

# Installation instruction

## Air Fire Tech System RORCOL

according to the European  
technical approval ETA-13/0758

### Rorcol V30

Ei120

Ei90



for plastic sewage pipes

### Rorcol V60

Ei120

Ei90



for plastic sewage pipes,  
extended and special  
applications

### Rorcol AV60

Ei90



for multi-layer  
composite pipes,  
cables and metal pipes

### Mounting aid

MH



used as an extension

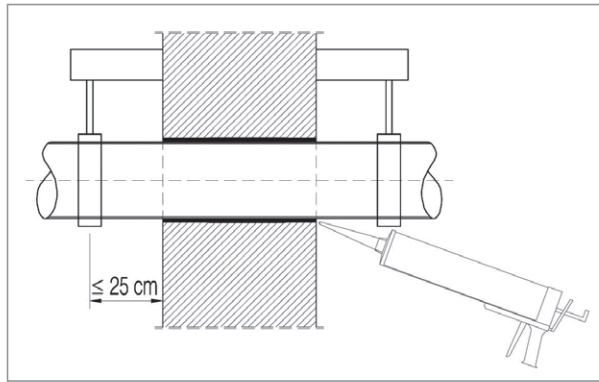
### Fire protective gap filler

BFM



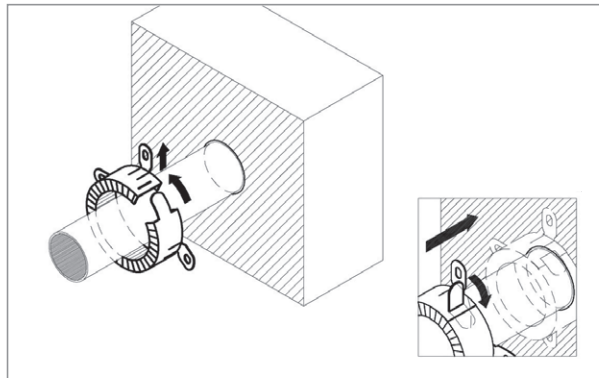
used to close the gap  
between separating and penetrating element

## Installation steps



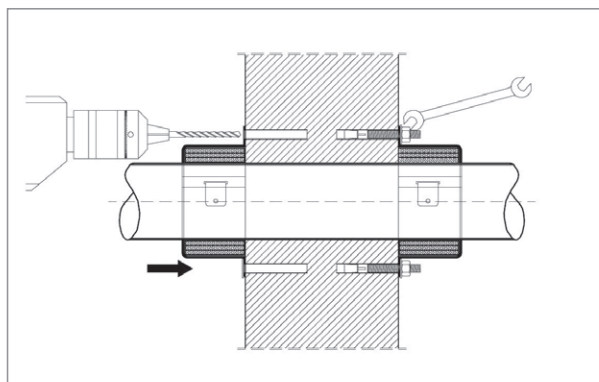
1

Fill gap acc. to installation details. First support (Non-combustible service support construction) in a distance of max. 25 cm on both sides of the wall or on the top side of the floor.



2

Put the fire stop collar on the pipe or if the pipe is insulated, on the insulation and close the closure flaps.

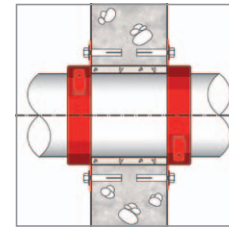


3

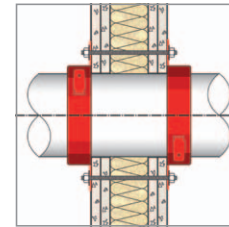
Mount the fire stop collar acc. to the installation details.

## Separating elements

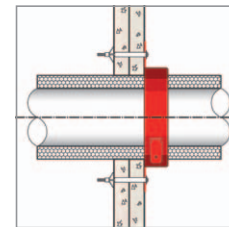
with fire classification  
acc. to EN 13501-2



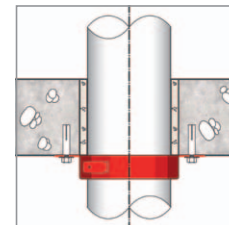
Rigid wall,  
Thickness  $\geq 100$  mm  
Density  $\geq 500$  kg/m<sup>3</sup>



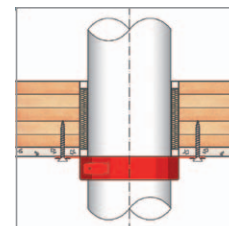
Flexible wall  $\geq$  EI90,  
Thickness  $\geq 100$  mm  
studs lined on both faces with minimum 2 layers  
of boards (minimum thickness 12,5 mm), distance  
between studs 62,5 cm, gypsum plasterboards  
type DF or DFR acc. to EN 520, GM-FH2 acc. to  
EN 15283-1 or boards with an ETA



Shaft wall  $\geq$  EI90,  
Steel studs lined on one face with 2x20, 3x15 or 2x25 mm  
gypsum plasterboards DF or DFR acc. to EN 520 or GM-FH2  
acc. to EN 15283-1  
Minimum nominal width of profiles 50 mm (e.g. CW50),  
with or without mineral wool



Rigid floor,  
Thickness  $\geq 150$  mm  
Density  $\geq 500$  kg/m<sup>3</sup>



Cross laminated timber floor  $\geq$  EI90,  
140 mm timber + 12,5 mm gypsum plasterboard

Fire stop collar	Penetrating element	Material or pipe name	Standard or manufacturer	Pipe end configuration
<b>RORCOL V30 and RORCOL V60</b>	Combustible pipes	PE-HD	EN 1519-1	U/U
	Combustible pipes	PE-HD	EN 12201-2	U/U
	Combustible pipes	"RAUTITAN flex"	REHAU Gesellschaft m.b.H.	U/U
	Combustible pipes	PP	EN 1451-1	U/U
	Combustible pipes	PP	EN ISO 15494-3	U/U
	Combustible pipes	PP	EN ISO 15874-2	U/U
	Combustible pipes	"POLO-KAL NG"	POLOPLAST GMBH & CO KG	U/U
	Combustible pipes	"POLO-KAL 3S"	POLOPLAST GMBH & CO KG	U/U
	Combustible pipes	"Raupiano Plus"	REHAU Gesellschaft m.b.H.	U/U
	Combustible pipes	"WC Anschlussstutzen"	Viega GmbH	U/U
<b>RORCOL V60</b>	Combustible pipes	"PP MASTER SN12"	Pipelife Austria GmbH & Co KG	U/U
	Combustible pipes	"Aquatherm firestop"	aquatherm GmbH Kunststoffextrusions- und Spritzgießtechnik	U/C
	Combustible pipes	PVC-U	EN 1401-1	U/U
	Conveying tubes	"Pelflex/AS"	HY-POWER Produktions und Handels GmbH	U/U
	Conveying tubes	"Pelflex PU/AS"	HY-POWER Produktions und Handels GmbH	U/U
<b>RORCOL AV60</b>	Combustible pipes	"Geberit Mepla-Rohr"	Geberit Vertriebs GmbH	U/C
	Combustible pipes	"FRIATHERM multi-press"	Friatec AG	U/C
	Combustible pipes	"HENCO Mehrschichtverbundrohr"	HENCO Industries NV	U/C
	Combustible pipes	"JRG Sanipex MT"	Georg Fischer JRG AG	U/C
	Combustible pipes	"RAUTITAN stabil"	REHAU Gesellschaft m.b.H.	U/C
	Combustible pipes	"TECEflex-Verbundrohr"	TECE GmbH	U/C
	Combustible pipes	"Uponor Verbundrohr"	Uponor Vertriebs GmbH	U/C
	Combustible pipes	"K06 KELIT ALU-Verbundrohr PN20"	KE KELIT Kunststoffwerk GesmbH	U/C
	Non-combustible pipes	Metal pipes	Reaction to fire class A1 acc. to EN 13501-1 with a melting or decomposition point greater than 1022°C and a thermal conductivity smaller or equal to copper	C/C
	Conduits	PVC conduits for cables	EN 61386-22	C/C
Cable	NYM-J	-	-	
<b>RORCOL AV60, Omega-application, ceiling</b>	Combustible pipes	"POLO-KAL NG"	POLOPLAST GMBH & CO KG	U/U
	Combustible pipes	"Geberit Mepla-Rohr"	Geberit Vertriebs GmbH	U/C
	Combustible pipes	"HENCO Mehrschichtverbundrohr"	HENCO Industries NV	U/C
	Combustible pipes	"TECEflex-Verbundrohr"	TECE GmbH	U/C
	Conduits	PVC conduits for cables	EN 61386-22	C/C
	Conduits	PVC conduits for cables	EN 61386-21	C/C

Detailed pipe thickness and diameter are included in the following installation details or will be given by the manufacturer on request.

Fire stop collar	Penetrating element	Material or pipe name	Standard or manufacturer	Pipe end configuration
<b>RORCOL AV60, Omega-application, wall</b>	Combustible pipes	PP	EN 1451-1	U/U
	Combustible pipes	“Geberit Mepla-Rohr”	Geberit Vertriebs GmbH	U/C
	Combustible pipes	“HENCO Mehrschichtverbundrohr”	HENCO Industries NV	U/C
	Combustible pipes	“TECEflex-Verbundrohr”	TECE GmbH	U/C
	Conduits	PVC conduits for cables	EN 61386-22	C/C
	Conduits	PVC conduits for cables	EN 61386-21	C/C
<b>RORCOL AV60, Omega-application, floor</b>	Combustible pipes	PP	EN 1451-1	U/U
	Combustible pipes	PP	EN ISO 15814-2	U/U
	Combustible pipes	“POLO-KAL NG”	POLOPLAST GMBH & CO KG	U/U
	Combustible pipes	“Raupiano Plus”	REHAU Gesellschaft m.b.H.	U/C
	Combustible pipes	“Geberit Mepla-Rohr”	Geberit Vertriebs GmbH	U/C
	Combustible pipes	“HENCO Mehrschichtverbundrohr”	HENCO Industries NV	U/C
	Combustible pipes	“TECEflex-Verbundrohr”	TECE GmbH	U/C
	Conduits	PVC conduits for cables	EN 61386-22	C/C
<b>RORCOL AV60, multiple penetration</b>	Conduits	PVC conduits for cables	EN 61386-21	C/C
	Combustible pipes	“Geberit Mepla-Rohr”	Geberit Vertriebs GmbH	U/C
	Combustible pipes	“TECEflex-Verbundrohr”	TECE GmbH	U/C
	Combustible pipes	“HENCO Mehrschichtverbundrohr”	HENCO Industries NV	U/C
	Combustible pipes	“JRG Sanipex MT”	Georg Fischer JRG AG	U/C
	Combustible pipes	“RAUTITAN stabil”	REHAU Gesellschaft m.b.H.	U/C
	Combustible pipes	“FRIATHERM multi-press”	Friatec AG	U/C
	Conduits	PVC conduits for cables	EN 61386-22	C/C
Non-combustible pipes	Metal pipes	Reaction to fire class A1 acc. to EN 13501-1 with a melting or decomposition point greater than 1022°C and a thermal conductivity smaller or equal to copper	C/C	

Detailed pipe thickness and diameter are included in the following installation details or will be given by the manufacturer on request.

# Installation notes

## Notes

The fire stop collars in vertical separating elements (walls) have to be installed on both sides of the wall. The fire stop collars in horizontal separating elements (ceilings) have to be installed at the bottom side of the floor. When applying and installing the product, make sure to meet the requirements of additional national laws and regulations that may exist. The manufacturers' product must not be modified or exposed to mechanical load. Additional information about penetration seals that is not included in this installation instruction will be given by the manufacturer on request. The applicability of the manufacturers' products for the given specific requirements has to be checked by the user.

## Insulations

Plastic pipes are tested with or without insulation. The insulation can be installed continued-sustained (CS) or local-sustained (LS) (Sound insulation). The length of local insulations has to be minimum 100 mm on both sides of the separating element (measured from the surface of the separating element).

Multi-layer composite pipes are tested without insulation up to pipe outside diameter Ø26 mm and with continued-sustained (CS) insulation up to pipe outside diameter Ø63 mm.

Metal pipes are always tested with continued-sustained (CS) insulation.

Detailed insulation type and thickness is included in the following installation details or will be given by the manufacturer on request.

## Pipe end configuration

Plastic Pipes are tested U/U (uncapped/uncapped) for the use in a drain-waste-vent system.

Multi-layer composite pipes are tested U/C (uncapped/capped) for the use in a self-contained pipe system (e.g. pressurized water system, heating pipes).

Conduits are tested C/C (capped/capped) and have to be closed with commercially available silicone sealant on both sides of the penetration seal.

Metal pipes are tested C/C (capped/capped).

Conveying tubes are tested U/U (uncapped/uncapped).

## Service support construction

All types of pipes have to be supported by a service support construction (e.g. pipe hangers) made of metal with a decomposition point greater than 1050°C. The support must tightly enclose the pipe and maintain a rigid suspension for the required period of fire resistance.

## Use category

The Pipe penetration seal "Air Fire Tech System RORCOL" is intended for use at temperatures below 0°C and with exposure to UV, but with no exposure to rain, and can therefore – according to ETAG 026-Part 2 clause 2.4.12.1.3.3 – be categorized as Type Y<sub>1</sub>. Since the requirements for Type Y<sub>1</sub> are met, also the requirement for Type Y<sub>2</sub>, Z<sub>1</sub> and Z<sub>2</sub> are fulfilled.

Although a penetration seal is intended for indoor applications only, the construction process may result in it being subjected to more exposed conditions for a period before the building envelope is closed. For this case provisions shall be made to protect temporarily exposed penetration seals according to the ETA-holder's installation instructions.

## It is assumed that

- damages to the penetration seal are repaired accordingly,
- the installation of the penetration seal does not effect the stability of the adjacent building element – even in case of fire,
- the lintel or floor above the penetration seal is designed structurally and in terms of fire protection such that no additional mechanical load (other than its own weight) is imposed on the penetration seal,
- the thermal movement in the pipe work will be accommodated in such way that it does not impose a load on the penetration seal,
- the installations are fixed to the adjacent building element (not to the penetration seal) in accordance with the relevant regulations in such a way that, in case of fire, no additional mechanical load is imposed to the penetration seal,
- the support of the installations is maintained for the required period of fire resistance and
- pneumatic dispatch systems, compressed air systems, etc. are switched off by additional means in case of fire (for sealing off plastic pipes and conveying tubes).

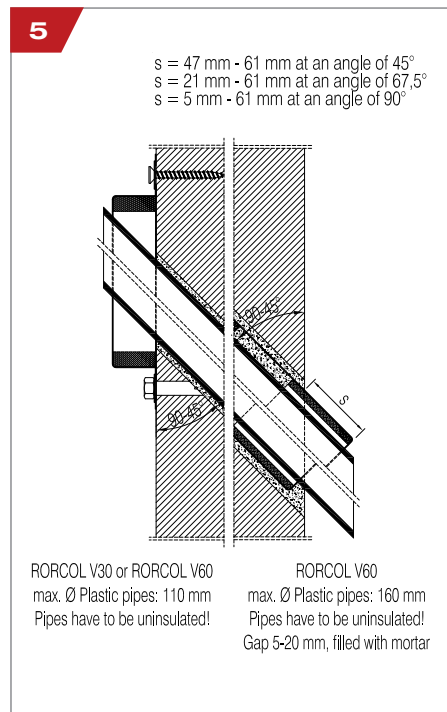
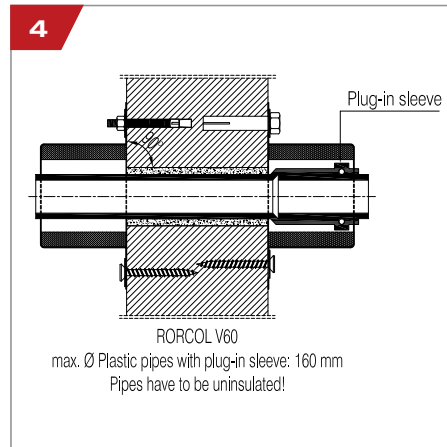
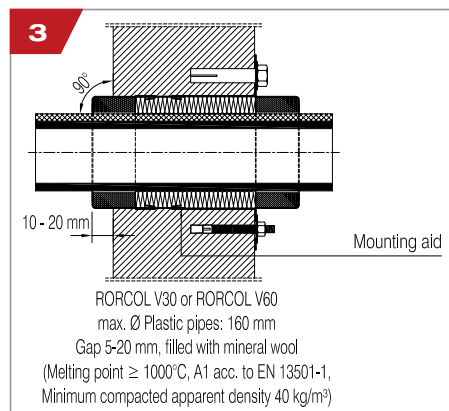
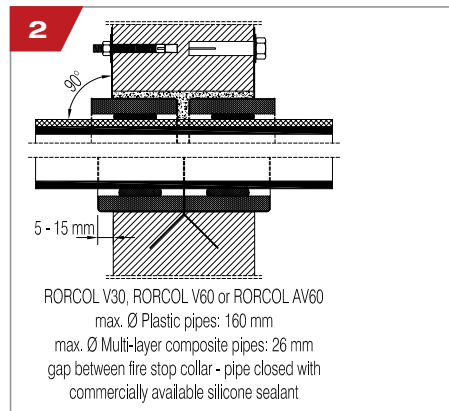
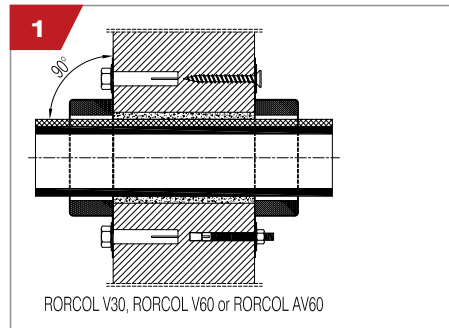
## Safety

Keep out of the reach of children.

Keep away from food, drink and animal foodstuffs.

Keep in a cool and dry place.

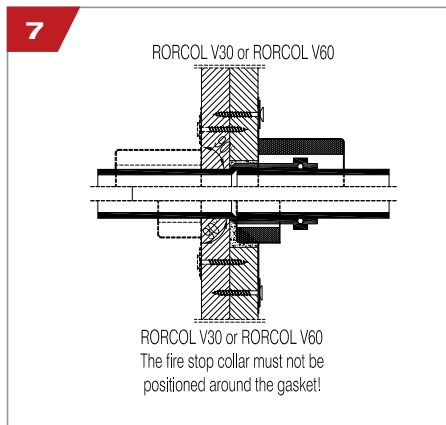
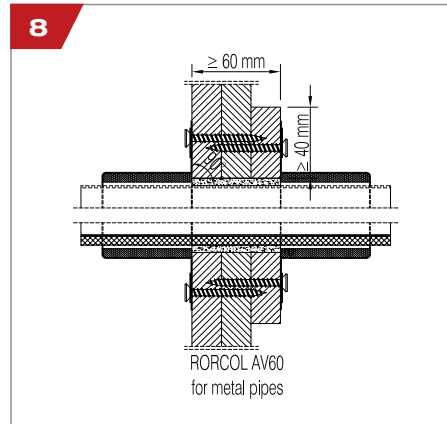
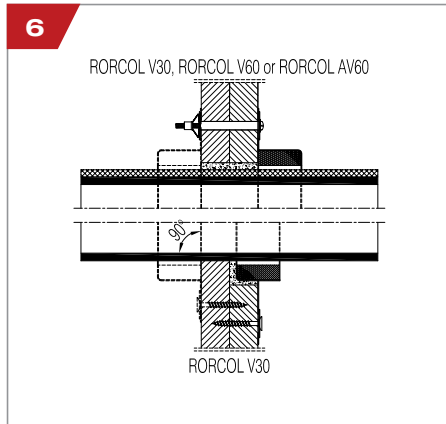
Keep away from heat and frost.



Rigid wall, thickness $\geq 100 \text{ mm}$										
Type	Gap (Pipe-Wall)	Mounting	Material	Pipe outside diameter [mm]	Insulations [mm]				Fire resistance class	
					without	PE $\leq 4$	Elasto-mer $\leq 32$	Mineral wool $\leq 50$		
RORCOL V30	$\leq 10 \text{ mm}$ , filled with AIR FIRE TECH fire protective gap filler or mortar	Metallic anchors or metallic plugs with screws $\geq \text{M6}$ or chip-board screws $\geq 6 \times 55 \text{ mm}$ (only for aerated concrete)	PE	$\leq 135$	•	•	•		EI120	
PP			$\leq 125$	•	•	•				
RORCOL V60			PE	$\leq 200$	•	•			EI120	
PP			$\leq 250$	•	•					
PVC-U			$\leq 200$	•	•					
RORCOL AV60			Conveying tubes	$\leq 58$	•					EI120
Multi-layer composite pipes			$\leq 26$	•	•	$\leq 9$				
			$\leq 63$				•	•		
Conduits			$\leq 50$	•					EI90	
			Metal pipes	$\leq 18$			•	•		EI120

Multiple penetration rigid wall, thickness $\geq 100 \text{ mm}$										
Type	max. DN	Gap (Pipe-Wall)	Mounting	Material / Penetrating element	Pipe dimensions [mm]	Insulations [mm]			Fire resistance class	
						without	PE $\leq 10$	Elasto-mer $\leq 9$		
RORCOL AV60	110	$\leq 10 \text{ mm}$ , filled with AIR FIRE TECH fire protective gap filler or mortar	Metallic anchors or metallic plugs with screws $\geq \text{M6}$ or chip-board screws $\geq 6 \times 55 \text{ mm}$ (only for aerated concrete)	max. 2x multi-layer composite pipes	$\leq 26$		•	•	EI120	
	110			max. 13x PVC conduits	$\leq 50$				EI90	
				max. 13x NYM-J	max. $5 \times 6,0 \text{ mm}^2$					
	63			max. 2x metal pipes	$\leq 18$		•	•		EI90
				max. 1x PVC conduits	$\leq 25$					
	max. 1x NYM-J	max. $5 \times 2,5 \text{ mm}^2$								

Additional information about penetration seals that is not included in this installation instruction will be given by the manufacturer on request.



**Shaft wall  $\geq$  EI90, lining 2x20, 3x15 or 2x25 mm**

Type	Gap (Pipe-Wall)	Mounting	Material	Pipe outside diameter [mm]	Insulations [mm]			Fire resistance class
					without	PE $\leq$ 4	Elastomer $\leq$ 9	
RORCOL V30	$\leq$ 10 mm, filled with AIR FIRE TECH fire protective gap filler or gypsum joint filler	Cavity dowels $\geq$ M6 or chipboard screws $\geq$ 3,5x35 mm with $\varnothing$ 20 mm washers (only for lining 2x25 mm)	PE	$\leq$ 110		•		EI90
			PP	$\leq$ 110	•	•		
RORCOL V60	$\leq$ 10 mm, filled with AIR FIRE TECH fire protective gap filler or gypsum joint filler	Cavity dowels $\geq$ M6 or chipboard screws $\geq$ 3,5x35 mm with $\varnothing$ 20 mm washers (only for lining 2x25 mm)	PE	$\leq$ 110		•		EI90
			PP	$\leq$ 110	•	•		
RORCOL AV60	$\leq$ 10 mm, filled with AIR FIRE TECH fire protective gap filler or gypsum joint filler	Cavity dowels $\geq$ M6 or chipboard screws $\geq$ 3,5x35 mm with $\varnothing$ 20 mm washers (only for lining 2x25 mm)	Multi-layer composite pipes	$\leq$ 26	•	$\leq$ 10	•	EI90
			Conduits	$\leq$ 50				
			Metal pipes	$\leq$ 12			•	

**Multiple penetration shaft wall  $\geq$  EI90, lining 2x20, 3x15 or 2x25 mm**

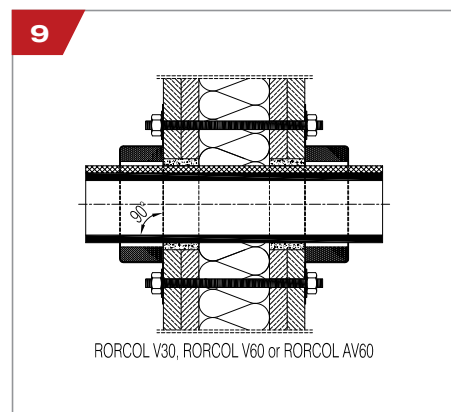
Type	max. DN	Gap (Pipe-Wall)	Mounting	Material / Penetrating element	Pipe dimensions [mm]	Insulations [mm]		Fire resistance class
						without	Elastomer $\leq$ 9	
RORCOL AV60	110	$\leq$ 10 mm, filled with AIR FIRE TECH fire protective gap filler or gypsum joint filler	Cavity dowels $\geq$ M6 or chipboard screws $\geq$ 3,5x35 mm with $\varnothing$ 20 mm washers (only for lining 2x25 mm)	13x PVC conduits	$\leq$ 50			EI90
				max. 13x NYM-J	max. 5x6,0 mm <sup>2</sup>			
	63			max. 2x metal pipes	$\leq$ 12		•	EI90
				max. 1x PVC conduits	$\leq$ 25			
		max. 1x NYM-J	max. 5x1,5 mm <sup>2</sup>					

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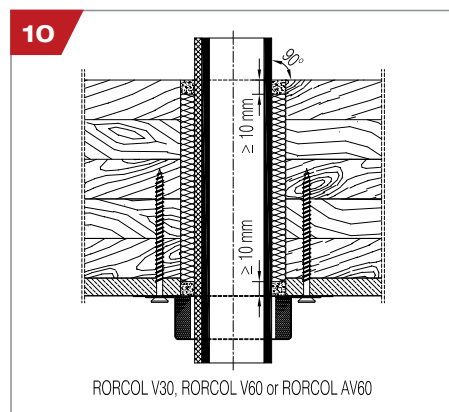


Flexible wall ≥ EI90, thickness ≥ 100 mm									
Type	Gap (Pipe-Wall)	Mounting	Material	Pipe outside diameter [mm]	Insulations [mm]				Fire resistance class
					without	PE ≤ 4	Elasto-mer ≤ 32	Mineral wool ≤ 50	
RORCOL V30	≤ 10 mm, filled with AIR FIRE TECH fire protective gap filler or gypsum joint filler	Threaded bars ≥ M6 with ø 20 mm washers and nuts	PE	≤ 135	•	•			EI120
RORCOL V60			PP	≤ 125	•	•			
RORCOL AV60			PE	≤ 200	•	•			EI90
			PP	≤ 200	•	•			
RORCOL AV60			Multi-layer composite pipes	≤ 63		•	•	EI90	
			Conduits	≤ 50					

Multiple penetration flexible wall ≥ EI90, thickness ≥ 100 mm								
Type	max. DN	Gap (Pipe-Wall)	Mounting	Material / Penetrating element	Pipe dimensions [mm]	Insulations [mm]		Fire resistance class
						without		
RORCOL AV60	110	≤ 10 mm, filled with AIR FIRE TECH fire protective gap filler or gypsum joint filler	Threaded bars ≥ M6 with ø 20 mm washers and nuts	max. 13x PVC conduits	≤ 50			EI90
				max. 13x NYM-J	max. 5x6,0 mm <sup>2</sup>			



Flexible wall



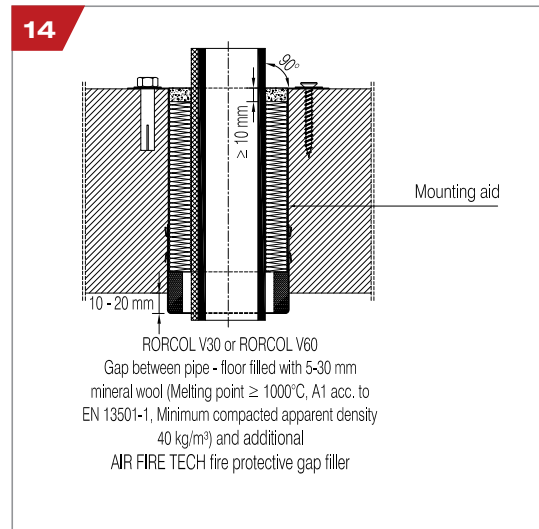
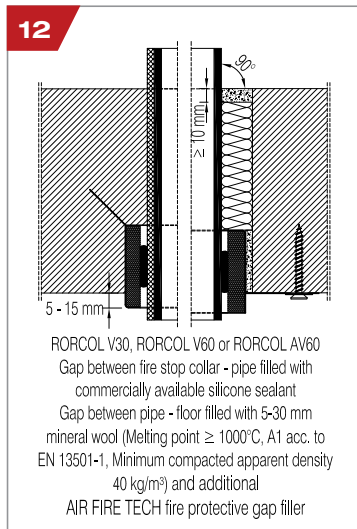
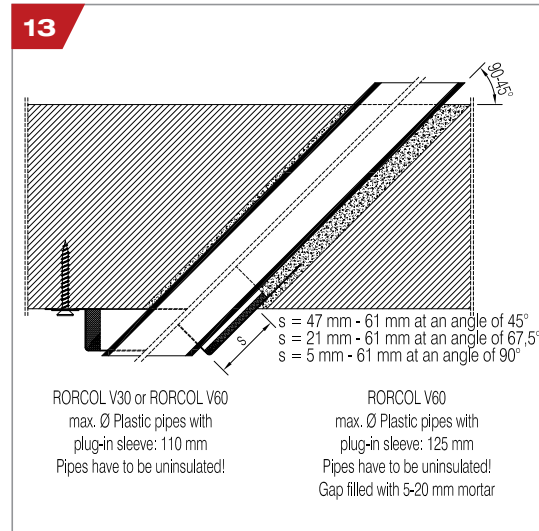
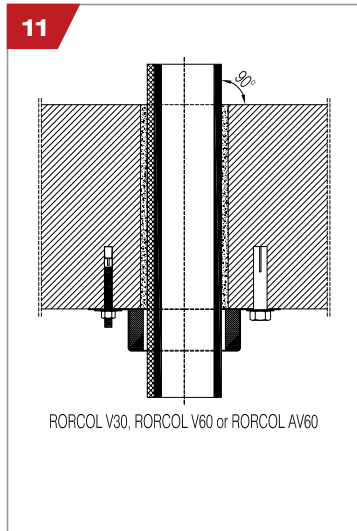
Cross laminated timber floor

Cross laminated timber floor ≥ EI90, thickness ≥ 152,5 mm (140 mm timber + 12,5 mm gypsum plasterboard)										
Type	Gap (Pipe-Floor)	Mounting	Material	Pipe outside diameter [mm]	Insulations [mm]					Fire resistance class
					with-out	PE ≤ 4	Elasto-mer ≤ 13	Mineral wool ≤ 20	Polyester fleece ≤ 4	
RORCOL V30	Mineral wool (Melting point ≥ 1000°C, A1 acc. to EN 13501-1, Minimum compacted apparent density 40 kg/m <sup>3</sup> ) and additional ≥ 10 mm AIR FIRE TECH fire protective gap filler	Chipboard screws ≥ 6x90 mm with ø 20 mm washers	PE	≤ 125	•					EI90
RORCOL V60			PP	≤ 125	•			•		
RORCOL AV60			PE	≤ 125	•					EI90
			PP	≤ 125	•				•	
RORCOL AV60			Multi-layer composite pipes	≤ 63		•	•	•		EI90

Multiple penetration cross laminated timber floor ≥ EI90, thickness ≥ 152,5 mm (140 mm timber + 12,5 mm gypsum plasterboard)									
Type	max. DN	Gap (Pipe-Floor)	Mounting	Material / Penetrating element	Pipe dimensions [mm]	Insulations [mm]			Fire resistance class
						without	PE ≤ 10	Elasto-mer ≤ 9	
RORCOL AV60	110	≤ 10 mm, filled with AIR FIRE TECH fire protective gap filler	Chipboard screws ≥ 6x90 mm with ø 20 mm washers	max. 4x multi-layer composite pipes	≤ 26		•	•	EI90

Additional information about penetration seals that is not included in this installation instruction will be given by the manufacturer on request.





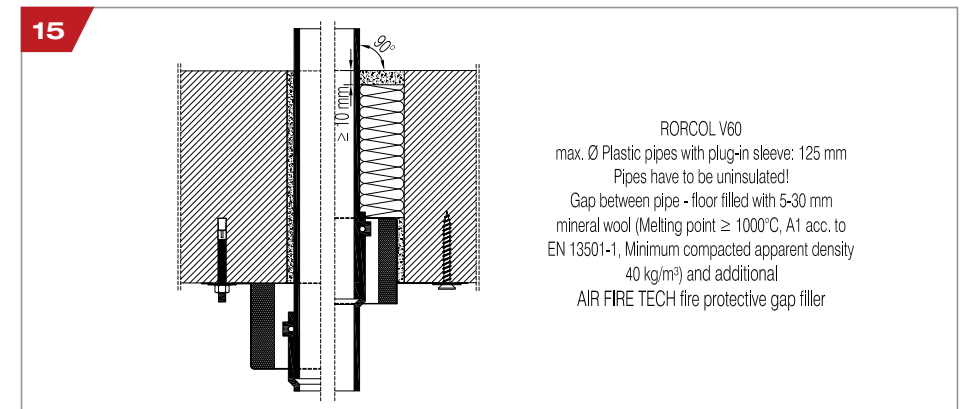
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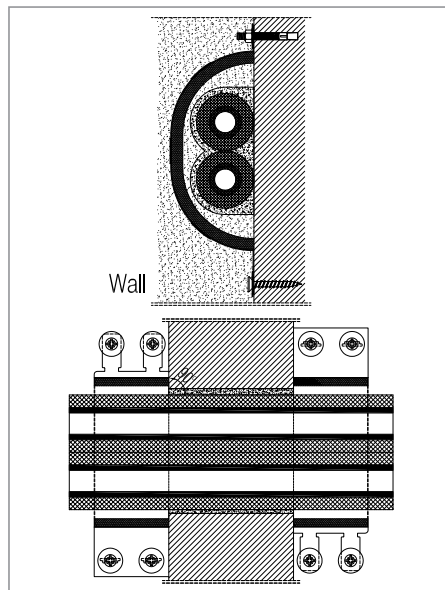
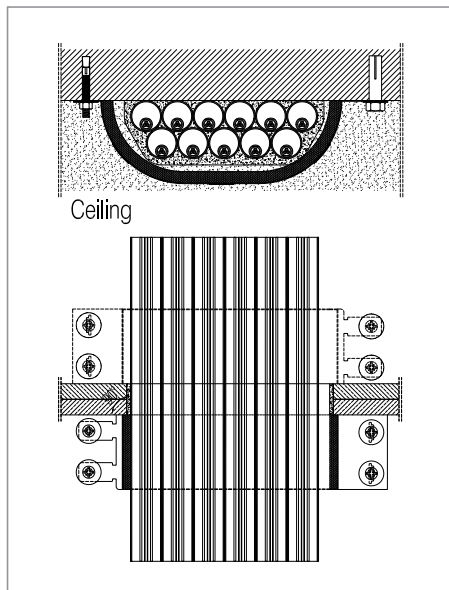
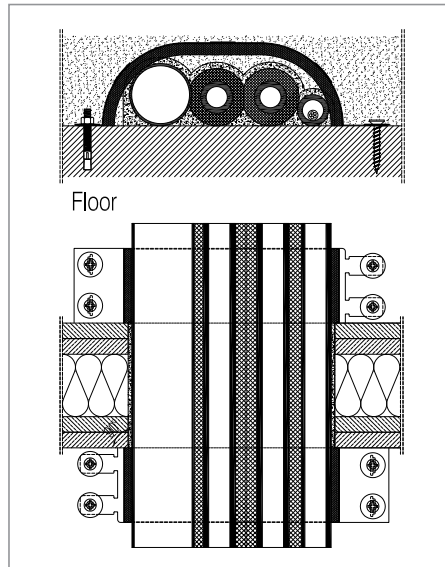
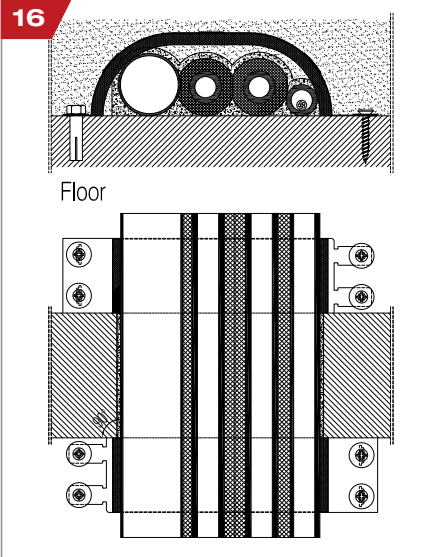
**Rigid floor, thickness  $\geq 150 \text{ mm}$**

Type	Gap (Pipe-Floor)	Mounting	Material	Pipe outside diameter [mm]	Insulations [mm]					Fire resistance class
					with-out	PE $\leq 4$	Elasto-mer $\leq 25$	Mineral wool $\leq 50$	Polyester fleece $\leq 4$	
RORCOL V30	$\leq 10 \text{ mm}$ , filled with AIR FIRE TECH fire protective gap filler or mortar	Metallic anchors or metallic plugs with screws $\geq \text{M6}$ or chip-board screws $\geq 6 \times 55 \text{ mm}$ (only for aerated concrete)	PE	$\leq 135$	•	•			•	EI120
			PP	$\leq 125$	•	$\leq 8$			•	
RORCOL V60			PE	$\leq 135$	•	•			•	EI120
			PP	$\leq 125$	•	$\leq 8$			•	
RORCOL AV60		Multi-layer composite pipes		$\leq 26$	•	•	•	•		EI120
				$\leq 63$			•	•		

**Multiple penetration rigid floor, thickness  $\geq 150 \text{ mm}$**

Type	max. DN	Gap (Pipe-Floor)	Mounting	Material / penetrating element	Pipe dimension [mm]	Insulations [mm]			Fire resistance class
						with-out	PE $\leq 10$	Elastomer $\leq 9$	
RORCOL AV60	110	$\leq 10 \text{ mm}$ , filled with AIR FIRE TECH fire protective gap filler or mortar	Metallic anchors or metallic plugs with screws $\geq \text{M6}$ or chip-board screws $\geq 6 \times 55 \text{ mm}$ (only for aerated concrete)	max. 7x multi-layer composite pipes	$\leq 26$		•	•	EI90
				max. 2x multi-layer composite pipes	$\leq 26$		•	•	EI120



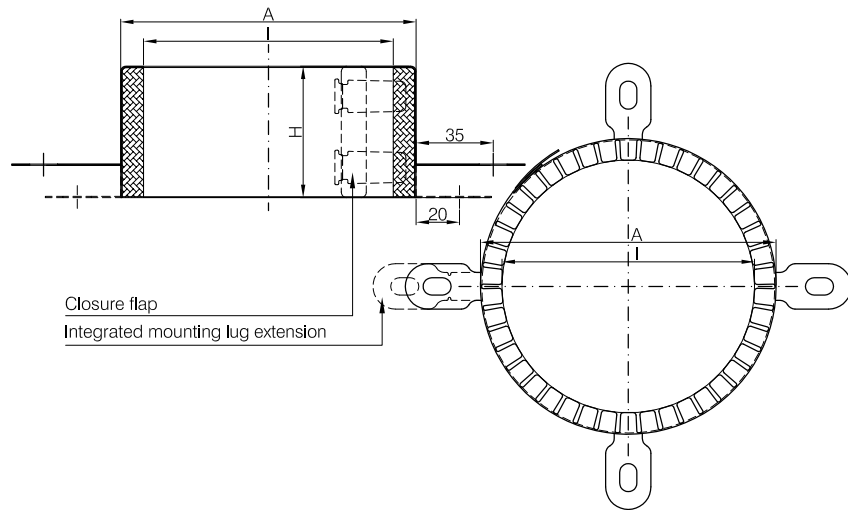


Flexible wall $\geq$ EI90, thickness $\geq$ 100 mm Shaft wall $\geq$ EI90, lining 2x20, 3x15 or 2x25 mm Rigid wall, thickness $\geq$ 100 mm		
Type	Gap (Pipe-Wall)	Mounting
RORCOL V60	$\leq$ 10 mm, filled with AIR FIRE TECH fire protective gap filler	Metallic anchors or metallic plugs with screws $\geq$ M6 or chipboard screws $\geq$ 6x55 mm (only for aerated concrete)
RORCOL AV60		

Multiple penetration Omega-application Shaft wall $\geq$ EI90, lining 2x20, 3x15 or 2x25 mm									
Type	max. DN	Gap (Pipe-Wall)	Mounting	Material / Penetrating element	Pipe dimensions [mm]	Insulations [mm]			Fire resistance class
						without	PE	Elasto-mer $\leq$ 9	
RORCOL AV60	80	$\leq$ 10 mm, filled with AIR FIRE TECH fire protective gap filler	Metallic anchors or metallic plugs with screws $\geq$ M6 or chipboard screws $\geq$ 6x55 mm (only for aerated concrete)	max. 2x multi-layer composite pipes	$\leq$ 26		$\leq$ 10	•	EI90
				max. 1x PP pipe	$\leq$ 75	•	$\leq$ 4		
				1x PVC conduits	$\leq$ 25				
	max. 1x NYM-J			max. 5x6,0 mm <sup>2</sup>			EI90		
	max. 11x PVC conduits			$\leq$ 25					
80	max. 11x NYM-J	max. 5x2,5 mm <sup>2</sup>							

Additional information about penetration seals that is not included in this installation instruction will be given by the manufacturer on request.

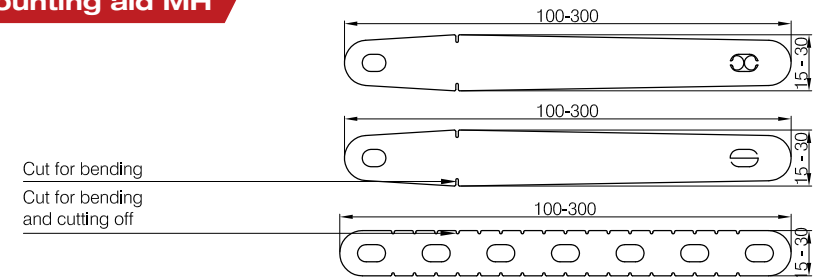
## Fire stop collar RORCOL



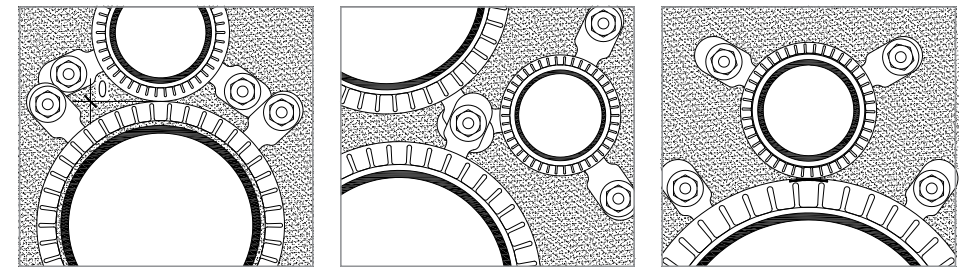
Type	Field of application	Type	Outer diameter [A] [mm]	Inner diameter [I] [mm]	Number of mounting lugs
V30	for plastic sewage pipes	BRM/V30/DM40	57	46	3
		BRM/V30/DM56	74	62	3
		BRM/V30/DM63	86	70	3
		BRM/V30/DM80	103	87	4
		BRM/V30/DM100	131	109	4
		BRM/V30/DM110	142	120	4
		BRM/V30/DM125	159	133	4
V60	for plastic sewage pipes, extended and special applications	BRM/V60/DM140	178	146	4
		BRM/V60/DM56	57	46	3
		BRM/V60/DM63	73	62	3
		BRM/V60/DM80	86	70	4
		BRM/V60/DM100	127	109	4
		BRM/V60/DM110	142	120	4
		BRM/V60/DM125	159	133	4
		BRM/V60/DM140	178	146	4
		BRM/V60/DM160	201	169	5
		BRM/V60/DM180	218	190	6
AV60	for multi-layer composite pipes, cables and metal pipes	BRM/V60/DM200	243	210	6
		BRM/V60/DM225	268	235	8
		BRM/V60/DM250	301	260	8
		BRM/AV60/DM40	59	46	3
		BRM/AV60/DM56	74	60	3
		BRM/AV60/DM63	85	71	3
		BRM/AV60/DM80	103	86	4
		BRM/AV60/DM100	126	109	4
		BRM/AV60/DM110	137	121	4
		BRM/AV60/DM125	157	136	4
BRM/AV60/DM140	178	151	4		
BRM/AV60/DM160	198	172	5		

Material of the housing: Nirosta

## Mounting aid MH



## Fire stop collars

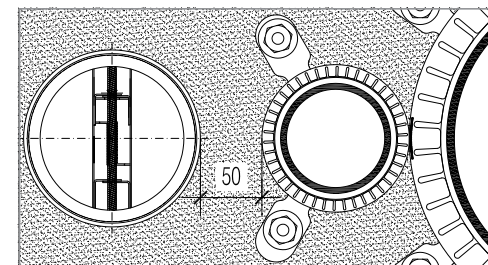


Working clearance between fire stop collars  $\geq 0$  mm.

It is permitted to fix maximum three mounting lugs by one concerted screw fastening.

At a working clearance of 0 mm it is permitted to hook one mounting lug into the gap between the housing and the intumescent inlay of the adjacent fire stop collar.

## Fire dampers



Working clearance between AIR FIRE TECH fire dampers (1139-CPR-1046/12) and adjacent AIR FIRE TECH fire stop collars (ETA-13/0758)  $\geq 50$  mm (not covered by the ETA).

Additional information about penetration seals that is not included in this installation instruction will be given by the manufacturer on request.

# Certificate of constancy of performance



Magistrat der Stadt Wien  
MAGISTRATSABTEILUNG 39  
Prüf-, Überwachungs- und  
Zertifizierungsstelle der Stadt Wien  
WIEN-ZERT  
Rinnböckstraße 15, A-1110 WIEN  
Tel.: (+43 1) 79514-8039, Fax: (+43 1) 79514-99-8039  
E-Mail: post@ma39.wien.gv.at  
Homepage: www.ma39.wien.at



## Certificate of constancy of performance 1139-CPR-0523/13 (1<sup>st</sup> revised version)

In compliance with Regulation 305/2011/EU of the European Parliament and of the Council of 9 March 2011 (the Construction Products Regulation or CPR), in the current version, this certificate applies to the construction product

### Pipe penetration seals

with the trade name

„Air Fire Tech System RORCOL“  
(according to the information in the annex of this certificate)

placed on the market under the name or trade mark of

**Air Fire Tech Brandschutzsysteme GmbH**  
A-1130 Wien, Stranzenberggasse 7B/2

and produced in the manufacturing plant

**Air Fire Tech Brandschutzsysteme GmbH, Werk Bad Vöslau**  
A- 2540 Bad Vöslau, Dr. Mayr Gunthofstraße / im Kammgarzentrum

This certificate attests that all provisions concerning the assessment and verification of constancy of performance described in the

**ETA-13/0758, issued on 27/06/2013**

and

**ETAG 026-2, used as European Assessment Document (EAD), edition August 2011**

under system 1 for the performance set out in the ETA are applied and that the factory production control conducted by the manufacturer is assessed to ensure the

**constancy of performance of the construction product.**

This certificate was first issued on 7 May 2014. The present 1<sup>st</sup> revised version of the certificate 1139-CPR-0523/13 replaces the certificate from 7 May 2014 and will remain valid as long as neither the ETA, the EAD, the construction product, the AVCP methods, nor the manufacturing conditions in the plant are modified significantly, unless suspended or withdrawn by the notified product certification body. The certificate consists of six pages (incl. Annex).

The authorised signatory:

Dipl.-Ing. Martin Fehringner  
(Oberstadtbaurat)

For the authorised head of certification body:

Dipl.-Ing. Bernhard Ramsauer  
(Oberstadtbaurat)

The Head of the Research Centre, Laboratory and Certification Services.

Dipl.-Ing. Georg Pommer  
(Senatsrat)

Vienna, 6 July 2016



# DECLARATION OF PERFORMANCE

No. 2014/1 in accordance with Regulation (EU) No. 305/2011  
(Construction Products Regulation CPR) Annex III

## Fire stop collar RORCOL

### 1. Unique identification code of the product-type:

Fire stop collar RORCOL V30, RORCOL V60, RORCOL AV60, fire protective gap filler BFM/K310

### 2. Type, batch or serial number or any other element allowing identification of the construction product as required pursuant to Article 11(4):

Type designation: to be found on the label of the product

### 3. Intended use or uses of the construction product, in accordance with the applicable harmonised technical specification, as foreseen by the manufacturer:

Penetration seals for burnable pipes,  
not burnable pipes and  
cables through walls and ceilings, according to ETA-13/0758

### 4. Name, registered trade name or registered trade mark and contact address of the manufacturer as required pursuant to Article 11(5):

Air Fire Tech Brandschutzsysteme GmbH, Stranzenberggasse 7b/2, 1130 Wien, AUSTRIA

### 5. Where applicable, name and contact address of the authorized representative whose mandate covers the tasks specified in Article 12(2): n.a.

### 6. System or systems of assessment and verification of constancy of performance of the construction product as set out in Annex V: System 1

### 7. In case of the declaration of performance concerning a construction product covered by a harmonised standard: n.a.

**8. In case of the declaration of performance concerning a construction product for which a European Technical Assessment has been issued:** The Österreichisches Institut für Bautechnik has issued the European technical approval ETA-13/0758 according to the ETAG No. 026-part 2. The notified body MA39 – certification body – WIEN-ZERT performs the inspection according to Annex V System 1 and has issued the EC certificate of conformity 1139-CPD-0523/13.

### 9. Declared performance:

Essential performance	Performance	Harmonised technical specification
Reaction to fire	Class E	EN 13501-1
Fire resistance	According to ETA-13/0758	EN 13501-2
Durability and utilizability	Use category Y <sub>1</sub>	EOTA technical report TR 024
Dangerous substances	None	Council Directive 67/548/EEC and Regulation (EC) no 1272/2008

**10. The performance of the product identified in points 1 and 2 is in conformity with the declared performance in point 9. This declaration of performance is issued under the sole responsibility of the manufacturer identified in point 4.**

Signed for and on behalf  
of the manufacturer by:



**Air Fire Tech Brandschutzsysteme GmbH**  
A-1130 Wien, Stranzenberggasse 7b/2  
T: 982 01 74 0, E: office@airfiretech.at

(Uwe Stefani,  
CEO Air Fire Tech Brandschutzsysteme GmbH)

Wien, April 2014



# Fire protection



Fire dampers\*  
INLAP  
*EI120(ho, ve, i↔o)S*



Fire closers\*  
FSA  
*FLI-VE(ho+ve)90\*\**



Fire rated access doors\*  
FIREREV  
*EI120 / EI90 / EI60 / EI30*

\* not covered by the ETA  
\*\* classification and intended use acc.  
to national regulations of Austria



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E: office@airfiretech.at  
I: www.airfiretech.at

<b>CE</b> 1139
Air Fire Tech Brandschutzsysteme GmbH Stranzenberggasse 7b/2 1130 Wien, AUSTRIA
13
1139-CPD-0523/13
ETA-13/0758
ETAG 026, Teil 2
DOP 2014/1
Rohrabschottung „Air Fire Tech System RORCOL“ Nutzungskategorie Y1
Weitere relevante Eigenschaften siehe ETA-13/0758