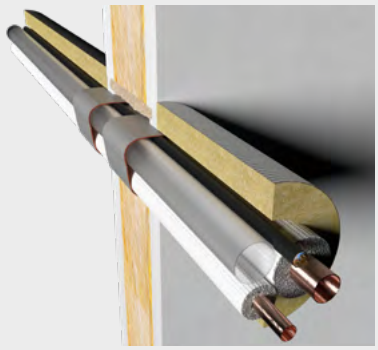
EU

System Catalogue 2024

Our solutions for passive structural fire protection



Subject to errors, misprints and changes. All information contained in this brochure reflects the state of the art or, if applicable, the requirements of the pertinent standard at the time of printing (06/2024).
Details about the legal and technical prerequisites applicable to your specific project and its environment, along with the relevant manufacturer specifications are available upon request.
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Material quantities indicated in this brochure are approximate only. Quantity requirements depend on the type and size of the actual penetration opening as well as on its occupancy rate (percent fill); detailed information can be gleaned from the pertinent installation instructions.

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FLAMRO® – the svt quality brand for preventive structural fire protection

The svt Group of Companies is recognised worldwide as a premier manufacturer and supplier of preventive fire protection solutions. As experts in passive structural fire protection, Flamro has been on the market for 30 years and has been part of the svt Group since 2018. FLAMRO® is now establishing itself internationally as the quality brand for the construction sector.

Together, svt and Flamro ensure increased safety in case of fire and boast Europe's largest and most diversified portfolio of state-of-the-art fire protection products and applications. Flamro's various types of cable and pipe penetration seals, cable ducts with special fitting pieces as well as cable bandages and coatings reliably ensure continuous, uninterrupted building and plant safety in case of fire – not only in Germany, but worldwide.

Made in Germany – with international certifications

Limiting property damage, preventing operational failures, avoiding environmental damage, and – above all – protecting human lives, health, and property; these are our goals, which can only be achieved with uncompromising quality. At Flamro, we manufacture all of our products in-house and adapt them to various international standards. This includes, for example, solutions certified according to UL 1479/ASTM E814, UL 2079/ASTM E1966, FM 3971, and EN 1366.

The high standards of our FLAMRO® products and systems are achieved through meticulous preliminary testing at our own fire testing facilities in Germany and recognised certification from renowned and accredited testing laboratories. In short: with Flamro, you can trust in "Made in Germany" quality.

Increased safety – through our own research and development

As part of the formidable svt Group of Companies, Flamro stands for innovation. Based on the latest findings of current research, all FLAMRO® products and systems do not only undergo rigorous fire protection tests, but are also constantly further developed. Besides safety, a diverse product range and practical user-friendliness also play an important role.

At Flamro, research and development therefore always go hand in hand in a forward-looking direction. This is why Flamro is now one of the world's major manufacturers in the field of passive structural fire protection. We can offer you both certified standard products and customised fire protection solutions.

With Flamro, you are always on the safe side.

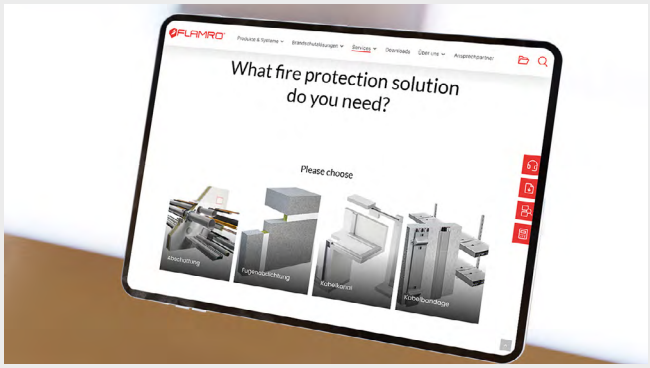
Our services for you

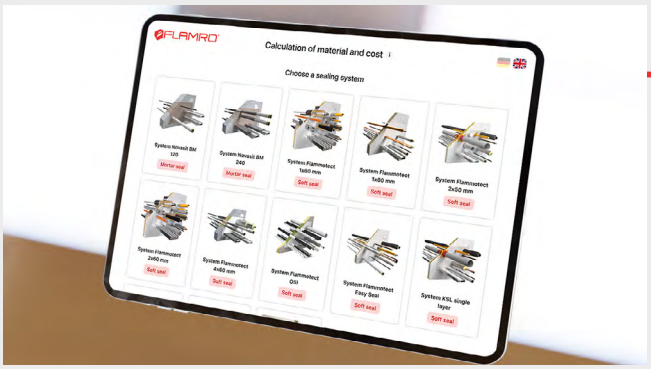
FLAMRO® is the svt Group's quality brand for products and applications for passive structural fire protection. We offer customised solutions for penetration sealing, cable ducts, cable bandages and coatings as well as practical training for you and your employees. Using our know-how, we will assist you with any questions or issues you may have regarding preventive structural fire protection.

FLAMRO® Product Guide

In just a few clicks, you will quickly find the best passive fire protection solution for your construction project.

The FLAMRO® Product Guide is available at:
flamro.com/eu/services/product-guide



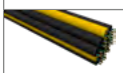


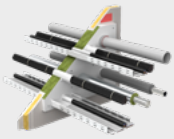
FLAMRO® Calculator

Provide just a few details to find out what material quantities you need to install a FLAMRO® penetration sealing system.

The FLAMRO® Material & Cost Calculator is available at:
calc.flamro.com

System overview

System			System Novasit BM	System Novasit BM 240	System Flammotect 1 × 60 mm	System Flammotect 1 × 80 mm
			Details page 10	Details page 12	Details page 14	Details page 16
Areas of application			Solid wall, solid floor	Solid wall, solid floor	Plasterboard wall, solid wall, solid floor, sandwich panel wall, timber construction	Plasterboard wall, solid wall, solid floor
Fire resistance class as per EN 13501-2			max. EI 120	max. EI 240	EI 30 – EI 60 (max. EI 90)	EI 90 (max. EI 120)
	Cable		✓	✓	✓	✓
	Cable bundles		✓	✓	✓	✓
	Cable trays		✓	✓	✓	✓
	Wave guides/coaxial cables		✓		✓	
	EIC	Single	✓		✓	✓
	EIC	Bundle	✓		✓	✓
	speedpipes		✓		✓	
	Combustible pipes		✓		✓	
	Multilayer pipes		✓		✓	
	Non-combustible pipes with mineral fibre insulation		✓		✓	
	Non-combustible pipes with FEF insulation		✓		✓	
	HVAC split line combinations		✓		✓	✓
	Double solarpipes NanoSun[2]		✓		✓	
	Hydraulic hoses		✓			

System Flammotect 2 × 50 mm	System Flammotect 2 × 60 mm	System Flammotect 4 × 60 mm	System Flammotect OSI	System Flammotect Easy Seal	System DG-SC
					
Details page 18	Details page 20	Details page 22	Details page 24	Details page 26	Details page 28
Plasterboard wall, solid wall, solid floor, sandwich panel wall, timber construction	Plasterboard wall, solid wall, solid floor, sandwich panel wall, timber construction	Solid wall, solid floor	Plasterboard wall, solid wall, solid floor, shaft wall	Plasterboard wall, solid wall, solid floor	Plasterboard wall, solid wall, solid floor, shaft wall
EI 90 (max. EI 120)	EI 90 – EI 120	max. EI 240	max. EI 120	max. EI 120	max. EI 120
✓	✓	✓	✓	✓	✓
✓	✓	✓	✓	✓	✓
✓	✓	✓	✓		
✓	✓			✓	✓
✓	✓		✓	✓	✓
✓	✓		✓	✓	✓
			✓		
✓	✓		✓		✓
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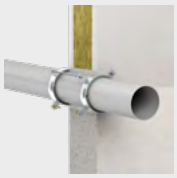
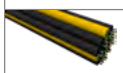
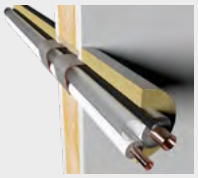
✓	✓		✓	✓	✓
✓	✓		✓	✓	✓
	✓			✓	✓

System overview

System			System AWM II	System FSC 4	System KSL-W	System EC Endless Collar
System						
			Details page 30	Details page 32	Details page 34	Details page 36
Areas of application			Plasterboard wall, solid wall, solid floor	Plasterboard wall, solid wall, solid floor	Plasterboard wall, solid wall, solid floor	Plasterboard wall, solid wall, solid floor
Fire resistance class as per EN 13501-2			max. EI 120	max. EI 240	max. EI 180	max. EI 240
	Cable					
	Cable bundles					
	Cable trays					
	Wave guides/coaxial cables					
	EIC	Single				
	EIC	Bundle				
	speedpipes					
	Combustible pipes		✓	✓	✓	✓
	Multilayer pipes			✓	✓	✓
	Non-combustible pipes with mineral fibre insulation					
	Non-combustible pipes with FEF insulation					✓
	HVAC split line combinations					
	Double solarpipes NanoSun[2]					
	Hydraulic hoses					

System AWM II KS	System NBR-plus	System Cable Tube	System Cable Tube ML	BK-N fire protection pillows
				
Details page 38	Details page 40	Details page 42	Details page 44	Details page 46
Plasterboard wall, solid wall, solid floor	Plasterboard wall, solid wall, solid floor	Plasterboard wall, solid wall, solid floor, timber construction	Plasterboard wall, solid wall	Plasterboard wall, solid wall, solid floor
max. EI 120	max. EI 120	max. EI 120	max. EI 120	max. EI 120
		✓	✓	✓
		✓		✓
				✓
		✓		
✓		✓	✓	
✓		✓		
		✓		
		✓		
	✓			
	✓	✓		

System Novasit BM

Fire resistance class: max. EI 120

Combination penetration seal made of fire protection compound for a variety of different services

Areas of application

- Plasterboard wall, solid wall, solid floor

Highlights

- Mortar sealing system with a low thickness for a fire resistance of up to 120 minutes
- Design variant with a seal thickness of only 100 mm
- Can be applied in plasterboard walls
- No need to alter or adapt the aperture shape
- Easy processing – due to excellent adhesiveness and stability of the mortar, formwork is not necessary in most cases

Features

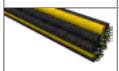
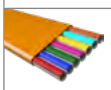
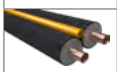
- One component, hydraulically hardening, resistant to age
- Suitable for manual installation and pump processing
- Resistant to splash water

System data

Proof of usability		ETA-22/0051
Thickness of structural element	Plasterboard wall	≥ 100
	Solid wall	≥ 150
	Solid floor	≥ 150
Maximum seal size	Plasterboard wall	550 × 600
	Solid wall	1200 × 2000 or 2000 × 1200
	Solid floor	1200 × 2000

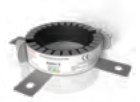
All specifications in mm

Configuration

	Services		**max. diameter**
	Cable		≤ 80
	Cable bundles		≤ 100 / ≤ 21
	Cable trays		✓
	EIC	Single	≤ 100 ≤ 63 / ≤ 21 (≤ 100 / ≤ 50 in floors)
	EIC	Bundle	≤ 100 / ≤ 32 / ≤ 21
	speedpipes		24 × ≤ 7 7 × ≤ 10 5 × ≤ 12
	Combustible pipes		≤ 160
	Multilayer pipes		≤ 63
	Non-combustible pipes with mineral fibre insulation		≤ 323.9 (steel, stainless steel, cast iron) ≤ 108 (copper)
	Non-combustible pipes with FEF insulation		≤ 170 (steel, stainless steel, cast iron) ≤ 108 (copper)
	HVAC split line combinations		✓
	Double solarpipes NanoSun²		≤ DN 25
	Hydraulic hoses		≤ 55.9

All specifications in mm

Products

	NOVASIT BM **fire protection compound** bag 20 kg – Art. no. 01161000 pail 10 kg – Art. no. 01161010
	FLAMMOTECT-A **fire protection coating** pail 12.5 kg – Art. no. 01155134 pail 5 kg – Art. no. 01155135 310 ml cartridge – Art. no. 01155115
	NBR-plus **fire protection wrap** roll, 10 m × 125 mm (separable into 2 × 62.5 mm) – Art.-no. 01261941
	KSL-W **fire protection fabric** roll 20 m × 50 mm – Art. no. 15520 roll 10 m × 50 mm – Art. no. 15510
	Cable Tube CT Ø 60 mm / length 150 mm – Art. no. 01276101 Ø 90 mm / length 150 mm – Art. no. 01279101 Ø 90 mm / length 200 mm – Art. no. 01279201 Ø 90 mm / length 300 mm – Art. no. 01279301 Ø 120 mm / length 150 mm – Art. no. 01271151 Ø 120 mm / length 200 mm – Art. no. 01271201 Ø 120 mm / length 300 mm – Art. no. 01271301
	Lamella mat Klimarock 6100 × 500 × 30 mm – Art. no. 01187100
	**AWM II** **fire protection collar** Art. no. 01142032 - 01142160

Material consumption

Seal size [m²]*	Configuration		
	0 %	30 %	60 %
0.01	1.5	1.05	0.6
0.02	3.0	2.1	1.2
0.03	4.5	3.15	1.8
0.05	7.5	5.25	3.0
0.10	15.0	10.5	6.0
0.20	30.0	21.0	12.0
0.30	45.0	31.5	18.0
0.50	75.0	52.5	30.0
1.00	150.0	105.0	60.0

* Seal thickness 150 mm

Approx. values in kg

Yield

NOVASIT BM

6–7 l water + 20 kg dry mortar

≈ 20 l ready-to-use wet mortar

≈ 20 l volume after hardening

Novasit BM 240

Fire resistance class: max. EI 240

Cable penetration seal made of fire protection compound for applications with particularly high requirements in terms of fire resistance

Areas of application

- Solid wall, solid floor

System data

Proof of usability		ETA-22/0051
Thickness of structural element	Solid wall	≥ 240
	Solid floor	≥ 200
Maximum seal size	Solid wall	600 × 600
	Solid floor	600 × 600

All specifications in mm

Configuration

Services		**max. diameter**
	Cable	≤ 80
	Cable bundles	≤ 100 / ≤ 21
	Cable trays	✓

All specifications in mm

Highlights

- Meets exceptionally high requirements to fire resistance
- The sealing system prevents flame passage and an excessive rise of temperature for four hours

Features

- One component, hydraulically hardening, resistant to age
- Suitable for manual installation and pump processing
- Resistant to splash water

Products

	NOVASIT BM **fire protection compound** bag 20 kg – Art. no. 01161000 pail 10 kg – Art. no. 01161010
	DG-CR 1.5 **fire protection wrap** roll 10 m × 125 mm – Art. no. 01261931

Yield

NOVASIT BM

6–7 l water + 20 kg dry mortar

≈ 20 l ready-to-use wet mortar

≈ 20 l volume after hardening

System Flammotect 1 × 60 mm

Fire resistance class: EI 30 – EI 60 (max. EI 90)

Mixed penetration sealing system made of mineral fibre boards (1 × 60 mm) with ablative fire protection coating

Areas of application

- Plasterboard wall, solid wall, solid floor, timber construction (CLT walls and floors)

Highlights

- Minimal dry film thickness on seal surface as well as on penetrating cables, cable bundles and cable trays, which also require only minimal coating
- Easy sealing of combustible standard and non-standard pipes in mixed penetration sealing systems with wrap or collar
- Approved for fire protection in timber construction.

Features

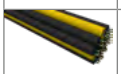
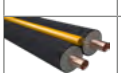
- A great number of approvals for the included products, for example resistance to humidity, freeze-thaw-changes, UV radiation, various oils and chemicals
- The required dry film thicknesses can be applied in one step

System data

Proof of usability		ETA-22/0052
Thickness of structural element	Plasterboard wall	≥ 100
	Solid wall	≥ 100
	Solid floor	≥ 150
	Timber wall	≥ 100
	Timber floor	≥ 140
	Sandwich panel wall	≥ 100
Maximum seal size	Plasterboard wall	1224 × 2000 or 2000 × 1224
	Solid wall	1224 × 2000 or 2000 × 1224
	Solid floor	10 000 × 1000
	Timber wall	600 × 1000 or 1000 × 600
	Timber floor	600 × 1000 or 420 × 3500
	Sandwich panel wall	1000 × 1000

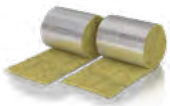
All specifications in mm

Configuration

	Services		**max. diameter**
	Cable		≤ 80
	Cable bundles		≤ 100
	Cable trays		✓
	EIC	Single	≤ 32
	EIC	Bundle	≤ 100
	Wave guides/coaxial cables		≤ 51.1
	speedpipes		≤ 40
	Combustible pipes		≤ 160
	Multilayer pipes		≤ 63 / ≤ 75 / ≤110
	Non-combustible pipes with mineral fibre insulation		≤ 219.1 (steel, stainless steel, cast iron) ≤ 88.9 (copper)
	Non-combustible pipes with FEF insulation		≤ 219.1 (steel, stainless steel, cast iron) ≤ 88.9 (copper)
	HVAC split line combinations		✓
	Double solarpipes NanoSun^2		≤ DN 40

All specifications in mm

Products

	FLAMMOTECT-A **fire protection coating** **coating** pail 12.5 kg – Art. no. 01155131 pail 5 kg – Art. no. 01155132 **solid emulsion** pail 12.5 kg – Art. no. 01155136 pail 5 kg – Art. no. 01155121 **filler** pail 12.5 kg – Art. no. 01155134 pail 5 kg – Art. no. 01155135 cartridge 310 ml – Art. no. 01155115
	NBR-plus **fire protection wrap** roll, 10 m × 125 mm (separable into 2 × 62.5 mm) – Art.-no. 01261941
	AWM II **fire protection collar** Art. no. 01142032 - 01142160
	KSL-W **fire protection fabric** roll 20 m × 50 mm – Art. no. 15520 roll 10 m × 50 mm – Art. no. 15510
	Mineral fibre board pre-coated on both sides with FLAMMOTECT-A 1000 × 600 × 60 mm – Art. no. 01182165
	**Lamella mat Klimarock** 6100 × 500 × 30 mm – Art. no. 01187100
	Mineral wool bag 10 kg – Art. no. 01183000

System Flammotect 1 × 80 mm

Fire resistance class: EI 90 – EI 120

Sealing system made of mineral fibre boards (1 × 80 mm) with ablative fire protection coating for electrical installations and HVAC split line combinations

Areas of application

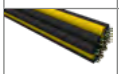
- Plasterboard wall, solid wall, solid floor

System data

Proof of usability		ETA-22/0052
Thickness of structural element	Plasterboard wall	≥ 100
	Solid wall	≥ 100
	Solid floor	≥ 150
Maximum seal size	Plasterboard wall	600 × 2000 or 2000 × 600
	Solid wall	600 × 2000 or 2000 × 600
	Solid floor	600 × 2000 or 490 × 10 000

All specifications in mm

Configuration

	Services		**max. diameter**
	Cable		≤ 80
	Cable bundles		≤ 100
	Cable trays		✓
	EIC	Single	≤ 63
	EIC	Bundle	≤ 100
	HVAC split line combinations		✓

All specifications in mm

Highlights

- ✓ 90 minutes of fire resistance with only one mineral fibre board layer
- ✓ Approved for sealing electrical installation conduits and pre-insulated refrigerant lines

Features

- ✓ A great number of approvals for the included products, for example resistance to humidity, freeze-thaw-changes, UV radiation, various oils and chemicals
- ✓ The required dry film thicknesses can be applied in one step
- ✓ The consistency of the coating compound allows for a clean coating of the cables and the seal surface
- ✓ The coating remains flexible after drying and can be coated over with other materials

Products

	FLAMMOTECT-A **fire protection coating** **coating** pail 12.5 kg – Art. no. 01155131 pail 5 kg – Art. no. 01155132 **solid emulsion** pail 12.5 kg – Art. no. 01155136 pail 5 kg – Art. no. 01155121 **filler** pail 12.5 kg – Art. no. 01155134 pail 5 kg – Art. no. 01155135 cartridge 310 ml – Art. no. 01155115
	NBR-plus **fire protection wrap** roll, 10 m × 125 mm (separable into 2 × 62.5 mm) – Art.-no. 01261941
	Mineral fibre board pre-coated on both sides with FLAMMOTECT-A 1000 × 600 × 80 mm – Art. no. 01182185
	Mineral wool bag 10 kg – Art. no. 01183000

System Flammotect 2 × 50 mm

Fire resistance class: EI 90 – EI 120

Mixed penetration sealing system (2 × 50 mm) with ablative fire protection coating

Areas of application

- Plasterboard wall, solid wall, solid floor, timber construction (CLT walls and floors)

Highlights

- Can be installed without cladding of the aperture edge
- Easy sealing of combustible standard and non-standard pipes in mixed penetration sealing systems with wrap or collar
- The fire protection collar is fastened with coarse thread screws
- Approved for fire protection in timber construction

Features

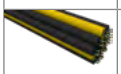
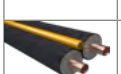
- A great number of approvals for the included products, for example resistance to humidity, freeze-thaw-changes, UV radiation, various oils and chemicals
- The required dry film thicknesses can be applied in one step
- The coating can be coated over with other materials

System data

Proof of usability		ETA-22/0052
Thickness of structural element	Plasterboard wall	≥ 100
	Solid wall	≥ 100
	Solid floor	≥ 150
	Timber wall	≥ 100
	Timber floor	≥ 140
	Sandwich panel wall	≥ 120
Maximum seal size	Plasterboard wall	1100 × 2200 or 2200 × 1100
	Solid wall	1100 × 2200 or 2200 × 1100
	Solid floor	2600 × 1000 or ∞ × 800
	Timber wall	600 × 1000 or 1000 × 600
	Timber floor	600 × 1000 or 400 × 3500
	Sandwich panel wall	1000 × 1000

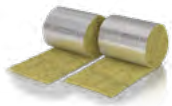
All specifications in mm

Configuration

	Services		**max. diameter**
	Cable		≤ 80
	Cable bundles		≤ 100
	Cable trays		✓
	EIC	Single	≤ 63
	EIC	Bundle	≤ 125
	Wave guides/coaxial cables		≤ 51.1
	speedpipes		≤ 40
	Combustible pipes		≤ 160
	Multilayer pipes		≤ 63 / ≤ 75 / ≤ 32
	Non-combustible pipes with mineral fibre insulation		≤ 219.1 (steel) ≤ 88.9 (copper)
	Non-combustible pipes with FEF insulation		≤ 219.1 (steel) ≤ 88.9 (copper)
	HVAC split line combinations		✓

All specifications in mm

Products

	FLAMMOTECT-A **fire protection coating** **coating** pail 12.5 kg – Art. no. 01155131 pail 5 kg – Art. no. 01155132 **solid emulsion** pail 12.5 kg – Art. no. 01155136 pail 5 kg – Art. no. 01155121 **filler** pail 12.5 kg – Art. no. 01155134 pail 5 kg – Art. no. 01155135 cartridge 310 ml – Art. no. 01155115
	NBR-plus **fire protection wrap** roll, 10 m × 125 mm (separable into 2 × 62.5 mm) – Art.-no. 01261941
	AWM II **fire protection collar** Art. no. 01142032 - 01142160
	KSL-W **fire protection fabric** roll 20 m × 50 mm – Art. no. 15520 roll 10 m × 50 mm – Art. no. 15510
	EC Endless Collar (U/U) Set with 10 m fire protection strip, 3 m stainless steel strap and 18 fasteners Art. no. 01145303
	Mineral fibre board pre-coated on one side with FLAMMOTECT-A 1000 × 600 × 50 mm – Art. no. 01181155
	**Lamella mat Klimarock** 6100 × 500 × 30 mm – Art. no. 01187100
	Mineral wool bag 10 kg – Art. no. 01183000

System Flammotect 2 × 60 mm

Fire resistance class: EI 90 – EI 120

Mixed penetration sealing system made of mineral fibre boards (2 × 60 mm) with ablative fire protection coating

Areas of application

- Plasterboard wall, solid wall, solid floor, timber construction (CLT walls and floors)

Highlights

- Can be installed without cladding of the aperture edge
- Easy sealing of combustible standard and non-standard pipes in mixed penetration sealing systems with wrap or collar
- The fire protection collar is fastened with coarse thread screws
- Approved for fire protection in timber construction

Features

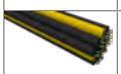
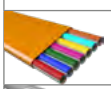
- A great number of approvals for the included products, for example resistance to humidity, freeze-thaw-changes, UV radiation, various oils and chemicals
- The required dry film thicknesses can be applied in one step
- The coating can be coated over with other materials

System data

Proof of usability		ETA-22/0052
Thickness of structural element	Plasterboard wall	≥ 100
	Solid wall	≥ 100
	Solid floor	≥ 150
	Timber wall	≥ 100
	Timber floor	≥ 140
	Sandwich panel wall	≥ 120
Maximum seal size	Plasterboard wall	1400 × 2000
	Solid wall	1400 × 2000
	Solid floor	1400 × 2000
	Timber wall	600 × 1000 or 1000 × 600
	Timber floor	600 × 1000 or 420 × 3500
	Sandwich panel wall	1000 × 1000

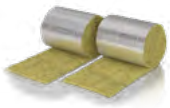
All specifications in mm

Configuration

Services			**max. diameter**
	Cable		≤ 80
	Cable bundles		≤ 100
	Cable trays		✓
	EIC	Single	≤ 63
	EIC	Bundle	≤ 100
	Wave guides/coaxial cables		≤ 51.1
	speedpipes		≤ 40
	Combustible pipes		≤ 160
	Multilayer pipes		≤ 75 / ≤ 32 / ≤75
	Non-combustible pipes with mineral fibre insulation		≤ 323.9 (steel) ≤ 108 (copper)
	Non-combustible pipes with FEF insulation		≤ 219.1 (steel) ≤ 108 (copper)
	Non-combustible pipes with PIR insulation		≤ 219.1 (steel) ≤ 88.9 (copper)
	HVAC split line combinations		✓
	Double solarpipes NanoSun[2]		≤ DN 40

All specifications in mm

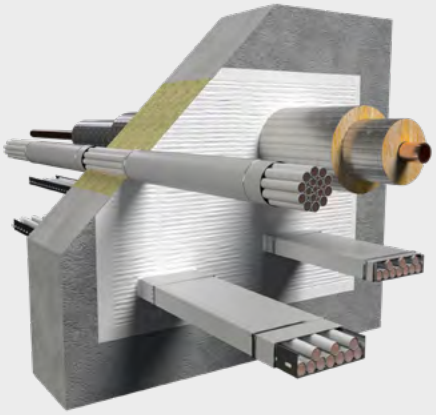
Products

	FLAMMOTECT-A **fire protection coating** **coating** pail 12.5 kg – Art. no. 01155131 pail 5 kg – Art. no. 01155132 **solid emulsion** pail 12.5 kg – Art. no. 01155136 pail 5 kg – Art. no. 01155121 **filler** pail 12.5 kg – Art. no. 01155134 pail 5 kg – Art. no. 01155135 cartridge 310 ml – Art. no. 01155115
	NBR-plus **fire protection wrap** roll, 10 m × 125 mm (separable into 2 × 62.5 mm) – Art.-no. 01261941
	AWM II **fire protection collar** Art. no. 01142032 - 01142160
	KSL-W **fire protection fabric** roll 20 m × 50 mm – Art. no. 15520 roll 10 m × 50 mm – Art. no. 15510
	EC Endless Collar (U/U) Set with 10 m fire protection strip, 3 m stainless steel strap and 18 fasteners Art. no. 01145303
	**Lamella mat Klimarock** 6100 × 500 × 30 mm – Art. no. 01187100
	Mineral wool bag 10 kg – Art. no. 01183000

System Flammotect 4 × 60 mm

Fire resistance class: EI 240

Mixed penetration sealing system made of mineral fibre boards (4 × 60 mm) with ablative fire protection coating



Areas of application

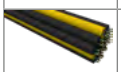
- Solid wall, solid floor

System data

Proof of usability		ETA-22/0052
Thickness of structural element	Solid wall	≥ 240
	Solid floor	≥ 200
Maximum seal size	Solid wall	600 × 600
	Solid floor	600 × 600

All specifications in mm

Configuration

Services		**max. diameter**
	Cable	≤ 80
	Cable bundles	≤ 100
	Cable trays	✓
	Non-combustible pipes with mineral fibre insulation	≤ 323.9 (steel)

All specifications in mm

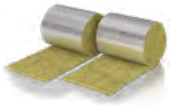
Highlights

- ✓ Meets particularly high fire resistance requirements. The four-layer sealing system made of mineral fibre boards with an ablative fire protection coating for electrical installations prevents flame passage and an excessive rise of temperature for four hours.

Features

- ✓ A great number of approvals for the included products, for example resistance to humidity, freeze-thaw-changes, UV radiation, various oils and chemicals
- ✓ The required dry film thicknesses can be applied in one step
- ✓ The coating can be coated over with other materials

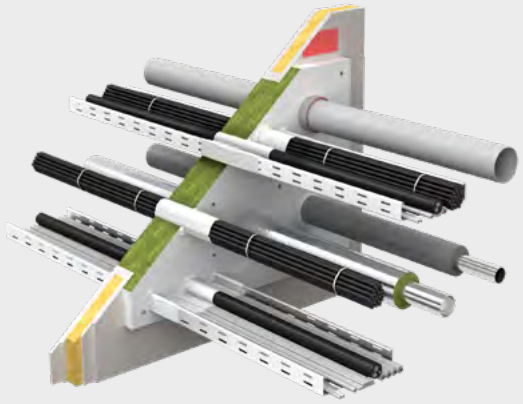
Products

	FLAMMOTECT-A **fire protection coating** **coating** pail 12.5 kg – Art. no. 01155131 pail 5 kg– Art. no. 01155132 **solid emulsion** pail 12.5 kg – Art. no. 01155136 pail 5.0 kg – Art. no. 01155121 **filler** pail 12.5 kg – Art. no. 01155134 pail 5 kg – Art. no. 01155135 cartridge 310 ml – Art. no. 01155115
	DG-CR 0.7 **fire protection fabric** roll 20 m × 1100 mm – Art. no. 01260231
	**Lamella mat Klimarock** 6100 × 500 × 30 mm – Art. no. 01187100
	Mineral wool bag 10 kg – Art. no. 01183000

System Flammotect OSI

Fire resistance class: max. EI 120

Mixed penetration sealing system made of mineral fibre boards (2 × 50 mm or 3 × 50 mm) with ablative fire protection coating for situations requiring one-sided installation



Areas of application

- Plasterboard wall, solid wall, solid floor, shaft wall

Highlights

- One-sided installation
- Only one mineral fibre board in the aperture area
- Construction of a surrounding frame is not necessary
- A screw connection to the building element is not required

Features

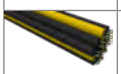
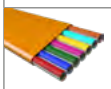
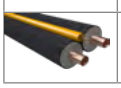
- A great number of approvals for the included products, for example resistance to humidity, freeze-thaw-changes, UV radiation, various oils and chemicals
- The required dry film thicknesses can be applied in one step
- The coating can be coated over with other materials

System data

Proof of usability		ETA-22/0052
Thickness of structural element	Plasterboard wall	≥ 100
	Solid wall	≥ 100
	Solid floor	≥ 150
	Shaft wall	≥ 40
Maximum seal size	Plasterboard wall	800 × 1175 or 1175 × 800
	Solid wall	800 × 1175 or 1175 × 800
	Solid floor	1100 × 1300
	Shaft wall	370 × 450

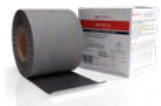
All specifications in mm

Configuration

Services			**max. diameter**
	Cable		≤ 80
	Cable bundles		≤ 100 / ≤ 21
	Cable trays		✓
	EIC	Single	≤ 32 / ≤ 21
	EIC	Bundle	≤ 100 / ≤ 32 / ≤ 21
	speedpipes		24 × ≤ 7 7 × ≤ 10 5 × ≤ 12
	Combustible pipes		≤ 160
	Multilayer pipes		≤ 63
	Non-combustible pipes with mineral fibre insulation		≤ 170 (steel) ≤ 88.9 (copper)
	Non-combustible pipes with FEF insulation		≤ 88.9
	HVAC split line combinations		✓

All specifications in mm

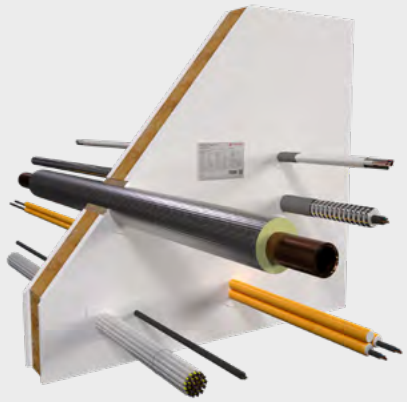
Products

	FLAMMOTECT-A **fire protection coating** **coating** pail 12.5 kg – Art. no. 01155131 pail 5 kg– Art. no. 01155132 **solid emulsion** pail 12.5 kg – Art. no. 01155136 pail 5.0 kg – Art. no. 01155121 **filler** pail 12.5 kg – Art. no. 01155134 pail 5 kg – Art. no. 01155135 cartridge 310 ml – Art. no. 01155115
	DG-CR BS **fire protection wrap** roll 10 m × 100 mm – Art. no. 01264931
	**DG-CR 1.5** **fire protection wrap** roll 10 m × 125 mm – Art. no. 01261931
	Mineral fibre board pre-coated on one side with FLAMMOTECT-A 1000 × 600 × 50 mm – Art. no. 01181155
	Lamella mat Klimarock 6100 × 500 × 30 mm – Art. no. 01187100
	Mineral wool bag 10 kg – Art. no. 01183000

System Flammotect Easy Seal

Fire resistance class: max. EI 120

Easy-to-install sealing system made of mineral wool and ablative fire protection filler for single penetrations and small apertures with multiple penetrations



Areas of application

- Plasterboard wall, solid wall, solid floor

Highlights

- Exceptionally quick way to install an approved sealing system for small openings
- Low material requirements
- Ideal for small seals and apertures that are irregular or hard to access
- Also suitable for HVAC split line combinations and solar pipes

Features

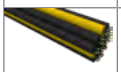
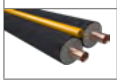
- A great number of approvals for the included products, for example resistance to humidity, freeze-thaw-changes, UV radiation, various oils and chemicals
- The coating remains flexible after drying and can be coated over with other materials

System data

Proof of usability		ETA-22/0052
Thickness of structural element	Plasterboard wall	≥ 100
	Solid wall	≥ 100
	Solid floor	≥ 150
Maximum seal size	Plasterboard wall	500 × 200
	Solid wall	500 × 200
	Solid floor	350 × 150 or Ø 150

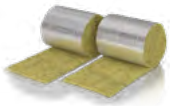
All specifications in mm

Configuration

Services			**max. diameter**
	Cable		≤ 21
	Cable bundles		≤ 100
	EIC	Single	≤ 32
	EIC	Bundle	≤ 100
	Wave guides/coaxial cables		≤ 51.1
	Non-combustible pipes with mineral fibre insulation		≤ 219.1 (steel) ≤ 88.9 (copper)
	Non-combustible pipes with FEF insulation		≤ 219.1 (steel) ≤ 88.9 (copper)
	HVAC split line combinations		✓

All specifications in mm

Products

	FLAMMOTECT-A **fire protection coating** **coating** pail 12.5 kg – Art. no. 01155131 pail 5 kg– Art. no. 01155132 **solid emulsion** pail 12.5 kg – Art. no. 01155136 pail 5.0 kg – Art. no. 01155121 **filler** pail 12.5 kg – Art. no. 01155134 pail 5 kg – Art. no. 01155135 cartridge 310 ml – Art. no. 01155115
	NBR-plus **fire protection wrap** roll, 10 m × 125 mm (separable into 2 × 62.5 mm) – Art.-no. 01261941
	**Lamella mat Klimarock** 6100 × 500 × 30 mm – Art. no. 01187100
	Mineral wool bag 10 kg – Art. no. 01183000

System DG-SC

Fire resistance class: max. EI 120

Simple penetration sealing system with intumescent filler

Areas of application

- Plasterboard wall, solid wall, shaft wall, solid floor

Highlights

- Sealing system for easy and quick installation
- Particularly suitable for apertures with single services
- Annular gap widths from 10 mm to 50 mm
- Optionally with or without backfilling with mineral wool
- Suitable for cables, cable bundles, electrical installation conduits, refrigerant lines, combustible pipes and non-combustible pipes with insulations made of mineral wool or FEF

Features

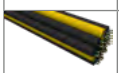
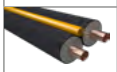
- Free of solvents and halogens
- Resistant to humidity, UV radiation, solvents
- Coatings can be applied subsequently

System data

Proof of usability		ETA-16/0268
Thickness of structural element	Plasterboard wall, solid wall	≥ 100
	Solid floor	≥ 150
	Shaft wall	≥ 40
Maximum seal size	Plasterboard wall, solid wall	Annular gap 10-25/50
	Solid floor	Annular gap 10-25/50
	Shaft wall	Annular gap 10-25

All specifications in mm

Configuration

Services			**max. diameter**
	Cable		≤ 61
	Cable bundles		≤ 180
	EIC	Single	≤ 32
	EIC	Bundle	≤ 100
	Wave guides/coaxial cables		≤ 51.1
	Combustible pipes		
	• PVC-U, PE-100, PP-H • Geberit Silent-Pro • Geberit Silent-PP • Geberit Silent-db20 • REHAU RAUPIANO PLUS • Wavin SiTech+ • POLOPLAST POLO-KAL NG • POLOPLAST POLO-KAL XS • POLOPLAST POLO-KAL 3S • Ostendorf Skolan (dB) • Valsir Triplus • Pipelife MASTER 3 PLUS • FRIATEC FRIAPHON		≤ 110
	Multilayer pipes		
	• Geberit Mepla • REHAU RAUTITAN stabil • KE KELIT KELOX MSV Rohr • Uponor Uni Pipe PLUS • FRÄNKISCHE alpex / alpex F50		≤ 75
	Non-combustible pipes without insulation		
	copper		≤ 22
	steel		≤ 48.3
	Non-combustible pipes with mineral fibre insulation		≤ 114 (steel) ≤ 88.9 (copper)
	Non-combustible pipes with FEF insulation		≤ 54
	HVAC split line combinations		✓
	Double solarpipes NanoSun²		✓

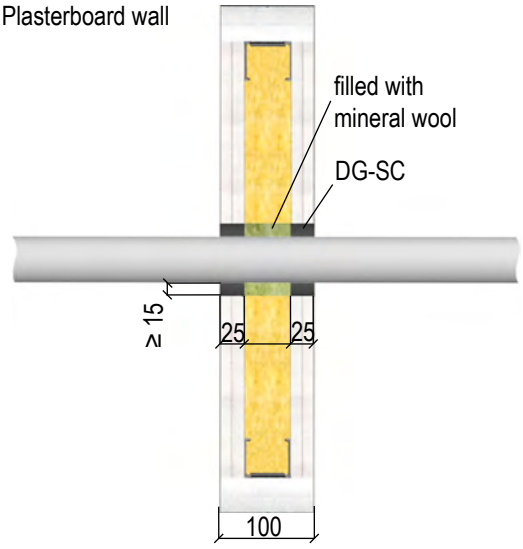
All specifications in mm

Products

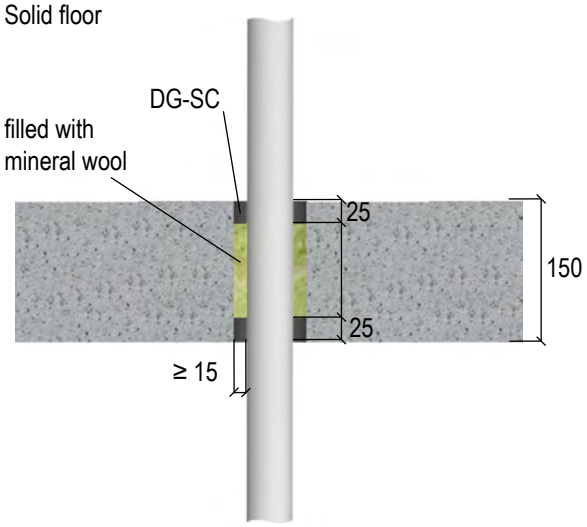
	DG-SC cartridge 310 ml – Art. no. 01157100
	Mineral wool bag 10 kg – Art. no. 01183000

Design variants

Plasterboard wall



Solid floor



System AWM II

Fire resistance class: max. EI 120

Fire protection collar as single penetration seal for insulated and non-insulated combustible pipes with or without soundproofing tube

Areas of application

- Plasterboard wall, solid wall, solid floor

Highlights

- Compact fire protection collar for easy installation
- Quick assembly due to locking system with an integrated option to alter the size
- For sealing combustible pipes with an outer diameter of up to 500 mm
- For a great variety of approved drain and supply pipes
- Pipes can be optionally insulated with PE soundproofing tubes or FEF insulations

Features

- Resistant to humidity, freeze-thaw-cycles and UV radiation (usage category X)
- Flat collar construction

System data

Proof of usability		ETA-17/0753
Thickness of structural element	Plasterboard wall, solid wall	≥ 100
	Solid floor	≥ 150
	Timber wall	≥ 100
	Timber floor	≥ 140
	Shaft wall	≥ 100

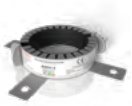
All specifications in mm

Configuration

Services		**max. diameter**
	Combustible pipes	
	• GF CoolFit 4.0	≤ 500
	• PVC-U, PE-HD	≤ 400
	• aquatherm blue pipe SDR 11 MF RP, SDR 17,6 MF RP • aquatherm green pipe SDR 9 MF RP	≤ 355
	• PP • GF COOL-FIT 4.0F • aquatherm green pipe SDR 11 S	≤ 315
	• aquatherm blue pipe SDR 9 MF RP OT, SDR 11 MF RP OT	≤ 250
	• GF COOL-FIT 2.0/2.0F	≤ 200
	• POLOPLAST POLO-KAL 3S • POLOPLAST POLO-KAL NG • POLOPLAST POLO-KAL XS • Geberit Silent-PP • Geberit Silent-Pro • Geberit Silent-db20 • REHAU RAUPIANO PLUS • REHAU RAUPIANO LIGHT • REHAU RAUSILENTO • GF GF Silenta Premium • Wavin AS+ • Wavin SiTech+ • Pipelife MASTER 3 • Pipelife MASTER 3 PLUS • SANHA Master 3 • KE KELIT PHONEX AS • Valsir Triplus	≤ 160
	• CONEL DRAIN • Ostendorf Skolan dB • aquatherm green pipe SDR 6 S	≤ 110
	• COES Blue Power	≤ 100
	• aquatherm green pipe SDR 7,4 S	≤ 63
	• Pelletschlauch PVC-Cu, PUR-Cu	≤ 60
	• aquatherm blue pipe SDR 9 MF RP	≤ 32

All specifications in mm

Products

	GFM **fire protection mortar** bag 25 kg – Art. no. 01167000
	FLAMMOTECT-A **fire protection coating** **filler** cartridge 310 ml – Art. no. 01155115
	**AWM II** **fire protection collar** Art. no. 01142032 - 01142500
	Set of fasteners 2 AWM II Ø 32-50 mm Art. no. 01146050 **Set of fasteners 4 AWM II Ø 63-125 mm** Art. no. 01146125 **Set of fasteners 6 AWM II Ø 140-160 mm** Art. no. 01146160 **Set of fasteners 8 AWM II Ø 180-200 mm** Art. no. 01146200 **Set of fasteners 10 AWM II Ø 225-250 mm** Art. no. 01146250 **Set of fasteners 12 AWM II Ø 280-400 mm** Art. no. 01146400 **Set of fasteners 14 AWM II Ø 450-500 mm** Art. no. 0707002070
	Mineral wool bag 10 kg – Art. no. 01183000

Dimensions

Collar size Ø	Internal Ø D2	External Ø D1	Installation height H1	Number of tabs [n]	Size adjustable
32	40	50	26	2	✓
40	48	58	26	2	
50	57	68	26	2	
63	70	94	26	4	
75	83	106	26	4	
90	100	132	26.6	4	
110	120	155	26.6	4	
125	135	172	40	4	
140	152	200	40	6	
160	169	220	40	6	
180	184	264	40	8	-
200	204	284	40	8	
225	239	328	51.5	10	
250	264	353	51.5	10	
280	289	378	51.5	12	
315	328	417	51.5	12	
355	370	459	51.5	12	
400	415	504	51.5	12	

All specifications in mm

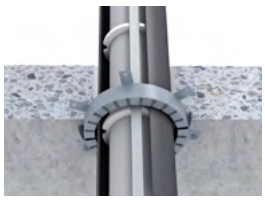
Design variants

Application with mortar
Grouted collar ≤ 110 mm
Grouted tabs ≤ 200 mm

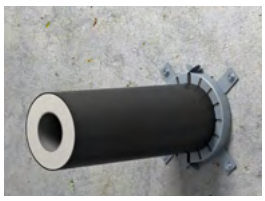
Application on 2 × 45° bends

Diagonal penetrations

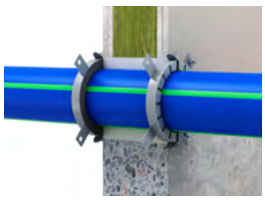
Pipes with FEF insulation or PE soundproofing tube



Double pipe systems



GF COOL-FIT 2.0 and 4.0
Diameter ≤ 500 mm



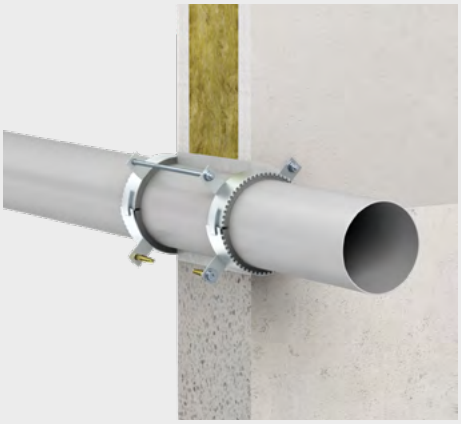
aquatherm blue pipe / green pipe
Diameter ≤ 355 mm with or without FEF insulation

* application and design variants depending on type of pipe

System FSC 4

Fire resistance class: EI 240 – U/C

Easy-to-install fire protection collar for sealing combustible pipes up to medium diameters



Areas of application

- Plasterboard wall, solid wall, solid floor

Highlights

- Fire protection collar, optimised for sealing combustible pipes with an outer diameter of up to 160 mm
- Optimised for drainage and standard pipes as well as basic applications

Features

- Resistant to humidity, freeze-thaw-cycles and UV radiation (usage category Y_1)

System data

Proof of usability		ETA-15/0907
Thickness of structural element	Plasterboard wall	≥ 100
	Solid wall	≥ 100
	Solid floor	≥ 150

All specifications in mm

Configuration

Services		**max. diameter**
	Combustible pipes	
	• PVC-U • PP • POLOPLAST POLO-KAL NG • REHAU RAUPIANO PLUS • PVC-U • PE • Wavin SiTech+	≤ 160
	• PE • COES Blue Power • Wavin SiTech+ • aquatherm green pipe MF • Geberit Silent-PP • PP • POLOPLAST POLO-KAL NG	≤ 110
	• Valsir Triplus	≤ 90
	Multilayer pipes	
	• Uponor Uni Pipe PLUS	≤ 110

All specifications in mm

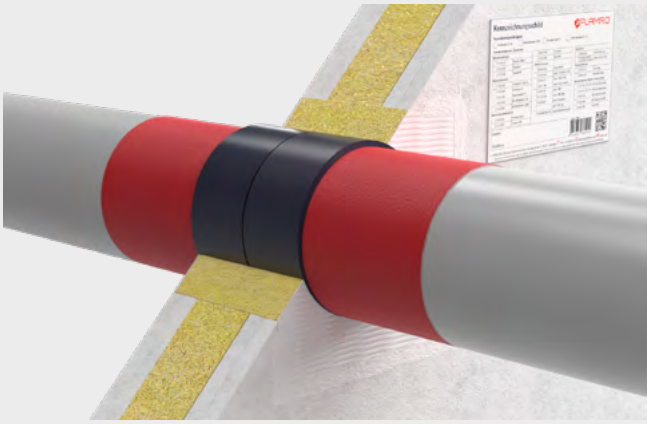
Products

	GFM **fire protection mortar** bag 25 kg – Art. no. 01167000
	FSC 4 **fire protection collar** Art. no. 01148050 - 01148160

System KSL-W

Fire resistance class: max. EI 180

Fire protection fabric for sealing penetrations with combustible pipes



Areas of application

- Plasterboard wall, solid wall, solid floor, shaft wall

Highlights

- Intumescent fire protection wrap for sealing combustible pipes and multilayer pipes
- A great number of approved drainage and multilayer pipes
- Optionally insulated with PE soundproofing tubes or FEF insulations
- Quick and easy installation – without dowels or drillings

Features

- Flexible material for easily handling and wrapping pipes
- Resistant to humidity, freeze-thaw-cycles and UV radiation (usage category X)
- Only one product required for all pipe diameters

System data

Proof of usability		ETA-18/0885
Thickness of structural element	Plasterboard wall	≥ 100
	Solid wall	≥ 100
	Solid floor	≥ 150
	Shaft wall	≥ 40

All specifications in mm

Configuration

	Services	**max. diameter**
	Combustible pipes	
	• PVC-U, PE-HD, PP • Geberit Silent-PP • Geberit Silent-Pro • KE KELIT PHONEX AS-PLUS • Pipelife MASTER 3 PLUS • POLOPLAST POLO-KAL NG • CONEL DRAIN • Geberit Silent-db20 • Wavin SiTech+ • POLOPLAST POLO-KAL XS • REHAU RAUPIANO PLUS • REHAU RAUPIANO LIGHT • GF Silenta Premium	≤ 110
	Multilayer pipes	
	• Geberit Mepla • REHAU RAUTITAN stabil • KE KELIT KELOX	≤ 75 ≤ 40 ≤ 75

All specifications in mm

Products

	GFM **fire protection mortar** bag 25 kg – Art. no. 01167000
	FLAMMOTECT-A **fire protection coating** **filler** cartridge 310 ml – Art. no. 01155115
	Mineral wool bag 10 kg – Art. no. 01183000
	KSL-W **fire protection fabric** roll 20 m × 50 mm – Art. no. 15520 roll 10 m × 50 mm – Art. no. 15510

Material consumption

Required length of combustible pipes

Insulation thickness	Pipe Ø / Number of layers	16	32	40	50	56	63	75	90	110	160
without insulation	2	0.15	0.25	0.30	0.35	0.40	-				
	4	-					0.95	1.10	1.30	1.55	-
	6	-									3.2
PE noise insulation 5	2	0.20	0.30	0.35	0.40	0.45	-				
	4	-					1.05	1.20	1.40	1.65	-
	6	-									3.40
FEF 19	2	0.40	0.50	0.60	0.70	0.75	-				
	4	-					1.35	1.50	1.70	1.90	-
	6	-									3.80

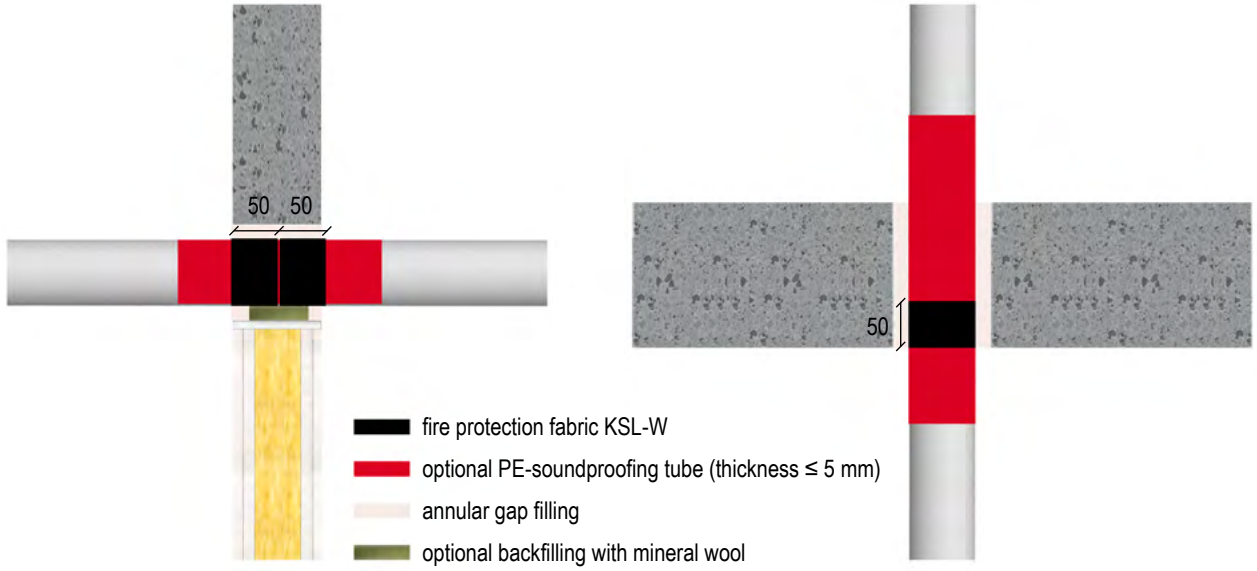
All specifications in mm

Required length of multilayer pipes

Insulation thickness	Pipe Ø / Number of layers	16	20	25	32	40	50	75
9-13	1	0.16	0.18	0.19	0.21	-		
	2	-				0.50	0.55	0.75
19	1	0.22	0.24	0.26	0.28	-		
	2	-				0.60	0.65	0.80
25	1	0.25	0.27	0.29	0.31	-		
	2	-				0.70	0.75	0.90
32	1	0.30	0.33	0.36	0.40	-		
	2	-				0.80	0.90	1.00

All specifications in mm

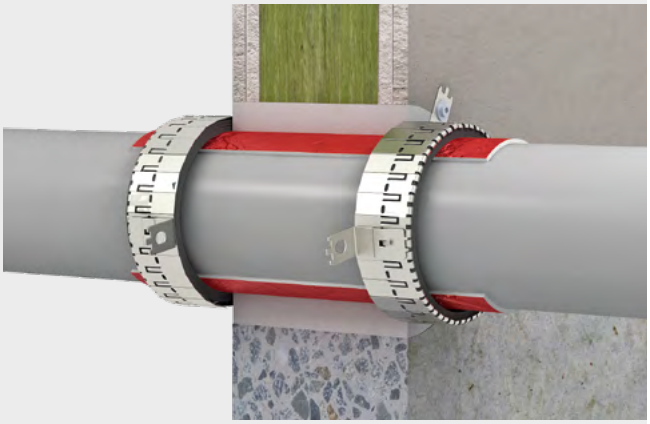
Design variants



System EC Endless Collar

Fire resistance class: max. EI 240

Endless collar with versatile design variants for sealing combustible and non-combustible pipes



Areas of application

- Plasterboard wall, solid wall, solid floor

Highlights

- Individually adaptable fire protection collar for combustible pipes with an outer diameter of up to 160 mm
- Many different types of application, for example in corners, on multiple or diagonal penetrations or for installation on pipe sleeves
- A great number of approved drainage and multilayer pipes
- Pipes optionally insulated with PE soundproofing tubes or FEF insulations
- Also for sealing non-combustible pipes with FEF insulations

Features

- Resistant to humidity, freeze-thaw-cycles and UV radiation (usage category Y_1)

System data

Proof of usability		ETA-22/0054
Thickness of structural element	Plasterboard wall	≥ 100
	Solid wall	≥ 100
	Solid floor	≥ 150

All specifications in mm

Configuration

	Services	**max. diameter**
	Combustible pipes	
	• PVC • PE-HD • PP • Geberit Silent-PP • POLOPLAST POLO-KAL NG • Valsir Triplus	≤ 160
	• COES BluePower • Wavin SiTech+ • REHAU RAUPIANO PLUS	≤ 110
	Multilayer pipes	
	• Uponor Uni Pipe PLUS	≤ 110
	• alpex F50 PROFI, alpex L	≤ 75
	Non-combustible pipes with FEF insulation	≤ 108 (copper-, steel- and stainless steel pipes)

All specifications in mm

Products

	Endless Collar U/U pipe collar Set with 10 m fire protection strip, 3 m stainless steel strap and 18 fasteners – Art. no. 01145303 **Endless Collar U/C pipe collar** Set with 10 m fire protection strip, 3 m stainless steel strap und 18 fasteners – Art. no. 01145310
	BSS fire protection foam cartridge 180 g – Art. no. 32004 cartridge 480 g – Art. no. 32010 **mastic gun** manual gun – Art. no. 32100 battery operated gun – Art. no. 32101
	GFM fire protection mortar bag 25 kg – Art. no. 01167000

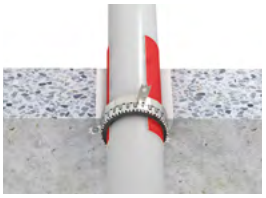
Material consumption

Design variant	External Ø [mm]	Layers [pcs.]	Length fire protection wrap		Length of metal strap				Lugs [pcs.]
			PE noise insulation (4 mm)		PE soundproofing tube (4 mm)				
			without	with	without		with		
			length [mm]	length [mm]	length [mm]	metal links [pcs.]	length [mm]	metal links [pcs.]	
Straight	32	2	250	320	192	12	224	14	2
	40		320	360	224	14	240	15	
	50		375	440	256	16	272	17	
	63	3	685	780	288	18	320	20	3
	75		800	895	336	21	368	23	
	90	4	1290	1400	400	25	432	27	
	110		1545	1660	464	29	496	31	
	125	5	2190	2425	512	32	544	34	4
	140	6	2860	3050	576	36	608	38	
	160		3365	3530	640	40	672	42	

Design variant	External Ø [mm]	Layers [pcs.]	Lugs [pcs.]
2 × 45° pipe bends	32	3	3
	50		
	63	4	4
	75		
	90	5	
	110		

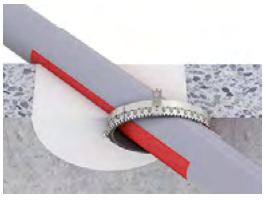
Design variant	External Ø [mm]	Layers [pcs.]	Lugs [pcs.]
Corner installation	32	3	2
	50		
	63	4	3
	75		
	90	5	
	110		

Design variants

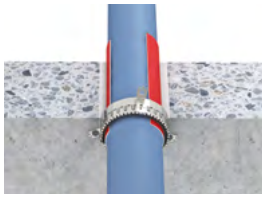


Straight pipe gland

Attachment to 2 × 45° bends (only with U/U version)



Inclined pipe gland



Attachment to sleeves

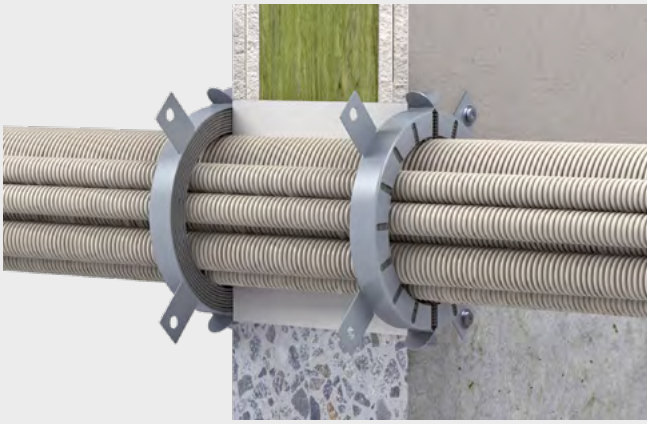
Multiple gland

Corner solution with 2/3 wrapping (only with U/U version)

System AWM II KS

Fire resistance class: max. EI 120

Fire protection collar for sealing single or bundled electrical installation conduits



Areas of application

- Plasterboard wall, solid wall, solid floor

Highlights

- ✓ Suitable for single and bundled electrical installation conduits

Features

- ✓ Resistant to humidity, freeze-thaw-cycles and UV radiation (usage category X)
- ✓ Flat collar construction

System data

Proof of usability		ETA-11/0372
Thickness of structural element	Plasterboard wall	≥ 100
	Solid wall	≥ 100
	Solid floor	≥ 150

All specifications in mm

Configuration

Services			**max. diameter**
	EIC	Single	≤ 63 / ≤ 63
	EIC	Bundle	≤ 75 / ≤ 125

All specifications in mm

Products

	GFM **fire protection mortar** bag 25 kg – Art. no. 01167000
	AWM II **fire protection collar** Art. no. 01142032 - 01142125
	Set of fasteners 2 AWM II Ø 32-50 mm Art. no. 01146050 **Set of fasteners 4 AWM II Ø 63-125 mm** Art. no. 01146125

Dimensions

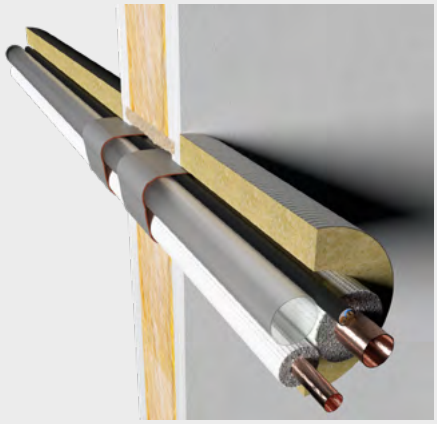
AWM II Dimensi-ons Ø	Internal Ø	External Ø	Installed height	Number of tabs [n]
32	36–40	50–54	26.0	2
40	44–48	58–62	26.0	2
50	54–57	68–71	26.0	2
63	67–70	94–97	26.0	4
75	79–83	106–110	26.0	4
90	94–100	132–138	26.6	4
110	114–120	155–161	26.6	4
125	129–135	172–178	40.0	4
140	144–152	200–206	40.0	6
160	164–169	220–225	40.0	6

All specifications in mm

System NBR-plus

Fire resistance class: max. EI 120

Penetration seal for non-combustible pipes with FEF and mineral wool insulation as well as HVAC split line combinations



Areas of application

- Plasterboard wall, solid wall, solid floor, timber construction (CLT walls and floors)

Highlights

- Intumescent fire protection wrap for sealing insulated non-combustible pipes with an outer diameter of up to 323.9 mm and HVAC split line combinations.
- Low material requirements in walls (wrap can be separated) and floors (application only on lower side)
- Sealing of annular gap with various materials (among them mortar and gypsum)
- All customary insulations with elastomeric foam (FEF) are covered

Features

- Resistant to humidity, freeze-thaw-cycles and UV radiation (usage category X)
- Flexible material for the easy handling and wrapping of pipes

System data

Proof of usability		ETA-21/0461
Thickness of structural element	Plasterboard wall	≥ 100
	Solid wall	≥ 100
	Solid floor	≥ 150
	Timber wall	≥ 100
	Timber floor	≥ 140

All specifications in mm

Configuration

Services		**max. diameter**
	Non-combustible pipes with FEF insulation	≤ 323.9 (steel) ≤ 88.9 (copper)
	Non-combustible pipes with mineral wool insulation	≤ 219.1 (steel) ≤ 88.9 (copper)
	Non-combustible pipes with PUR insulation	≤ 54
	HVAC split line combinations	✓

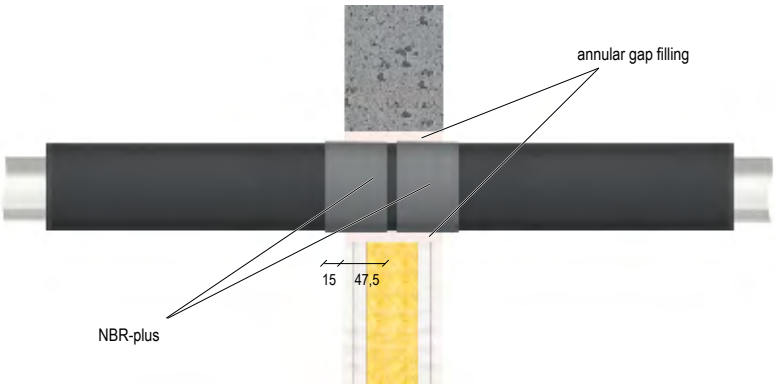
All specifications in mm

Products

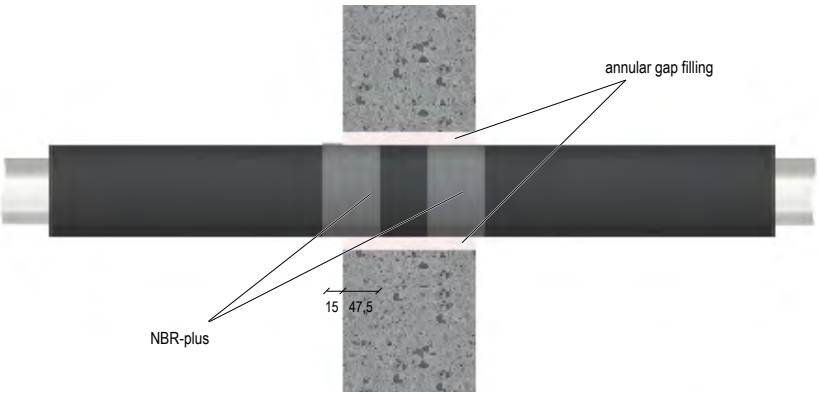
	NBR-plus **fire protection wrap** roll, 10 m × 125 mm (separable into 2 × 62.5 mm) – Art.-no. 01261941
	GFM **fire protection mortar** bag 25 kg – Art. no. 01167000
	FLAMMOTECT-A **fire protection coating** **filler** cartridge 310 ml – Art. no. 01155115
	Mineral wool bag 10 kg – Art. no. 01183000

Design variants

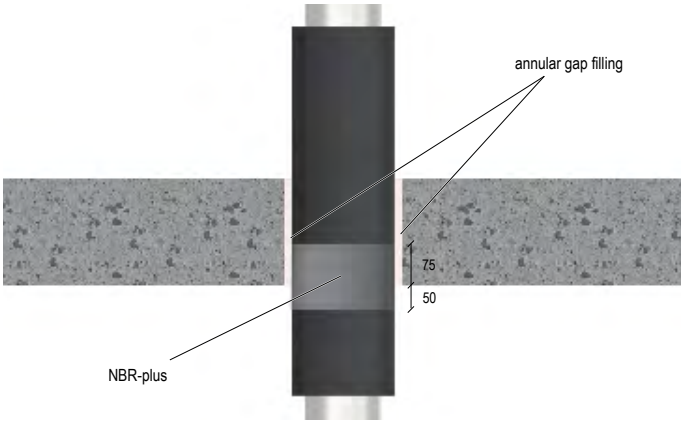
Design in plasterboard walls and solid walls ≥100 mm



Design in plasterboard walls and solid walls ≥150 mm



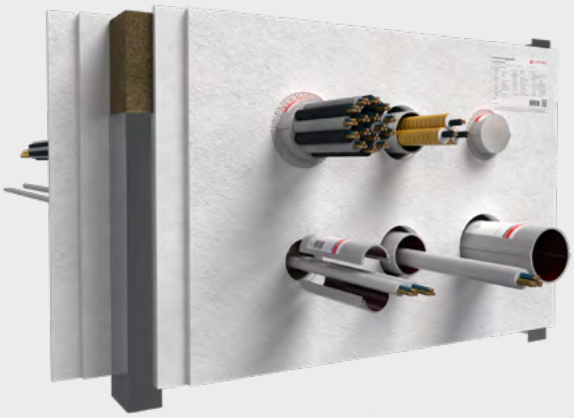
Design in solid floors ≥150 mm



System Cable Tube

Fire resistance class: max. EI 120

Particularly easy to install penetration seal consisting of two pipe half-shells with internal fire protection fabric



Areas of application

- Plasterboard wall, solid wall, solid floor, timber construction (CLT walls and floors)

Highlights

- The entire 100 % of the cable tube's cross section can be used
- Easy subsequent installation is possible
- Also suitable for cable sealing in timber construction

Features

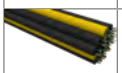
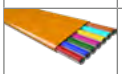
- Single or group arrangement for sealing installed services or as a reserve penetration seal for subsequent installations
- Various diameters and lengths available
- For example suitable for 68 mm socket or 100 mm core drillings
- Subsequent installations are possible without effort and special tools
- Plastic half shells are connected via click lock

System data

Proof of usability		ETA-22/0053
Thickness of structural element	Plasterboard wall	≥ 100
	Solid wall	≥ 100
	Solid floor	≥ 125
	Timber wall	≥ 100
	Timber floor	≥ 140
Maximum seal size	Plasterboard wall	1200 × 2000 or 2000 × 1200
	Solid wall	1200 × 2000 or 2000 × 1200
	Solid floor	640 × ∞

All specifications in mm

Configuration

Services			**max. diameter**
	Cable		≤ 80 (CT 300) ≤ 21 (CT 150 / CT 200)
	Cable bundles		≤ 100 / ≤ 21
	Wave guides/coaxial cables		≤ 28.5 mm
	EIC	Single	≤ 63 / ≤ 21
	EIC	Bundle	≤ 107 / ≤ 32 / ≤ 21
	speedpipes		24 × ≤ 7 7 × ≤ 10 5 × ≤ 12
	Combustible pipes		≤ 32
	HVAC split line combinations		✓

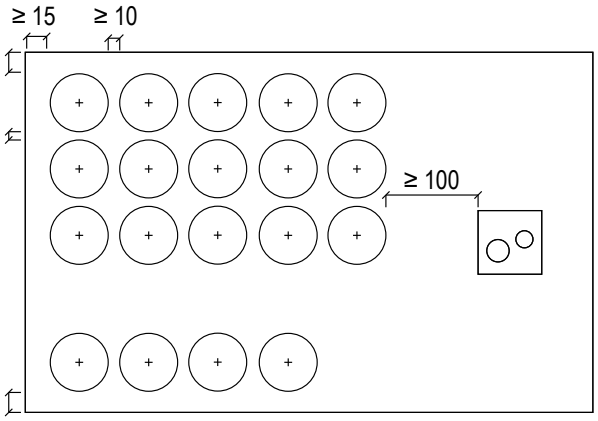
All specifications in mm

Products

	Cable Tube CT Ø 60 mm / length 150 mm – Art. no. 01276101 Ø 90 mm / length 150 mm – Art. no. 01279101 Ø 90 mm / length 200 mm – Art. no. 01279201 Ø 90 mm / length 300 mm – Art. no. 01279301 Ø 120 mm / length 150 mm – Art. no. 01271151 Ø 120 mm / length 200 mm – Art. no. 01271201 Ø 120 mm / length 300 mm – Art. no. 01271301
	GFM **fire protection mortar** bag 25 kg – Art. no. 01167000
	NOVASIT BM **fire protection compound** bag 20 kg – Art. no. 01161000 pail 10 kg – Art. no. 01161010
	FLAMMOTECT-A **fire protection coating** **filler** cartridge 310 ml – Art. no. 01155115
	NBR-plus **fire protection wrap** roll, 10 m × 125 mm (separable into 2 × 62.5 mm) – Art.-no. 01261941
	Mineral wool bag 10 kg – Art. no. 01183000

Application

Grouped array of several cable tubes



All specifications in mm

System Cable Tube ML

Fire resistance class: max. EI 120

Penetration seal for electrical installations for electrical installation, designed for use in raised floors

Areas of application

- Plasterboard wall, solid wall

Highlights

- Designed for installation in raised floors
- The cable tube is installed directly on the bare floor
- 100 % of the cable box can be used for services
- Zero distance to each other and to the side edge of the aperture

Features

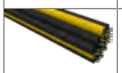
- Easy assembly and subsequent installation
- Half shell for one-sided installation
- Can also be assembled around already installed services

System data

Proof of usability		ETA-22/0053
Thickness of structural element	Plasterboard wall	≥ 100
	Solid wall	≥ 100
Maximum seal size	Plasterboard wall	2000 × 150
	Solid wall	2000 × 150

All specifications in mm

Configuration

Services			**max. diameter**
	Cable		≤ 50
	Cable bundles		100 % / ≤ 21
	EIC	Single	≤ 32 / ≤ 21
	EIC	Bundle	100 % / ≤ 32 / ≤ 21

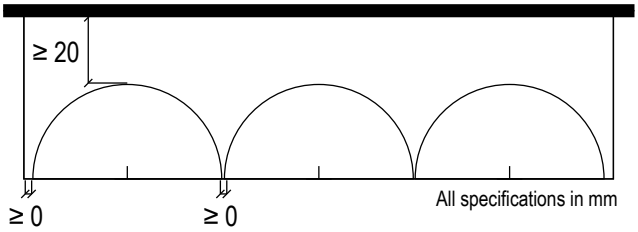
All specifications in mm

Products

	Cable Tube ML length 200 mm – Art. no. 01272201
	GFM **fire protection mortar** bag 25 kg – Art. no. 01167000
	NOVASIT BM **fire protection compound** bag 20 kg – Art. no. 01161000 pail 10 kg – Art. no. 01161010
	FLAMMOTECT-A **fire protection coating** **filler** cartridge 310 ml – Art. no. 01155115
	Mineral wool bag 10 kg – Art. no. 01183000

Application

Grouped array of several cable tubes



System BK-N

Fire resistance class: EI 90 – EI 120 (max. EI 180)

Penetration seal made of fire protection pillows for temporary or permanent closure of cable penetrations

Areas of application

- Plasterboard wall, solid wall, solid floor

Highlights

- Suitable for the temporary and permanent sealing of cables
- Easy subsequent installation of services
- Penetrating services do not require additional coating
- Approved for a cable diameter of up to 80 mm
- The versatile fire protection pillows can be easily adapted to services

Features

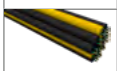
- Reusable pillows in three sizes
- Quick and dust-free installation without special tools

System data

Proof of usability		ETA-17/0904
Thickness of structural element	Plasterboard wall	≥ 100
	Solid wall	≥ 100
	Solid floor	≥ 150
Maximum seal size	Plasterboard wall	600 × 600
	Solid wall	600 × 600
	Solid floor	600 × 600

All specifications in mm

Configuration

Services		**max. diameter**
	Cable	≤ 80
	Cable bundles	≤ 100 / ≤ 21
	Cable trays	✓

All specifications in mm

Product

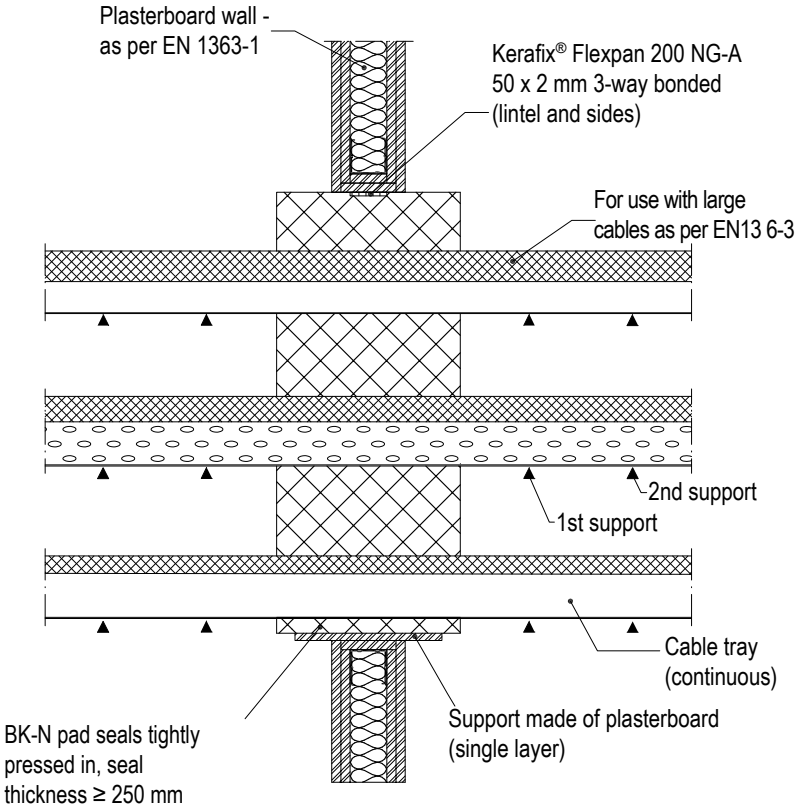
	BK-N **fire protection pillows** BK-N S 250 × 40 × 15 mm – Art. no. 12060 BK-N M 250 × 100 × 25 mm – Art. no. 12130 BK-N L 250 × 175 × 25 mm – Art. no. 12180

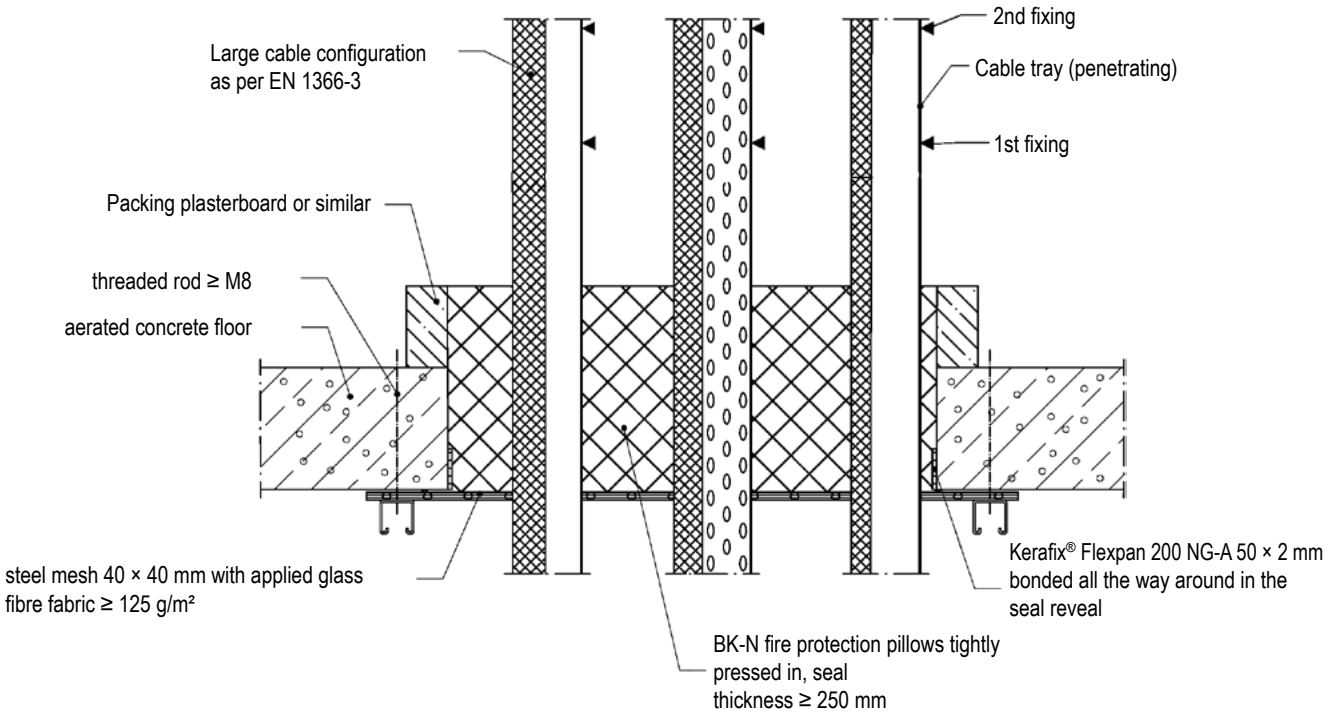
Material consumption

Material consumption BK-N				
Opening size [m²]	**Configuration**			
	0 %	10 %	30 %	60 %
	Size L + M + S			
0.01	0 + 1 + 3	0 + 1 + 2	0 + 1 + 1	0 + 1 + 0
0.02	2 + 2 + 0	2 + 0 + 3	2 + 0 + 1	0 + 2 + 0
0.04	5 + 1 + 3	5 + 1 + 1	4 + 0 + 2	2 + 1 + 1
0.05	7 + 0 + 2	5 + 0 + 3	4 + 1 + 3	3 + 1 + 2
0.10	14 + 2 + 2	12 + 2 + 2	9 + 1 + 3	6 + 0 + 2
0.20	28 + 4 + 4	23 + 4 + 4	17 + 2 + 6	12 + 1 + 4
0.30	42 + 5 + 6	35 + 6 + 6	25 + 3 + 8	16 + 1 + 4
0.36	50 + 4 + 4	42 + 6 + 6	30 + 6 + 6	19 + 2 + 4

Approx. values in units

Design variants

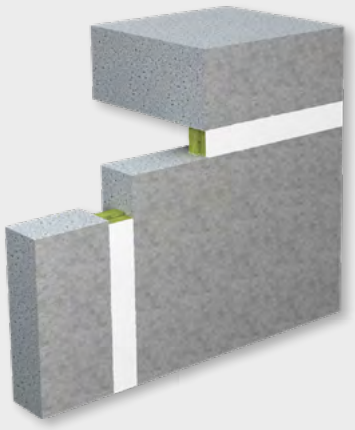




System Flammotect Joint Seal

Fire resistance class: EI 60 – EI 120

Versatile joint sealing system made of mineral fibre products and ablative fire protection coating



Areas of application

Joints between solid walls, between floors and between walls and floors

System data

Proof of usability		ETA-18/0237
Thickness of structural element	Solid wall	≥ 100
	Solid floor	≥ 150
Maximum seal size	Solid wall	Joint width ≤ 200
	Solid floor	Joint width ≤ 200

All specifications in mm

Products

	FLAMMOTECT-A fire protection coating **coating** pail 12.5 kg – Art. no. 01155131 pail 5 kg – Art. no. 01155132 **solid emulsion** pail 12.5 kg – Art. no. 01155136 pail 5 kg – Art. no. 01155121 **filler** pail 12.5 kg – Art. no. 01155134 pail 5 kg – Art. no. 01155135 cartridge 310 ml – Art. no. 01155115
	Mineral wool bag 10 kg – Art. no. 01183000
	Lamella mat Klimarock 6100 × 500 × 30 mm – Art. no. 01187100

Highlights

- For the easy and quick sealing of joints
- Effortless installation due to various design variants
- One-sided installation
- Joint widths up to 200 mm are possible

Features

- The coating is resistant to humidity, freeze-thaw-cycles, UV radiation as well as various oils and chemicals
- Also in walls fire protection coating only needs to be applied on one side (for instance when using a lamella mat)
- The coating remains flexible after drying and can be coated over with other materials

Design variants

		Lamella mat	Loose mineral wool	Fire protection filler	Mineral fibre boards (two layers)	Mineral fibre boards (one layer)
Installation in		solid wall, solid floor	solid wall, solid floor	solid wall, solid floor	solid wall, solid floor	solid floor
Thick-ness of building element [mm]	Wall	≥ 100	≥ 100	≥ 100	≥ 150	-
	Floor	≥ 150	≥ 150	≥ 150	≥ 150	≥ 150
Minimal joint depth [mm]		≥ 90	≥ 75	≥ 8	≥ 100	≥ 50
Maximum joint width [mm]		≤ 100	Wall: 30 mm Floor: 20 mm	≤ 13	≤ 200	≤ 200
Fire resistance class		EI 120	EI 120	EI 120	EI 120	EI 60
		H-X-B-W 00-W 100 T-X-B-W 00-W 100	H-X-B-W 00-W 20	H-X-B-W 00-W 04 V-X-B-W 00-W 04 T-X-B-W 00-W 04	H-X-B-W 00-W 200 V-X-B-W 00-W 200 T-X-B-W 00-W 200	H-X-B-W 00-W 200

System AC Putty

Fire resistance class:
EI 240 - T - X - F - W 00-30
EI 240 - V - X - F - W 00-30
EI 180 - H - X - F - W 00-100

The system can be used to seal linear joints or gaps

Areas of application

Joints between solid walls, between floors and between walls and floors

System data

Proof of usability		ETA-21/0108
Thickness of structural element	Solid wall	≥ 100
	Solid floor	≥ 150
Maximum seal size		Joint width ≤ 100 mm

All specifications in mm

Product

	AC Putty cartridge 310 ml – Art. no. 30005

Highlights

- Easy-to-install joint seal made of mineral wool and and fire protection acrylic
- One-sided installation possible
- Joint widths up to 100 mm

Features

- Easily inserted and evened
- Can be coated over
- Odourless, free of solvents and halogens

System DG-CR 0.7

Fire protection bandage for wrapping cable systems

Areas of application

For indoor and outdoor use

Highlights

- Cleaning the cable systems befo-re application is not necessary
- Easy subsequent installation without further application
- Measuring the film thickness is not required
- Can be used to wrap cables of photovoltaic systems for firewalls

Features

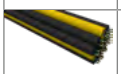
- Intumescent coating on the inside and resistant glass fabric on the outside
- Recoatable
- Weather-resistant –suitable for indoor and outdoor use
- Resistant to humidity, freeze-thaw-cycles, UV radiation and various oils and chemicals

System data

Certificate of usability	ETA-16/0268 IEC 60332-3-22 DIN EN 60332-3-22 / VDE 0482-332-3-22 Test of flame spread: Cat. A: 2018 for 120 min DNV GL Certificate No.: TAE00003BR IEC 60331-21 DIN IEC 60331-21 / VDE 0482-331-21:2017-06 Test of circuit integrity maintenance: Various tests up to 60 min for different types of cables and voltage areas passed successfully. More information on request.
Application of metal strap	spacing ≤ 500 mm
Longitudinal overlap of bandage	≥ 50
Application temperature	≥ +5 °C
Properties	Resistant to moisture, weather and UV radiation; tear-resistant

All specifications in mm

Configuration

Services		**max. diameter**
	Cable	✓
	Cable bundles	✓
	Cable trays	✓

Product

	DG-CR 0.7 **fire protection fabric** roll 20 m × 1100 mm – Art. no. 01260201 **metal strap** 100 m × 15 mm – Art. no. 01234000 **sealing clips** 1000 pcs. – Art. no. 01234100

Design variants

Wrapping for entire cable support structures

Wrapping for cable systems fastened with clamps or on brackets

Wrapping for freely suspended cable systems.

Wrapping for cables in trays

Wrapping for cable systems fastened with clamps or on brackets

System FLAMMOTECT-A

Ablative coating system for protecting cable installations from fire and other external factors

Areas of application

For indoor and outdoor use

Highlights

- High film thicknesses can be applied in one go
- Highly suitable for airless spray guns
- No electrical derating necessary
- Various certificates for use in nuclear facilities

Features

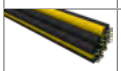
- Resistant to moisture, freeze-thaw cycling, UV radiation as well as various oils and chemicals
- No spalling of material because of mechanical stress, high coating flexibility
- Solvent and halogen free
- Free of asbestos, lead, mercury, hexavalent chromium and polybrominated biphenyl ethers

System data

Certificate of usability	ETA-14/0418 IEC 60332-3-22 DIN EN 60332-3-22 / VDE 0482-332-3-22 Test of flame spread: Cat. A: 2018 for 60 min. Dry film thickness ≥ 0,5 mm IEC 60331-21 DIN IEC 60331-21 / VDE 0482-331-21:2017-06 Test of circuit integrity maintenance: Various tests up to 90 min for different types of cables and voltage areas passed successfully. More information on request. FM Approval Class 3971 Certified dry film thickness of 1,6 mm

All specifications in mm

Configuration

Services		max. diameter
	Cable	✓
	Cable bundles	✓
	Cable trays	✓

Product

FLAMMOTECT-A
fire protection coating

coating
pail 12.5 kg – Art. no. 01155131
pail 5 kg – Art. no. 01155132

solid emulsion
pail 12.5 kg – Art. no. 01155136
pail 5 kg – Art. no. 01155121

filler
pail 12.5 kg – Art. no. 01155134
pail 5 kg – Art. no. 01155135
cartridge 310 ml – Art. no. 01155115

Resistances

Ageing resistance	Aging does not have an effect to the general properties of FLAMMOTECT-A
	Artificial ageing without impairment **Indoor / outdoor areas:** Extreme temperature changing from +71 °C to -40 °C, UV radiation and humidity
	Long-term ageing without impairment **Outdoor areas:** Material was exposed for five years to outdoor weathering without any changes in its reaction to fire (MPA Nordrhein-Westfalen (notified body 0432), report no. 230006109-1) **Indoor areas:** Material was stored for 10 years in an indoor area without any changes in its reaction to fire (MPA Braunschweig (notified body 0761), report no. 3224/821/11)
Weather resistance	Use category X (product suitable for use in areas exposed to weathering)
Salt water resistance	Long-term exposure to salt water in acc. with FM3971, EOTA TR024, EN ISO 2812-1
Radiation resistance	Certified as radiation resistant at a radiation dosage of 1.0×10^6 Gy (108 rad)
Resistance against aggressive deactivation media	Approved to withstand various types of deactivation media, e. g. nitric acid, sodium hydroxide, boric acid
Chemical resistance	The chemical resistance was assessed in accordance with DIN EN ISO 2812-1 (Paints and varnishes – Determination of resistance to liquids – Part 1: Immersion in liquids other than water).

Product overview

	NOVASIT BM **fire protection compound**	bag 20 kg pail 10 kg	Art. no. 01161000 Art. no. 01161010
	GFM **fire protection mortar**	bag 25 kg	Art. no. 01167000
	FLAMMOTECT-A **fire protection coating**	**coating** pail 12,5 kg pail 5 kg **solid emulsion** pail 12,5 kg pail 5 kg **filler** pail 12,5 kg pail 5 kg cartridge 310 ml	 Art. no. 01155131 Art. no. 01155132 Art. no. 01155136 Art. no. 01155121 Art. no. 01155134 Art. no. 01155135 Art. no. 01155115
	Mineral fibre board 50 mm **pre-coated on one side with** **FLAMMOTECT-A**	1000 × 600 × 50 mm	Art. no. 01181155
	Mineral fibre board 60 mm **pre-coated on one side with** **FLAMMOTECT-A**	1000 × 600 × 60 mm	Art. no. 01181165
	Mineral fibre board 60 mm **pre-coated on both sides with** **FLAMMOTECT-A**	1000 × 600 × 60 mm	Art. no. 01182165
	Mineral fibre board 80 mm **pre-coated on both sides with** **FLAMMOTECT-A**	1000 × 600 × 80 mm	Art. no. 01182185
	DG-SC	cartridge 310 ml	Art. no. 01157000

	AWM II **fire protection collar**	Ø 32 mm Ø 40 mm Ø 50 mm Ø 63 mm Ø 75 mm Ø 90 mm Ø 110 mm Ø 125 mm Ø 140 mm Ø 160 mm Ø 180 mm Ø 200 mm Ø 225 mm Ø 250 mm Ø 280 mm Ø 315 mm Ø 355 mm Ø 400 mm Ø 450 mm Ø 500 mm	Art. no. 01142032 Art. no. 01142040 Art. no. 01142050 Art. no. 01142063 Art. no. 01142075 Art. no. 01142090 Art. no. 01142110 Art. no. 01142125 Art. no. 01142140 Art. no. 01142160 Art. no. 01142180 Art. no. 01142200 Art. no. 01142225 Art. no. 01142250 Art. no. 01142280 Art. no. 01142315 Art. no. 01142355 Art. no. 01142400 Art. no. 01142450 Art. no. 01142500
	Set of fasteners 2 AWM II **Set of fasteners 4 AWM II** **Set of fasteners 6 AWM II** **Set of fasteners 8 AWM II** **Set of fasteners 10 AWM II** **Set of fasteners 12 AWM II** **Set of fasteners 14 AWM II**	Ø 32-50 mm Ø 63-125 mm Ø 140-160 mm Ø 180-200 mm Ø 225-250 mm Ø 280-400 mm Ø 450-500 mm	Art. no. 01146050 Art. no. 01146125 Art. no. 01146160 Art. no. 01146200 Art. no. 01146250 Art. no. 01146400 Art. no. 0707002070
	FSC 4 **fire protection collar**	Ø 50 mm Ø 63 mm Ø 75 mm Ø 90 mm Ø 110 mm Ø 125 mm Ø 140 mm Ø 160 mm	Art. no. 01148050 Art. no. 01148063 Art. no. 01148075 Art. no. 01148090 Art. no. 01148110 Art. no. 01148125 Art. no. 01148140 Art. no. 01148140
	EC Endless Collar Set with 10 m fire protection strip, 3 m stainless steel strap and 18 fasteners **Stainless steel strap for EC collar** **Fasteners for EC collar**	U/U U/C length 3 m 18 pcs.	Art. no. 01145303 Art. no. 01145310 Art. no. 01145304 Art. no. 01145305
	Cable Tube CT	Ø 60 mm / length 150 mm Ø 90 mm / length 150 mm Ø 90 mm / length 200 mm Ø 90 mm / length 300 mm Ø 120 mm / length 150 mm Ø 120 mm / length 200 mm Ø 120 mm / length 300 mm	Art. no. 01276101 Art. no. 01279101 Art. no. 01279201 Art. no. 01279301 Art. no. 01271151 Art. no. 01271201 Art. no. 01271301
	Cable Tube ML	length 200 mm	Art. no. 01272201

Product overview

	NBR-plus **fire protection wrap**	roll 10 m × 125 mm (separable into 2 × 62.5 mm)	Art. no. 01261941
	KSL-W **fire protection fabric**	roll 20 m × 50 mm roll 10 m × 50 mm	Art. no. 15520 Art. no. 15510
	DG-CR 0.7	**fire protection fabric** roll 20 m × 1100 mm **metal strap** 100 m × 15 mm **sealing clips** 1000 pcs.	 Art. no. 01260201 Art. no. 01234000 Art. no. 01234100
	BK-N **fire protection pillows**	BK-N S 250 × 40 × 15 mm BK-N M 250 × 100 × 25 mm BK-N L 250 × 175 × 25 mm	Art. no. 12060 Art. no. 12130 Art. no. 12180
	Lamella mat Klimarock	6100 × 500 × 30 mm	Art. no. 01187100
	Mineral wool	bag 10 kg	Art. no. 01183000

Space for your notes

We welcome your inquiries!

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