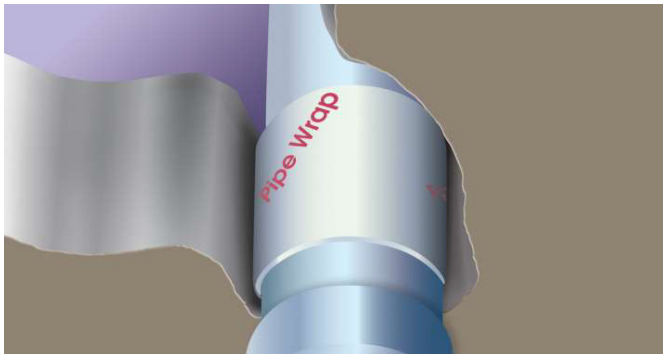
FR WRAP
TECHNICAL DATA SHEET

iPASSIVE
INNOVATIVE / FIRE / SOLUTIONS



PRODUCT DESCRIPTION

iPASSIVE FR 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 is available with or without an adhesive strip. The annular space around the pipe wrap is sealed with iPASSIVE EX Mortar or iPASSIVE FR Board.

FEATURES

- 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
- Certified for PVC-U, PVC-C, PE, LDPE, MDPE, HDPE, ABS, SAN+PVC and PP pipes
- For plastic pipes with cables (conduits)
- Up to 240 minutes for both integrity and insulation
- Tested and certified for U/U pipe end applications
- Excellent sound insulation
- No emissions - environmentally and user friendly
- Simple to install in both iPASSIVE FR Board and iPASSIVE EX Mortar
- Unlimited storage time (under correct conditions)
- 30 years working life guarantee

SOUND INSULATION

Description	Sound reduction
iPASSIVE FR Wraps installed in iPASSIVE FR Board	55 dB RW
iPASSIVE FR Wraps installed in iPASSIVE EX 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 according to EN ISO 10140-2.

TECHNICAL INFORMATION

Technical Approval	ETAG 026-2
Durability according to ETAG 026-2	Z2 intended for use in internal conditions with humidity classes other than Z1, 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/m2 per mm thickness
Graphite density	1300 kg/m3
Normal expansion time	Less than 10 minutes
Minimum expansion temperature	150 °C
Storage	Store in temperatures between 5°C and 30°C
Life	Under normal conditions; 30 years +

TESTED STANDARD

Tested and assessed in accordance with AS 1530.4 and AS 4072.1.

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 -/60/60 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:

Construction	Services	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

DISCLAIMER