Protect your values.

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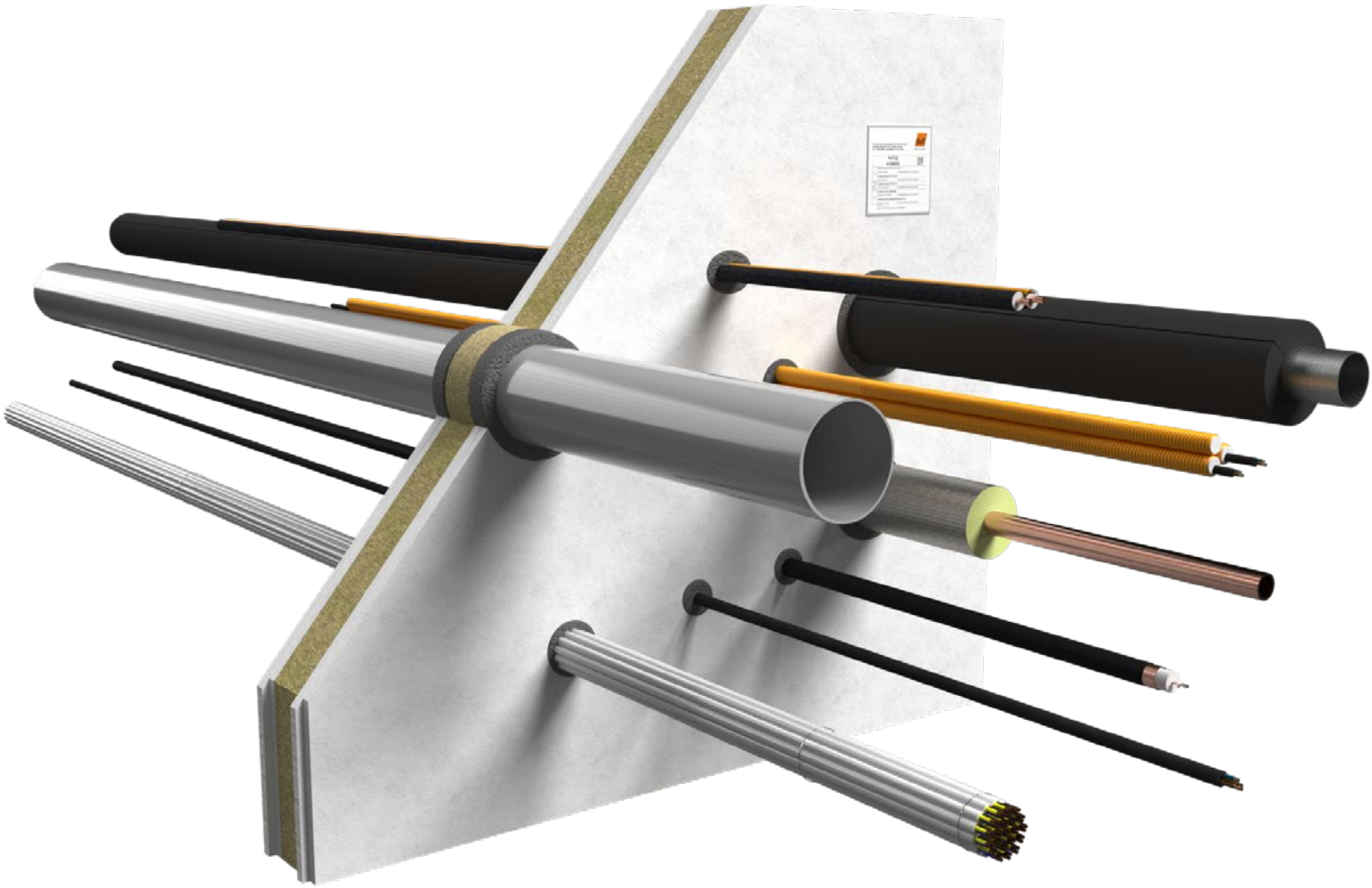
Intumescent mineral fibre board seal

Sealing system made of intumescent filler for electrical cables of any type and for combustible and non-combustible pipes.
Maximum fire resistance class EI 120 according to EN 13501-2 as per ETA-19/0704



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1. Preliminary remarks / Overview

1.1 Target group

The installation instructions are intended solely for personnel trained in fire protection.

1.2 Use of the instructions

Before starting work, read through these installation instructions completely once. Pay particular attention to the following safety instructions.

The authorisation holder assumes no liability for damage caused by failure to comply with these instructions.

Pictorial representations serve as examples only. Installation results may differ in appearance.

Unless stated otherwise, all lengths are specified in mm.

All information in this document represents the state of the art at the time of writing or the current version of the standard.
Upon request, svt will be pleased to provide the relevant legal and technical framework and manufacturer specifications for each individual case.

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1.3 Safety instructions

The safety data sheets must be consulted when processing the penetration seal components.

Personal protective equipment:

	Wear protective clothing and non-slip shoes.
	Use safety goggles, safety glasses.
	P2 particle filter in case of short-term or low level exposure. For intensive or prolonged exposure use a breathing apparatus with independent air supply. Use breathing protection in compliance with international/national standards.
	Use chemically resistant gloves. Recommended materials: Butyl rubber, nitrile rubber, fluorinated rubber, PVC.

Safety instructions for the installation of floor penetration seals

	The area below the floor penetration seal must be cordoned off against entry during penetration seal work (barrier tape and warning sign: warning of possible falling objects, do not enter the area, penetration seal work in floor component openings).
	The contractor for the production of floor penetration seals must inform the client in writing (for forwarding to the client or appointed representative) that after the production of the fire penetration seals in floors, these must be secured on site against loads, in particular against being stepped on, by suitable measures (e.g. by fencing or by covering with grating)

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1.4 Field of application

The PYRO-SAFE® DG-SC penetration seal has been assessed in accordance with EAD 350005-00-1104 and EAD 350454-00-1104 in terms of the „Reaction to fire“, „Resistance to fire“, „Release of dangerous substances“ and „Durability and serviceability“ product characteristics.

Reaction to fire

The intumescent filler PYRO-SAFE® DG-SC meets class E for reaction to fire in accordance with EN 13501-1; the mineral fibre wool meets class A1 for reaction to fire in accordance with EN 13501-1.

Resistance to fire

PYRO-SAFE® DG-SC meets the maximum requirements of class EI 120 (configuration for plastic pipes –U/C bzw. or for metal pipes –C/U) in accordance with EN 13501-2.

The fire resistance class for plastic pipes EI 120-U/C also covers the possible configurations -C/U and -C/C in accordance with EN 13501-2. The fire resistance class EI-120-C/U for metal pipes also covers all classes of the same fire resistance duration with the configuration –C/C.

When installed in walls or floors with a lower fire resistance duration, the fire resistance duration of the penetration seal is also reduced to that of the fire resistance class of the wall or floor.

Release of dangerous substances

The intumescent filler PYRO-SAFE® DG-SC does not contain any substances identified as dangerous in the list of the European Commission.

The mineral fibre wool does not contain any dangerous substances listed in Directive 67/548/EC or Regulation (EC) No. 1272/2008 or the Indicative List on Dangerous Substances.

Durability and serviceability

The intumescent filler PYRO-SAFE® DG-SC meets the requirements of type X in accordance with EOTA TR 024 / ETA-19/0704.

PYRO-SAFE® DG-SC can be subjected to the conditions of interior rooms with and without exposure to moisture or atmospheric conditions, without substantial changes to the fire protection characteristics to be expected.

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1.5 Components

Plasterboard walls with steel substructure

In stud design and double-sided cladding with at least 2 layers of 12.5 mm cement or gypsum-bound building boards with a reaction to fire of class A1 or A2 according to EN 13501-1.

The walls must be classified with the required fire resistance rating according to EN 13501-2.

Plasterboard walls with wood substructure

In stud design and double-sided cladding with at least 2 layers of 12.5 mm cement or gypsum-bound building boards with a reaction to fire of class A1 or A2 according to EN 13501-1.

The distance between the opening and the studs and transoms must be ≥ 100 mm and the hollow spaces between the cladding of the wall, studs and transoms and the opening reveal must be tightly sealed to a depth of ≥ 100 mm with mineral wool, reaction to fire class A1 or A2 according to EN 13501-1.

The walls must be classified for the required fire resistance rating according to EN 13501-2.

Solid walls

Made of concrete, reinforced concrete or aerated concrete with a density of ≥ 650 kg/m³.

The walls must be classified for the desired fire resistance time according to EN 13501-2.

Solid floors

Made of concrete or reinforced concrete with a density of ≥ 650 (± 200) kg/m³.

The floors must be classified for the required fire resistance rating according to EN 13501-2.

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2. Fire resistance classes

2.1 Walls

Service	Insulation	Fire resistance class	Source*
Cables, cable bundles			
Ø ≤ 21 mm	–	**EI 120**	**1**
Cable bundles Ø ≤ 100 mm, cables Ø 21 mm	–	**EI 120**	**2**
Cable bundles Ø ≤ 180 mm, cables Ø 21 mm, solid wall	–	**EI 120**	**1**
Cable bundles Ø ≤ 180 mm, cables Ø 21 mm, plasterboard wall	–	**EI 90, E 120**	**1**
Electrical installation conduits (EIC)			
EIC made of plastic up to Ø ≤ 32 mm single with/without cables (Ø ≤ 21 mm)	–	**EI 120-U/U**	**2**
EIC bundled Ø ≤ 100 mm (EIC Ø ≤ 32 mm, with/without cables Ø ≤ 21 mm)	–	**EI 60-U/U, E 120-U/U**	**2**

* 1 → ETA-19/0704, 2 → KB 320042705-A

Combustible pipes				
PVC-U according to EN 1329-1, EN 1453-1, EN 1542-1, EN 15493, DIN 8061/8062, EN 1566-1				
Pipe outer Ø [mm]	**Wall thickness [mm]**	**Insulation**	**Fire resistance class**	**Source***
≤ 50.0	≥ 1.8–3.7	–	**EI 120-U/C**	**1**
≤ 110.0	≥ 2.2–8.1	–	**EI 120-U/C**	**1**
PE 100 according to EN ISO 1555-2, EN 12201-2:+A1, DIN 8074 and DIN 8075				
≤ 50.0	≥ 1.8–4.6	–	**EI 120-U/C**	**1**
≤ 110.0	≥ 2.7–10.0	–	**EI 120-U/C**	**1**
PP-H according to EN ISO 15874:2013, DIN 8077:2007 and DIN 8078:2007				
≤ 50.0	≥ 1.8–4.0	–	**EI 120-U/C**	**1**
≤ 110.0	10.0	–	**EI 120-U/C**	**1**
FRIATEC Friaphon				
≤ 52.0	2.8	–	**EI 120-U/C**	**1**
≤ 110.0	5.3	–	**EI 120-U/C**	**1**
Pipelife MASTER 3				
≤ 50.0	1.8	–	**EI 120-U/C**	**1**
≤ 110.0	3.0	–	**EI 120-U/C**	**1**
POLOPLAST POLO-KAL 3S				
≤ 75.0	3.8	–	**EI 120-U/C**	**1**
≤ 110.0	4.8	–	**EI 120-U/C**	**1**
Geberit Silent-Pro				
≤ 50.0	3.0	–	**EI 120-U/C**	**1**
≤ 110.0	4.5	–	**EI 90-U/C, E 120-U/C**	**1**
Geberit Silent-PP				
≤ 50.0	2.0	–	**EI 120-U/C**	**1**
REHAU RAUPIANO PLUS				
≤ 50.0	1.8	–	**EI 120-U/C**	**1**

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Pipe outer Ø [mm]	Wall thickness [mm]	Insulation	Fire resistance class	Source*
Multilayer pipes				
Geberit Mepla				
16.0	2.25	5 mm PE soundproofing tube	**EI 120-U/C**	**2**
≤ 50.0	> 2.25 – ≤ 4.0		**EI 90-U/C, E 120-U/C**	**2**
≤ 75.0	> 2.25 – ≤ 4.7		**EI 30-U/C, E 120-U/C**	**2**
KE KELIT KELOX KM 110				
16.0	2.0	5 mm PE soundproofing tube	**EI 120-U/C**	**2**
≤ 75.0	2.0 – ≤ 7.5		**EI 90-U/C, E 120-U/C**	**2**
Uponor Uni Pipe Plus				
≤ 32.0	2.0 – ≤ 3.0	5 mm PE soundproofing tube	**EI 120-U/C**	**2**
REHAU RAUTITAN stabil				
≤ 40.0	2.6 – ≤ 6.0	5 mm PE soundproofing tube	**EI 120-U/C**	**2**
FRÄNKISCHE alpex F50				
≤ 32.0	2.0 – ≤ 3.0	5 mm PE soundproofing tube	**EI 120-U/C**	**2**
FRÄNKISCHE alpex L				
40.0	3.5	5 mm PE soundproofing tube	**EI 120-U/C**	**2**
≤ 75.0	3.5 – ≤ 5.0		**EI 30-U/C, E 120-U/C**	**2**

* 1 → ETA-19/0704, 2 → KB 320042705-A

Pipe outer Ø [mm]	Wall thickness [mm]	Insulation	Fire resistance class	Source*
Non-combustible pipes				
made of copper, steel, stainless steel or cast iron				
≤ 42.0	1.0 – ≤ 14.2	FEF ≥ 1200 mm x 19-38 mm	**EI 120-C/U**	**2**
≤ 54	> 1.0 – ≤ 14.2	FEF ≥ 1200 mm x 19-38 mm	**EI 60**	**2**
		lamella mat ≥ 1000 mm x ≥ 30 mm	**EI 120-C/U**	**2**
		FEF ≥ 1200 mm x 38 mm	**EI 120-C/U**	**2**
		≥ 20 mm pipe sleeve	**EI 120-C/U**	**2**
≤ 88.9	> 1.5 – ≤ 14.2	lamella mat ≥ 1500 mm x ≥ 30 mm	**EI 90-C/U, E 120-C/U**	**2**
	> 1.0 – ≤ 14.2	≥ 30 mm pipe sleeve	**EI 120-C/U**	**2**
made of steel, stainless steel or cast iron				
≤ 26.9	≥ 2.6	–	**EI 90-C/U, E 120-C/U**	**1**
≤ 54.0	1.0 – ≤ 14.2	lamella mat ≥ 1000 mm x ≥ 30 mm	**EI 120-C/U**	**2**
		≥ 20 mm pipe sleeve	**EI 120-C/U**	**2**
≤ 88.9		≥ 30 mm pipe sleeve	**EI 120-C/U**	**2**
≤ 114.0	1.5 – ≤ 14.2	lamella mat ≥ 1500 mm x ≥ 30 mm	**EI 120-C/U**	**2**
	1.0 – ≤ 14.2	≥ 40 mm pipe sleeve	**EI 120-C/U**	**2**

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Service	Insulation	Fire resistance class	Source*
HVAC split line combinations			
Double (22/22 mm) or single copper pipe (22 mm) 9 mm PE foam + 1 pipe PVC-U-/PVC-C (Ø ≤ 25 mm) + up 2 cables (Ø ≤ 14 mm)	–	**EI 90**	**2**
Double (18/18 mm) or single copper pipe (18 mm) 9 mm PE foam + 1 pipe PVC-U-/PVC-C (Ø ≤ 25 mm) + up to 2 cables (Ø ≤ 14 mm)	Lamella mat 250 mm x 30 mm	**EI 120**	**2**
Coaxial cables			
RFS CELLFLEX LCF, Ø ≤ 50.3 mm	–	**EI 120-U/C**	**2**
RFS RADIAFLEX RLK, Ø ≤ 48.2 mm	–	**EI 120-U/C**	**2**
CommScope HELIAX AVA, Ø ≤ 51.1 mm	–	**EI 120-U/C**	**2**
Solar pipes			
DuoSolar pipes, Ø ≤ 2 x 18 mm, pre-insulated, insulation thickness 14 mm	Lamella mat ≥ 250 mm on both sides x ≥ 30 mm	**EI 120-C/U**	**2**

* 1 → ETA-19/0704, 2 → KB 320042705-A

2.2 Floors

Service	Insulation	Fire resistance class	Source*
Cables, cable bundles			
Ø ≤ 21 mm	–	**EI 120**	**1**
Ø ≤ 50 mm	–	**EI 60, E 120**	**1**
Bundled Ø ≤ 150 mm, cables Ø 21 mm	–	**EI 120**	**1**
Electrical installation conduits (EIC)			
EIC bundled Ø ≤ 90 mm (EIC Ø ≤ 32 mm, with/without cables Ø ≤ 21 mm)	–	**EI 120**	**1**
Combustible pipes			
PVC-U according to EN 1329-1, EN 1453-1, EN 1542-1, EN 15493, DIN 8061/8062, EN 1566-1			
Pipe outer Ø ≤ 50.0 mm, wall thickness ≥ 1.8–3.7 mm	–	**EI 120-U/C**	**1**
Pipe outer Ø ≤ 110.0 mm, wall thickness ≥ 3.2 mm	–	**EI 120-U/C**	**1**
Pipe outer Ø ≤ 110.0 mm, wall thickness ≥ 8.1 mm	–	**EI 90-U/C, E 120 U/C**	**1**
PE 100 according to EN ISO 1555-2, EN 12201-2:+A1, DIN 8074 and DIN 8075			
Pipe outer Ø ≤ 50.0 mm, wall thickness ≥ 1.8–4.6 mm	–	**EI 120-U/C**	**1**
Pipe outer Ø ≤ 110.0 mm, wall thickness ≥ 2.7–10.0 mm	–	**EI 120-U/C**	**1**
PP-H according to EN ISO 15874:2013, DIN 8077:2007 and DIN 8078:2007			
Pipe outer Ø ≤ 50.0 mm, wall thickness ≥ 1.8–4.6 mm	–	**EI 120-U/C**	**1**
Pipe outer Ø ≤ 110.0 mm, wall thickness ≥ 2.7–10.0 mm	–	**EI 120-U/C**	**1**

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Pipe outer Ø [mm]	Wall thickness [mm]	Insulation	Fire resistance class	Source*
Combustible pipes				
FRIATEC Friaphon				
≤ 52.0	2.8	–	**EI 120-U/C**	**1**
Pipelife MASTER 3				
≤ 50.0	1.8	–	**EI 120-U/C**	**1**
≤ 110.0	3.0	–	**EI 120-U/C**	**1**
Valsir Triplus®				
≤ 50.0	1.8	–	**EI 120-U/C**	**1**
≤ 110.0	3.4	–	**EI 120-U/C**	**1**
Wavin SiTech+				
≤ 32.0	1.8	–	**EI 120-U/C**	**1**
≤ 110.0	3.4	–	**EI 120-U/C**	**1**
POLOPLAST POLO-KAL XS				
≤ 40.0	1.8	–	**EI 120-U/C**	**1**
≤ 110.0	3.4	–	**EI 120-U/C**	**1**
POLOPLAST POLO-KAL NG				
≤ 50.0	2.0	–	**EI 120-U/C**	**1**
≤ 110.0	3.4	–	**EI 120-U/C**	**1**
POLOPLAST POLO-KAL 3S				
≤ 75.0	3.8	–	**EI 120-U/C**	**1**
≤ 110.0	4.8	–	**EI 120-U/C**	**1**
Ostendorf Skolan dB				
≤ 58.0	4.0	–	**EI 120-U/C**	**1**
≤ 110.0	5.3	–	**EI 120-U/C**	**1**
Geberit Silent dB 20				
≤ 56.0	3.2	–	**EI 120-U/C**	**1**
≤ 110.0	6.0	–	**EI 90-U/C**	**1**
Geberit Silent-Pro				
≤ 50.0	3.0	–	**EI 120-U/C**	**1**
≤ 110.0	4.5	–	**EI 120-U/C**	**1**
Geberit Silent-PP				
≤ 50.0	2.0	–	**EI 120-U/C**	**1**
≤ 110.0	3.6	–	**EI 120-U/C**	**1**
REHAU RAUPIANO PLUS				
≤ 50.0	1.8	–	**EI 120-U/C**	**1**
≤ 110.0	2.7	–	**EI 120-U/C**	**1**

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Pipe outer Ø [mm]	Wall thickness [mm]	Insulation	Fire resistance class	Source*
Multilayer pipes				
Geberit Mepla				
≤ 75.0	2.25–4.7	5 mm PE soundproofing tube	**EI 120-U/C**	**2**
KE KELIT KELOX KM 110				
≤ 75.0	2.0–7.5	5 mm PE soundproofing tube	**EI 120-U/C**	**2**
Uponor Uni Pipe Plus				
≤ 32.0	2.0–3.0	5 mm PE soundproofing tube	**EI 120-U/C**	**2**
REHAU RAUTITAN stabil				
≤ 40.0	2.6–6.0	5 mm PE soundproofing tube	**EI 120-U/C**	**2**
FRÄNKISCHE alpex F50				
≤ 32.0	2.0–3.0	5 mm PE soundproofing tube	**EI 120-U/C**	**2**
FRÄNKISCHE alpex L				
≤ 75.0	3.5–5.0	5 mm PE soundproofing tube	**EI 120-U/C**	**2**
Non-combustible pipes				
made of copper, steel, stainless steel or cast iron				
15.0	1.0	–	**EI 120-C/U[1]**	**1**
18.0			**EI 90-C/U, E 120-C/U[1]**	**1**
22.0			**EI 60-C/U, E 120-C/U[1]**	**1**
≤ 54.0	1.0–14.2	lamella mat ≥ 1000 mm x ≥ 30 mm	**EI 120-C/U**	**2**
		FEF ≥ 1200 mm x 19–38 mm	**EI 120-C/U**	**2**
		≥ 20 mm pipe sleeve	**EI 120-C/U**	**2**
≤ 88.9	1.5–14.2	lamella mat ≥ 1500 mm x ≥ 30 mm	**EI 90-C/U, E 120-C/U**	**2**
	1.0–14.2	≥ 30 mm pipe sleeve	**EI 120-C/U**	**2**
made of steel, stainless steel or cast iron				
≤ 42.4	2.3	–	**EI 90-C/U, E 120-C/U**	**1**
≤ 48.3	2.1	–	**EI 120-C/U[1]**	**1**
		–	**EI 90-C/U, E 120-C/U[2]**	**1**
≤ 54.0	1.0–14.2	lamella mat ≥ 1000 mm x ≥ 30 mm	**EI 120-C/U**	**2**
≤ 114.0	1.5–14.2	lamella mat ≥ 1500 mm x ≥ 30 mm	**EI 120-C/U**	**2**
	1.0–14.2	≥ 40 mm pipe sleeve	**EI 120-C/U**	**2**

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[1] at a component thickness of ≥ 200 mm

[2] at a component thickness of ≥ 150 mm (zero distance)

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Service	Insulation	Fire resistance class	Source*
HVAC split line combinations			
Double (22/22 mm) or single copper pipe (22 mm) 9 mm PE foam + 1 pipe PVC-U-/PVC-C (Ø ≤ 25 mm) + up to 2 cables (Ø ≤ 14 mm)	–	**EI 120**	**2**
Coaxial cables			
RFS CELLFLEX LCF, Ø ≤ 50.3 mm	–	**EI 120-U/C**	**2**
RFS RADIAFLEX RLK, Ø ≤ 48.2 mm	–	**EI 120-U/C**	**2**
CommScope HELIAX AVA, Ø ≤ 51.1 mm	–	**EI 120-U/C**	**2**
Solar pipes			
DuoSolar pipes, Ø ≤ 2 x 22 mm, pre-insulated, insulation thickness 14 mm	–	**EI 120-C/U**	**2**

* 1 → ETA-19/0704, 2 → KB 320042705-A

3. Component and penetration seal thicknesses, penetration seal distances

Dimensions		
Name	**Wall [mm]**	**Floor [mm]**
Component thickness	≥ 100	≥ 150
Penetration seal thickness	≥ 100	≥ 150
Size of annular gap	≥ 15	≥ 15
Distance to other PYRO-SAFE® DG-SC seals	≥ 100 (solid wall) ≥ 200 (plasterboard wall)	≥ 100
Distance to other openings or installations	≥ 200	≥ 200

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4. Used products

PYRO-SAFE® DG-SC

in accordance with ETA-19/0704
310 ml cartridge – Art. no. 01157100

Mineral wool

Reaction to fire class according to
EN 13501-1: A1
Melting point ≥ 1000 °C
10 kg bag – Art. no. 01183000

Section insulation of mineral fibre mats

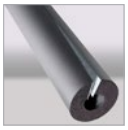
Reaction to fire class according to
EN 13501-1 at least class A2-s1 d0,
melting point ≥ 1000°C, density ≥ 40 kg/m³

Name	Density (kg/m³)	Declaration of performance no. / date
Rockwool lamella mat Klimarock Roll à 3.05 m² Art. no. 01187100	40–50	DE0628071802, 13.07.2018

Section insulation of mineral fibre sleeves

Reaction to fire class according to
EN 13501-1 at least class A2-s1 d0,
melting point ≥ 1000 °C, density ≥ 40 kg/m³

Name	Density (kg/m³)	Declaration of performance no. / date
U Tech Pipe Section / U Protect Section Alu2	80–90	DE0002-Pipe_Sections (de-en-fr) 002, 13.03.2015



Sectional and protective insulation

made of flexible elastomeric foam (FEF)
in accordance with DIN EN 14304

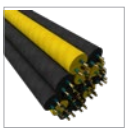
Manufacturer	Name	Declaration of performance no. / date
Armacell GmbH	AF/Armaflex	0543-CPR-2013-001, 26.02.2020
	SH/Armaflex	
Kaimann	Kaiflex HT Plus	

5. Allowed services

5.1 Cables / cable bundles / electrical installation conduits

Electrical cables and lines of all types (including fibre optic cables)

Ø ≤ 50 mm.



Cable bundles

Ø ≤ 180 mm with single cable Ø ≤ 21 mm.
No gusset filling necessary for tightly packed, tied cable bundles.

Electrical installation conduits (EIC)

made of plastic Ø ≤ 32 mm single or bundled Ø ≤ 100 mm, with/without cable (Ø ≤ 21 mm)

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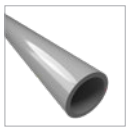
5.2 Combustible pipes



Type of pipe	Outer Ø [mm]	Wall thickness [mm]
PVC-U in accordance with EN 1329-1, EN 1453-1, EN 1542-1, EN 15493, DIN 8061/8062, EN 1566-1	≤ 50	1.8–3.7
	≤ 110	2.2–8.1
PP-H in accordance with EN ISO 15874:2013,DIN 8077:2007, DIN 8078/2007	≤ 50	1.8–4.6
	≤ 110	2.7–10.0
PE 100 in accordance with EN 1555-2, EN 12201-2+A1, DIN 8074/8075	≤ 50	1.8–4.6
	≤ 110	2.7–10.0
FRIATEC Friaphon	≤ 52	2.8
	≤ 110	5.3
Pipelife MASTER 3	≤ 50	1.8
	≤ 110	3.0
POLOPLAST POLO-KAL 3S	≤ 75	3.8
	≤ 110	4.8
POLOPLAST POLO-KAL XS	≤ 40	1.8
	≤ 110	3.4
POLOPLAST POLO-KAL NG	≤ 50	2.0
	≤ 110	3.4
Valsir Triplus	≤ 50	1.8
	≤ 110	3.4
Wavin SiTech+	≤ 32	1.8
	≤ 110	3.4
Ostendorf Skolan dB	≤ 58	4.0
	≤ 110	5.3
Geberit Silent dB20	≤ 56	3.2
	≤ 110	6.0
Geberit Silent-Pro	≤ 50	3.0
	≤ 110	4.5
Geberit Silent-PP	≤ 50	2.0
	≤ 110	3.6
REHAU RAUPIANO PLUS	≤ 50	1.8
	≤ 110	2.7

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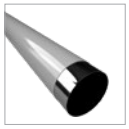
5.3 Multilayer pipes

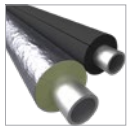


Design with 5 mm PE soundproofing tube.

Plastic pipes with a 150 µm aluminium layer, which is applied to a PP pipe and protected with a thin PP layer.

Type of pipe	Outer Ø [mm]	Wall thickness [mm]
Geberit Mepla	≤ 75	2.25–4.7
KE KELIT KELOX KM 110	≤ 75	2.0–7.5
Uponor Uni Pipe Plus	≤ 32	2.0–3.0
REHAU RAUTITAN stabil	≤ 40	2.6–6.0
FRÄNKISCHE alpex F50	≤ 32	2.0–3.0
FRÄNKISCHE alpex L	≤ 75	3.5–5.0

5.4 Non-combustible pipes



additional designs with section insulation made of mineral fibre mats or sleeves or of FEF

Pipe material / insulation	Outer Ø [mm]	Wall thickness [mm]
Copper, steel, stainless steel, cast iron (without insulation)	≤ 22.0	≥ 1.0 – ≤ 14.2
Copper, steel, stainless steel, cast iron with section insulation made of mineral fibre mats or sleeves	≤ 88.9	≥ 1.0 – ≤ 14.2
Copper, steel, stainless steel, cast iron with section insulation made of FEF	≤ 54.0	≥ 1.0 – ≤ 14.2
Steel, stainless steel, cast iron (without insulation)	≤ 48.3	2.1–2.6
Steel, stainless steel, cast iron with section insulation made of mineral fibre mats or sleeves	≤ 114.0	≥ 1.0 – ≤ 14.2
Steel, stainless steel, cast iron with section insulation made of FEF	≤ 114.0	≥ 1.0 – ≤ 14.2

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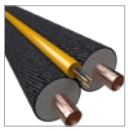

HVAC split line combinations

Double (18/18 or 22/22 mm) or single (18 or 22 mm) copper pipe and pipe insulation of 9 mm thickness made of PE foam in accordance with EN 14313 with optional accompanying lines (one plastic pipe (U/U) made of PVC-U or PVC-C, outer Ø 25 mm and pipe wall thickness 1.5 mm, in accordance with EN 1453-1 or EN 1452-1 and DIN 8061/ DIN 8062 and up to 2 cables, Ø ≤ 14 mm

Coaxial cables

RFS CELLFLEX LCF, Ø ≤ 50.3 mm
RFS RADIAFLEX RLK, Ø ≤ 48.2 mm
CommScope HELIAX AVA, Ø ≤ 51.1 mm

Solar pipes

DuoSolar pipes, Ø ≤ 2 x 18 mm, pre-insulated,
insulation thickness 14 mm

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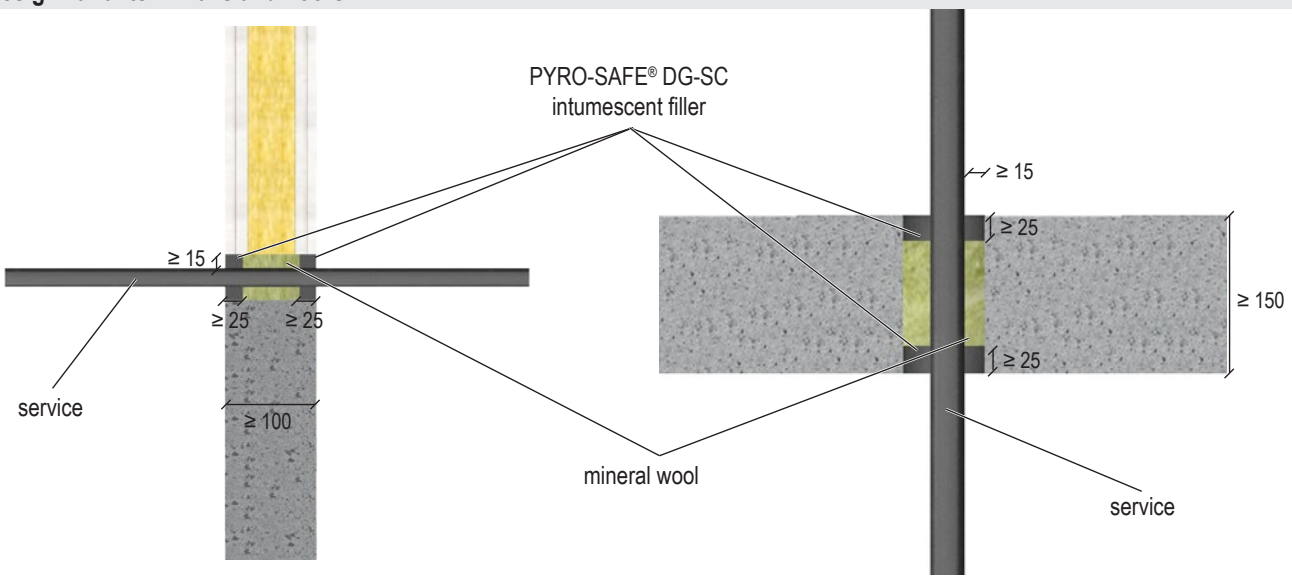
6. Design variants

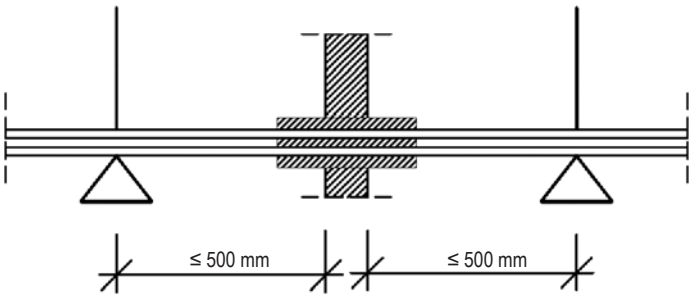
Design variants in walls and floors



Dimensions in mm

7. Initial brackets (supports)

Essential parts of the brackets/supports for the installations in front of the wall penetration sealing system must be non-combustible and must be configured with a spacing as per the overview on both sides.



Initial bracket (support) of the installations in front of the wall penetration sealing system made of steel or equivalent.

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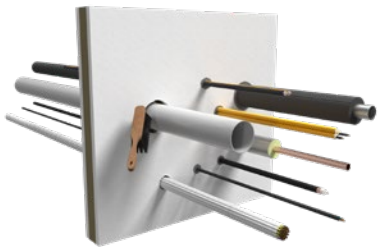
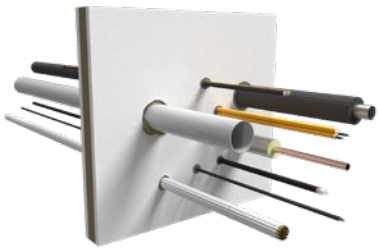
8. Installation steps

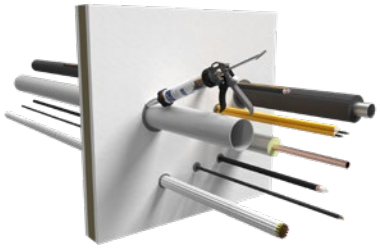
1. Clean reveal.



2. Close openings with mineral wool



3. Seal with PYRO-SAFE® DG-SC at a depth of 25 mm on both sides.



4. Label the penetration seal. Fill out the label neatly and attach it firmly next to/above (not on!) the penetration seal.

Declaration of Performance

Protect your values.

No. 01157100-PYRO-SAFE® DG-SC

Date: 2021-09-16
Rev.: 02

1. Unique identification code of the product type	PYRO-SAFE® DG-SC
2. Intended use	Product for cable penetration seal
3. Manufacturer	svt Brandschutz Vertriebsgesellschaft mbH International, Gluesinger Strasse 86, D - 21217 Seevetal
4. System for assessing and verifying constancy of performance	System 1
5. European Assessment Document	EAD 350454-00-1104
6. European Technical Assessment	ETA-19/0704: 16.12.2019
7. Technical Assessment Body	ETA-Danmark A/S, Nordhavn
8. The notified body	0761

9. Declared performance

Essential characteristics	Performance	Harmonised technical specifications
Safety in case of fire (BWR 2)		
Reaction to fire	Class E: EN 13501-1	EAD 350454-00-1104
Resistance to fire	Maximum EI 120: EN 13501-2	
Hygiene, health and environment (BWR 3)		
Air permeability	NPD	
Water permeability	NPD	
Content, emission and/or release of dangerous substances	NPD	
Safety and accessibility (BWR 4)		
Mechanical resistance and stability	NPD	
Resistance to impact / movement	NPD	
Adhesion	NPD	
Durability and serviceability	Use category type X	
Protection against noise (BWR 5)		
Airborne sound insulation	NPD	
Energy economy and heat retention (BWR 6)		
Thermal properties	NPD	
Coefficient of water vapor permeability μ	NPD	

The performance of the product identified above is in conformity with the set of declared performances.
This declaration of performance is issued, in accordance with Regulation (EU) No. 305/2011, under the sole responsibility of the manufacturer identified above. DoP online available at www.svt.de
Signed for and on behalf of the manufacturer by:

i.V.	Christian Meyer-Korte	i.A.	Daniel Bernhardi
Product Management Construction		Technical Documentation Construction	

The manufacturer‘s specifications regarding use and installation must be strictly observed.