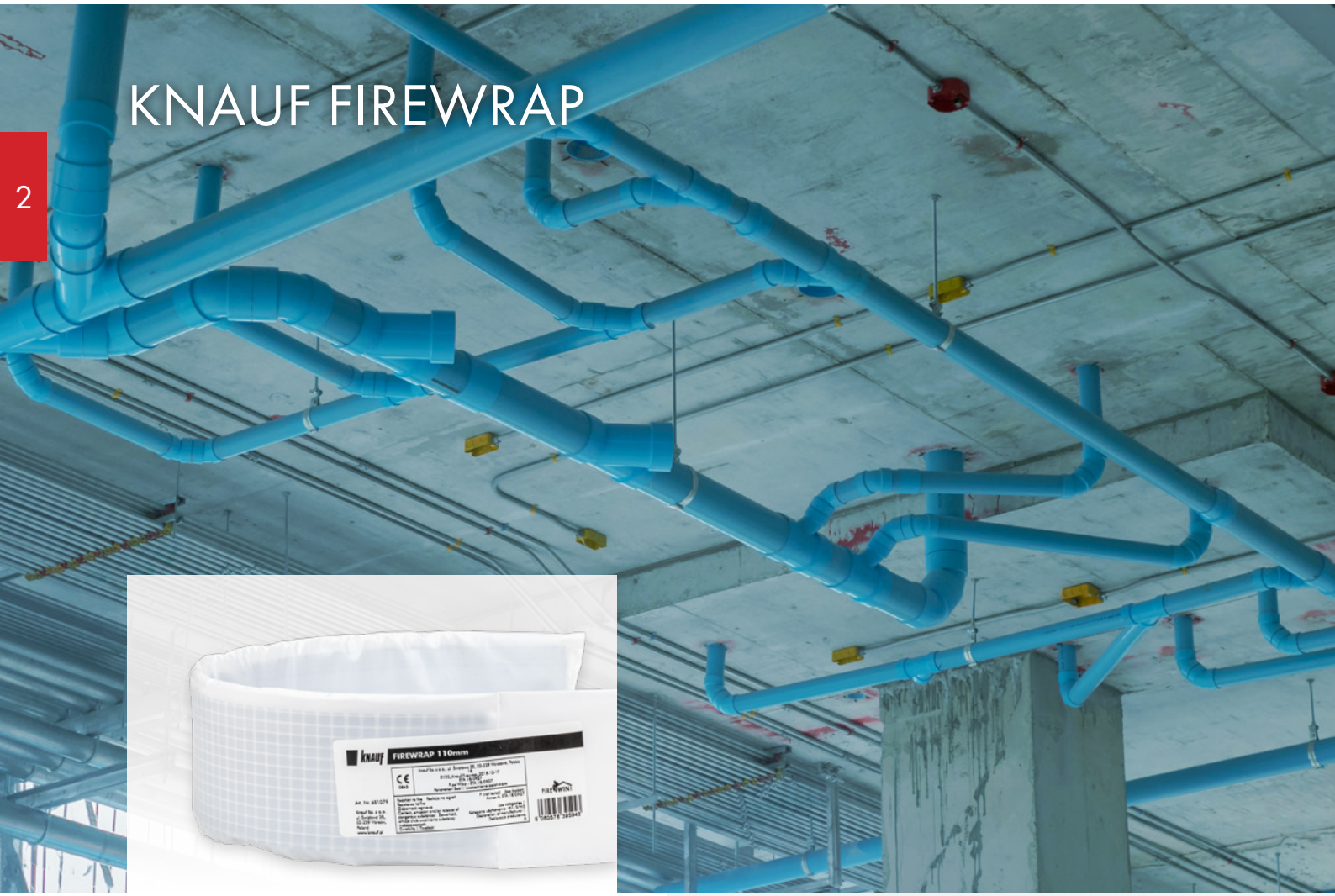
KNAUF FIREWRAP



Knauf Firewrap is designed to maintain the fire resistance of fire separating walls and floors when these are breached by plastic pipes or metal pipes with continuous combustible insulation, and may be used in gypsum, masonry or concrete walls and concrete floors.

Each pipe wrap consists of a graphite based reactive intumescent strip, which reacts to heat and closes the opening left by the softening plastic pipe or pipe insulation in a fire. The pipe wrap is installed completely around the pipes or insulation and secured with the self-adhesive tab. The annular space around the pipe wrap is sealed with Knauf FP Mortar or Knauf FPC Panel.

Method of delivery

- Knauf Firewrap 55mm, article no. 651077
- Knauf Firewrap 82mm, article no. 651078
- Knauf Firewrap 110mm, article no. 651079
- Knauf Firewrap 125mm, article no. 651080
- Knauf Firewrap 160mm, article no. 651084
- Knauf Firewrap 200mm, article no. 651081
- Knauf Firewrap 250mm, article no. 651082
- Knauf Firewrap 315mm, article no. 651083
- Knauf Firewrap Roll 50mmx25m, article no. 651085
- Knauf Firewrap Roll 75mmx25m, article no. 651087
- Knauf Firewrap Roll w/adh 50mmx25m, article no. 651088
- Knauf Firewrap Roll w/adh 75mmx25m, article no. 651089

Installation Instructions

1. Ensure the faces of the aperture opening are free of dust and any other contaminants. The faces may be moistened for better adhesion.
2. Fix a suitable pipe wrap around the service penetration and fasten with the tape as tightly as possible in order to prevent any excess opening between the pipe wrap and the service.
3. In floors, only one pipe wrap is required to be installed flush with the soffit so that the edge of the wrap is visible from the underside when back-filled. For walls it is normal to fit a wrap on both sides of the wall, again with the edge just visible.
4. When installing pipe wraps in hollow floor slabs or boards, level the fire seal with the soffit side. Ensure there is sufficient thickness of concrete below the void for the depth of the fire seal. Where this is not the case, tubular voids should be filled with stone wool normally the same thickness as the depth of the floor slab.
5. Once the wrap is securely installed, fire seal the empty aperture surrounding the pipe wraps as follows:
   Floors with Knauf FP Mortar: Install a cast shutter plate or board. Make sure that this achieves a very tight seal. Pour clean water into a suitable mixing vessel and pour enough mortar to obtain the required consistency. Pour or trowel the mortar onto the shutter making sure that it flows into all corners and around services. Apply a firm pressure to the mortar to eliminate any trapped air bubbles.
   Walls with Knauf FPC Panel: Cut the required panels to suit the aperture dimensions and type and size of service penetrations. All exposed and cut edges of the panels can be sealed with Knauf FP Coating or Knauf FPA Acrylic prior to fitting which will act as an adhesive and ensure a smoke tight seal. All joints, gaps or imperfections in the installed seal must be sealed with Knauf FPA Acrylic on both sides.

Product description

Knauf Firewrap consists of a graphite based reactive intumescent strip, which reacts to heat and closes the opening left by the softening plastic pipe or pipe insulation in a fire. The pipe wrap is installed completely around the pipes or insulation and secured with the self- adhesive tab.

Storage

Unlimited storage time when stored in temperatures between 5 °C and 30 °C.

Scope of application

Knauf Firewrap is designed to maintain the fire resistance of fire separating walls and floors when these are breached by plastic pipes, conduits or metal pipes with continuous combustible insulation, and may be used in drywalls, masonry or concrete walls and concrete floors.

It may be used both for plastic pipes (PVC, PP, PE ABS and Alupex), bundles of plastic pipes with or without cables as well as cable bundles. The Firewrap is cast into the wall or the floor by fixing it round the through-penetration with the attached sticker. It may also be fitted in Knauf FPC Panel.

Properties

- For plastic pipe sizes from smallest pipes available to Ø400 mm with a wide range of pipe wall thicknesses
- For metal pipes with continuous combustible pipe insulation
- For plastic pipes with cables (conduits)
- Firewraps come in two different types; ready made for most common diameters and in 25 metre rolls for all diameters
- Fire classifications up to 240 minutes for both integrity and insulation
- 25 years working life guarantee

Pipe end configurations

Intended use of pipe		Pipe end condition
Rainwater pipe	At roof	C/U 1)
	Further below	C/C 2)
Drainage or sewage pipe	At drainage	C/U 1)
	Further below	C/C 2)
Pipes in closed circuits (water, gas, vacuum systems, el. etc.)		C/C 2)
Pipes with open ends and at least 50cm pipe on both sides		U/U

[1] U/U condition can also be used
[2] U/C, C/U and U/U conditions can also be used

Sound insulation

Description	Sound reduction
Firewraps installed in FPC Panel	55 dB RW
Firewraps installed in FP Mortar	64 dB RW

The sound insulation value is only valid for the fire seal and not for other elements in the building construction.

The sound insulation has been tested by the accredited laboratory Exova BM Trada in Great Britain according to EN ISO 10140-2. Test report is available upon request.

Safety

Please observe the EC Safety Data Sheet.