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Installation instructions Roxtec H3 UG™ seal

Products

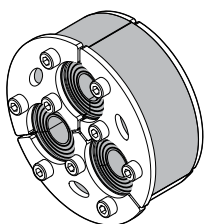


Fig. 1:
Roxtec H3 135 UG™

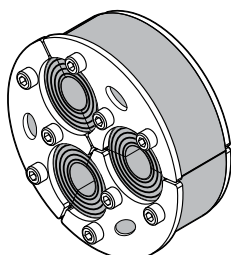


Fig. 2:
Roxtec H3 150 UG™

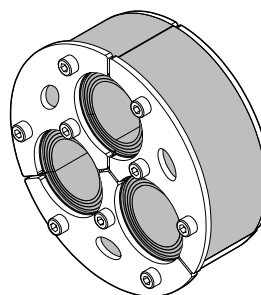


Fig. 3:
Roxtec H3 185 UG™

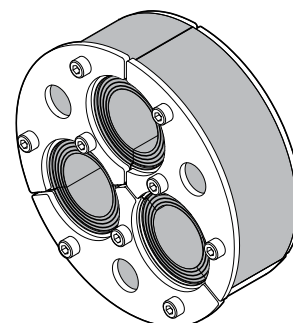
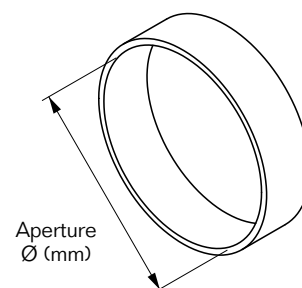
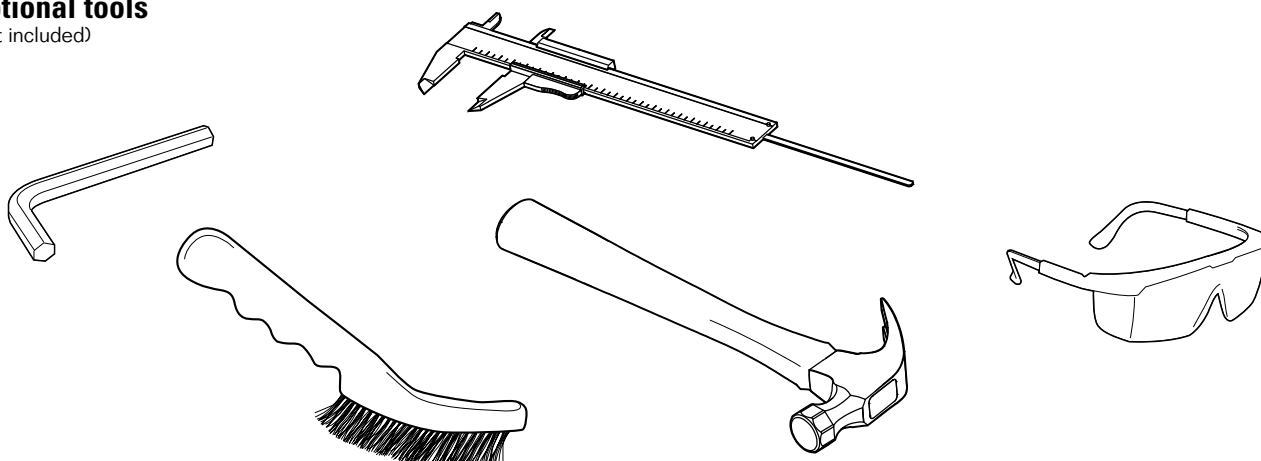


Fig. 4:
Roxtec H3 200 UG™

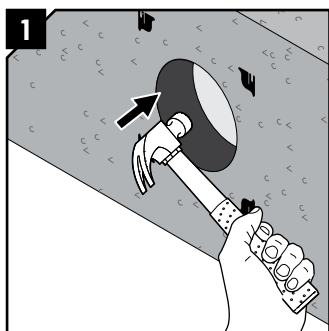
Type:	Aperture Ø (mm)	Clearance depth (mm)	Cable/pipe range Ø (mm)
H3 135 UG	135-140	75	0+23-43
H3 150 UG	150-155	75	0+24-52
H3 185 UG	185-190	75	0+48-64
H3 200 UG	200-205	75	0+48-68



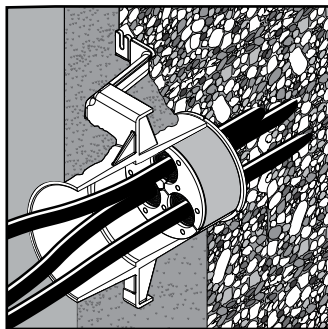
Optional tools (not included)



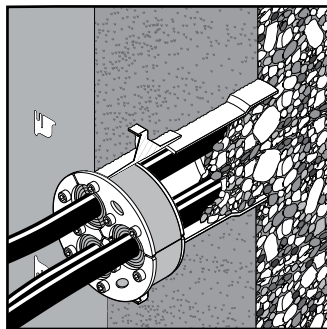
Installation in a Roxtec knock-out sleeve



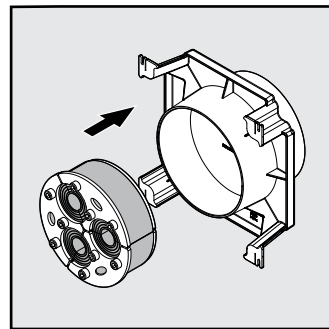
Remove the knock-out of the sleeve before inserting the seal.



The seal can be installed from the outside of the structure.

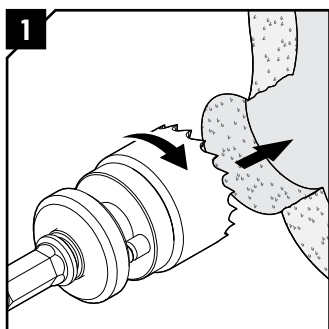


The seal can also be installed from the inside of the structure.



The seal must always be installed in the correct end of the knock out sleeve.

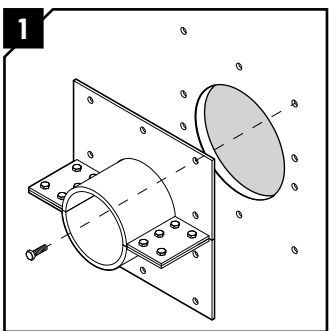
Installation in a core-drilled hole



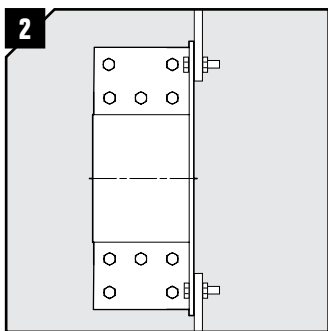
Installation of seal into a core-drilled hole. Use a hole saw with the appropriate diameter.

Installation in a bolted sleeve

For retrofit purposes an openable sleeve can be used.

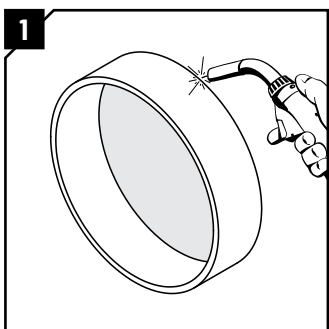


Use the flange as template for the drilling of the bolt holes.



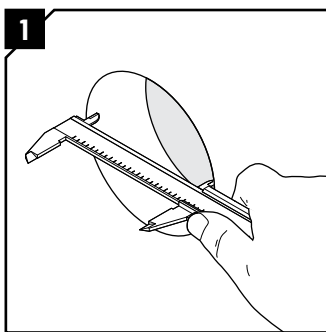
Attach the frame to the structure using suitable sealing method and suitable stainless fasteners.

Installation in a welded sleeve

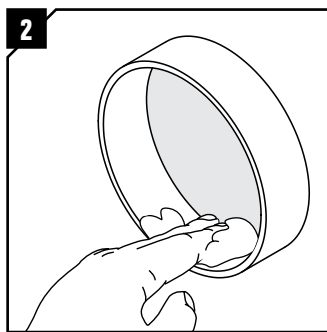


Weld the Roxtec sleeve to the cabinet/wall. Welding guidelines are available at www.roxtec.com.

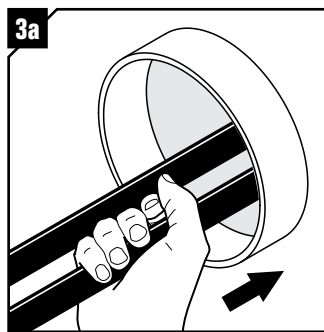
Installation



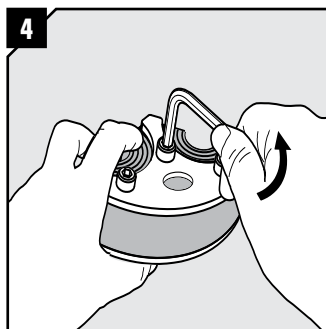
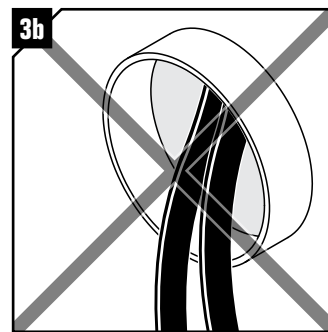
1 Measure the aperture according to the table on the first page.



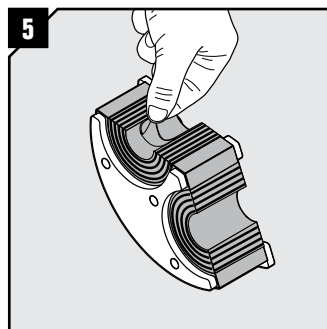
2 Remove any dirt from the sleeve/hole.



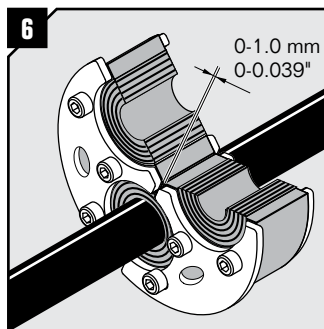
3a Pull the pipes/cables through. Cables shall go straight through the seal.



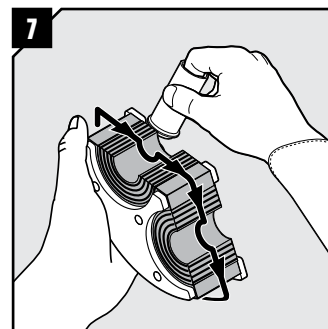
4 Make sure that the bolts of the seal are loose.



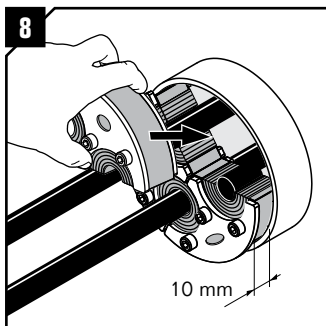
5 Adapt rubber layers to fit the cables.



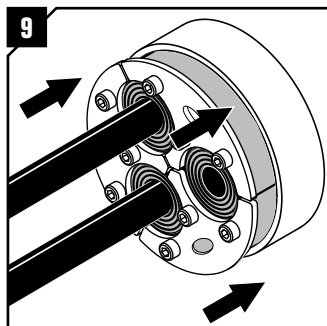
6 Test with a cable. Achieve a gap of 0-1.0 mm between the rubber halves. Adapt the layers for all cables. The halves may not differ by more than one layer.



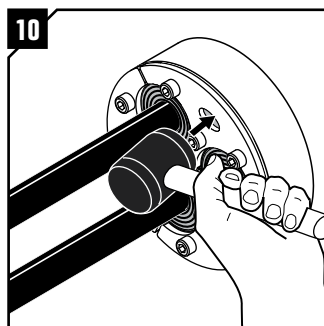
7 Lubricate the three parts of the seal all around.



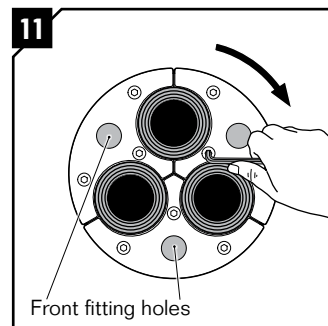
8 Insert the seal into the sleeve. Leave a 10 mm margin to simplify the installation of the last piece.



9 Press all three parts of the seal into the sleeve simultaneously.

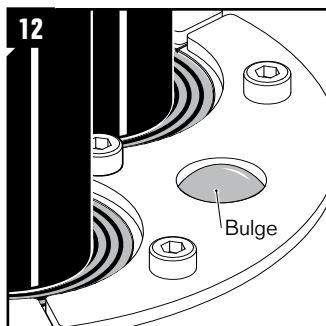


10 If necessary, use a rubber hammer.

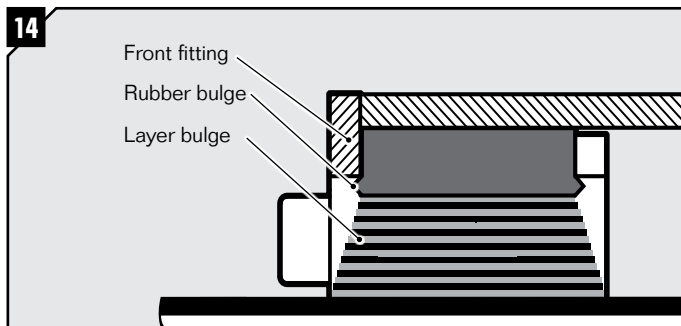
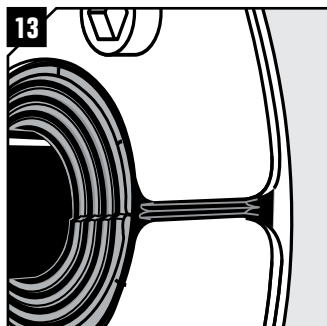


11 Tighten the screws crosswise one turn at a time. Start with the inner screws.

Signs of compressed seal

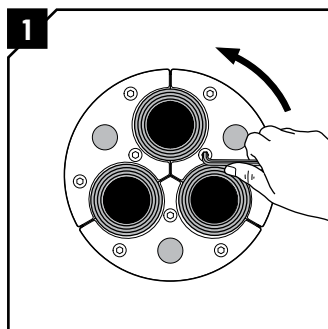


12 The seal is compressed when the rubber expands through the fittings and when the inner part bulges.

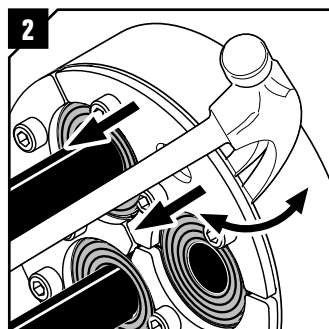


14 Sectional view of the seal showing when rubber expands and bulges. The required torque depends on several things, e.g cable or pipe size, amount of used lubricant, sleeve size or material in the cable sheath.

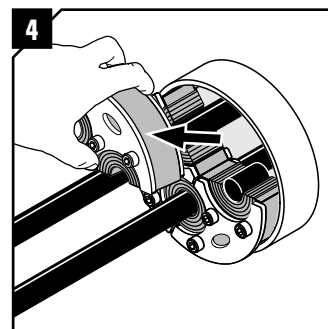
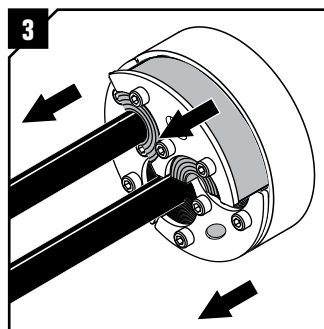
Disassembly



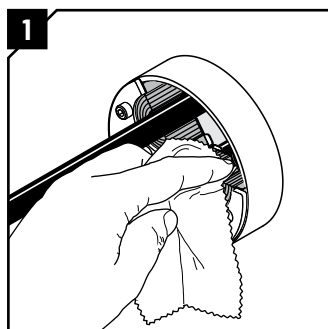
Release compression by untightening all the screws.



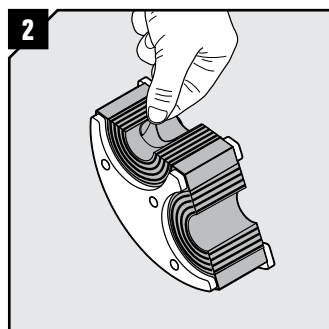
Use a suitable tool to remove the halves of the H3 seal. Be careful not to damage the seal.



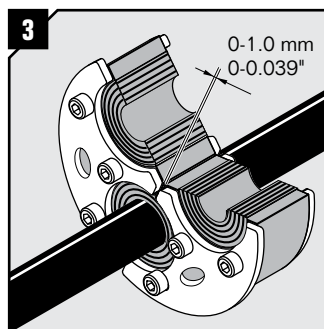
Reinstallation



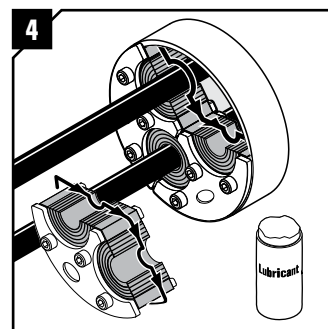
Make sure that the inside surfaces of the exposed packing space are free from dirt or dust.



Adapt halves, which are to hold the additional cables or pipes, by peeling off layers until you reach the gap seen in pic. 3. The number of layers may not differ by more than one between the halves.



Achieve a gap of 0-1.0 mm between the rubber halves. If not, repeat 2.



Lubricate the inside surfaces all around with Roxtec Lubricant, especially into the corners. Continue reinstallation from step 7.

Note

- Wait 24 hours or longer after installation before exposing the cables or pipes to strain or pressure.
- Temperature range +4 to +40 °C.
- Cables shall go straight through the seal.
- Cable/pipe with considerable weight needs to be supported to prevent damage or subsidence to the seal.
- Do not peel off the last rubber layer of each module half.

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(b) Installation shall be carried out in accordance with Roxtec installation instructions in effect from time to time.

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