

Protect your values.

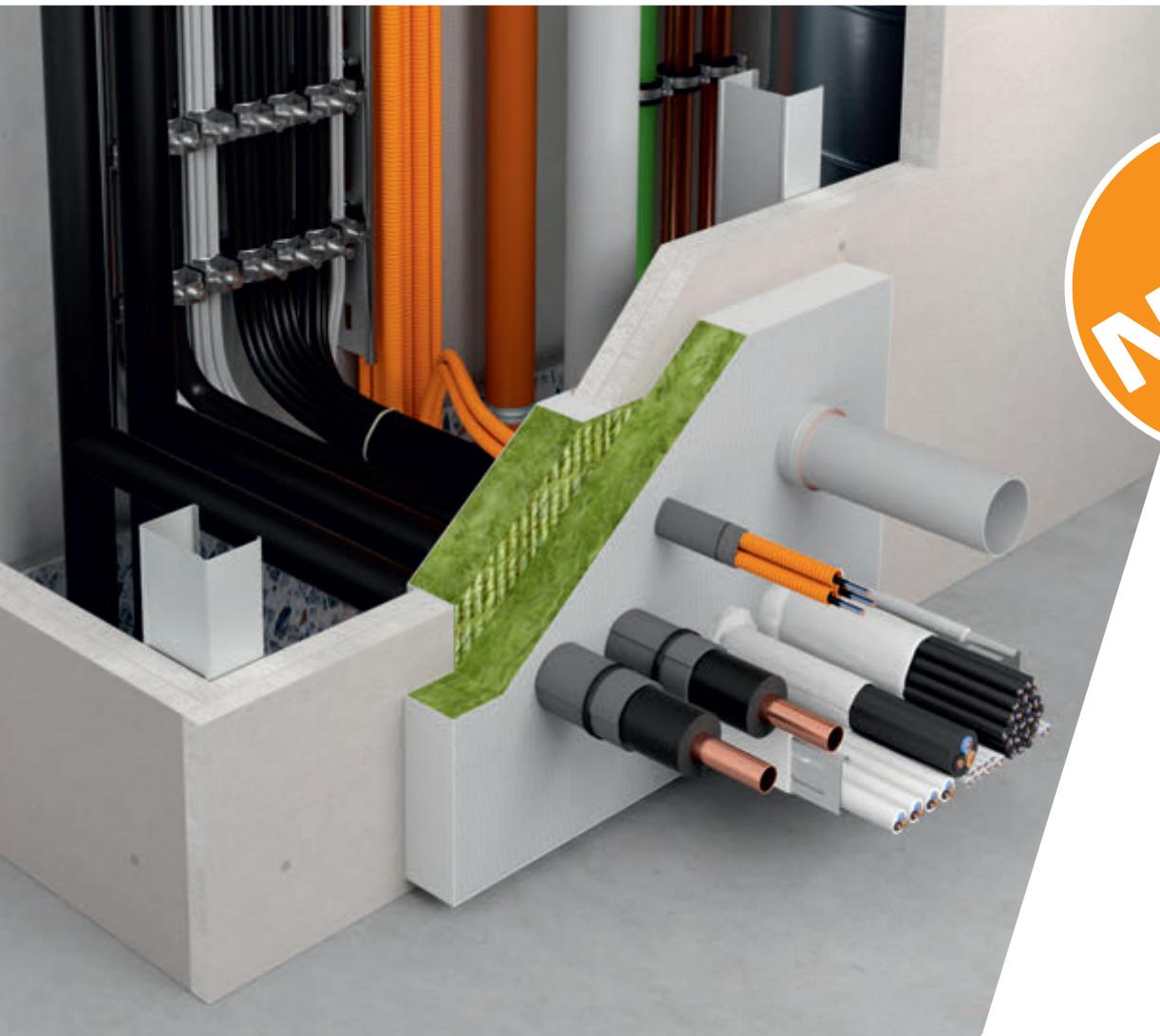


members of svt group

AIK

flamro

ROLFKUHN GMBH



PYRO-SAFE® Flammotect OSI The system for one-sided installation

Combined penetration sealing system for diverse media with one-sided access

One-sided access to the penetration sealing system – so that operations can continue

Implementing a classified fire penetration sealing system in existing buildings is a challenge. It is even more challenging when hospitals or department stores are involved, for instance, and their continuing operation is not to be disturbed due to renovation.

With PYRO-SAFE® Flammotect OSI, svt has met this challenge head on and come up with a convincing solution for fire protection in renovation projects. The new system has been developed specifically for one-sided installation. It can be installed during ongoing operation without extensive noise pollution. Control cabinets and switchgear systems that are only accessible from below or installation shafts that are only accessible from the outside can be easily equipped with the required fire protection using PYRO-SAFE® Flammotect OSI.



Perfect for
existing buildings

Ideal during
ongoing operation



Easy to handle even under difficult conditions

The PYRO-SAFE® Flammotect OSI system is a combined penetration sealing system consisting of mineral fibre boards and an ablation coating. Depending on the required fire resistance duration, 2 or 3 layers of mineral fibre boards (thickness ≥ 50 mm) are used.

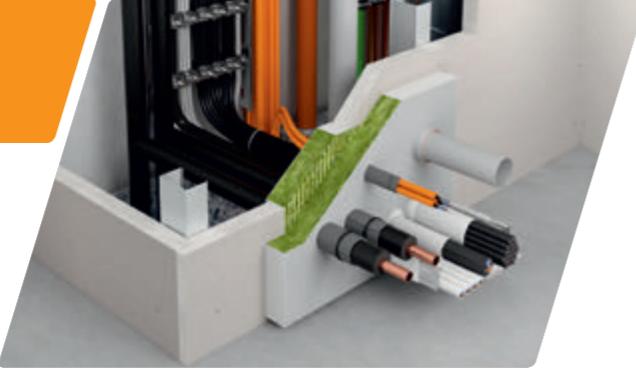
The first layer of mineral fibre boards is inserted flush with the installation side into the opening and is bonded to the component with the PYRO-SAFE® FLAMMOTECT-A fire protection coating. Further layers are placed onto the component with a protrusion of 50 mm per side and are screwed to the previous layer using coarse thread screws. Depending on assignment, additional fire protection improvement with PYRO-SAFE® DG-CR 1.5 or PYRO-SAFE® DG-CR BS fire protection wraps is planned.

Design variants and assignment

Use the following overview to obtain information about the penetration sealing system design variants with PYRO-SAFE® Flammotect OSI for the various application areas.

Installation in shaft walls

Installation is possible in both 2 and 3 layers in shaft walls with a minimum thickness of 40 mm.



2-layer penetration sealing system

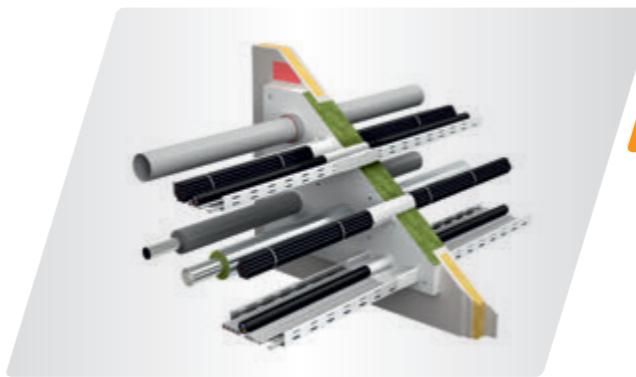
Media lines		Max. diameter	Measure	Fire rating (max.)
Cables Cable bundles Cable trays		Ø ≤ 21 (cable) Ø ≤ 100 (bundle)	Coating PYRO-SAFE® FLAMMOTECT-A	EI 90 / E 120 EI 120
		Ø ≤ 21 (cable) Ø ≤ 100 (bundle)	Fire protection wrap PYRO-SAFE® DG-CR 1.5	EI 120 EI 90 / E 120
Electrical conduits	Individual	Ø ≤ 32	Fire protection wrap PYRO-SAFE® DG-CR 1.5	EI 120 U/U
		Ø ≤ 100		
PE pipes "speed pipes"		Max. 24 pcs. pipe outer Ø ≤ 7 Max. 7 pcs. pipe outer Ø ≤ 10 Max. 5 pcs. pipe outer Ø ≤ 12	Fire protection wrap PYRO-SAFE® DG-CR 1.5	EI 120 U/U
Special duo coax bundles		Ø ≤ 90	Coating PYRO-SAFE® FLAMMOTECT-A	EI 120 U/U
Combustible pipes		Ø ≤ 50	Fire protection wrap PYRO-SAFE® DG-CR BS	EI 90 U/U
Multi-layer composite pipes		Ø ≤ 32	Protective insulation FEF made of "Armaflex Protect"	EI 90 U/C
Non-combustible pipes with FEF insulation		Ø ≤ 88.9	Fire protection wrap PYRO-SAFE® DG-CR 1.5	EI 90 C/U

All data in mm

3-layer penetration sealing system

Media lines		Max. diameter	Measure	Fire rating (max.)
Cables Cable bundles Cable trays		Ø ≤ 80 (cable) Ø ≤ 100 (bundle)	Fire protection wrap PYRO-SAFE® DG-CR 1.5	EI 90 EI 120
Combustible pipes		Ø ≤ 160	Fire protection wrap PYRO-SAFE® DG-CR BS	EI 120 U/U
Multi-layer composite pipes		Ø ≤ 63	Protective insulation FEF made of "Armaflex Protect"	EI 120 U/C
		Ø ≤ 32	Fire protection wrap PYRO-SAFE® DG-CR BS	EI 120 U/C
Double solar tubes "NanoSUN®"		≤ DN 25	Fire protection wrap PYRO-SAFE® DG-CR 1.5	EI 120 C/U

All data in mm



Installation in plasterboard walls and solid walls

Installation is possible in both 2 and 3 layers in solid walls and plasterboard walls with a minimum thickness of 100 mm.

2-layer penetration sealing system

Media lines	Max. diameter	Measure	Fire rating (max.)
Cables Cable bundles Cable trays	Ø ≤ 21 (cable) Ø ≤ 100 (bundle)	Coating PYRO-SAFE® FLAMMOTECT-A	EI 90 / E 120 EI 120
	Ø ≤ 21 (cable) Ø ≤ 100 (bundle)	Fire protection wrap PYRO-SAFE® DG-CR 1.5	EI 120 EI 90 / E 120
Electrical conduits	Individual	Ø ≤ 32	Fire protection wrap PYRO-SAFE® DG-CR 1.5
	Bundles	Ø ≤ 100	
PE pipes "speed pipes"		Max. 24 pcs. pipe outer Ø ≤ 7 Max. 7 pcs. pipe outer Ø ≤ 10 Max. 5 pcs. pipe outer Ø ≤ 12	Fire protection wrap PYRO-SAFE® DG-CR 1.5
Special duo coax bundles		Ø ≤ 90	Coating PYRO-SAFE® FLAMMOTECT-A
Combustible pipes		Ø ≤ 50	Fire protection wrap PYRO-SAFE® DG-CR BS
Multi-layer composite pipes		Ø ≤ 32	Protective insulation FEF made of "Armaflex Protect"
Non-combustible pipes with FEF insulation		Ø ≤ 88.9	Fire protection wrap PYRO-SAFE® DG-CR 1.5

All data in mm

3-layer penetration sealing system

Media lines	Max. diameter	Measure	Fire rating (max.)
Cables Cable bundles Cable trays	Ø ≤ 80 (cable) Ø ≤ 100 (bundle)	Coating PYRO-SAFE® FLAMMOTECT-A	EI 90 / E 120 EI 120
	Ø ≤ 80 (cable) Ø ≤ 100 (bundle)	Fire protection wrap PYRO-SAFE® DG-CR 1.5	EI 90 / E 120 EI 120
Electrical conduits	Individual	Ø ≤ 32	Fire protection wrap PYRO-SAFE® DG-CR 1.5
	Bundles	Ø ≤ 100	
PE pipes "speed pipes"		Max. 24 pcs. pipe outer Ø ≤ 7 Max. 7 pcs. pipe outer Ø ≤ 10 Max. 5 pcs. pipe outer Ø ≤ 12	Fire protection wrap PYRO-SAFE® DG-CR 1.5
Special duo coax bundle		Ø ≤ 90	Coating PYRO-SAFE® FLAMMOTECT-A
Combustible pipes		Ø ≤ 160	Fire protection wrap PYRO-SAFE® DG-CR BS
Multi-layer composite pipes	Ø ≤ 63	Protective insulation FEF made of "Armaflex Protect"	EI 120 U/C
	Ø ≤ 32 (with PEF insulation)	Fire protection wrap PYRO-SAFE® DG-CR BS	EI 120 U/C
Non-combustible pipes with FEF insulation		Ø ≤ 42	Fire protection wrap PYRO-SAFE® DG-CR 1.5
Non-combustible pipes (copper, steel, stainless steel, cast iron) with mineral fibre insulation	Ø ≤ 42 (copper)	Protective insulation made of lamella mat	EI 120 C/U
	Ø ≤ 114.3 (steel, stainless steel, cast iron)		
Double solar tubes "NanoSUN®"	≤ DN 25	Fire protection wrap PYRO-SAFE® DG-CR 1.5	EI 120 C/U

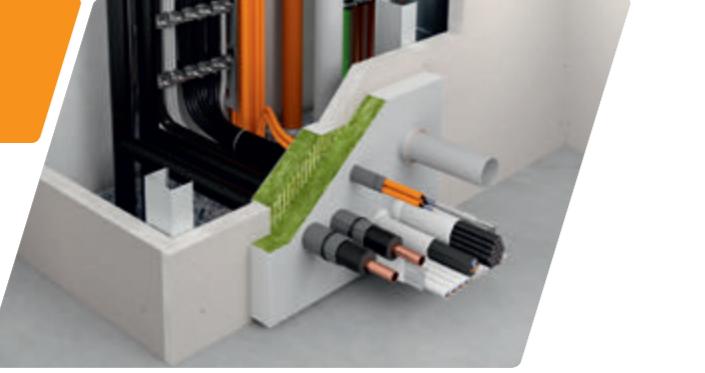
All data in mm

Design variants and assignment

Use the following overview to obtain information about the penetration sealing system design variants with PYRO-SAFE® Flammotect OSI for the various application areas.

Installation in shaft walls

Installation is possible in both 2 and 3 layers in shaft walls with a minimum thickness of 40 mm.



2-layer penetration sealing system

Media lines		Max. diameter	Measure	Fire rating (max.)
	Cables Cable bundles Cable trays	Ø ≤ 21 (cable) Ø ≤ 100 (bundle)	Coating PYRO-SAFE® FLAMMOTECT-A	EI 90 / E 120 EI 120
		Ø ≤ 21 (cable) Ø ≤ 100 (bundle)	Fire protection wrap PYRO-SAFE® DG-CR 1.5	EI 120 EI 90 / E 120
	Electrical conduits Individual	Ø ≤ 32		
			Fire protection wrap PYRO-SAFE® DG-CR 1.5	EI 120 U/U
	Electrical conduits Bundles	Ø ≤ 100		
			Fire protection wrap PYRO-SAFE® DG-CR 1.5	EI 120 U/U
	PE pipes "speed pipes"	Max. 24 pcs. pipe outer Ø ≤ 7 Max. 7 pcs. pipe outer Ø ≤ 10 Max. 5 pcs. pipe outer Ø ≤ 12	Fire protection wrap PYRO-SAFE® DG-CR 1.5	EI 120 U/U
	Special duo coax bundles	Ø ≤ 90	Coating PYRO-SAFE® FLAMMOTECT-A	EI 120 U/U
	Combustible pipes	Ø ≤ 50	Fire protection wrap PYRO-SAFE® DG-CR BS	EI 90 U/U
	Multi-layer composite pipes	Ø ≤ 32	Protective insulation FEF made of "Armaflex Protect"	EI 90 U/C
	Non-combustible pipes with FEF insulation	Ø ≤ 88.9	Fire protection wrap PYRO-SAFE® DG-CR 1.5	EI 90 C/U

All data in mm

3-layer penetration sealing system

Media lines		Max. diameter	Measure	Fire rating (max.)
	Cables Cable bundles Cable trays	Ø ≤ 80 (cable) Ø ≤ 100 (bundle)	Fire protection wrap PYRO-SAFE® DG-CR 1.5	EI 90 EI 120
	Combustible pipes	Ø ≤ 160	Fire protection wrap PYRO-SAFE® DG-CR BS	EI 120 U/U
	Multi-layer composite pipes	Ø ≤ 63	Protective insulation FEF made of "Armaflex Protect"	EI 120 U/C
	Double solar tubes "NanoSUN"	Ø ≤ 32	Fire protection wrap PYRO-SAFE® DG-CR BS	EI 120 U/C
	Double solar tubes "NanoSUN"	≤ DN 25	Fire protection wrap PYRO-SAFE® DG-CR 1.5	EI 120 C/U

All data in mm



2-layer penetration sealing system

Media lines		Max. diameter	Measure	Fire rating (max.)
	Cables Cable bundles Cable trays	Ø ≤ 80 (cable) Ø ≤ 100 (bundle)	Coating PYRO-SAFE® FLAMMOTECT-A	EI 120
		Ø ≤ 21 (cable) Ø ≤ 100 (bundle)	Fire protection wrap PYRO-SAFE® DG-CR 1.5	EI 120
	Electrical conduits Individual	Ø ≤ 32		
			Fire protection wrap PYRO-SAFE® DG-CR 1.5	EI 120 U/U
	Electrical conduits Bundles	Ø ≤ 100		
			Fire protection wrap PYRO-SAFE® DG-CR 1.5	EI 120 U/U
	PE pipes "speed pipes"	Max. 24 pcs. pipe outer Ø ≤ 7 Max. 7 pcs. pipe outer Ø ≤ 10 Max. 5 pcs. pipe outer Ø ≤ 12	Fire protection wrap PYRO-SAFE® DG-CR 1.5	EI 120 U/U
	Special duo coax bundles	Ø ≤ 90	Coating PYRO-SAFE® FLAMMOTECT-A	EI 120 U/U
	Combustible pipes	Ø ≤ 125	Fire protection wrap PYRO-SAFE® DG-CR BS	EI 120 U/U
	Multi-layer composite pipes	Ø ≤ 63	Protective insulation FEF made of "Armaflex Protect"	EI 120 U/C
	Non-combustible pipes with PEF insulation	Ø ≤ 32 (with PEF insulation)	Fire protection wrap PYRO-SAFE® DG-CR BS	EI 120 U/C
		Ø ≤ 42	Fire protection wrap PYRO-SAFE® DG-CR 1.5	EI 120 C/U
	Non-combustible pipes with mineral wool	Ø ≤ 88.9	Fire protection wrap PYRO-SAFE® DG-CR 1.5	EI 60 / E 120 C/U
		Ø ≤ 88.9 (copper)	Protective insulation made of lamella mat	EI 120 C/U
	Non-combustible pipes with mineral wool	Ø ≤ 114.3 (steel, stainless steel, cast iron)	Protective insulation made of lamella mat	EI 120 C/U

Installation in floors, from above

Installation is possible in both 2 and 3 layers in floors with a minimum thickness of 150 mm.



2-layer penetration sealing system

Media lines		Max. diameter	Measure	Fire rating (max.)
	Cables Cable bundles Cable trays	Ø ≤ 80 (cable) Ø ≤ 100 (bundle)	Coating PYRO-SAFE® FLAMMOTECT-A	EI 90 EI 120
		Ø ≤ 21 (cable) Ø ≤ 100 (bundle)	Fire protection wrap PYRO-SAFE® DG-CR 1.5	EI 120
	Electrical conduits Individual	Ø ≤ 32		
			Fire protection wrap PYRO-SAFE® DG-CR 1.5	EI 120 U/U
	Electrical conduits Bundles	Ø ≤ 100		
			Fire protection wrap PYRO-SAFE® DG-CR 1.5	EI 120 U/U
	PE pipes "speed pipes"	Max. 24 pcs. pipe outer Ø ≤ 7 Max. 7 pcs. pipe outer Ø ≤ 10 Max. 5 pcs. pipe outer Ø ≤ 12	Fire protection wrap PYRO-SAFE® DG-CR 1.5	EI 120 U/U
	Special duo coax bundles	Ø ≤ 90	Coating PYRO-SAFE® FLAMMOTECT-A	EI 120 U/U
	Combustible pipes	Ø ≤ 125	Fire protection wrap PYRO-SAFE® DG-CR BS	EI 120 U/U
	Multi-layer composite pipes	Ø ≤ 63	Protective insulation FEF made of "Armaflex Protect"	EI 90 U/C
	Non-combustible pipes with PEF insulation	Ø ≤ 32 (with PEF insulation)	Fire protection wrap PYRO-SAFE® DG-CR BS	EI 120 U/C
		Ø ≤ 42	Fire protection wrap PYRO-SAFE® DG-CR 1.5	EI 120 C/U
	Non-combustible pipes with mineral wool	Ø ≤ 88.9	Fire protection wrap PYRO-SAFE® DG-CR 1.5	EI 60 / E 120 C/U
		Ø ≤ 114.3	Protective insulation made of lamella mat	EI 120 C/U

All data in mm

3-layer penetration sealing system

Media lines		Max. diameter	Measure	Fire rating (max.)
	Cables Cable bundles Cable trays	Ø ≤ 80 (cable) Ø ≤ 100 (bundle)	Coating PYRO-SAFE® FLAMMOTECT-A	EI 90 EI 120
		Ø ≤ 80 (cable) Ø ≤ 100 (bundle)	Fire protection wrap PYRO-SAFE® DG-CR 1.5	EI 90 EI 120
	Combustible pipes	Ø ≤ 125		
			Fire protection wrap PYRO-SAFE® DG-CR BS	EI 120 U/U
	Multi-layer composite pipes	Ø ≤ 63	Protective insulation FEF made of "Armaflex Protect"	EI 120 U/C
			Fire protection wrap PYRO-SAFE® DG-CR BS	EI 120 U/C
	HVAC split line combinations	Double (6-22/8-22 mm) / single copper pipe (6-22 mm) with PEF insulation 9 mm + PE-HD pipe ≤ 25 mm + max. 4 sheathed lines ≤ 21 mm	Fire protection wrap PYRO-SAFE® DG-CR 1.5	EI 120 U/U
			Fire protection wrap PYRO-SAFE® DG-CR 1.5	EI 120 U/U
	Double solar tubes "NanoSUN"	≤ DN 25		
			Fire protection wrap PYRO-SAFE® DG-CR 1.5	EI 120 C/U

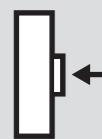
All data in mm

Fire rating:
up to max. EI 120 as per EN-13501-2

Versatile solution for fire protection in existing buildings

PYRO-SAFE® Flammotect OSI ensures that you are up to the challenge of renovating fire protection infrastructure in an existing building. Because this combined penetration sealing system is ideal when fire protection improvements have to be carried out for a variety of media in very constricted spaces and this is only possible with one-sided access. No frame is required for this surface-mounted penetration sealing system. No coating between the board layers is needed. And no noise pollution occurs either, because the system is simply screwed. PYRO-SAFE® Flammotect OSI has been tested and classified in diverse components – a genuine all-rounder in fire protection in existing buildings.

Benefits



One-sided installation solution

- Classified fire penetration sealing system
- For restricted installation situations, e.g. in control cabinets, shaft walls or floors
- Multi-combi assignment tested



Simple and clean installation

- Only one board in the opening area
- No frame required
- No noise pollution – no screwing to the surrounding component



No disruption of operation

- No increased noise pollution during installation
- During ongoing operation in existing buildings such as hospitals, hotels and department stores
- Tested as per EN 13501-2 to EI 120

Further information about PYRO-SAFE® Flammotect OSI

For further information about our versatile fire prevention solutions for renovation, visit our website: www.svt-global.com/Flammotect_OSI or contact us directly. We'll be delighted to help:

E-mail: global@svt.de
Telephone: +49 (0) 4105/4090 - 0



Protect your values.

members of svt group



AIK

flamro

ROLFKUHNGMBH

svt Products GmbH

Gluesinger Strasse 86 | 21217 Seevetal
Germany
T +49 (0) 4105/4090 - 0
F +49 (0) 4105/4090 - 32
global@svt.de | www.svt-global.com