Roxtec

Installation instructions
Roxtec H3 UG™ seal
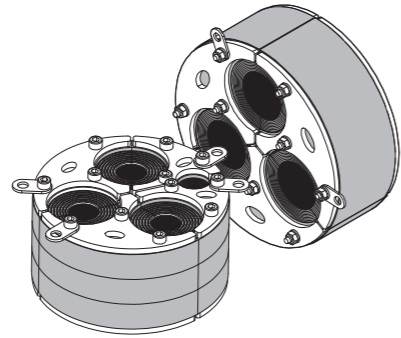
Components
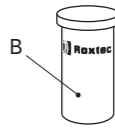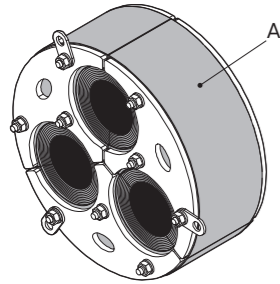
A. Roxtec H3 UG seal
B. Roxtec Lubricant

Additional information

Scan QR code or visit roxtec.com for additional information, such as drawings, apertures, videos, ratings and certificates.

Technical data

Name	Aperture dimension Ø (mm)	For cable/pipe Ø (mm)	Torque (Nm)	Tool size (mm)
H3 135 UG	135 – 138	23 – 43	6 – 9	6
H3 150 UG	150 – 153	24 – 52	6 – 9	6
H3 185 UG	185 – 188	48 – 64	6 – 9	6
H3 200 UG	200 – 203	48 – 68	6 – 9	6
H3+1 150 UG	150 – 153	10 – 53	6 – 9	10
H3+1 200 UG	200 – 203	10 – 68	6 – 9	10

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.

Note

- For optimum reliability, wait 24 hours or longer after installation before exposing the cables/pipes to strain or pressure.
- Cables/pipes shall be parallel to the sleeve/aperture.
- 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.
- The latest version of this and related documents are found at roxtec.com.
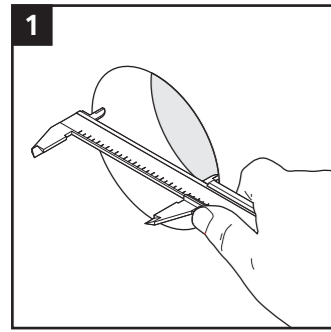
To be installed in

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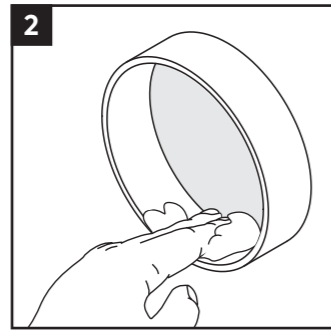- Non-perpendicular hole
- Bolted sleeve
- Welded sleeve

Tools

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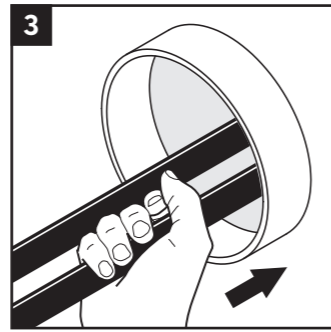- Caliper (not included)
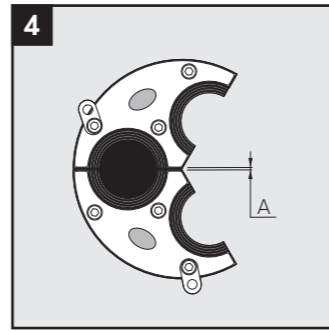- Brush (not included)

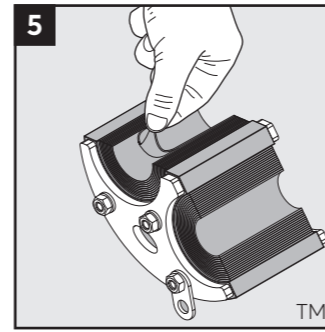# Installation

1 Make or verify an aperture.

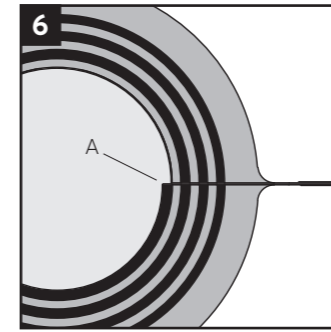**2** Clean the aperture from any residues.

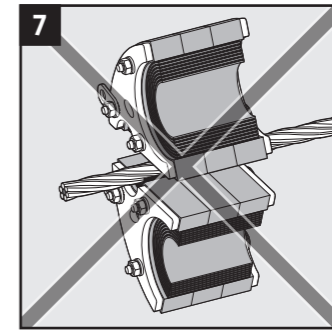**3** Pull the cables/pipes straight through the aperture.

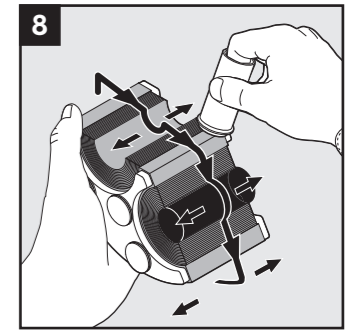**4** Achieve a gap of 0-1.0 mm (A) between the parts for all cables/ pipes.

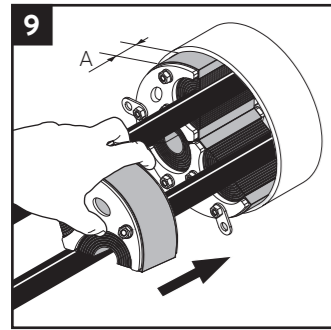**5** Adapt the seal by peeling off layers.

6 The number of layers may not differ (A) by more than one between the corresponding seal parts.
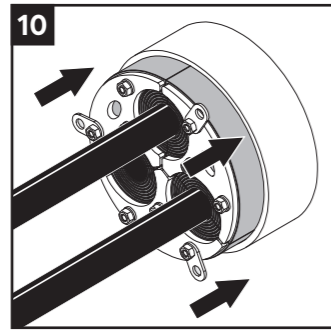
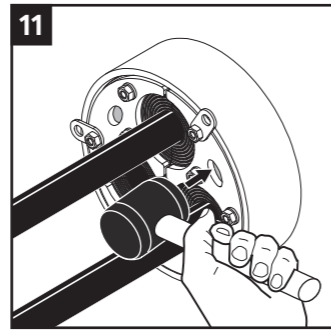**7** Irregular shaped ground wires or cables are not allowed.

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

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

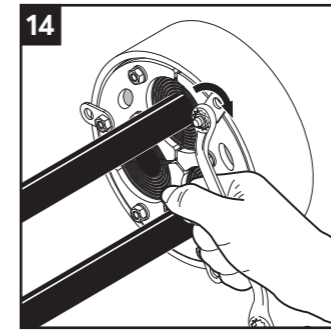**10** Press all three parts of the seal into the sleeve simultaneously.

11 In small apertures, a hammer can be used to position the seal.
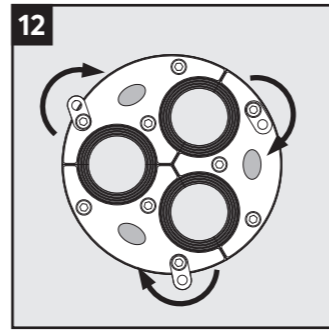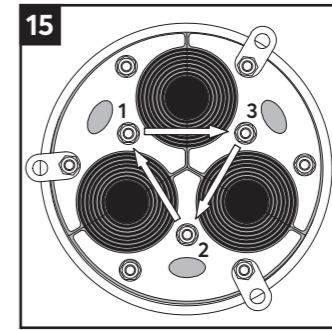
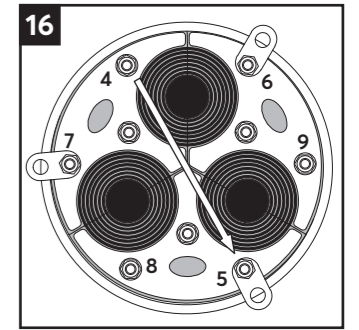**12** When the aperture is not perpendicular to the wall, fold in the tabs.
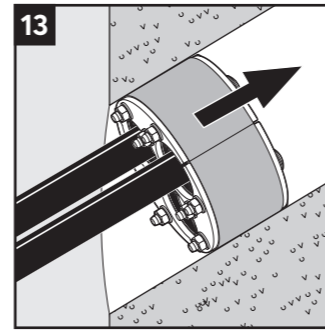
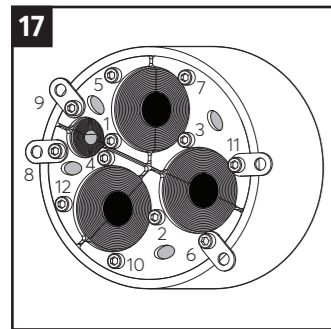**13** Insert the seal in the non perpendicular aperture.

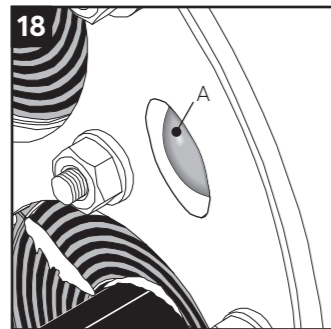**14** Fully tighten the nuts crosswise in small steps.
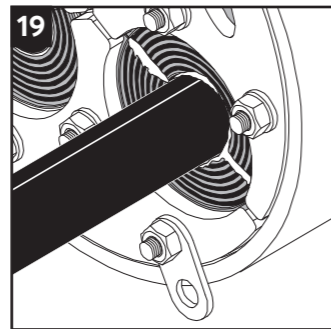
15 Tighten the inner nuts partially.

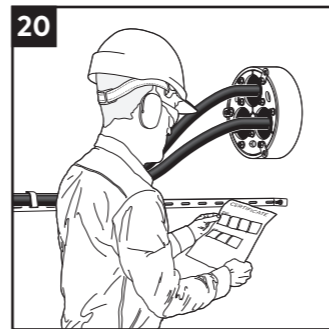**16** Tighten the outer nuts partially, and then continue with the inner nuts.

17 Tightening order for Roxtec H3+1 seal.

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

19 Excessive visible lubricant is a sign of good compression.
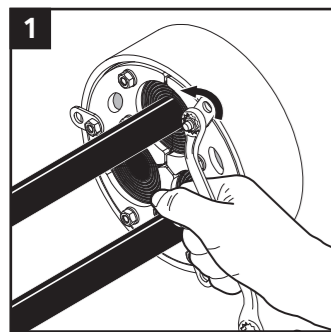
20 Make a final check! Different approvals or certificates may include amendments or limitations related to this application.
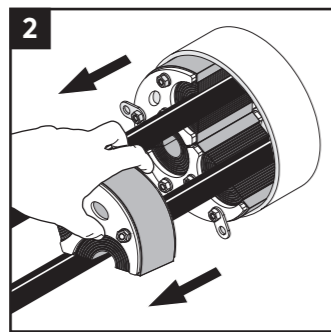
After installation inspection

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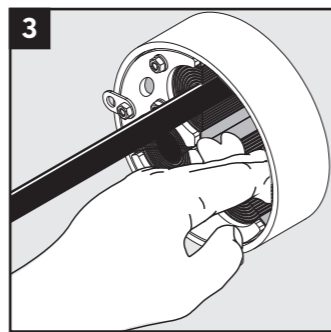- Is lubricant protruding?
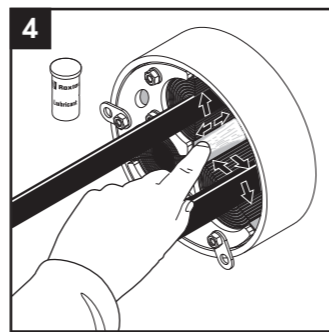- Is the rubber bulging?

Disassembly and reinstallation

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

2 Remove the seal parts needed.

3 Clean the exposed sealing surfaces.

4 Lubricate the exposed sealing surfaces. Continue the reinstallation.