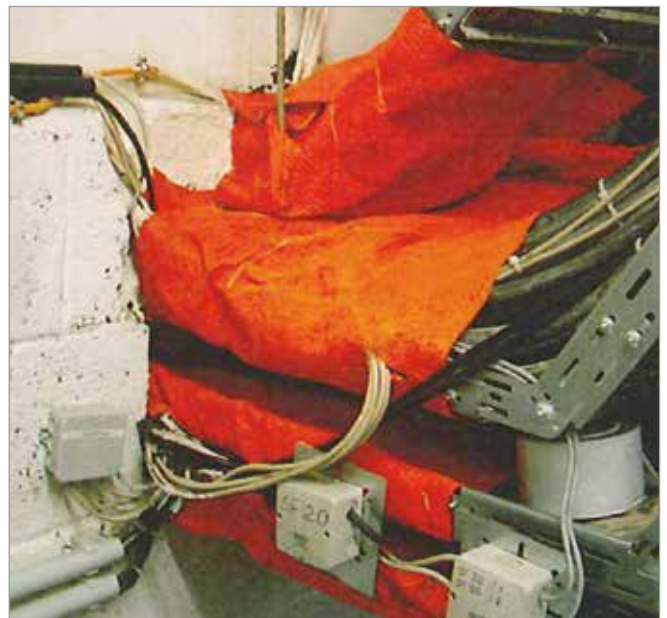
Hapuflam ® << Easy >> Fire Protection Lattice System

Partitioning options according to ETA-12/0566 :



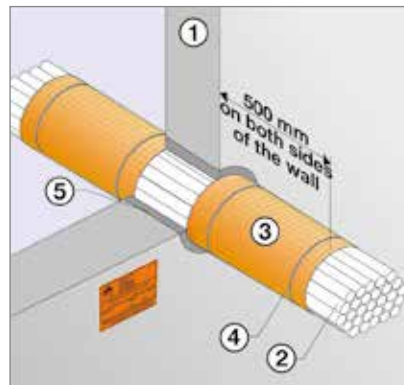
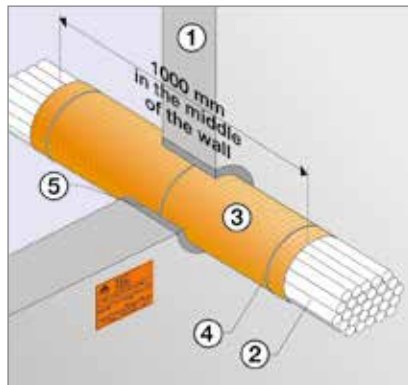
- ✓ Wall partitioning up to 100% cable occupation
- ✓ Possible to implement metal cable carrying systems
- ✓ Elimination of additional drilled holes
- ✓ Possible to seal remaining openings with mineral wool (melting point 1000 °C)
- ✓ No additional coating necessary
- ✓ No mess caused by dust and water
- ✓ Time saving thanks to flexible applications
- ✓ Fire-resistance class EI90 / E90 in accordance with EN 13501-2:2007+A1:2009

- ➔ Clean installation without additional coating
- ➔ Cost saving
- ➔ Time saving thanks to flexible applications
- ➔ Possible to retrofit at any time without difficulty

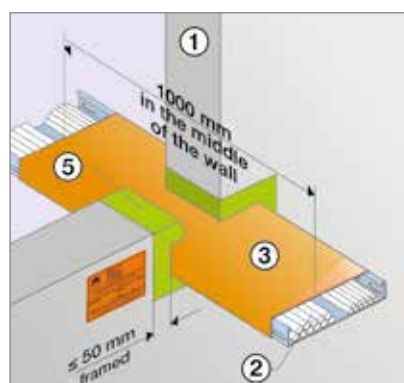
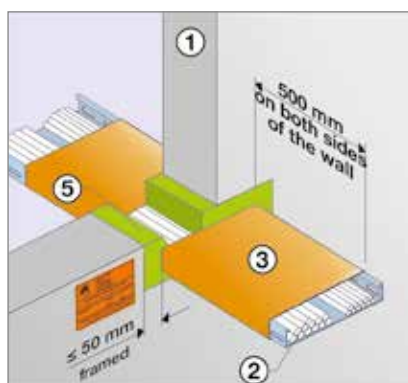
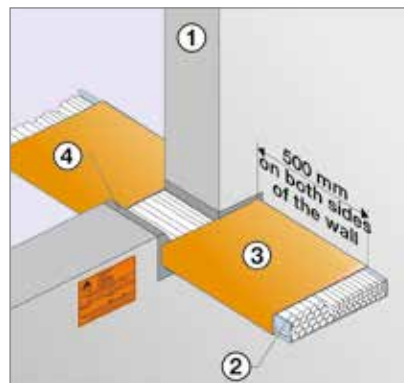
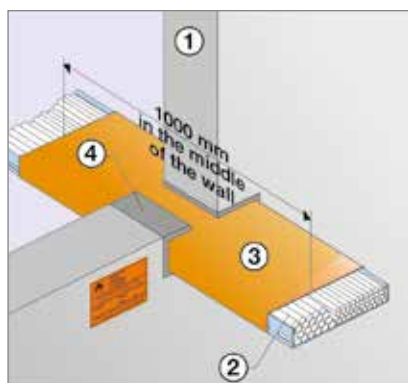
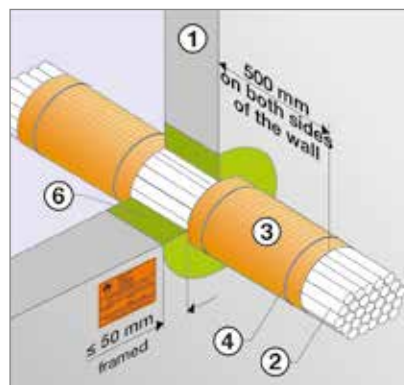
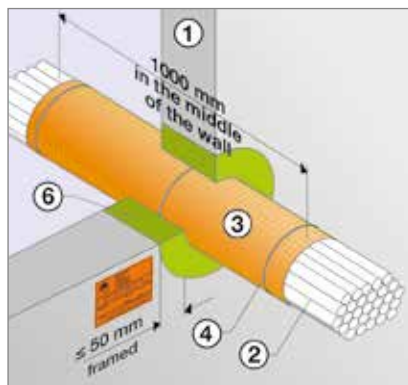


Hapuflam® « Easy » Fire Protection Lattice System

Partitioning options according to ETA-12/0566 :



- 1) Solid wall ≥ 100 mm
- 2) Cable bundle
- 3) Hapuflam® fire protection lattice
- 4) Fastening
 - Metal band clamps
 - Galvanised binding wire
 - Metal mounting clips
- 5) Mineral mortar
- 6) Mineral fibre stuffing, melting point $> 1\ 000$ °C





Axel Springer



Lübeck University Hospital



Allianz

Installation Examples

You should always be prepared for hard times. Noah didn't just start building his ark once it was raining.

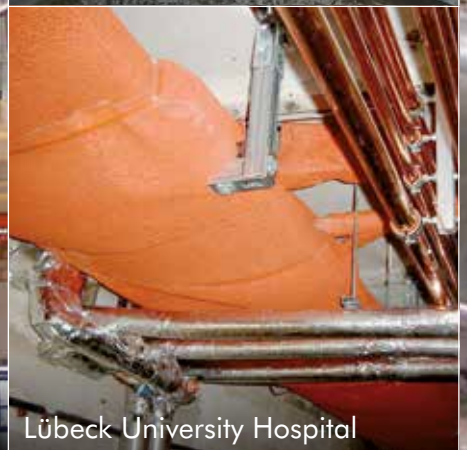
(Willy Meurer)



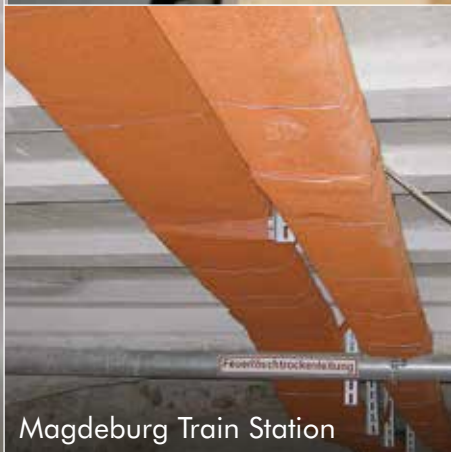
EVIM Wiesbaden



Erding Solar Elektrotechnik GmbH



Lübeck University Hospital





Axel Springer



Lübeck University Hospital



Allianz

Installation Examples

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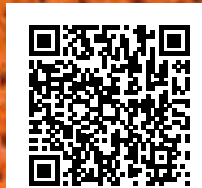


Lübeck University Hospital

You can rely on us for all things
fire protection and prevention!

To guarantee this, we are ready to put our
hand in the fire.

Here is the proof by
the image !



Come and visit our exhibition
stand.

You can find the updated times on our
webseite.



www.hapuflam.de



Our production range

- Hapuflam® Fire-Protection-Lattice
- Hapuflam® Mounting Clips

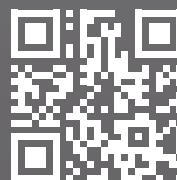
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