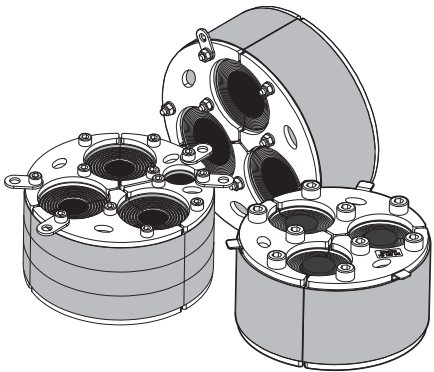


Installation instructions

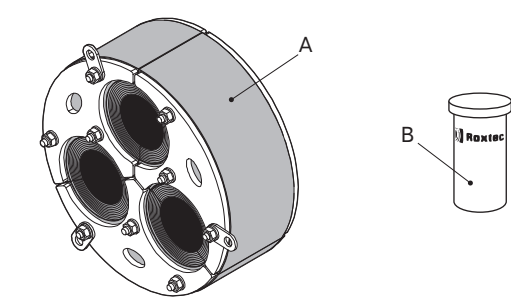
Roxtec H3 UG™ seal



Safety information

Roxtec recommends that all installations are performed without facility operation. Follow national regulations and installation codes. Any action affecting the routed service should be performed according to manufacturer recommendations.

Components



A. Roxtec H3 UG seal
B. Roxtec Lubricant

Technical data

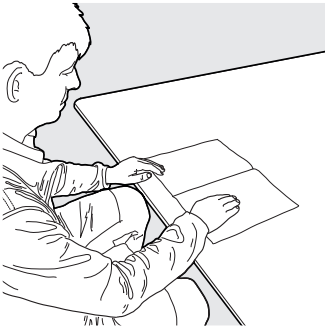
The amount of torque needed to compress the seal depends on several things, e.g cable or pipe size, amount of used lubricant, aperture size or material in the cable sheath, etc.

Name	Aperture dimension Ø (mm)	For cable/pipe Ø (mm)	Torque (Nm)	Tool size (mm)
H3 135 UG	135 – 138	23 – 43	max17	6
H3 150 UG	150 – 153	24 – 52	max17	13
H3 185 UG	185 – 188	48 – 64	max17	6
H3 200 UG	200 – 203	39 – 68	max17	13
H3+1 150 UG	150 – 153	10 – 53	max7	5
H3+1 200 UG	200 – 203	10 – 68	max7	10
H3 250 UG WOC	250 – 253	55 – 88	max17	13

Tools

- Allen key (not included)
- Spanner (not included)
- Caliper (not included)
- Brush (not included)
- Hammer (not included)

Additional information



Additional information is available, such as drawings, apertures, videos, ratings and certificates.



Scan QR code or visit roxtec.com for additional information.

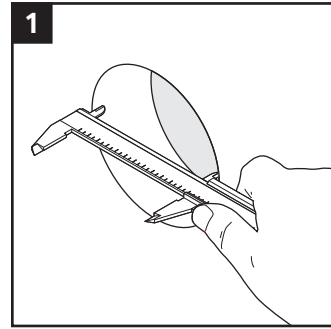
Note

- For optimum reliability, wait 24 hours or longer after installation before exposing the cables/pipes to strain or pressure.
- Cables/pipes shall go straight through the frame.
- Cable/pipe with a considerable weight needs to be supported to prevent damage or subsidence to the seal.
- Approvals or certificates may include amendments or limitations related to this application.
- A seal with core is spare capacity.
- Tabs may be used as a help to verify full insertion of the seal into the aperture. Their use is optional.
- For inserted installations, the tabs shall be folded inward.
- Tabs shall not be mechanically attached to the structure.
- The latest version of this and related documents are found at roxtec.com.

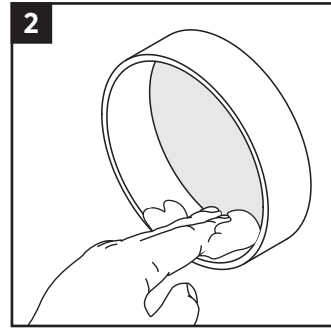
To be installed in

- Knock-out sleeve
- Core-drilled hole
- Non-perpendicular hole
- Bolted sleeve
- Welded sleeve

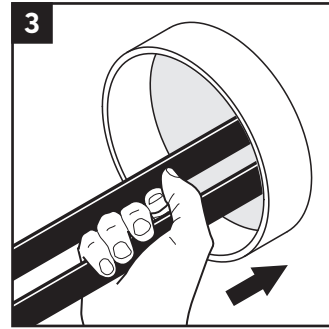
Installation



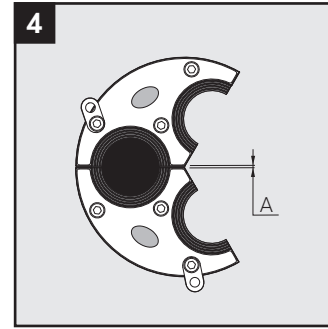
Make or verify an aperture.



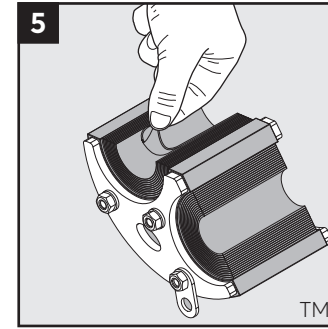
Clean the aperture from any residues.



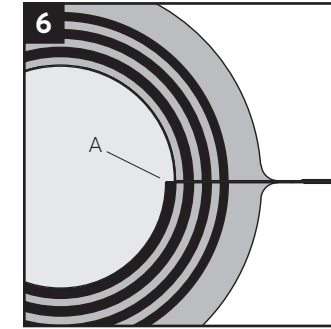
Pull the cables/pipes straight through the aperture.



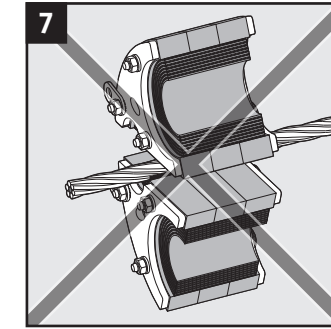
Achieve a gap of 0-1.0 mm (A) between the parts for all cables/pipes.



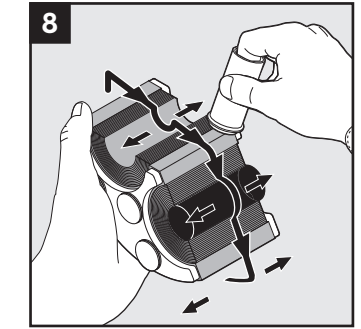
Adapt the seal by peeling off layers. Do not peel off the last layer.



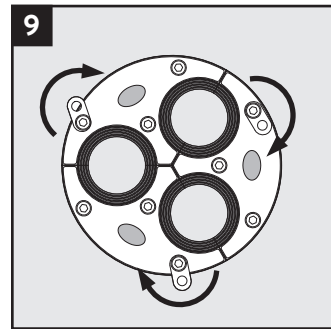
The number of layers may not differ (A) by more than one between the corresponding seal parts.



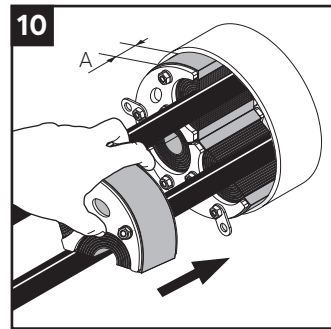
Irregular shaped ground wires or cables are not allowed.



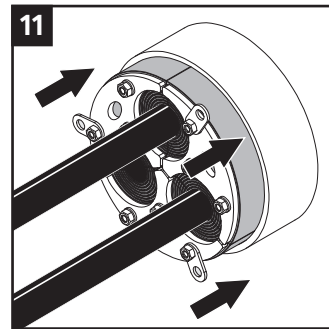
Lubricate all parts of the seal all around. Lubricate the sealing surface on remaining cores.



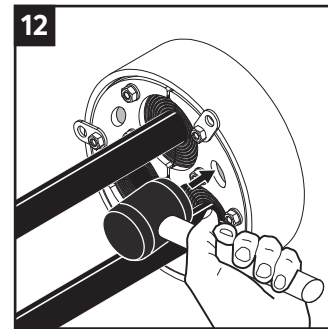
Tabs can be folded inwards/outwards depending on the installation type (see note).



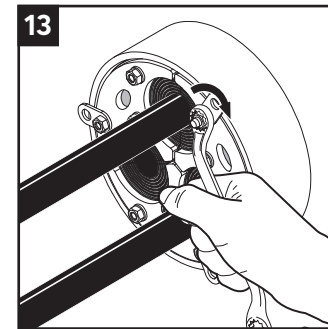
Insert the seal parts into the sleeve. Leave a 10 mm margin (A) to simplify installation.



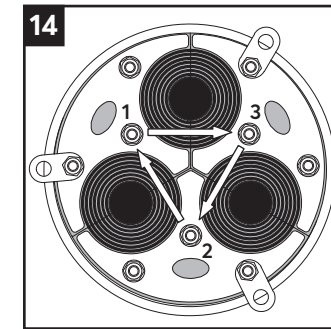
Press all three parts of the seal into the sleeve simultaneously.



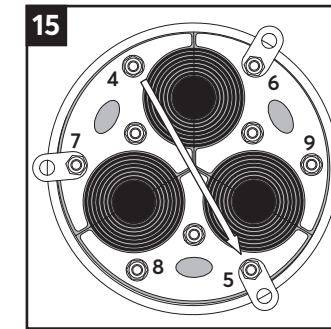
In small apertures, a hammer can be used to position the seal.



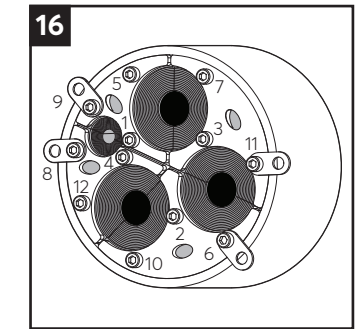
Fully tighten the nuts crosswise in small steps.



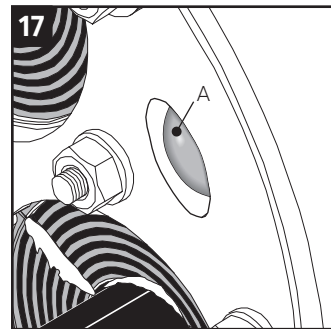
Tighten the inner nuts partially.



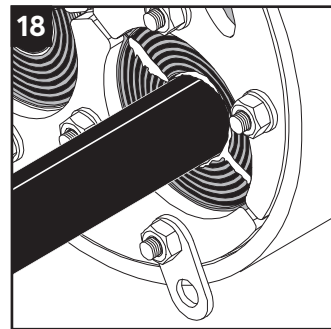
Tighten the outer nuts partially, and then continue with the inner nuts.



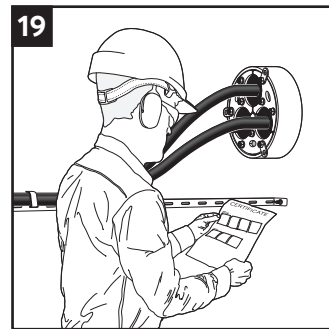
Tightening order for Roxtec H3+1 seal.



The inner rubber part shall create a visible bulge (A) in each hole.



Excessive visible lubricant is a sign of good compression.

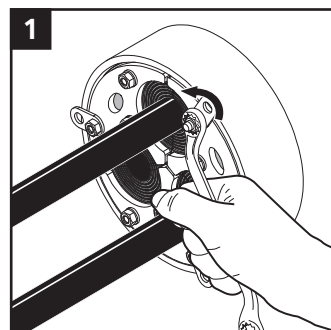


Make a final check! Different approvals or certificates may include amendments or limitations related to this application.

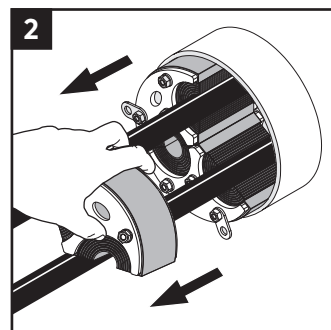
After installation inspection

- Are the screws tightened evenly?
- Are the layers peeled correctly?
- Is lubricant protruding?
- Is the rubber bulging?

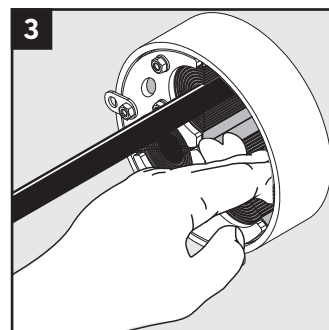
Disassembly and reinstallation



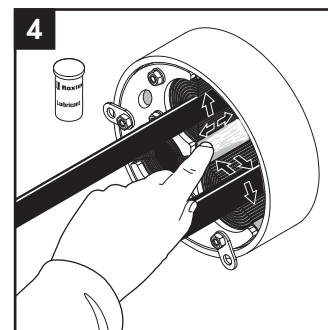
Untighten the nuts crosswise in small steps. Make sure the nuts are completely loose.



Remove the seal parts needed.



Clean the exposed sealing surfaces.



Lubricate the exposed sealing surfaces. Continue the reinstallation.

Disclaimer

*The Roxtec cable and pipe entry sealing system ('the Roxtec system') is a modular-based system of sealing products consisting of different components. Each and every one of the components is necessary for the best performance of the Roxtec system. The Roxtec system has been certified to resist a number of different hazards. Any such certification, and the ability of the Roxtec system to resist such hazards, is dependent on all components that are installed as a part of the Roxtec system. Thus, the certification is not valid and does not apply unless all components installed as part of the Roxtec system are manufactured by or under license from Roxtec ('authorized manufacturer'). Roxtec gives no performance guarantee with respect to the Roxtec system, unless (I) all components installed as part of the Roxtec system are manufactured by an authorized manufacturer and (II) the purchaser is in compliance with (a), and (b), below.

(a) During storage, the Roxtec system or part thereof, shall be kept indoors in its original packaging at room temperature.

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

The product information provided by Roxtec does not release the purchaser of the Roxtec system, or part thereof, from the obligation to independently

determine the suitability of the products for the intended process, installation and/or use.

Roxtec gives no guarantee for the Roxtec system or any part thereof and assumes no liability for any loss or damage whatsoever, whether direct, indirect, consequential, loss of profit or otherwise, occurred or caused by the Roxtec systems or installations containing components not manufactured by an authorized manufacturer and/or occurred or caused by the use of the Roxtec system in a manner or for an application other than for which the Roxtec system was designed or intended.

Roxtec expressly excludes any implied warranties of merchantability and fitness for a particular purpose and all other express or implied representations and warranties provided by statute or common law. User determines suitability of the Roxtec system for intended use and assumes all risk and liability in connection therewith. In no event shall Roxtec be liable for indirect, consequential, punitive, special, exemplary or incidental damages or losses.

The Roxtec products are offered and sold in accordance with the conditions of the Roxtec General Terms of Sales. The latest version of the Roxtec General Terms of Sales can be found and downloaded from roxtec.com/general-terms-of-sales.



Roxtec International AB
Box 540, 371 23 Karlskrona, SWEDEN
+46 455 36 67 00, info@roxtec.com
www.roxtec.com