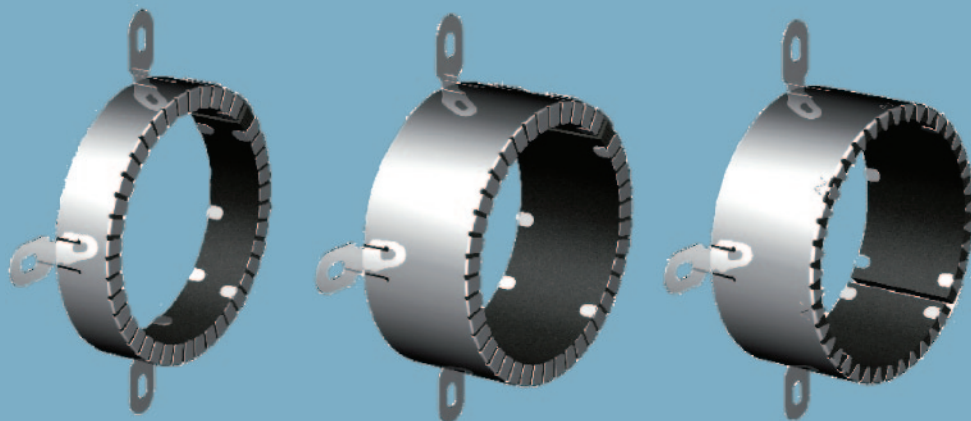


E41.en



The Firewin Systems

11/2015

E41.en Fire protection built-ins

E411a.en – Knauf Firecollar Rorcol V30

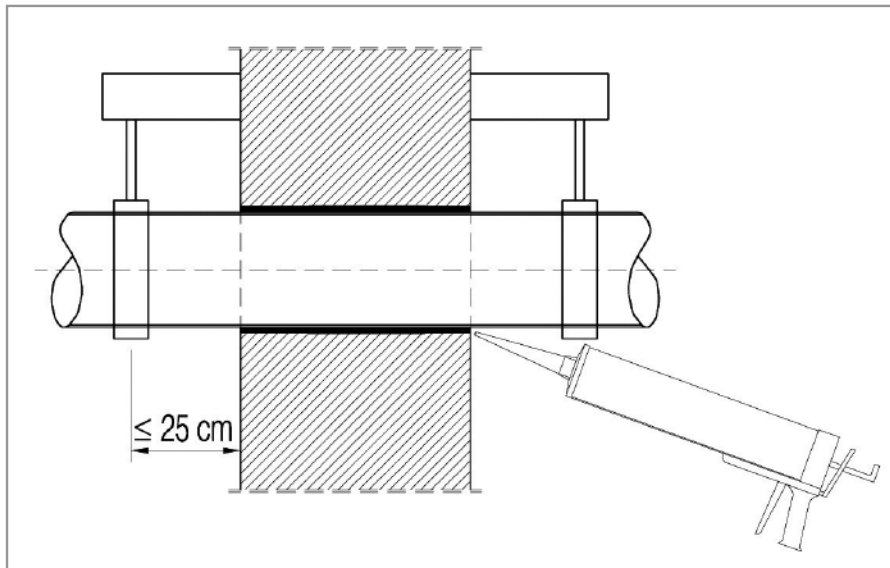
E411b.en – Knauf Firecollar Rorcol V60

E411c.en – Knauf Firecollar Rorcol AV60

New

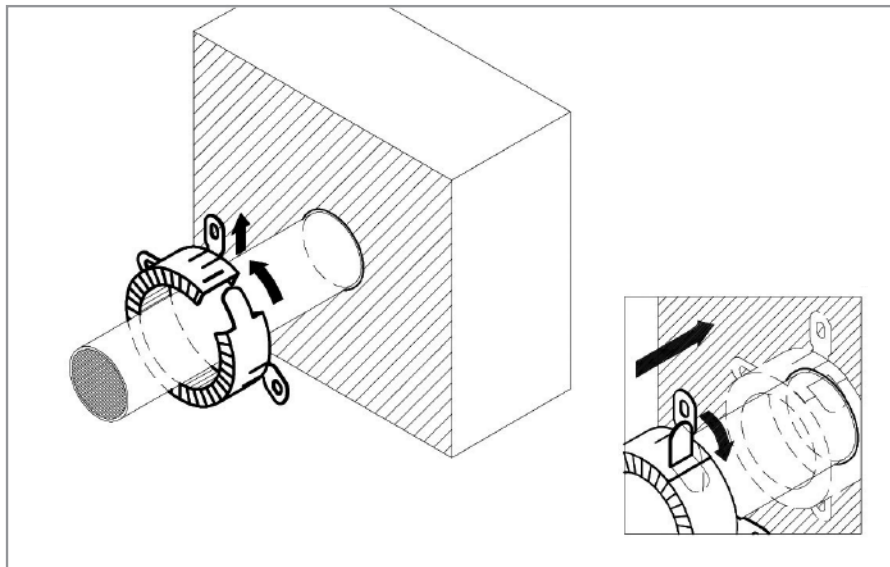


Brandschutzsysteme



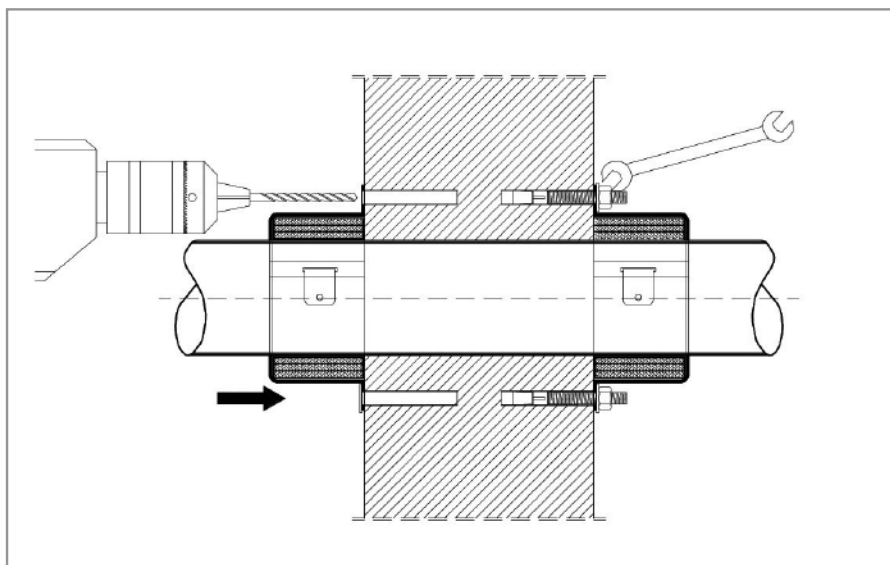
1

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 firecollar on the pipe or if the pipe is insulated, on the insulation and close the closure flaps.

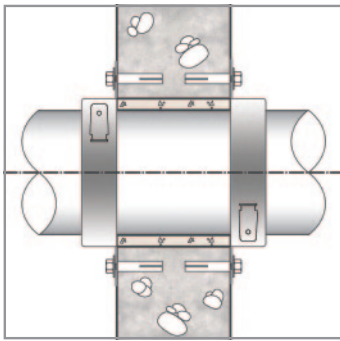


3

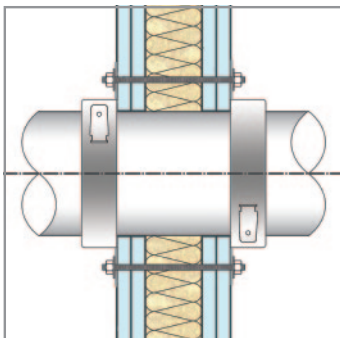
Mount the firecollars acc. to installation details.

E41.en Fire protection built-ins

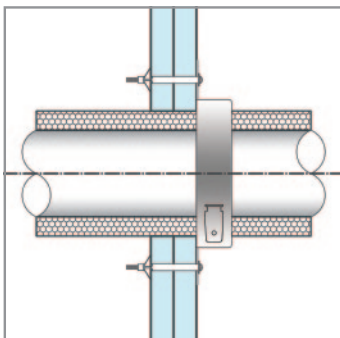
Separating elements with classification standard EN 13501-2



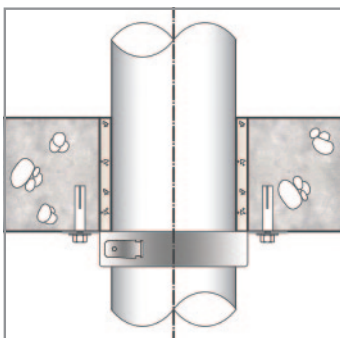
Rigid wall,
Thickness ≥ 100 mm
Density ≥ 500 kg/m³



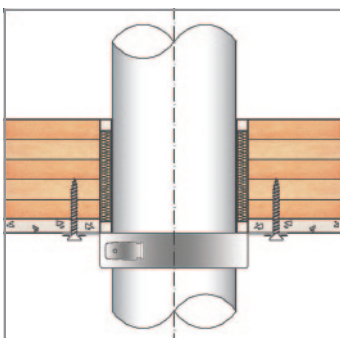
Flexible wall EI90 and EI120,
Thickness ≥ 100 mm
studs lined on both faces with minimum 2 layers of boards (minimum thickness 12,5 mm), distance between studs 62,5 cm, gypsum plasterboards type DF acc. to EN 520, GM-F acc. to EN 15283-1 or boards with ETA



Shaft wall EI90 and EI120,
Steel studs lined on one face with 2x20, 3x15 or 2x25 mm gypsum plasterboards DF acc. to EN 520 or GM-F acc. to EN 15283-1. Minimum nominal width of profiles 50 mm (e.g. CW50), with or without mineral wool



Rigid floor,
Thickness ≥ 150 mm
Density ≥ 500 kg/m³



Cross laminated timber floor EI90 and EI120,
140 mm timber + 12,5 mm gypsum plasterboard

E41.en Fire protection built-ins

Installation notes - Tested pipes



| Type | Penetrating element | Material or pipe name |
|--------------------------------------|-----------------------|----------------------------------|
| Rorcol V30 and Rorcol V60 | Combustible pipes | PE-HD |
| | Combustible pipes | PE-HD |
| | Combustible pipes | "RAUTITAN flex" |
| | Combustible pipes | PP |
| | Combustible pipes | PP |
| | Combustible pipes | PP |
| | Combustible pipes | "POLO-KAL NG" |
| | Combustible pipes | "POLO-KAL 3S" |
| | Combustible pipes | "Raupiano Plus" |
| Rorcol V60 | Combustible pipes | "WC Anschlussstutzen" |
| | Combustible pipes | "PP MASTER SN12" |
| | Combustible pipes | "Aquatherm firestop" |
| | Conveying tubes | PVC-U |
| | Conveying tubes | "Pelflex/AS" |
| Rorcol AV60 | Combustible pipes | "Pelflex PU/AS" |
| | Combustible pipes | "Geberit Mepla-Rohr" |
| | Combustible pipes | "FRIATHERM multi-press" |
| | Combustible pipes | "HENCO Mehrschichtverbundrohr" |
| | Combustible pipes | "JRG Sanipex MT" |
| | Combustible pipes | "RAUTITAN stabil" |
| | Combustible pipes | "TECEflex-Verbundrohr" |
| | Combustible pipes | "Uponor Verbundrohr" |
| | Combustible pipes | "K06 KELIT ALU-Verbundrohr PN20" |
| | Non-combustible pipes | Metal pipes |
| | Conduits | PVC conduits for cables |
| Cable | NYM-J | |
| Rorcol AV60, multiple penetration | Combustible pipes | "Pelflex PU/AS" |
| | Combustible pipes | "Geberit Mepla-Rohr" |
| | Combustible pipes | "TECEflex-Verbundrohr" |
| | Combustible pipes | "HENCO Mehrschichtverbundrohr" |
| | Combustible pipes | "JRG Sanipex MT" |
| | Combustible pipes | "RAUTITAN stabil" |
| | Combustible pipes | "FRIATHERM multi-press" |
| | Conduits | PVC conduits for cables |
| Non-combustible pipes | Metal pipes | |

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

| Standard or manufacturer | Pipe end configuration |
|--|------------------------|
| EN 1519-1 | U/U |
| EN 12201-2 | U/U |
| REHAU Gesellschaft m.b.H. | U/U |
| EN 1451-1 | U/U |
| EN ISO 15494-3 | U/U |
| EN ISO 15874-2 | U/U |
| POLOPLAST GMBH & CO KG | U/U |
| POLOPLAST GMBH & CO KG | U/U |
| REHAU Gesellschaft m.b.H. | U/U |
| Viega GmbH | U/U |
| Pipelife Austria GmbH & Co KG | U/U |
| aquatherm GmbH Kunststoffextrusions- und Spritzgießtechnik | U/C |
| EN 1401-1 | U/U |
| HY-POWER Produktions und Handels GmbH | U/U |
| HY-POWER Produktions und Handels GmbH | U/U |
| Geberit Vertriebs GmbH | U/C |
| Friatec AG | U/C |
| HENCO Industries NV | U/C |
| Georg Fischer JRG AG | U/C |
| REHAU Gesellschaft m.b.H. | U/C |
| TECE GmbH | U/C |
| Uponor Vertriebs GmbH | U/C |
| KE KELIT Kunststoffwerk GesmbH | U/C |
| 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 |
| EN 61386-22 | C/C |
| – | – |
| Geberit Vertriebs GmbH | U/C |
| TECE GmbH | U/C |
| HENCO Industries NV | U/C |
| Georg Fischer JRG AG | U/C |
| REHAU Gesellschaft m.b.H. | U/C |
| Friatec AG | U/C |
| EN 61386-22 | C/C |
| 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 |

Notes

The firecollars 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.

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.

Use category

The Pipe penetration seal "Knauf Firecollar Rorcol System" 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 Y₁. Since the requirements for Type Y₁ are met, also the requirement for Type Y₂, Z₁ and Z₂ are fulfilled.

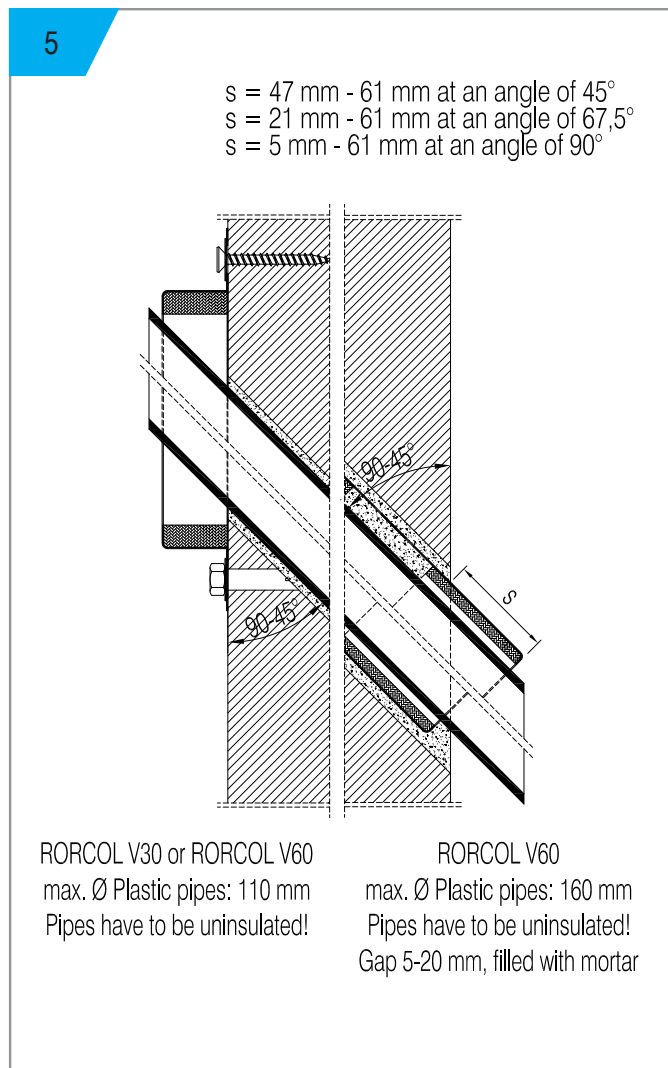
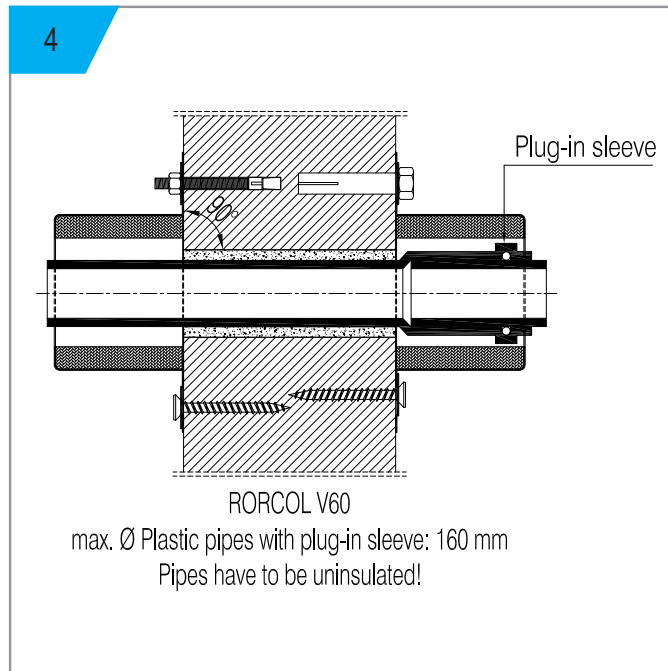
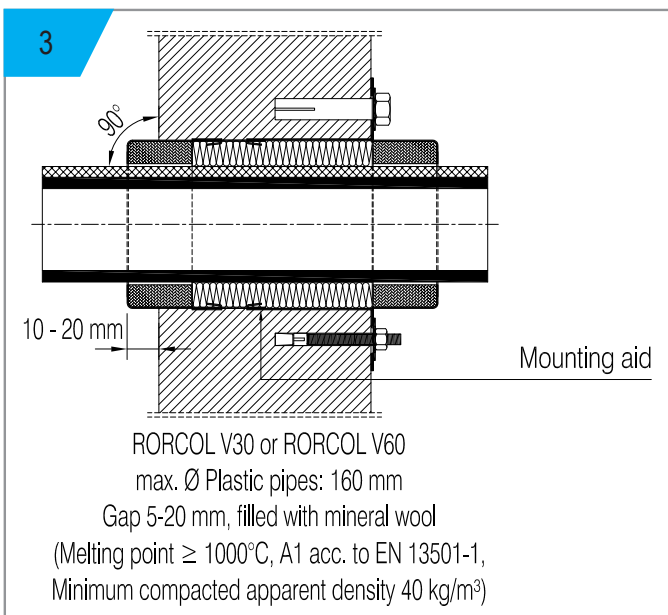
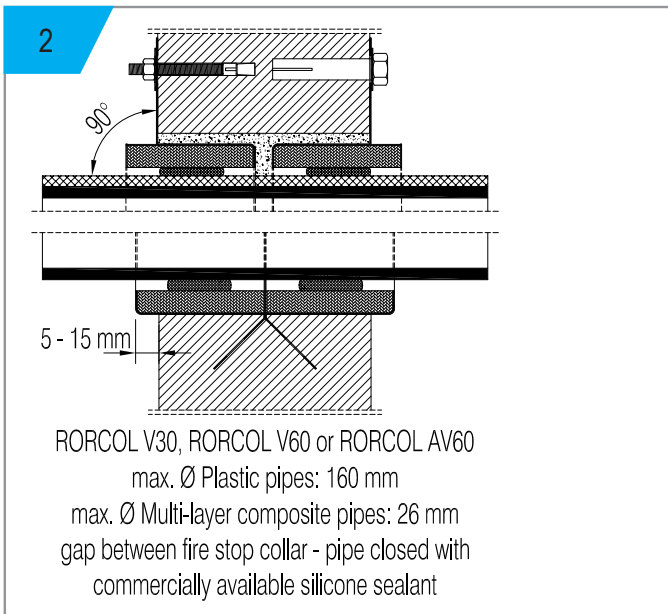
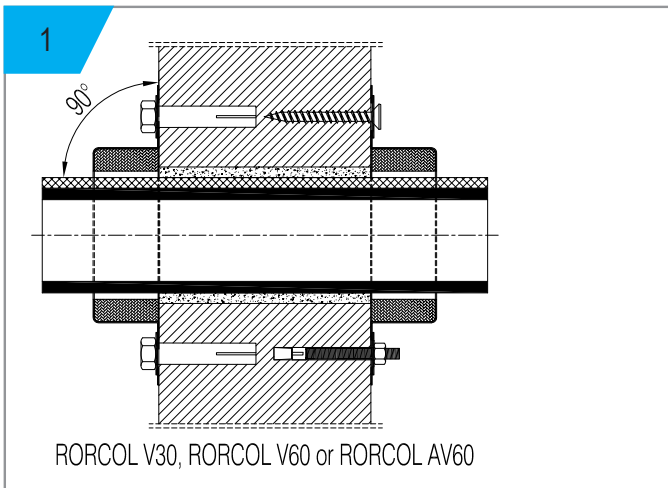
Although a penetration seal is intended for indoor applications only, the construction process may result in it being subjected to more exposed conditions for a period before the building envelope is closed. For this case provisions shall be made to protect temporarily exposed penetration seals according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

E41.en Fire protection built-ins

Installation notes - Rigid wall



Rigid wall, thickness ≥ 100 mm

| Type | Gap (Pipe-Wall) | Mounting | Material | Pipe outside diameter [mm] | Insulations [mm] | | | |
|----------------|--|--|----------------------------------|----------------------------------|------------------|----------------|------------------------|------------------------------|
| | | | | | without | PE ≤ 4 | Elastomer ≤ 32 | Mineral wool ≤ 50 |
| Rorcol V30 | ≤ 10 mm, filled with AIR FIRE TECH fire protective gap filler or mortar | Metallic anchors or metallic plugs with screws $\geq M6$ or chipboard screws $\geq 6 \times 55$ mm (only for aerated concrete) | PE | ≤ 135 | • | • | • | |
| | | | PP | ≤ 125 | • | • | • | |
| Rorcol V60 | | | PE | ≤ 200 | • | • | | |
| | | | PP | ≤ 250 | • | • | | |
| | | | PVC-U | ≤ 200 | • | • | | |
| Rorcol AV60 | | | Conveying tubes | ≤ 58 | • | | | |
| | | | Multi-layer com- posite pipes | ≤ 26 | • | • | ≤ 9 | |
| | | | | ≤ 63 | | | • | • |
| | | | Conduits | ≤ 50 | • | | | |
| | | | Metal pipes | ≤ 18 | | | • | • |

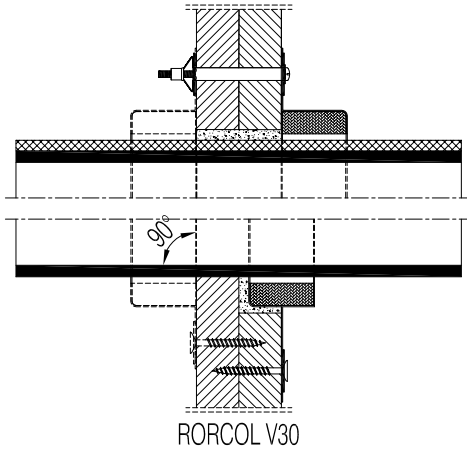
Multiple penetration rigid wall, thickness ≥ 100 mm

| Type | max. DN | Gap (Pipe-Wall) | Mounting | Material / Pene- trating element | Pipe dimensions [mm] | Insulations [mm] | | |
|----------------|------------|---|--|--|--|------------------|--------------|-----------------------|
| | | | | | | without | PE ≤ 10 | Elastomer ≤ 9 |
| Rorcol AV60 | 110 | ≤ 10 mm, filled with AIR FIRE TECH fire protective gap filler or mortar | Metallic anchors or metallic plugs with screws $\geq M6$ or chipboard screws $\geq 6 \times 55$ mm (only for aerated concrete) | max. 2x multi- layer composite pipes | ≤ 26 | | • | • |
| | 110 | | | max. 13x PVC conduits | ≤ 50 | | | |
| | | | | max. 13x NYM-J | max. $5 \times 6,0$ mm ² | | | |
| | | | | max. 2x metal pipes | ≤ 18 | | • | • |
| | 63 | | | max. 1x PVC conduits | ≤ 25 | | | |
| | | | | max. 1x NYM-J | max. $5 \times 2,5$ mm ² | | | |

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

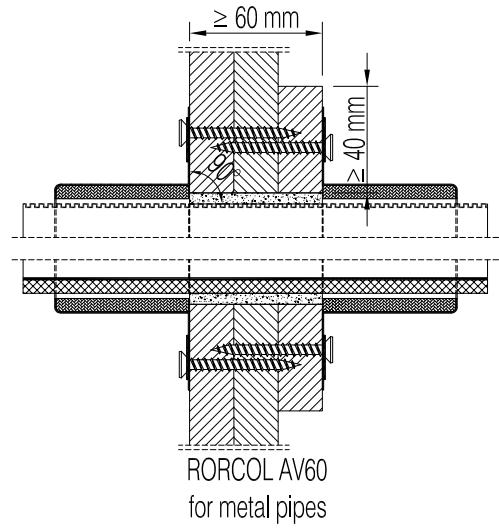
6

RORCOL V30, RORCOL V60 or RORCOL AV60



RORCOL V30

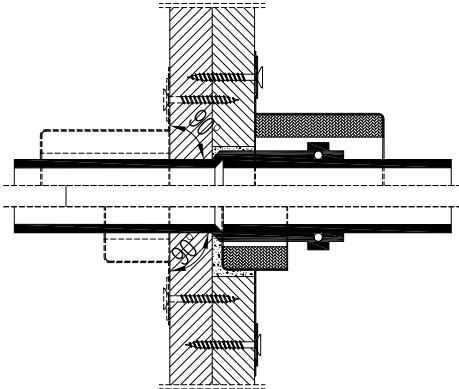
8



RORCOL AV60
for metal pipes

7

RORCOL V30 or RORCOL V60



RORCOL V30 or RORCOL V60
The fire stop collar must not be
positioned around the gasket!

Shaft wall EI90 and EI120, lining 2x20, 3x15 or 2x25 mm

| type | Gap (Pipe-Wall) | Mounting | Material | Pipe outside diameter [mm] | Insulations [mm] | | |
|----------------|--|---|----------------------------------|-------------------------------|------------------|--------|------------------|
| | | | | | without | PE ≤ 4 | Elastomer ≤ 9 |
| Rorcol V30 | ≤ 10 mm, filled with AIR FIRE TECH fire protective gap filler or gypsum joint filler | Cavity dowels ≥ M6 or chipboard screws ≥ 3,5x35 mm with ø 20 mm washers (only for lining 2x25 mm) | PE | ≤ 110 | | • | |
| | | | PP | ≤ 110 | • | • | |
| Rorcol V60 | | | PE | ≤ 110 | | • | |
| | | | PP | ≤ 110 | • | • | |
| Rorcol AV60 | | | Multi-layer com- posite pipes | ≤ 26 | • | ≤ 10 | • |
| | | | Conduits | ≤ 50 | | | |
| | | | Metal pipes | ≤ 12 | | | • |

Multiple penetration shaft wall EI90 and EI120, lining 2x20, 3x15 or 2x25 mm

| Type | max. DN | Gap (Pipe-Wall) | Mounting | Material / Penetrating element | Pipe dimensions [mm] | Insulations [mm] | |
|----------------|-------------------------|--|--|-----------------------------------|-------------------------------|------------------|------------------|
| | | | | | | without | Elastomer ≤ 9 |
| Rorcol AV60 | 110 | ≤ 10 mm, filled with AIR FIRE TECH fire protective gap filler or mortar | Metallic anchors or metallic plugs with screws ≥ M6 or chipboard screws ≥ 6x55 mm with ø 20 mm washers (only for lining 2x25 mm) | 13x PVC con- duits | ≤ 50 | | |
| | | | | max. 13x NYM-J | max. 5x6,0 mm ² | | |
| | max. 2x metal pipes | | | ≤ 12 | | • | |
| | max. 1x PVC conduits | | | ≤ 25 | | | |
| | max. 1x NYM-J | | | max. 5x1,5 mm ² | | | |

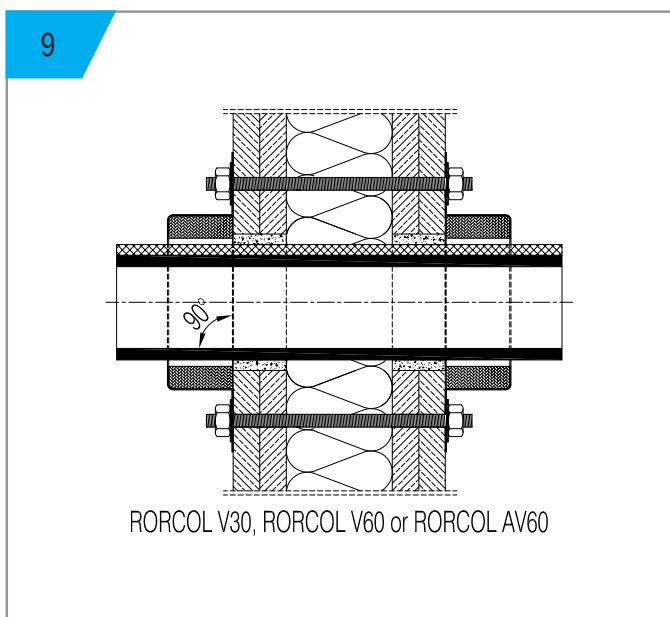
Additional information about penetration seals that is not included in this installation instruction will be given by the manufacturer on request.

Flexible wall EI90 and EI120, thickness ≥ 100 mm

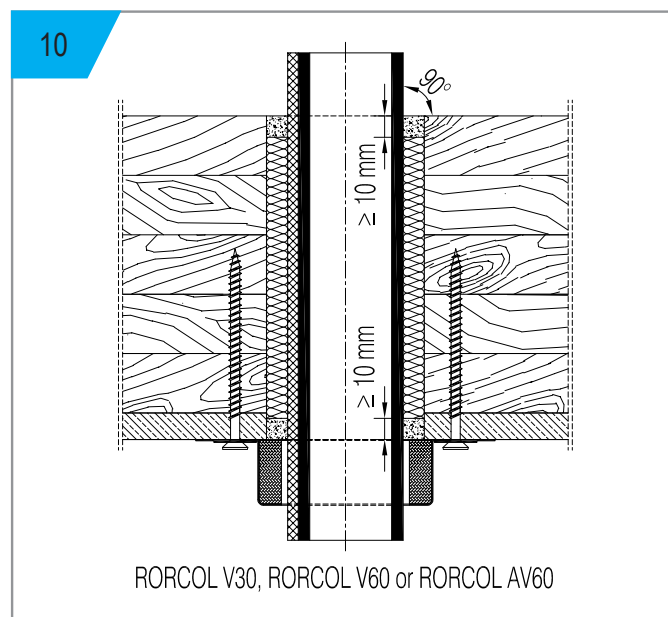
| Type | Gap (Pipe-Wall) | Mounting | Material | Pipe outside diameter [mm] | Insulations [mm] | | | |
|-------------|---|---|-----------------------------|----------------------------|------------------|-------------|---------------------|------------------------|
| | | | | | without | PE ≤ 4 | Elastomer ≤ 32 | Mineral wool ≤ 50 |
| Rorcol V30 | ≤ 10 mm, filled with AIR FIRE TECH fire protective gap filler or gypsum joint filler | Threaded bars $\geq M6$ with $\varnothing 20$ mm washers and nuts | PE | ≤ 135 | • | • | | |
| | | | PP | ≤ 125 | • | • | | |
| Rorcol V60 | | | PE | ≤ 200 | • | • | | |
| | | | PP | ≤ 200 | • | • | | |
| Rorcol AV60 | | | Multi-layer composite pipes | ≤ 63 | | • | • | • |
| | | | Conduits | ≤ 50 | | | | |

Multiple penetration flexible wall EI90 and EI120, thickness ≥ 100 mm

| Type | max. DN | Gap (Pipe-Wall) | Mounting | Material / Penetrating element | Pipe dimensions [mm] | Insulations [mm] |
|-------------|---------|---|---|--------------------------------|----------------------------|------------------|
| | | | | | | without |
| Rorcol AV60 | 110 | ≤ 10 mm, filled with AIR FIRE TECH fire protective gap filler or gypsum joint filler | Threaded bars $\geq M6$ with $\varnothing 20$ mm washers and nuts | max. 13x PVC conduits | ≤ 50 | |
| | | | | max. 13x NYM-J | max. 5x6,0 mm ² | |



Flexible wall



Cross laminated timber floor

**Cross laminated timber floor EI90 and EI120, thickness ≥ 152,5 mm
(140 mm timber + 12,5 mm gypsum plasterboard)**

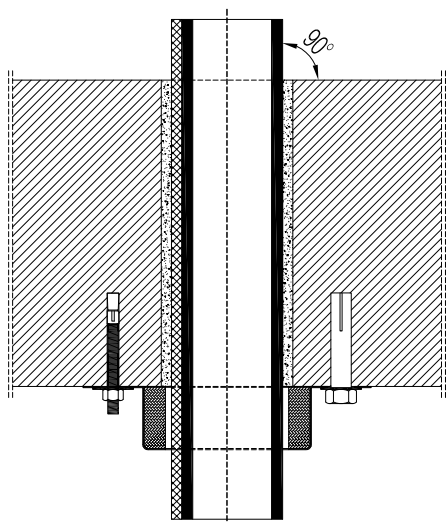
| Type | Gap (Pipe–Floor) | Mounting | Material | Pipe outside diameter [mm] | Insulations [mm] | | | | | |
|----------------|---|--|----------------------------------|----------------------------------|------------------|-----------|------------------------|-------------------------|----------------------------|---|
| | | | | | with- out | PE ≤ 4 | Elasto- mer ≤ 13 | Mineral wool ≤ 20 | Polyester fleece ≤ 4 | |
| Rorcol V30 | Mineral wool (Mel- ting point ≥ 1000°C, A1 acc. to EN 13501-1, Minimum compacted apparent density 40 kg/m³) and additional ≥ 10 mm AIR FIRE TECH fire protective gap filler | Chipboard screws ≥ 6x90 mm with ø 20 mm washers | PE | ≤ 125 | • | | | | | |
| | | | PP | ≤ 125 | • | | | | • | |
| Rorcol V60 | | | PE | ≤ 125 | • | | | | | |
| | | | PP | ≤ 125 | • | | | | | • |
| Rorcol AV60 | | | Multi-layer com- posite pipes | ≤ 63 | | | • | • | • | |

**Multiple penetration cross laminated timber floor EI90 and EI120, thickness ≥ 152,5 mm
(140 mm timber + 12,5 mm gypsum plasterboard)**

| Type | max. DN | Gap (Pipe–Floor) | Mounting | Material / Pene- trating element | Pipe dimensions [mm] | Insulations [mm] | | |
|-----------------|------------|---|--|--|----------------------------|------------------|------------|------------------|
| | | | | | | without | PE ≤ 10 | Elastomer ≤ 9 |
| Rorocol AV60 | 110 | Mineral wool (Mel- ting point ≥ 1000°C, A1 acc. to EN 13501-1, Minimum compacted apparent density 40 kg/m³) and additional ≥ 10 mm AIR FIRE TECH fire protective gap filler | Chipboard screws ≥ 6x90 mm with ø 20 mm washers | max. 4x multi- layer composite pipes | ≤ 26 | | • | • |

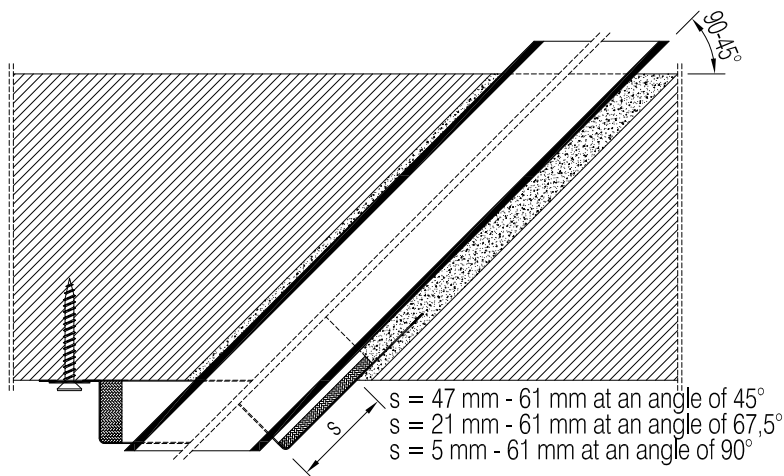
Additional information about penetration seals that is not included in this installation instruction will be given by the manufacturer on request.

11



RORCOL V30, RORCOL V60 or RORCOL AV60

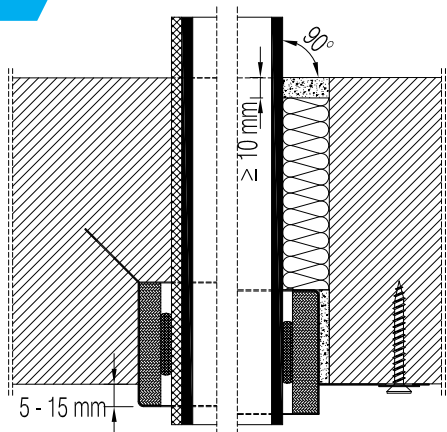
13



RORCOL V30 or RORCOL V60
max. Ø Plastic pipes with
plug-in sleeve: 110 mm
Pipes have to be uninsulated!

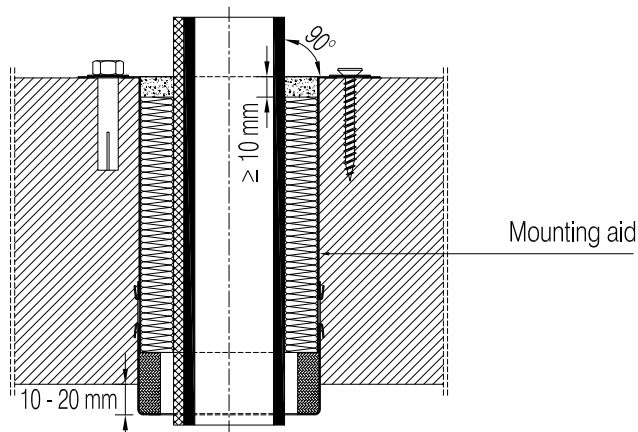
RORCOL V60
max. Ø Plastic pipes with
plug-in sleeve: 125 mm
Pipes have to be uninsulated!
Gap filled with 5-20 mm mortar

12



RORCOL V30, RORCOL V60 or RORCOL AV60
Gap between fire stop collar - pipe filled with
commercially available silicone sealant
Gap between pipe - floor filled with 5-30 mm
mineral wool (Melting point $\geq 1000^{\circ}\text{C}$, A1 acc. to
EN 13501-1, Minimum compacted apparent density
 40 kg/m^3) and additional
AIR FIRE TECH fire protective gap filler

14



RORCOL V30 or RORCOL V60
Gap between pipe - floor filled with 5-30 mm
mineral wool (Melting point $\geq 1000^{\circ}\text{C}$, A1 acc. to
EN 13501-1, Minimum compacted apparent density
 40 kg/m^3) and additional
AIR FIRE TECH fire protective gap filler

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

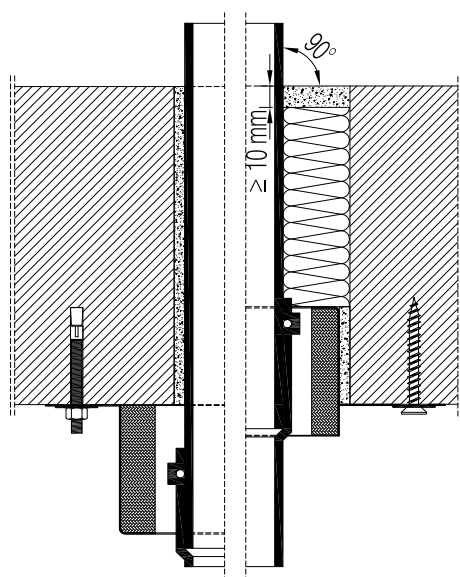
Rigid floor, thickness ≥ 150 mm

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

Multiple penetration rigid floor, thickness ≥ 150 mm

| Type | max. DN | Gap (Pipe-Floor) | Mounting | Material / penetrating element | Pipe dimension [mm] | Insulations [mm] | | |
|-------------|---------|--|--|-------------------------------------|---------------------|------------------|--------------|--------------------|
| | | | | | | with-out | PE ≤ 10 | Elastomer ≤ 9 |
| Rorcol AV60 | 110 | ≤ 10 mm, filled with AIR FIRE TECH fire protective gap filler or mortar | Metallic anchors or metallic plugs with screws $\geq M6$ or chipboard screws $\geq 6 \times 55$ mm (only for aerated concrete) | max. 7x multi-layer composite pipes | ≤ 26 | | • | • |

15



RORCOL V60

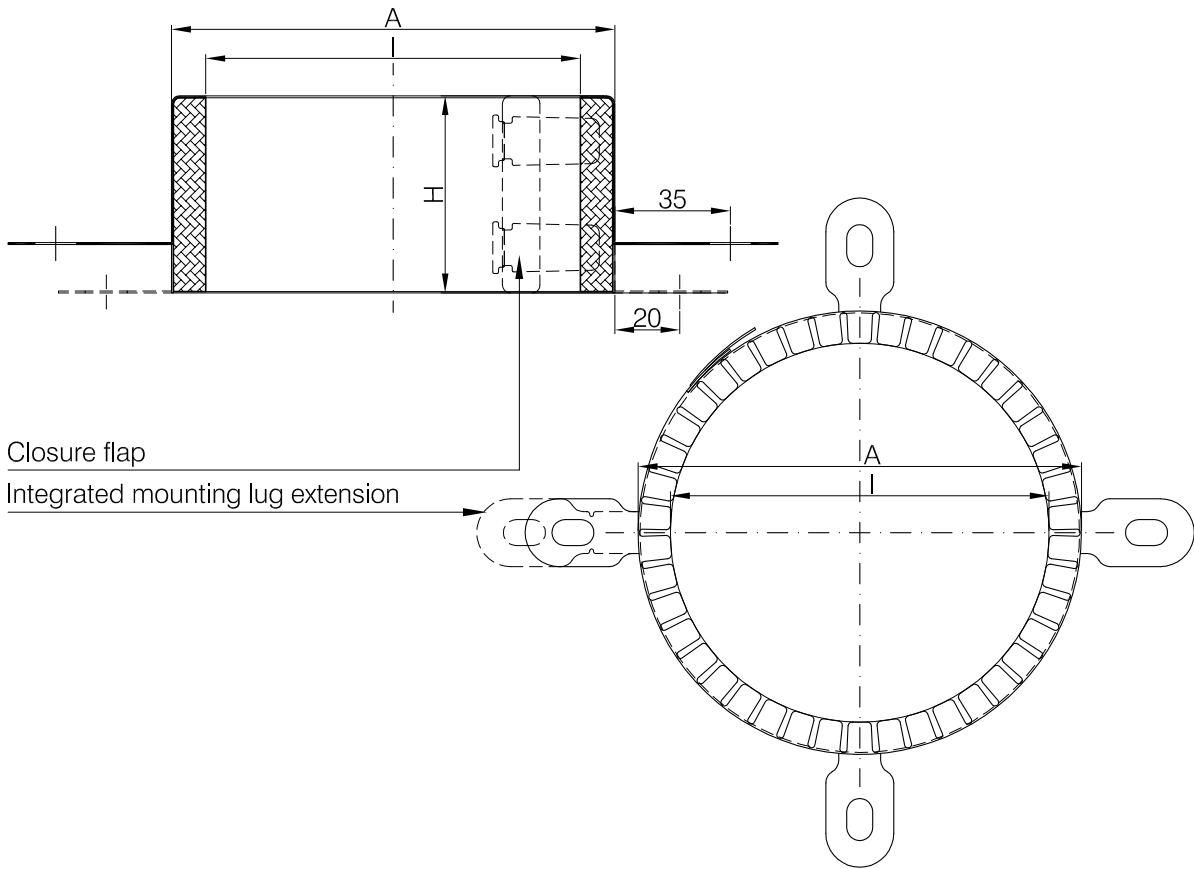
max. \varnothing Plastic pipes with plug-in sleeve: 125 mm

Pipes have to be uninsulated!

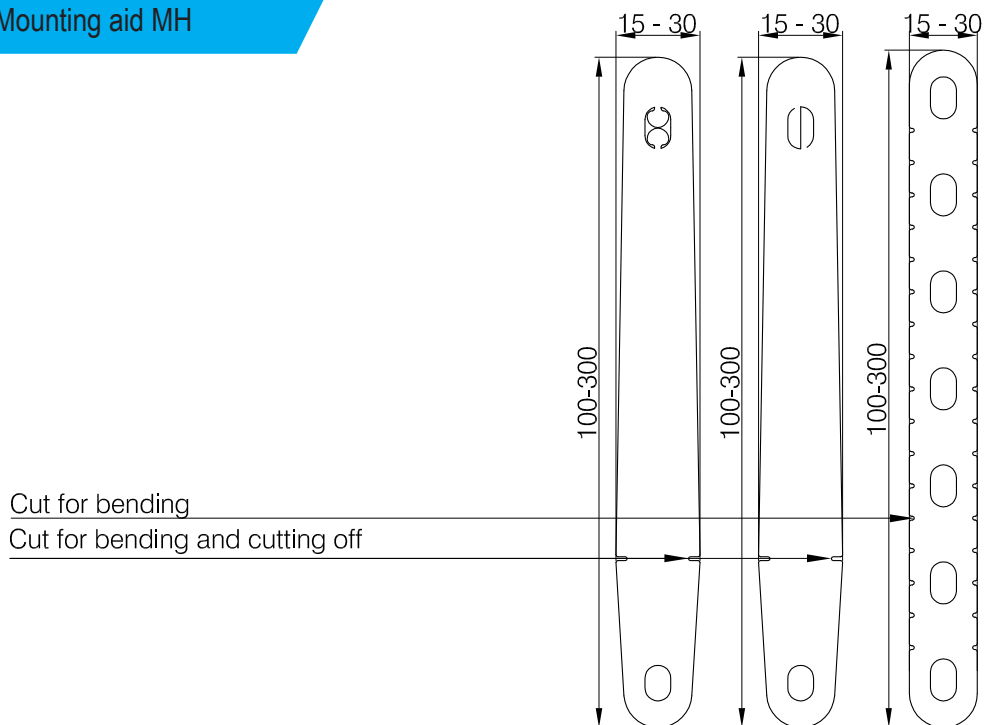
Gap between pipe - floor filled with 5-30 mm mineral wool (Melting point $\geq 1000^\circ\text{C}$, A1 acc. to EN 13501-1, Minimum compacted apparent density 40 kg/m^3) and additional

AIR FIRE TECH fire protective gap filler

Knauf Firecollar Rorcol



Mounting aid MH

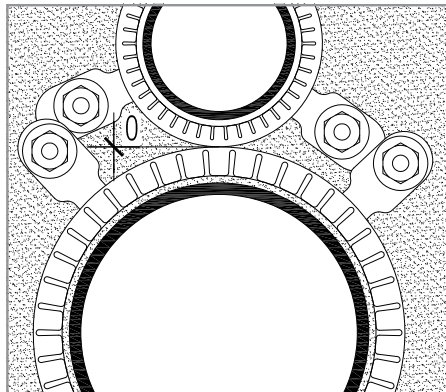


Firecollar

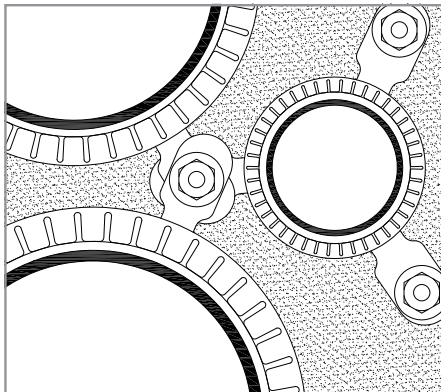
| Type | Field of application | Type | Outer diameter [A] [mm] | Inner diameter [I] [mm] | Number of mounting lugs | Article number | EAN Knauf AT |
|-----------------------------------|---|----------------|-------------------------|-------------------------|-------------------------|----------------|---------------|
| V30 EI90/EI120 U/U DN16-40 | for plastic sewage pipes | BRM/V30/DN40 | 55 | 44 | 3 | 527407 | 9002943077669 |
| V30 EI90/EI120 U/U DN50-56 | | BRM/V30/DN56 | 73 | 62 | 3 | 527408 | 9002943077676 |
| V30 EI90/EI120 U/U DN59-63 | | BRM/V30/DN63 | 85 | 68 | 3 | 527409 | 9002943077683 |
| V30 EI90/EI120 U/U DN75-80 | | BRM/V30/DN80 | 106 | 89 | 4 | 527410 | 9002943077690 |
| V30 EI90/EI120 U/U DN110 | | BRM/V30/DN110 | 137 | 116 | 4 | 527411 | 9002943077706 |
| V30 EI90/EI120 U/U DN125 | | BRM/V30/DN125 | 157 | 131 | 4 | 527412 | 9002943077713 |
| V30 EI90/EI120 U/U DN140 | | BRM/V30/DN140 | 178 | 146 | 4 | 527413 | 9002943077720 |
| V60 EI90/EI120 U/U, U/C DN50-56 | for plastic sewage pipes, extended and special applications | BRM/V60/DN56 | 73 | 62 | 3 | 527414 | 9002943077737 |
| V60 EI90/EI120 U/U, U/C DN59-63 | | BRM/V60/DN63 | 85 | 68 | 3 | 527417 | 9002943077744 |
| V60 EI90/EI120 U/U, U/C DN75-80 | | BRM/V60/DN80 | 106 | 89 | 4 | 527418 | 9002943077751 |
| V60 EI90/EI120 U/U, U/C DN110 | | BRM/V60/DN110 | 137 | 116 | 4 | 527419 | 9002943077768 |
| V60 EI90/EI120 U/U, U/C DN125 | | BRM/V60/DN125 | 157 | 131 | 4 | 527420 | 9002943077775 |
| V60 EI90/EI120 U/U, U/C DN135-140 | | BRM/V60/DN140 | 178 | 146 | 4 | 527422 | 9002943077782 |
| V60 EI90/EI120 U/U, U/C DN160 | | BRM/V60/DN160 | 198 | 167 | 5 | 527423 | 9002943077799 |
| V60 EI90/EI120 U/U, U/C DN180 | | BRM/V60/DN180 | - | - | - | 527424 | 9002943077805 |
| V60 EI90/EI120 U/U, U/C DN200 | | BRM/V60/DN200 | 243 | 207 | 6 | 527425 | 9002943077812 |
| V60 EI90/EI120 U/U, U/C DN250 | | BRM/V60/DN250 | 299 | 257 | 6 | 527426 | 9002943077829 |
| AV60 EI90/EI120 U/C DN16-40 | for multi-layer composite pipes, cables and metal pipes | BRM/AV60/DN40 | 55 | 42 | 3 | 527427 | 9002943077836 |
| AV60 EI90/EI120 U/C DN50-56 | | BRM/AV60/DN56 | 75 | 61 | 3 | 527428 | 9002943077843 |
| AV60 EI90/EI120 U/C DN59-63 | | BRM/AV60/DN63 | 85 | 71 | 3 | 527429 | 9002943077850 |
| AV60 EI90/EI120 U/C DN75-80 | | BRM/AV60/DN80 | 106 | 89 | 4 | 527433 | 9002943077867 |
| AV60 EI90/EI120 U/C DN110 | | BRM/AV60/DN110 | 137 | 116 | 4 | 527435 | 9002943077874 |
| AV60 EI90/EI120 U/C DN125 | | BRM/AV60/DN125 | 157 | 132 | 4 | 527436 | 9002943077881 |
| AV60 EI90/EI120 U/C DN140 | | BRM/AV60/DN140 | 178 | 147 | 4 | 527439 | 9002943077898 |
| AV60 EI90/EI120 U/C DN160 | | BRM/AV60/DN160 | 198 | 168 | 5 | 527440 | 9002943077904 |

Material of the housing: Nirosa

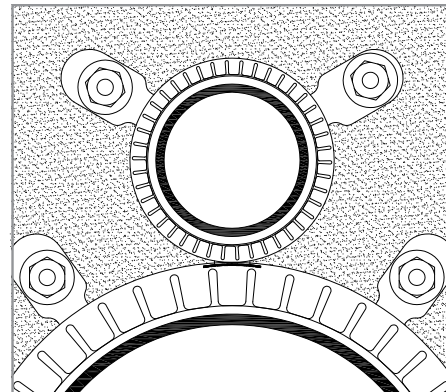
Knauf Firecollar Rorcol



Working clearance between fire stop collars ≥ 0 mm.



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



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

Knauf Firecollar Rorcol System components

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 extension

Fire protective gap filler - BMF



used to close the gap between separating and penetrating element

CE 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

DECLARATION OF PERFORMANCE

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

Fire stop collar RORCOL

- Unique identification code of the product-type:
Fire stop collar RORCOL V30, RORCOL V60, RORCOL AV60, fire protective gap filler BFM/K310
- 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
- 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
- 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
- Where applicable, name and contact address of the authorized representative whose mandate covers the tasks specified in Article 12(2): n.a.
- System or systems of assessment and verification of constancy of performance of the construction product as set out in Annex V: System 1
- In case of the declaration of performance concerning a construction product covered by a harmonised standard: n.a.
- 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.
- 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 ₁ | EOTA technical report TR 024 |
| Dangerous substances | None | Council Directive 67/548/EEC and Regulation (EC) no 1272/2008 |

- 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:

Wien, April 2014



AIR FIRE TECH
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)

Notes

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|--|--|
| <p>Knauf Sp. z o.o. Technical Department: Tel.: + 48 22 369 51 99</p> | <p>Knauf Sp. z o.o. Światowa 25, 02-229 Warszawa</p> |
| <p>www.knauf.pl serwis.techniczny@knauf.pl</p> | <p>Attaining the construction and physical characteristics of the Knauf systems will be possible if we ensure that only Knauf system elements are used or those recommended by Knauf.</p> |
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