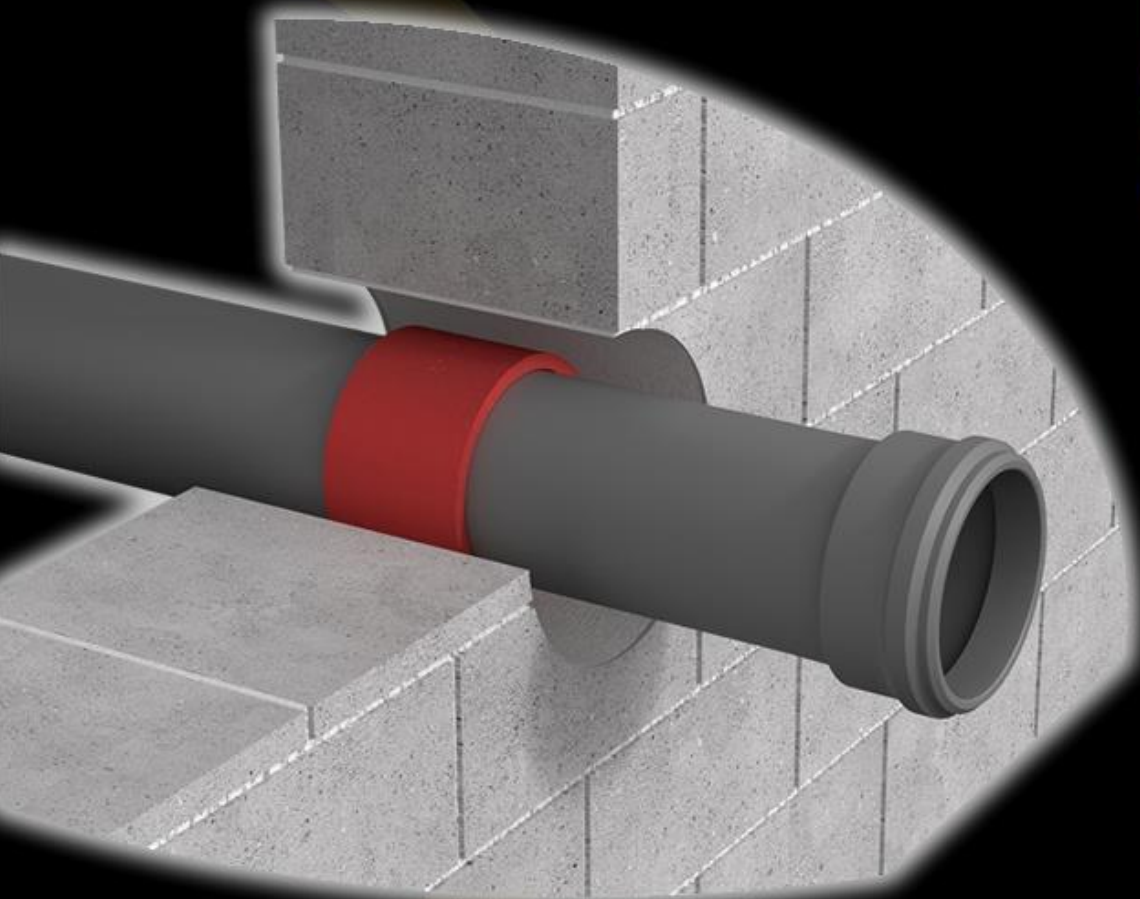


INTU FR WRAP

Intumescent pipe wrap

TDS Technical Data Sheet



•INTUSEAL®
passive fire protection manufacturer

CE



www.intuseal.com

→ PRODUCT DESCRIPTION

Firestop wrap **INTU FR WRAP** is made of graphite-based material. The material swells under the influence of high temperature (about 140°C), and fills the entire space created after burned flammable installations.

→ APPLICATION

INTU FR WRAPS are used for fire protection of penetrations with plastic pipes (PVC, PP, PE, HDPE, PEX/Al/PEX, PE-RT/Al/PE-RT, PP-R/Al/PP-R, PP-R GLASS) running through fire partitions.

- protection of flammable pipes
- fire resistance up to 240 minutes
- availability: from 32mm to 200mm
- high swelling ratio
- ideal for installation in very tight spaces

Rigid walls: The wall must be at least 150mm thick and have concrete, cellular concrete structure or masonry structure, with a minimum density of 600kg/m³

Rigid floors: The floor must be at least 150mm thick and have concrete, cellular concrete structure or masonry structure, with a minimum density of 1700kg/m³

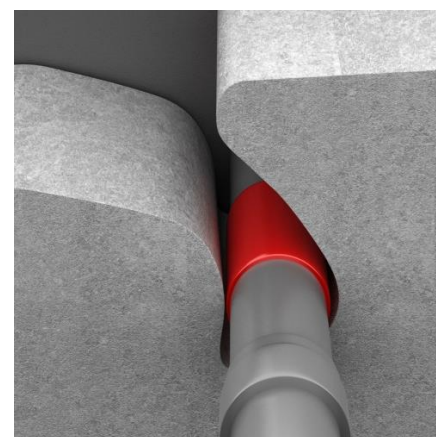
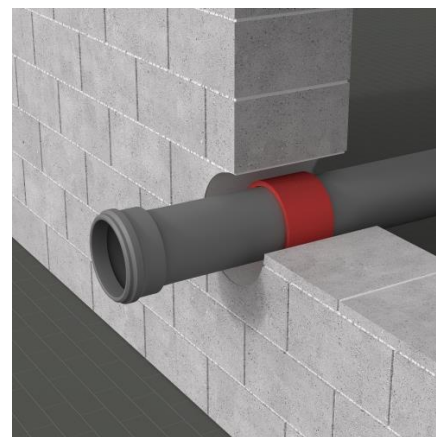
Flexible walls: The wall must be at least 125mm thick and have a steel profile structure covered on both sides with a minimum of 2 layers of boards with a thickness of 12.5mm.

→ COMPLIANCE:

- Reference standard:
EN 1366-3 / ETAG 026-2 / EAD 350454-00-1104
- ETA-18/0593
- DoP 1/2019
- CoC 1488-CPR-0722/W
- TDS
- SDS

→ AVAILABILITY, DIMENSIONS AND QUANTITY OF INSERTS

Wrap type	Art. No.	Number of inserts in a wrap [pcs.]	Insert dimensions		
			Thickness [mm]	Width [mm]	Length [mm]
32mm	INWR32	1	2,0	60	110
40mm	INWR40	1	2,0	60	135
55mm	INWR55	1	2,0	60	183
63mm	INWR63	1	2,0	60	210
75mm	INWR75	1	2,0	60	245
82mm	INWR82	2	2 x 2,0	60	268/280
110mm	INWR110	2	2 x 2,0	60	355/365
125mm	INWR125	4	4 x 2,0	100	402/413/425/438/452
160mm	INWR160	5	5 x 2,0	100	510/525/540/550/565
200mm	INWR200	8	8 x 2,0	100	640/655/665/680/690/700/710/725



→ TRANSPORT AND STORAGE

It is recommended to store in dry internal conditions at temperatures between + 5°C and + 35°C

→ FIRE RESISTANCE CLASSIFICATION

IN WALL	DIAMETER	32mm	40mm	50mm	55mm	63mm	75mm	90mm	110mm	125mm	160mm	200mm
	PVC	EI240	EI240	EI240	EI120	EI120	EI120	EI120	EI120	EI120	EI120	EI120
	PP	EI240	EI240	EI240	EI120	EI120	EI120	EI120	EI120	EI60	EI60	EI60
	HDPE	EI240	EI120	EI120	EI120	EI120	EI120	EI120	EI120	EI120	EI120	EI90
	PEX/AL./PEX	EI120	EI120	EI120	EI120	EI120	EI120	X	X	X	X	X
	PE-RT/AL./PE-RT	EI240	EI240	EI240	EI240	EI240	EI240	X	X	X	X	X
	PP-R/AL./PP-R	EI240	EI240	EI240	EI240	EI240	EI240	EI240	EI240	X	X	X
	PP-R GLASS	EI120	EI120	EI120	EI120	EI120	EI120	EI120	EI120	X	X	X

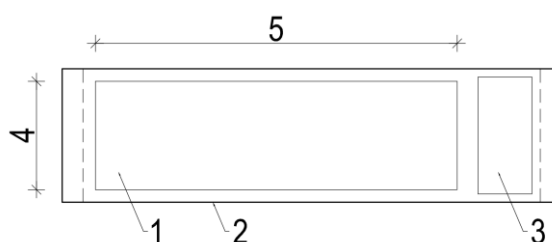
IN FLOOR	DIAMETER	32mm	40mm	50mm	55mm	63mm	75mm	90mm	110mm	125mm	160mm	200mm
	PVC	EI240	EI240	EI240	EI240	EI240	EI240	EI120	EI120	EI120	EI120	EI120
	PP	EI240	EI240	EI240	EI240	EI240	EI240	EI240	EI240	EI90 EI120*	EI90 EI120*	X
	HDPE	EI240	EI240	EI240	EI240	EI240	EI240	EI120	EI120	EI120	EI120	EI90 EI120*
	PEX/AL./PEX	EI240	EI240	EI240	EI240	EI240	EI240	X	X	X	X	X
	PE-RT/AL./PE-RT	EI120	EI120	EI120	EI120	EI120	EI120	X	X	X	X	X
	PP-R/AL./PP-R	EI240	EI240	EI240	EI240	EI240	EI240	EI240	EI240	X	X	X
	PP-R GLASS	EI240	EI240	EI240	EI240	EI240	EI240	EI240	EI240	X	X	X

IN FLEXIBLE WALL	DIAMETER	32mm	40mm	50mm	55mm	63mm	75mm	90mm	110mm
	PVC	EI120	EI120	EI120	EI120	EI120	EI120	EI120	EI120
	PP	EI120	EI120	EI120	EI120	EI120	EI120	EI120	EI120
	HDPE	EI120	EI120	EI120	EI120	EI120	EI120	EI120	EI120

*outside of ETA, result based on the test report

→ INSTALLATION METHOD

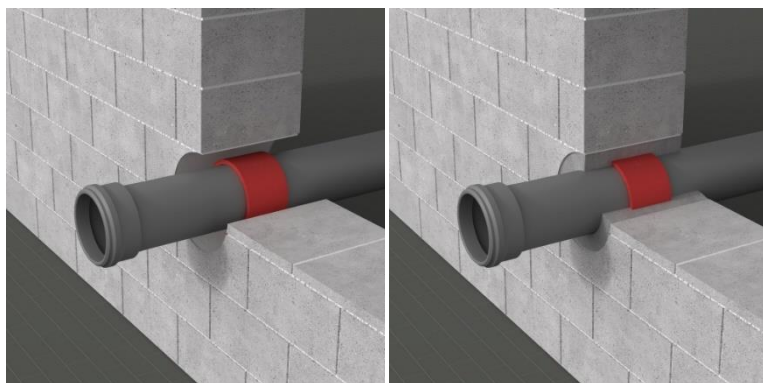
WRAP DIAGRAM:



- 1 - intumescent insert
- 2 - PE film bag
- 3 - self-adhesive tape
- 4 - wrap width
- 5 - wrap length

Wrap the pipe.
Slide it inside the partition.
Fill the gap with mortar.

IN WALL



USED TYPE OF THE WRAP MUST BE COMPATIBLE
WITH FIRE CLASSIFICATION.

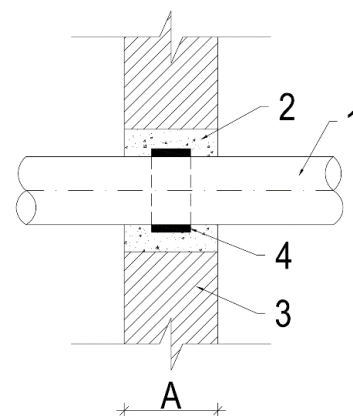
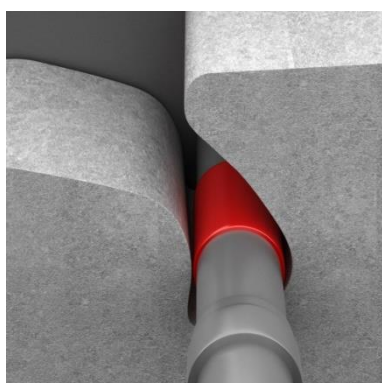


Fig. 1. A single pipe in a wall

- 1 – flammable pipe
- 2 – cement mortar filling
- 3 – wall
- 4 – **INTU FR WRAP** installed in wall axis

IN FLOOR



USED TYPE OF THE WRAP MUST BE COMPATIBLE
WITH FIRE CLASSIFICATION.

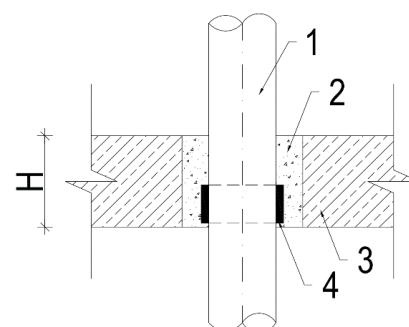
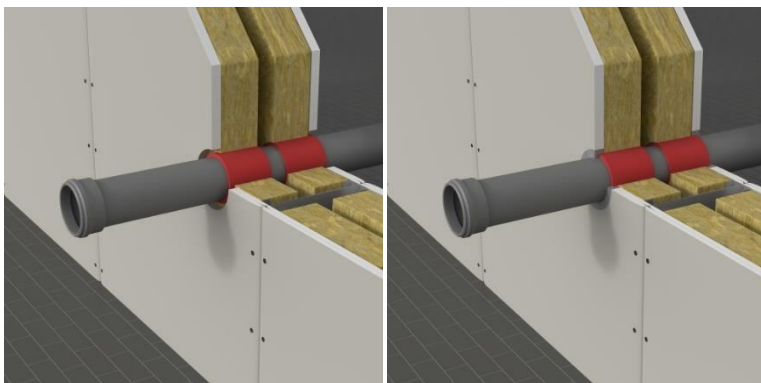


Fig. 2. A single pipe in a floor

- 1 – flammable pipe
- 2 – cement mortar filling
- 3 – floor
- 4 – **INTU FR WRAP**
installed 1 cm from the floor bottom

IN FLEXIBLE WALL



USED TYPE OF THE WRAP MUST BE COMPATIBLE
WITH FIRE CLASSIFICATION.

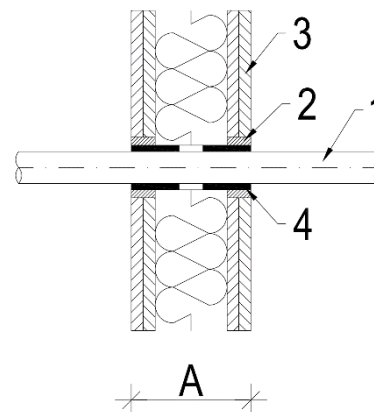


Fig. 3. A single pipe in a drywall

- 1 – flammable pipe
- 2 – cement mortar filling
- 3 – drywall
- 4 – 2 x INTU FR WRAP
installed next to each other