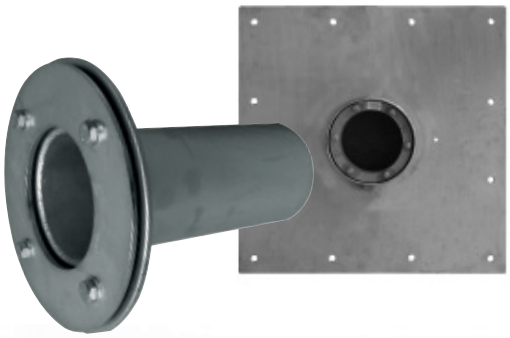
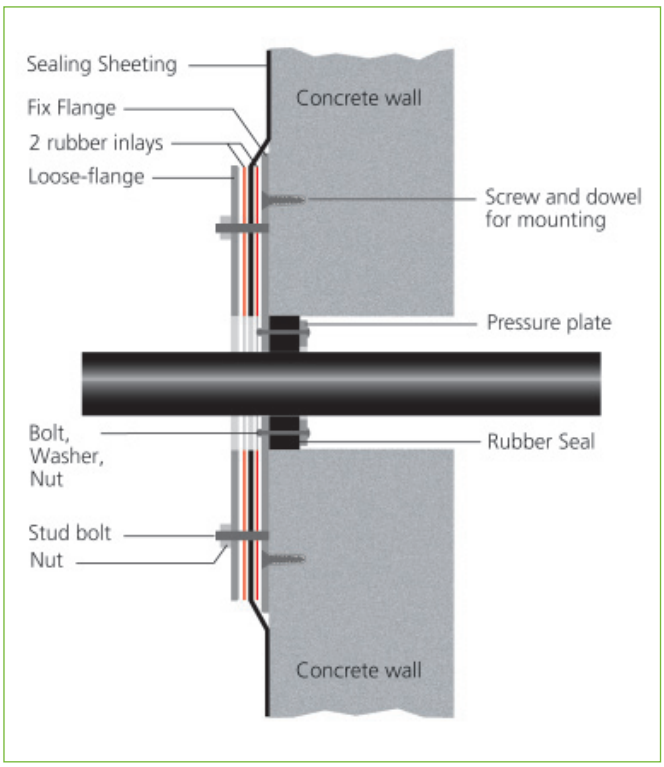
Pipeline Accessories

Fixed-Loose Flange
4 pipes



Pressio® Wall Penetration Seals and Wall Sleeves with Fixed-Loose Flange 4 pipes



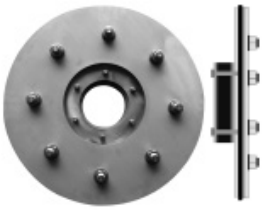
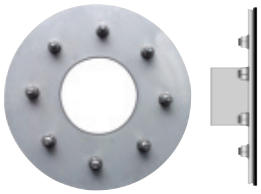
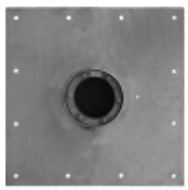
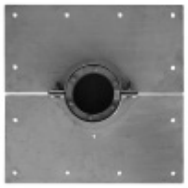
Product information

Wall penetration seals and wall sleeves with an integrated fixed-loose flange construction securely set the penetrated sealing sheeting of a building into the wall penetration to provide reliable sealing.

Two **rubber inlays** between the flanges are designed to securely seal plastic membranes. The fixed-loose-flange constructions comply with DIN 18533 for buildings with waterproofing membranes to withstand external water pressure (W2-E) or without external water pressure (W1-E, W3-E).
Alternative specifications available on request.

On-wall sleeves serve to form a sleeve in front of the wall. Here a new wall penetration seal can be applied.
All on-wall sleeves are supplied with screws, dowels and special sealing adhesive to seal towards the wall.

Example for wall penetration seal with fixed-loose flange

	**Pressio® seal with fixed-loose flange to withstand low external water pressure** (W1-E, W3-E) according to DIN 18533 for buildings with sealing sheeting, incl. screws and dowels for mounting **galvanized steel version**
	**Pressio® seal with fixed-loose flange to withstand high external water pressure** (W2-E) according to DIN 18533 for buildings with sealing sheeting, incl. screws and dowels for mounting **galvanized steel version**
	**wall sleeve with fixed-loose flange** (W1-E, W3-E) according to DIN 18533 for buildings with sealing sheeting **to withstand low external water pressure galvanized steel version**
	**wall sleeve with fixed-loose flange** (W2-E) according to DIN 18533 for buildings with sealing sheeting **to withstand high external water pressure galvanized steel version**
	**on-wall sleeve with fixed-loose flange** (W1-E, W3-E) according to DIN 18533 for buildings with sealing sheeting, incl. screws and dowels for mounting **to withstand low external water pressure galvanized steel version**
	**on-wall sleeve with fixed-loose flange** (W2-E) according to DIN 18533 for buildings with sealing sheeting, incl. screws and dowels for mounting **to withstand high external water pressure galvanized steel version**
	**on-wall sleeve, closed** incl. screws, dowels and sealing adhesive **galvanized steel version (Pressio® seal NOT included)**
	**on-wall sleeve, split** incl. screws, dowels and sealing adhesive **galvanized steel version (Pressio® seal NOT included)**

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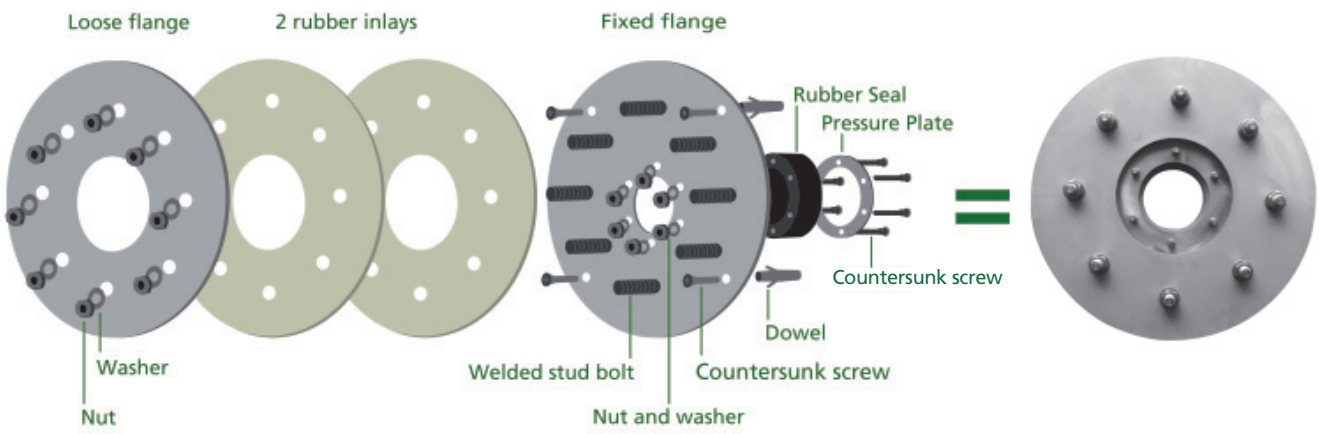
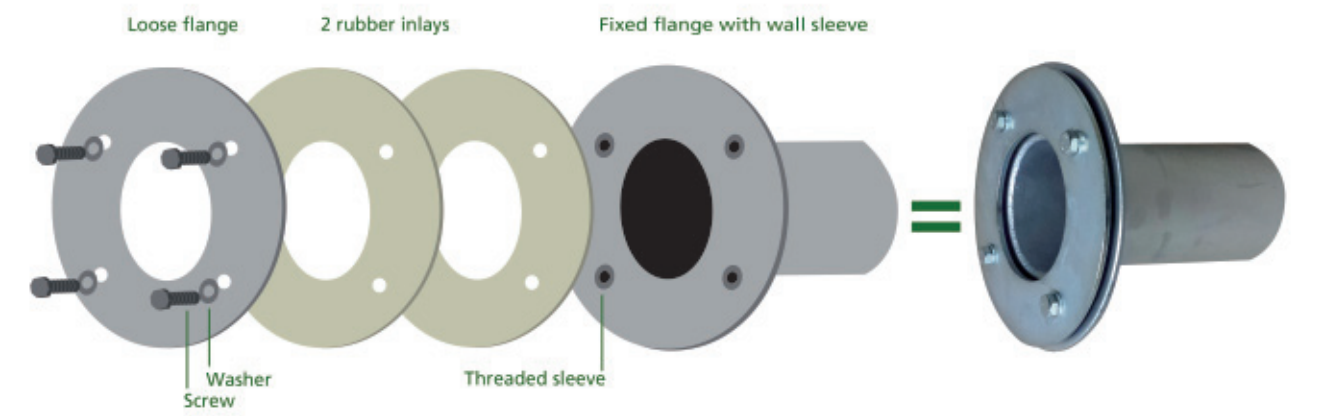
Pressio® Wall Penetration Seals and Wall Sleeves with Fixed-Loose Flange 4 pipes

Penetration seal with Fixed-Loose Flange

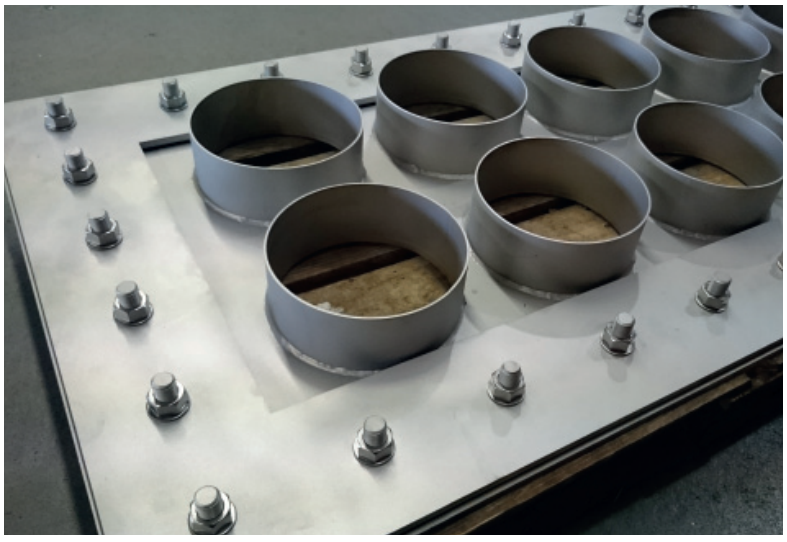


Wall Sleeve with Fixed-Loose Flange



Example of on-wall sleeve

Example with fixed-loose flange



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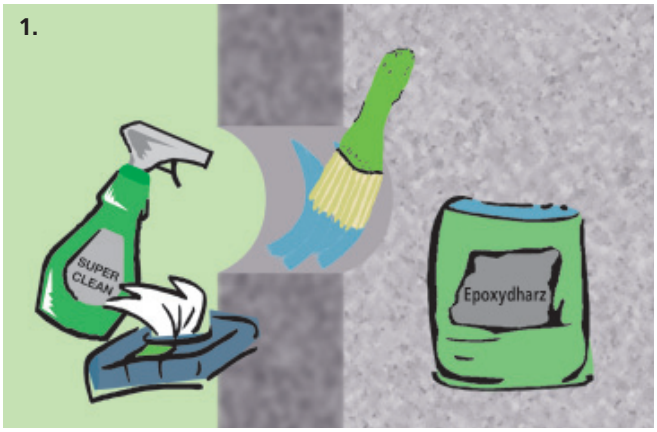
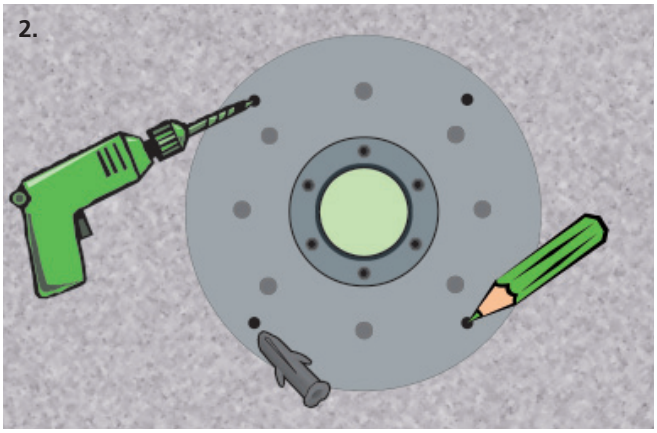
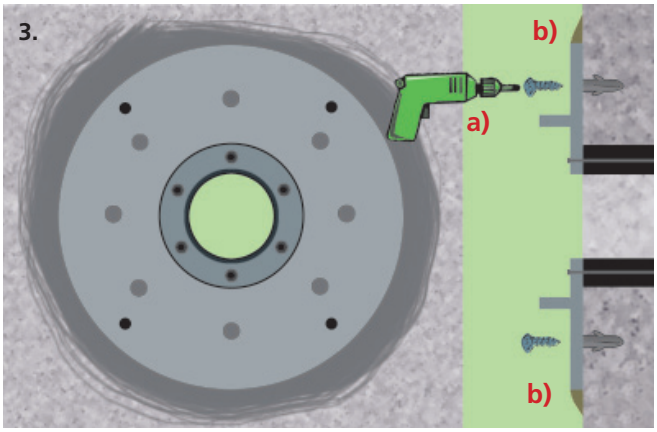
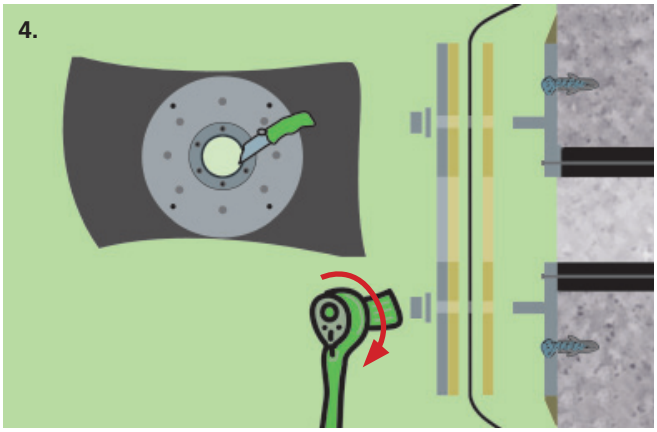
Application Instructions
Pressio® Seal with Fixed-Loose Flange 4 pipes









Requirements:

- The penetration seal with fixed-loose flange 4 pipes must be installed on a flat, smooth and load-bearing wall surface.
- The core hole and the wall surfaces must be clean. We recommend the Epoxy coating resin 4 pipes, which guarantees a high-quality coating on the concrete surface to repair any unevenness.
- Ensure that the fixed-loose flange construction is installed with a minimum distance of 30 cm to any outer wall edge and minimum 50 cm to structural wall joints (acc. to DIN 18533-1).

1. Preperation

a) Choose the position of the fixed-loose flange according to DIN 18533-1.
b) Clean the Pressio® seal with fixed-loose flange 4 pipes, the wall and the core hole. (free of oil and dust)
c) Level out any unevenness and allow to harden. (Recommendation: Epoxy coating resin 4 pipes)

2. Mark

a) Disassemble the loose flange.
b) Insert the fixed flange with the rubber seal into the core hole.
c) Turn the holes of the countersunk screws to the desired position and slightly tighten the rubber seal. (centering)
d) Mark the dowel holes.
e) Loosen and remove the fixed flange with rubber seal.
f) Drill dowel holes.
g) Blow dust out of the holes and insert dowels into the wall.

Dowel size	minimum edge distance in concrete
10 mm	50 mm
12 mm	60 mm

Origin: fischerwerke GmbH

3. Screwing

a) Clean the fixed flange and the rubber seal. Assemble them with the countersunk screws. (tighten firmly)
b) Use mortar to level the edge from the fixed flange to the wall.

Attention: A proper cleaning of the sealing surfaces is required!

4. Assembly and Cutting

a) Mount sealing sheeting, use the loose flange as a template and cut out the holes for the feed-through/ screws using a punching tool.
b) Mount the sealing sheeting on the hole pattern with the rubber inlays on both sides.
c) Assemble the loose flange and tighten the nuts according to DIN 18533-1 torque specification.

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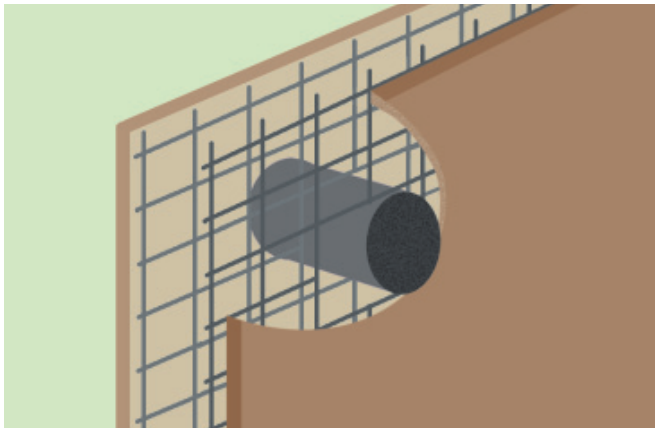
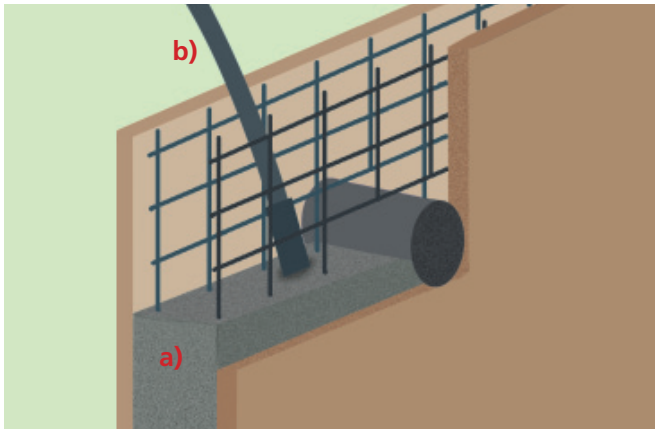
Application Instructions
Wall Sleeve with Fixed-Loose Flange 4 pipes



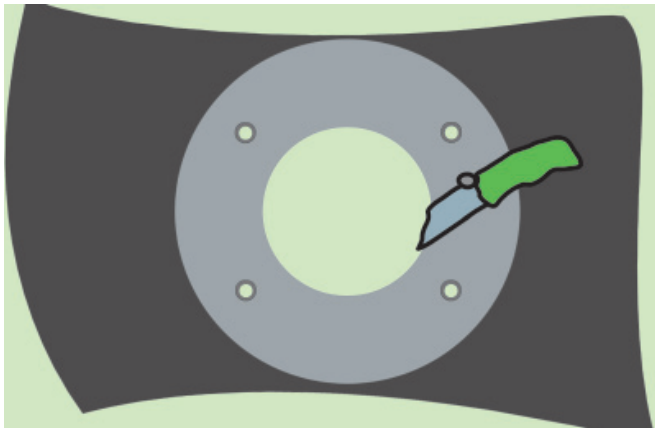
1. Preparation

a) Clean the fixed-loose flange. (free of oil and dust)
b) Choose the position of the fixed flange according to DIN 18533-1.
c) Integrate and place the fixed flange with the wall sleeve into the formwork.
(Use a pipe clamp or reinforcement for fixation of the wall sleeve. Not included in the delivery.)
d) Ensure that the fixed-loose flange construction is installed with a minimum distance of 30 cm to any outer wall edge and minimum 50 cm to structural wall joints (acc. to DIN 18533-1).



2. Concreting

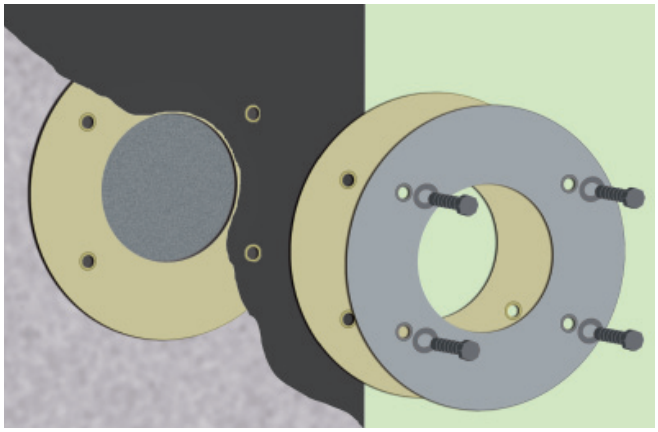
a) Pour concrete into the formwork.
b) Pay attention to the compaction around the wall sleeve.



3. Cutting

Cut the drill holes and the feed-through hole into the sealing sheeting. (Use the loose flange as a template)

Attention:
Ensure that the sealing sheeting under the flange is free of joints, wrinkles, etc.!



4. Assembling

a) First apply the rubber inlay on the fixed flange.
b) Mount the sealing sheeting.
(Attention: All drill holes must be aligned to each other!)
c) Assemble loose flange with rubber inlay, washers and the screws.
d) Assemble the loose flange and tighten the screws according to DIN 18533-1 torque specification.

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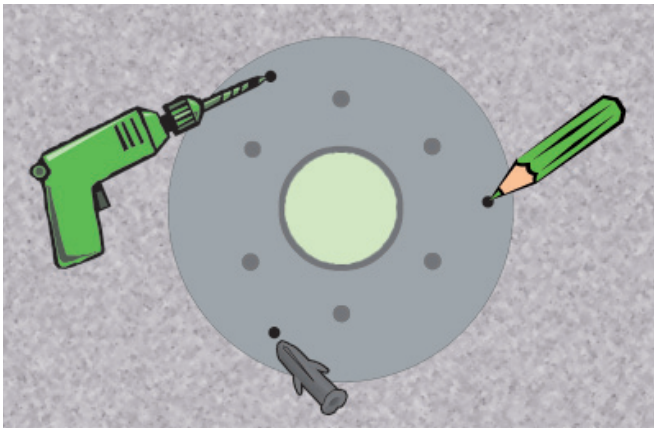
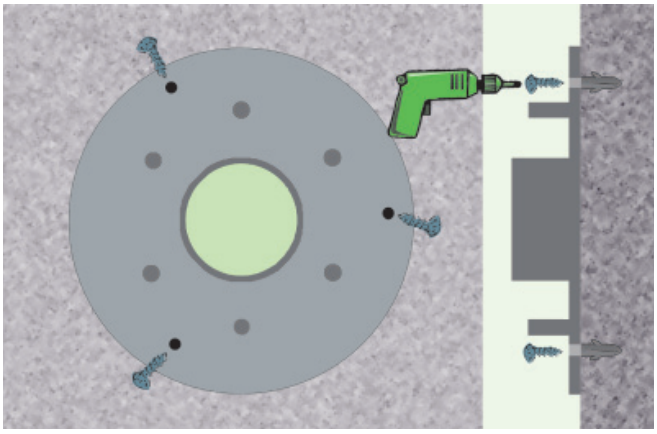
Application Instructions
On-wall Sleeve with Fixed-Loose Flange 4 pipes



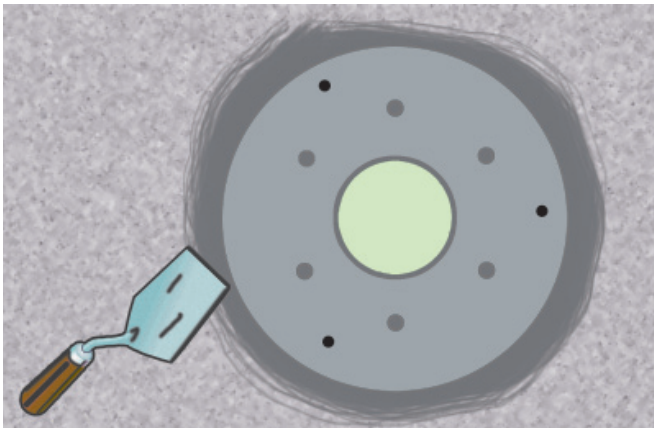
1. a) Choose the position of the on-wall sleeve according to DIN 18533-1.
b) Wall surface has to be clean and even.
c) Mark the dowel holes.
d) Drill dowel holes.
e) Blow dust out of the holes and insert dowels into the wall.

Dowel size	minimum edge distance in concrete
10 mm	50 mm
12 mm	60 mm

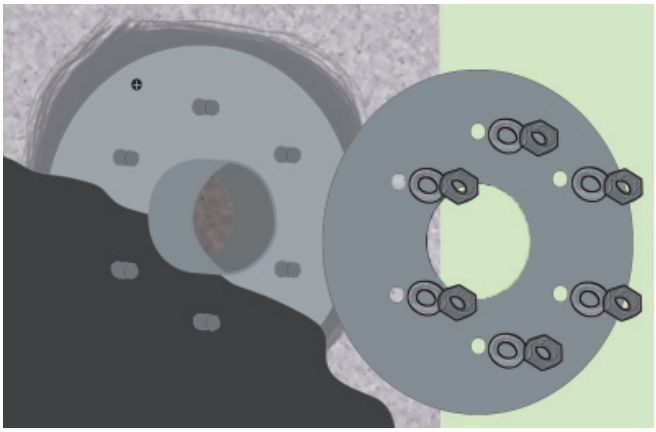
Origin: fischerwerke GmbH



2. Screw the fix on-wall sleeve with the supplied hexagon head screws to the wall.



3. Use mortar to level the edge from the fixed flange to the wall.



4. a) Put on the sealing sheeting, use the loose flange as a template and cut out the screw holes with a punching tool.
b) Mount the sealing sheeting on the hole pattern with the rubber inlays on both sides.
c) Assemble the loose flange and tighten the nuts according to DIN 18533-1 torque specification.

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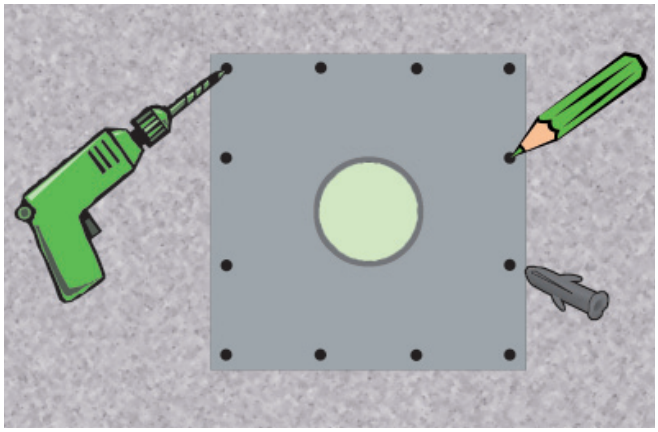
Application Instructions
On-wall Sleeve 4 pipes



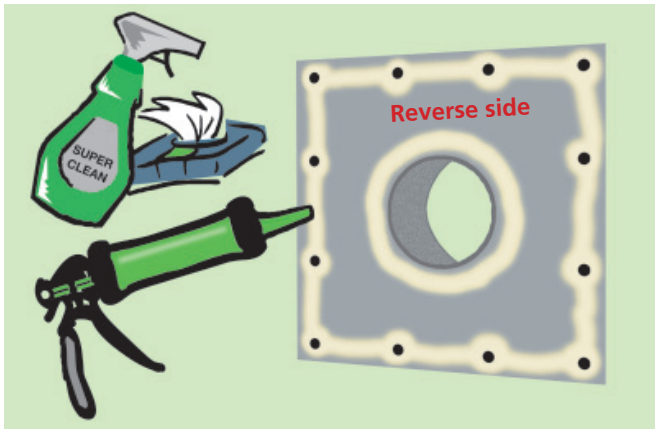
The front of the on-wall sleeve 4 pipes must be installed on a flat, smooth and load-bearing wall surface.

1. Preparation

a) Choose the position of the on-wall sleeve according to DIN 18533-1.
b) Mark the dowel holes.
c) Drill dowel holes.
d) Blow dust out of the holes and insert dowels into the wall.

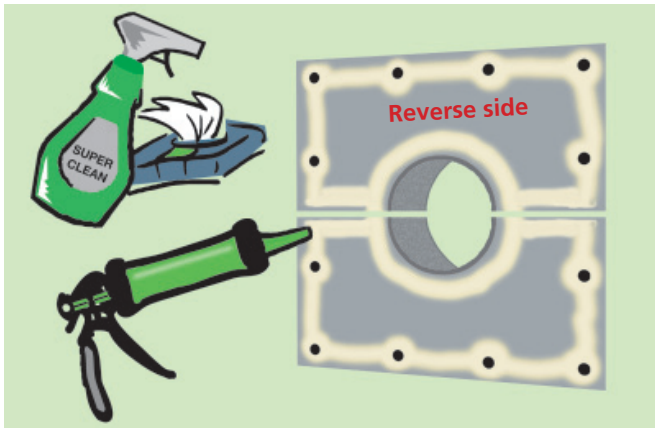
Dowel size	minimum edge distance in concrete
14 mm	70 mm

Origin: fischerwerke GmbH

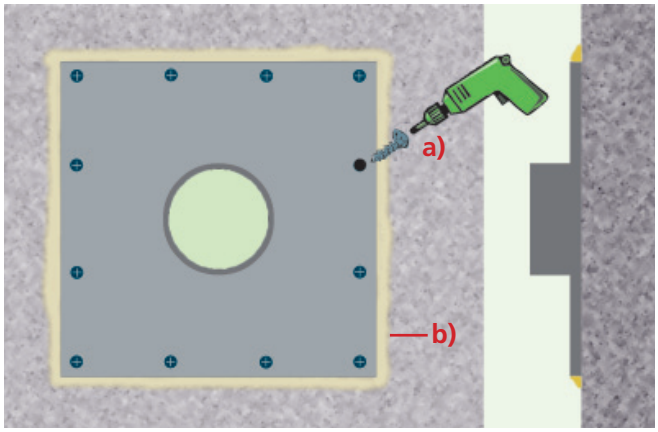


2. Gluing

a) Clean the adhesive on surface on the wall and the on-wall sleeve.
b) Apply the sealing adhesive evenly on the rear side of the wall sleeve plate. All openings on the wall side have to be sealed that way. (see image)



c) (Optional) In case of a split on-wall sleeve version: apply the adhesive on the surface and along the edges of the wall plates. (see image)



3. Assembling

a) Assemble on-wall sleeve and tighten screws.
b) Check adhesive sealant squeezes out evenly on all sides.

Attention: Please make an additional request for the wall penetration seal

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