



E502f.pl Technical Data Sheet



Firewin

2018-12

Knauf Firewrap

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.

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

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
- 30 years working life guarantee
- ETA 18/0927
- EAD 350141-00-1104

| Technical Data | |
|--|---|
| Technical Approval | EAD 350454-00-1104 |
| Durability according to EAD 350454-00-1104 | Z ₂ intended for use in internal conditions with humidity classes other than Z ₁ , excluding temperatures below 0 °C. |
| Conditioning procedure | EN 13238:2010 |
| Expansion ratio | 28:1 |
| Expansion pressure | 55 N |
| Colour | Anthracite |
| Graphite weight | 1.3 kg/m ² per mm thickness |
| Graphite density | 1300 kg/m ³ |
| Normal expansion time | Less than 10 minutes |
| Minimum expansion temperature | 150 °C |

Pipe end configurations

When testing pipes, one can choose not to cap (or close) the pipe, or cap the pipe inside the furnace, or outside the furnace, or on both sides. The configuration chosen depends on the intended application of the pipe and/or the installation environment. The code defining if a pipe is capped is stated after the fire classification. For instance EI 60 C/U which means the pipe was capped inside the furnace, and uncapped outside the furnace. The test configuration defines the approvals possible.

Our suggestions for engineering judgments are:

| 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. |

| Sizes and Intended Use | | |
|-------------------------|---------|--|
| Size | Qty/Bag | Intended Use |
| Knauf Firewrap 55mm | 25 | Plastic pipes & conduits ≤ Ø55mm |
| Knauf Firewrap 82mm | 25 | Plastic pipes & conduits ≤ Ø82mm |
| Knauf Firewrap 110mm | 25 | Plastic pipes & conduits ≤ Ø110mm |
| Knauf Firewrap 125mm | 20 | Plastic pipes ≤ Ø125mm |
| Knauf Firewrap 160mm | 12 | Plastic pipes ≤ Ø160mm |
| Knauf Firewrap 200mm | 1 | Plastic pipes ≤ Ø200mm |
| Knauf Firewrap 250mm | 1 | Plastic pipes ≤ Ø250mm |
| Knauf Firewrap 315mm | 1 | Plastic pipes ≤ Ø315mm |
| Knauf Firewrap 50mmx25m | 1 | Metal pipes with combustible pipe insulation, plastic pipes & conduits |
| Knauf Firewrap 75mmx25m | 1 | |

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