

FIREPRO[®] **INTUMESCENT** **PIPEWRAP ROLL**

Fire protection for pipework through fire rated walls and floors

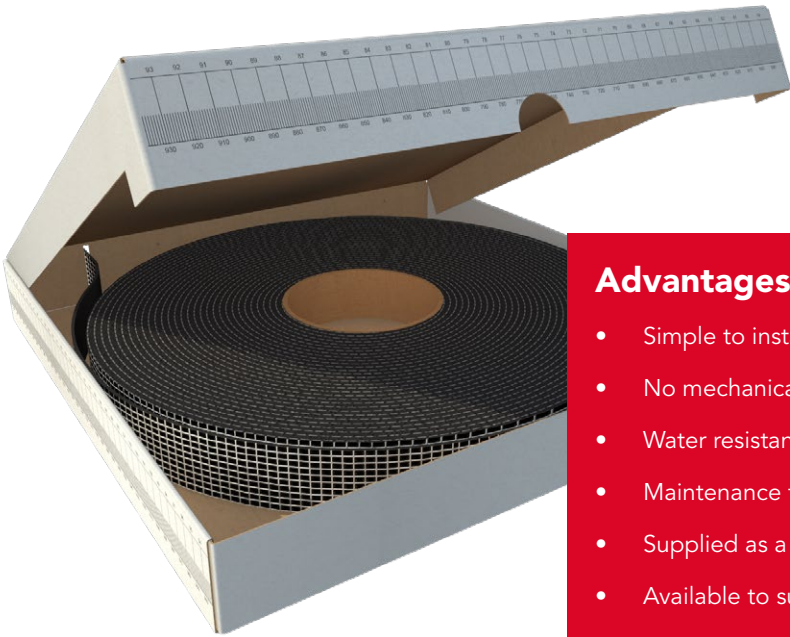


A modern building interior featuring a large, curved wooden staircase with white railings. The ceiling is a large, curved glass skylight with a grid pattern, allowing natural light to fill the space. The walls are light-colored, and the overall atmosphere is bright and open.

INTUMESCENT PIPEWRAP ROLL

A simple and more economical alternative to Firestop Collars avoids the need to carry a wide range of individually sized Intumescent pipe wraps.

Wrap on a roll is suitable for firestopping a variety of combustible pipes and metallic pipes insulated with combustible insulation in both walls and floors.



Advantages

- Simple to install
- No mechanical fixings required
- Water resistant
- Maintenance free
- Supplied as a 25m long roll in box dispenser
- Available to suit pipes up to 200mm o.d.
- Comprehensively tested
- Available from stock

Description

Intumescent Pipewrap Roll comprises an intumescent material made from elastomeric thermoplastic polymers combined with active components that provide a high volume expansion and pressure seal in the event of a fire.

Intumescent Pipewrap Roll is supplied on 25m roll. The product is 40mm wide and 2mm thick, with integral adhesive tape for securing around the pipe. Depending on the service to be protected and the fire resistance required, multiple layers of wrap may be required, the exact number and positioning of the product is detailed in the performance section of this data sheet.

Applications

Install Intumescent Pipewrap Roll to provide up to 4 hours fire protection to all plastic pipework and insulated pipes where they pass through fire rated walls and floors. Installation to be fully in accordance with manufacturer's instructions.

Installation

The product is intended to be wrapped around the outside diameter of combustible pipework or the outside diameter of insulation on pipework and is secured by means of the integral self-adhesive strip.

1. Check that pipe surface and substrate are clean and clear of any debris.
2. Install the correct number of wraps for the service type and ensure the correct number of layers of wrap as detailed in the performance section of this data sheet.
3. Install the wrap into the wall or floor recessed by 5mm from the face of the wall or floor.
4. Fill the annular space with Rockwool® FirePro® Acoustic Intumescent Sealant to seal off the 5mm gap to the edge of the substrate.
5. Maintain a record of the installation.

Under fire conditions, the intumescent material expands against the structure and fills the void left by the burnt out plastic and/or insulation.

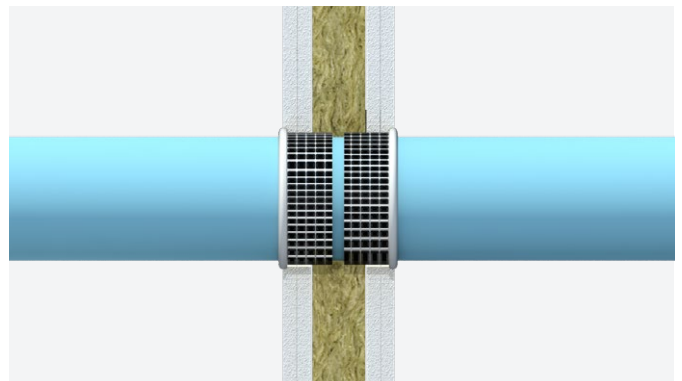
Maintenance

During normal use, no maintenance is required.

Technical information

Table 1 - Pipes through flexible wall

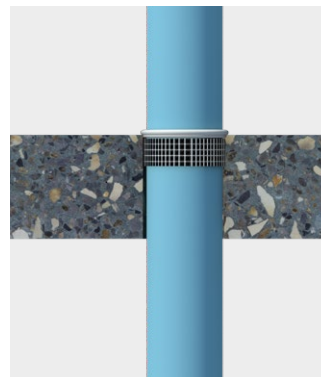
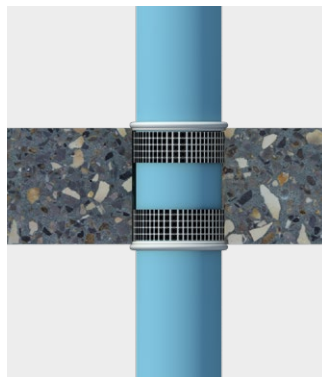
Classification					Substrate	Wrap Dimensions			Supports	Capping	Classifica- tion
Service Type	Diameter (Ø) (mm)	Wall Thickness (mm)	Insulation Type and Thickness (mm)	Insulation Fitting	Wall /Floor Type	Annular Space (mm)	Depth (mm)	No of Layers			
PVC	≤200	≤9.6	N/A	N/A	100min Flexible Wall	Thickness of wrap	40 Φ	See table 5 in Data Sheet	400mm & 500mm	U/C	EI120
PP	≤200	≤18.2	N/A	N/A	100min Flexible Wall	Thickness of wrap	40 Φ	See table 5 in Data Sheet	400mm & 500mm	U/C	E120,EI90
PE	≤200	≤18.4	N/A	N/A	100min Flexible Wall	Thickness of wrap	40 Φ	See table 5 in Data Sheet	400mm & 500mm	U/C	EI90
PE	50	≤4.6	N/A	N/A	100min Flexible Wall	Thickness of wrap	40 Φ	See table 5 in Data Sheet	400mm & 500mm	U/C	EI120
PE	200	18.4	N/A	N/A	100min Flexible Wall	Thickness of wrap	40 Φ	See table 5 in Data Sheet	400mm & 500mm	U/C	EI120



INTUMESCENT PIPEWRAP ROLL DATASHEET

Table 2 - Pipes in rigid floor

Classification					Substrate	Wrap Dimensions			Supports	Capping	Classification
Service Type	Diameter (Ø) (mm)	Wall Thickness (mm)	Insulation Type and Thickness (mm)	Insulation Fitting	Wall /Floor Type	Annular Space (mm)	Depth (mm)	No of Layers			
PVC	≤200	≤9.6	N/A	N/A	150mm rigid floor	Thickness of wrap	40 ↑	See table 5 in Data Sheet	400mm & 500mm	U/C	EI60
PP	50	2.9	N/A	N/A	150mm rigid floor	Thickness of wrap	40 Φ	See table 5 in Data Sheet	400mm & 500mm	U/C	EI120
PP	200	18.2	N/A	N/A	150mm rigid floor	Thickness of wrap	40 Φ	See table 5 in Data Sheet	400mm & 500mm	U/C	E120, EI90
PE	≤200	≤11.4	N/A	N/A	150mm rigid floor	Thickness of wrap	40 Φ	See table 5 in Data Sheet	400mm & 500mm	U/C	EI120
PVC	≤200	≤9.6	N/A	N/A	150mm rigid floor	Thickness of wrap	40 ↑	See table 5 in Data Sheet	400mm & 500mm	U/C	EI60
PVC	200	9.6	N/A	N/A	150mm rigid floor	Thickness of wrap	40 ↑	See table 5 in Data Sheet	400mm & 500mm	U/C	E240, EI180
PVC	50	3.7	N/A	N/A	150mm rigid floor	Thickness of wrap	40 ↑	See table 5 in Data Sheet	400mm & 500mm	U/C	E240, EI180
PVC	50	2.4	N/A	N/A	150mm rigid floor	Thickness of wrap	40 ↑	See table 5 in Data Sheet	400mm & 500mm	U/C	EI240
PP	≤200	≤18.2	N/A	N/A	150mm rigid floor	Thickness of wrap	40 Φ	See table 5 in Data Sheet	400mm & 500mm	U/C	EI120
PP	≤50	≤6.9	N/A	N/A	150mm rigid floor	Thickness of wrap	40 Φ	See table 5 in Data Sheet	400mm & 500mm	U/C	EI240
PP	200	4.9	N/A	N/A	150mm rigid floor	Thickness of wrap	40 Φ	See table 5 in Data Sheet	400mm & 500mm	U/C	EI240
PE	≤200	≤18.2	N/A	N/A	150mm rigid floor	Thickness of wrap	40 Φ	See table 5 in Data Sheet	400mm & 500mm	U/C	EI240



INTUMESCENT PIPEWRAP ROLL DATASHEET

Table 3 - Pipes in Flexible Wall using patress installation of 50mm FirePro® ACB

Classification					Substrate	Wrap Dimensions			Supports	Capping	Classifica-tion
Service Type	Diameter (Ø) (mm)	Wall Thickness (mm)	Insulation Type and Thickness (mm)	Insulation Fitting	Wall /Floor Type	Annular Space (mm)	Depth (mm)	No of Layers			
Copper / Steel	≤159	≤14.2	Elastomer-ic 13-25	CS	100min Flexible Wall	Thickness of wrap	40 Φ	2 layers of 2mm	400mm & 500mm	U/C	E120, EI60
Copper / Steel	≤108	≤14.2	Phenolic 25-40	CS	100min Flexible Wall	Thickness of wrap	40 Φ	2 layers of 2mm	400mm & 500mm	U/C	EI90
Copper / Steel	42	1	Phenolic 25-40	CS	100min Flexible Wall	Thickness of wrap	40 Φ	2 layers of 2mm	400mm & 500mm	U/C	EI120
Copper / Steel	≤108	≤14.2	Phenolic 40	CS	100min Flexible Wall	Thickness of wrap	40 Φ	2 layers of 2mm	400mm & 500mm	U/C	EI120
Copper / Steel	42	1	Elastomer-ic 13-25	CS	90min Flexible Wall	Thickness of wrap	40 Φ	2 layers of 2mm	400mm & 500mm	U/C	EI120
Copper / Steel	≤159	≤14.2	Elastomer-ic 25	CS	100min Flexible Wall	Thickness of wrap	40 Φ	2 layers of 2mm	400mm & 500mm	U/C	EI90
PVC	≤200	≤9.6	N/A	N/A	100min Flexible Wall	Thickness of wrap	40 Φ	See table 5 in Data Sheet	400mm & 500mm	U/C	EI60
PP	≤200	≤18.2	N/A	N/A	100min Flexible Wall	Thickness of wrap	40 Φ	See table 5 in Data Sheet	400mm & 500mm	U/C	EI60
PE	≤200	≤18.4	N/A	N/A	100min Flexible Wall	Thickness of wrap	40 Φ	See table 5 in Data Sheet	400mm & 500mm	U/C	EI60
Copper / Steel	42	1	Mineral wool 20-50	CS	100min Flexible Wall	Thickness of wrap	40 Φ	2 layers of 2mm	400mm & 500mm	U/C	EI120
Copper / Steel	≤159	≤14.2	Mineral wool 20-50	CS	100min Flexible Wall	Thickness of wrap	40 Φ	2 layers of 2mm	400mm & 500mm	U/C	EI90
Copper / Steel	≤108	≤14.2	Mineral wool 20-50	CS	100min Flexible Wall	Thickness of wrap	40 Φ	2 layers of 2mm	400mm & 500mm	U/C	EI90



Table 4 - Pipes in Flexible Wall installed in Double Layer 50mm FirePro® ACB

Classification					Substrate	Wrap Dimensions			Supports	Capping	Classifica- tion
Service Type	Diameter (Ø) (mm)	Wall Thickness (mm)	Insulation Type and Thickness (mm)	Insulation Fitting	Wall /Floor Type	Annular Space (mm)	Depth (mm)	No of Layers			
Copper / Steel	≤159	≤14.2	Elastomeric 13-25	CS	100min Flexible Wall	Thickness of wrap	40 Φ	2 layers of 2mm	400mm & 500mm	U/C	EI60
Copper / Steel	≤108	≤14.2	Phenolic 25-40	CS	100min Flexible Wall	Thickness of wrap	40 Φ	2 layers of 2mm	400mm & 500mm	U/C	E120, EI60
Copper / Steel	42	1	Elastomeric 13-25	CS	100min Flexible Wall	Thickness of wrap	40 Φ	2 layers of 2mm	400mm & 500mm	U/C	E120, EI90
Copper / Steel	42	1	Phenolic 25-40	CS	100min Flexible Wall	Thickness of wrap	40 Φ	2 layers of 2mm	400mm & 500mm	U/C	E120, EI90
PVC	≤110	≤6.6	Phenolic 20-25	CS	100min Flexible Wall	Thickness of wrap	40 Φ	See table 5 in Data Sheet	400mm & 500mm	U/C	EI90
PVC	≤110	≤6.6	Elastomeric 13-25	CS	100min Flexible Wall	Thickness of wrap	40 Φ	See table 5 in Data Sheet	400mm & 500mm	U/C	EI90
Copper / Steel	≤159	≤14.2	Mineral wool 20-50	CS	100min Flexible Wall	Thickness of wrap	40 Φ	2 layers of 2mm	400mm & 500mm	U/C	EI60

Key to tables

- ACB = Ablative Coated Batt
- CS = Continuous Sustained
- Φ = applied to both faces of seal
- † = applied to upper face only
- U/C = Upcapped / Capped

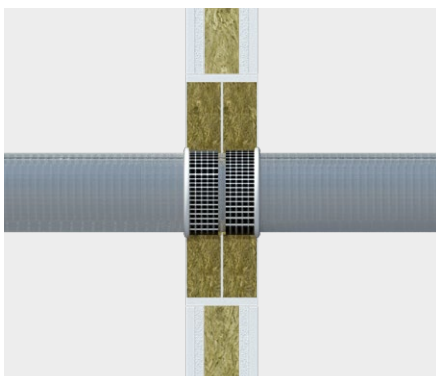
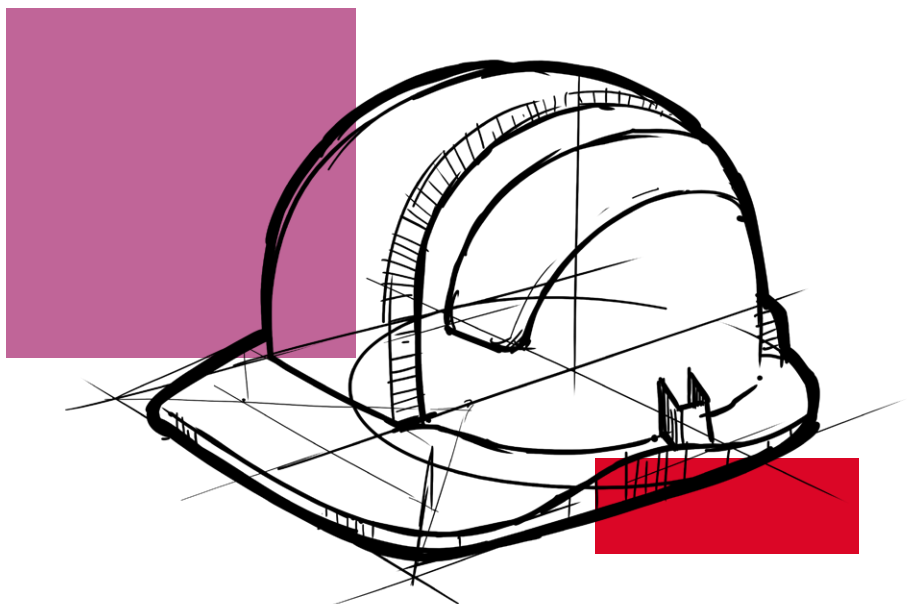


Table 5 - Wrap configuration by size

Pipe O.D. (mm)	No. of Layers of Wrap	Total wrap thickness (mm)
40	1	2
55	2	4
63	2	4
75	2	4
82	2	4
90	3	6
110	3	6
125	4	8
160	4	8
200	5	10

Table 6 - Physical properties

Width	40mm
Length	25m
Thickness	2mm
Density	1.3Kg/m ³
Volume expansion at 300°C	25 times
Shelf life	60 months



Sustainability

As an environmentally conscious company, ROCKWOOL promotes the sustainable production and use of insulation and is committed to a continuous process of environmental improvement.

All ROCKWOOL products provide outstanding thermal protection as well as four added benefits:



Fire resistance



Acoustic comfort



Sustainable materials



Durability

Health & Safety

The safety of ROCKWOOL stone wool is confirmed by current UK and Republic of Ireland health & safety regulations and EU directive 97/69/EC:ROCKWOOL fibres are not classified as a possible human carcinogen.

A Material Safety Data Sheet is available and can be downloaded from www.rockwool.co.uk to assist in the preparation of risk assessments, as required by the Control of Substances Hazardous to Health Regulations (COSHH).

Environment

Made from a renewable and plentiful naturally occurring resource, ROCKWOOL insulation saves fuel costs and energy in use and relies on trapped air for its thermal properties.

ROCKWOOL insulation does not contain (and has never contained) gases that have ozone depletion potential (ODP) or global warming potential (GWP).

ROCKWOOL is approximately 97% recyclable. For waste ROCKWOOL material that may be generated during installation or at end of life, we are happy to discuss the individual requirements of contractors and users considering returning these materials to our factory for recycling.



Interested?

For further information, contact the Technical Solutions Team on 01656 868490 or email technical.solutions@rockwool.co.uk

Visit www.rockwool.co.uk to view our complete range of products and services.

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Whilst ROCKWOOL will endeavour to keep its publications up to date, readers will appreciate that between publications there may be pertinent changes in the law, or other developments affecting the accuracy of the information contained in this data sheet.

The above applications do not necessarily represent an exhaustive list of applications for Intumescent Pipewrap Roll.

ROCKWOOL Limited does not accept responsibility for the consequences of using Intumescent Pipewrap Roll in applications different from those described within this data sheet. Expert advice should be sought where such different applications are contemplated, or where the extent of any listed application is in doubt.

Notes

Notes

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