Technical Insulation
Passive Fire Protection
Great Britain & Ireland

K-Stop® Pipe Wrap

Technical Data Sheet

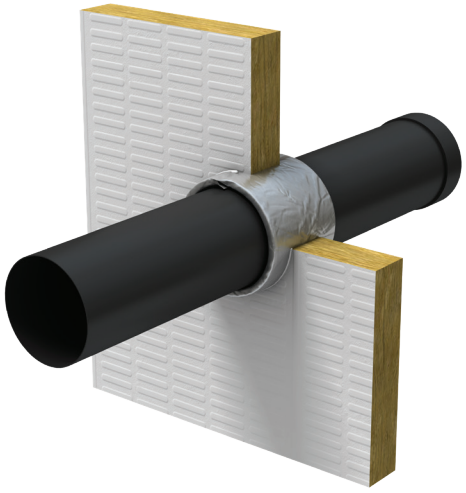
Description

Kingspan K-Stop® Pipe Wrap 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.

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 Kingspan K-Stop® Compound Fire Mortar or Kingspan K-Stop® Coated Batt.

General 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).
- Pipe wraps comes in two different types; ready made for most common diameters and in 25 metre rolls for all diameters.
- Fire classifications up to 4 hours for both integrity and insulation depending on application.
- Certified for PVC-U, PVC-C, PE, LDPE, MDPE, HDPE, ABS, SAN+PVC and PP pipes.
- Tested and certified for U/U pipe end applications.
- Classified for fire sealing in many types of constructions.
- Simple to install in both K-Stop® Coated Batt and K-Stop® Compound Fire Mortar.
- Unlimited storage time (under correct conditions).
- 25 years working life.



Sizes and Intended Use

Size	Qty/ Bag	Intended Use
Pipe Wrap 55 mm	25	Plastic pipes and conduits ≤ Ø55 mm
Pipe Wrap 82 mm	25	Plastic pipes and conduits ≤ Ø82 mm
Pipe Wrap 110 mm	25	Plastic pipes and conduits ≤ Ø110 mm
Pipe Wrap 125 mm	20	Plastic pipes ≤ Ø125 mm
Pipe Wrap 160 mm	12	Plastic pipes ≤ Ø160 mm
Pipe Wrap 200 mm	1	Plastic pipes ≤ Ø200 mm
Pipe Wrap 250 mm	1	Plastic pipes ≤ Ø250 mm
Pipe Wrap 315 mm	1	Plastic pipes ≤ Ø315 mm
Pipe Wrap 400 mm	1	Plastic pipes ≤ Ø400 mm
Pipe Wrap 50 mm x 25 m	1	Pipes with combustible pipe insulation, plastic pipes and conduits
Pipe Wrap 75 mm x 25 m	1	

Kingspan®

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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 engineering judgment based on BS EN 1366-3: 2021* (Fire resistance tests for service installations - Penetration seals) are:

Intended Use of Pipe		Pipe End Condition[4]
Rainwater pipe, plastic	At drainage	U/U [1]
	Not at drainage	C/C [2]
Drainage or sewage pipe, plastic	Ventilated drain	U/U [1]
	Unventilated drain	U/C [1]
	Drain w/water trap	U/C [1]
	Not at drainage	C/C [2]
Pipe in closed circuit (water, gas, air, electricity etc.)		C/C [2] [3]
Flue gas recovery system pipe, plastic		U/C [1]
Pipe with open ends and ≥ 50cm length on both sides, plastic		U/U [2]
Pipe supported by suspension system, metal	Fire rated support	C/U [1]
	Non-fire rated	U/C [1]
Waste disposal shaft pipe, metal		U/C [1]

[1] Suggested in BS EN 1366-3: 2021*.
[2] Kingspan's judgment based on tests.
[3] Metal pipes should have fire rated support.
[4] U/U classified fire seals cover C/U, U/C and C/C. C/U classified fire seals cover U/C and C/C. U/C classified fire seals cover C/C.

* And all previous editions.

Technical Data

Durability and Life	Same as the product it is installed within; K-Stop® Compound Fire Mortar or K-Stop® Coated Batt
Installation	Refer to Installation Instructions for K-Stop® Compound Fire Mortar or K-Stop® Coated Batt
Conditioning Procedure	BS EN 13238: 2010 (Reaction to fire tests for building products. Conditioning procedures and general rules for selection of substrates)
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
Storage	Store in temperatures between 5°C and 30°C
Intended Use	Penetration seal

Contact Details

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Technical Data Sheet to
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Also refer to
ETA 23/0790 & 23/0793

To check that you have the latest version of this brochure please visit **www.kingspanpassivefireprotection.co.uk** or scan the QR code directly above.

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