Roxtec

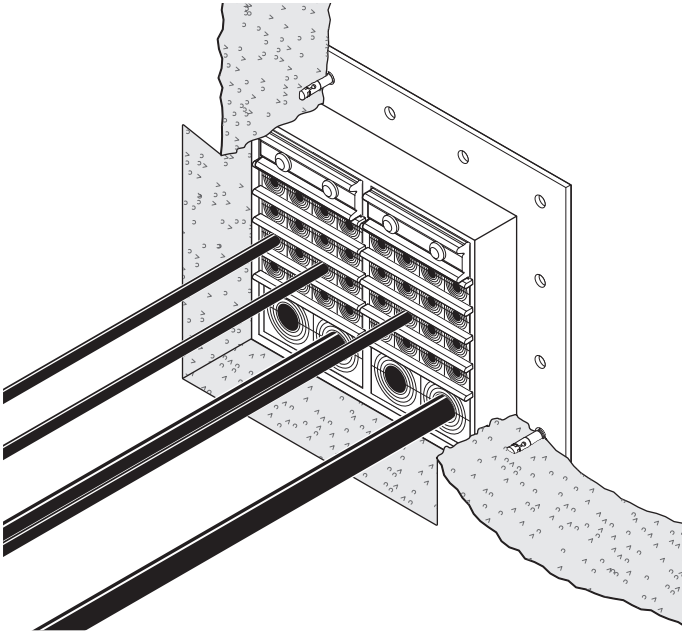## Fire insulation guidelines for land–based applications
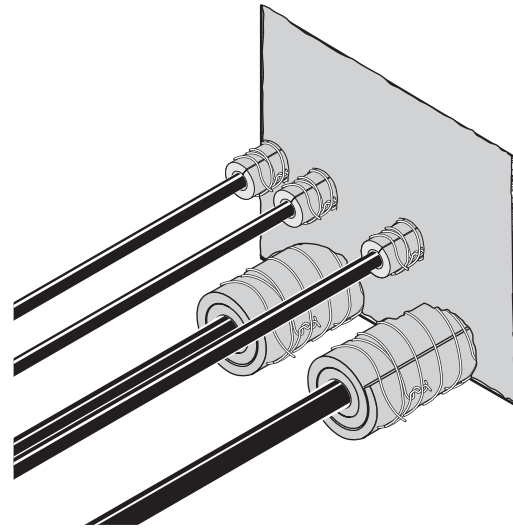
General information

See specific information about dimensions, type of insulation etc. according to your required fire certification.

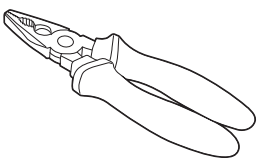Wire mesh must be of stainless steel type, if used.
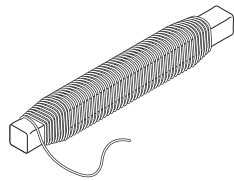

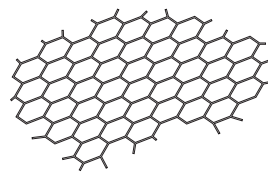Before fire insulation installation.

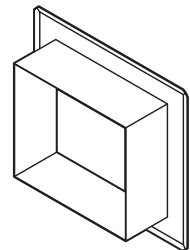

Complete installation of fire insulation.
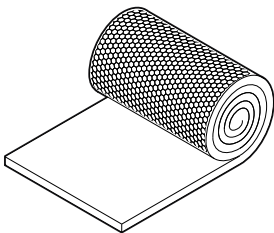
Parts / tools
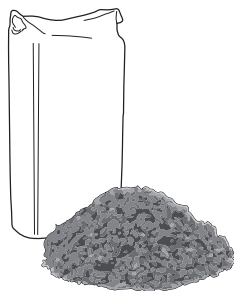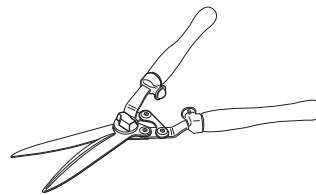

Pliers

Steel wire

Wire mesh

Extension frame
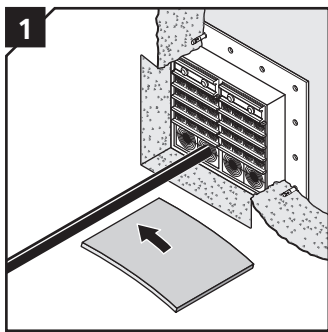

Insulation sheet A1 class (100kg/m3)
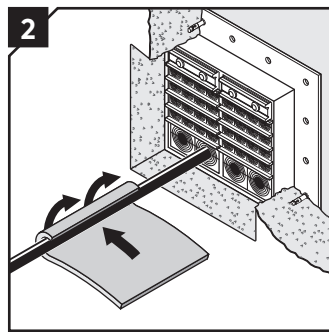

Loose wool insulation A1 class

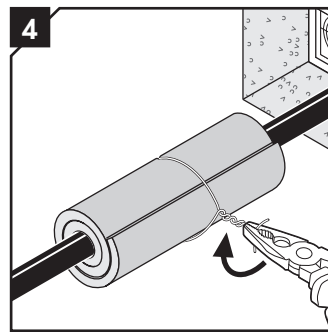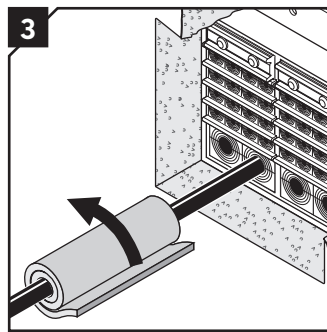Hedge clippers

Installation of fire insulation

Check the certificate for required insulating thickness for each cable/pipe.
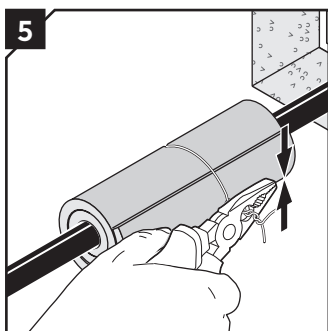
1

Cut a sheet of insulation to the correct size according to insulation drawing/certification drawing.
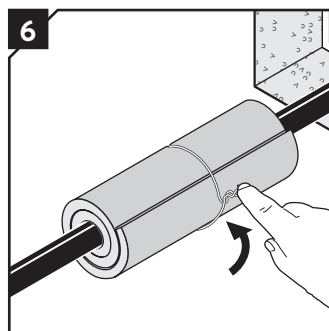
2

Wrap the sheet of insulation around the cable/pipe. Thickness of insulation according to insulation drawing.
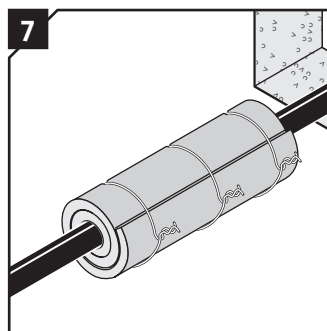
3

4
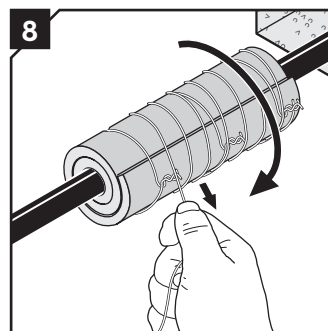
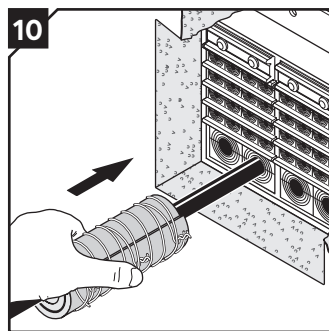Secure the insulation to the cable/pipe using steel wire.
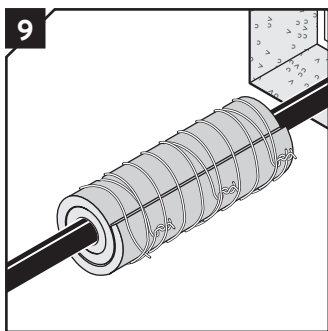
5

Cut the excess wire.

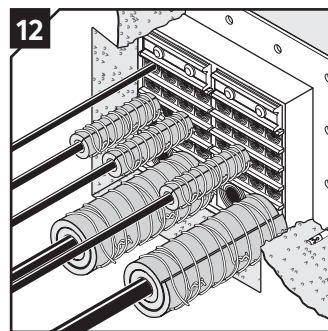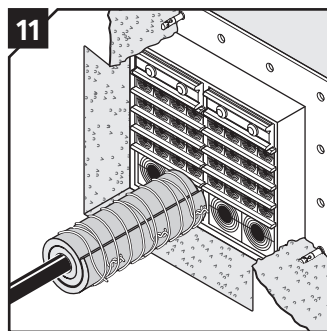**6**

Fold the steel wire ends.

7

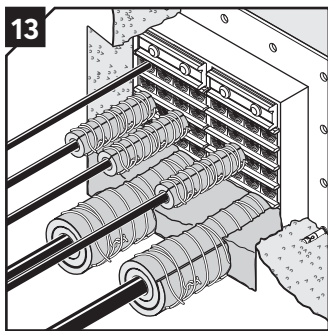Repeat step 4-6 a couple of times to ensure that the insulation stays in place.

8

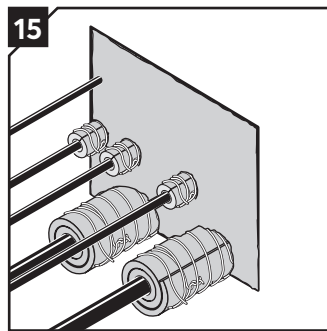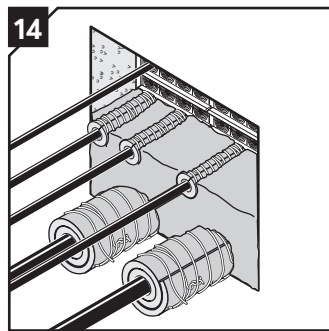Wrap steel wire around the roll of insulation to compress it.

9

10

Slide the roll of insulation along the cable/pipe into the opening.

11

12

Add insulation rolls according to step 1-11 to the other cables/pipes which require more insulation than the wall depth packed with loose wool can provide.
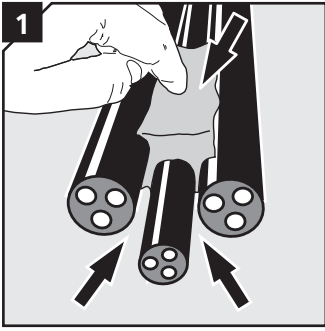
13

Start to fill up with loose wool between the cables/pipes. Pack insulation to high density. If the depth of the cavity is not sufficient, use an extension frame as described on the next page.
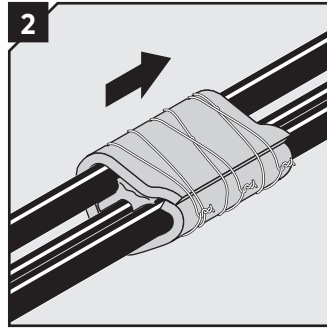
14

15

Continue to add insulation until the opening is full.

Insulation of bundled cables/pipes
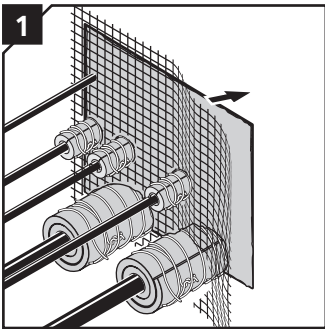
1

When cables/pipes are close together, place loose wool between them to keep them separated.
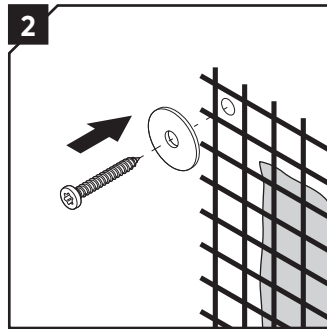
2

Wrap insulation around all cables and loose insulation. Wrap steel wire around the insulation and slide it into place.
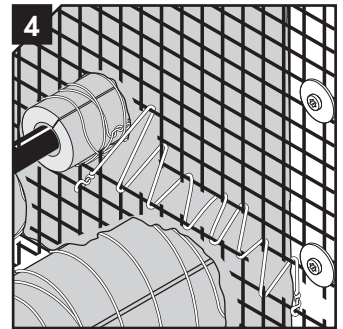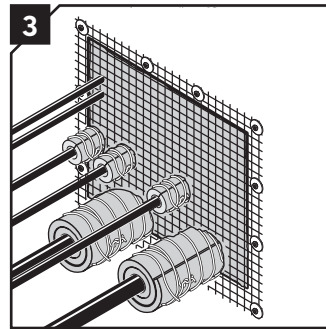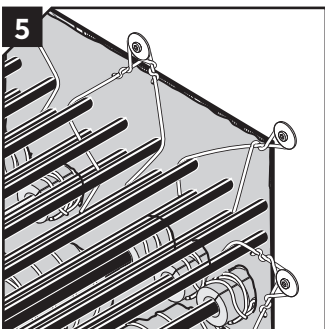
Installation of optional wire mesh

1

Add a stainless steel wire mesh or similar to keep the insulation in place.

2

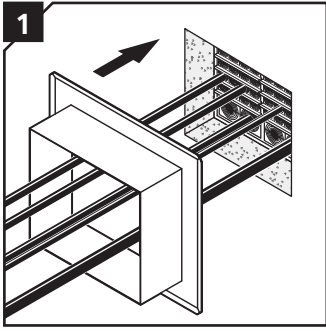Use suitable fasteners to secure the mesh.

3

4

Gaps in the wire mesh can be tied together with stainless steel wire.
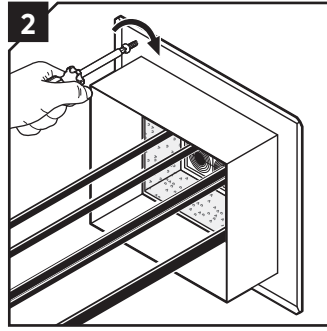
5

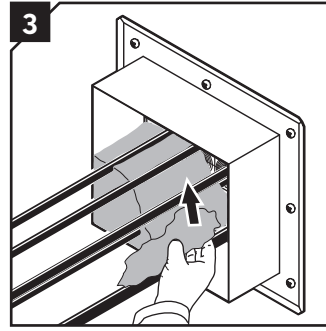For tightly packed transits, use stainless steel wire and screws to retain the loose wool in the cavity.
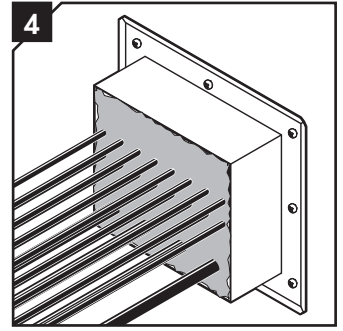
Installation of fire insulation with extension frame

1 Use an extension frame if there is not enough depth in the cavity for the insulation.
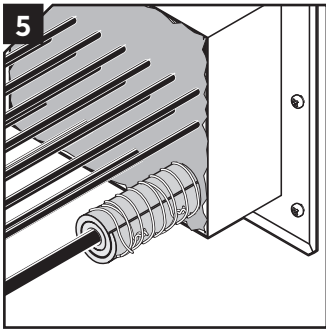

2 Fasten the extension frame to the structure with suitable fasteners.

3 Add insulation wool of the correct size into the extension frame according to insulation drawing/certification drawing. Ensure that the loose wool is retained in the extension frame.

4 For tightly packed transits, there is no need for insulation rolls if an extension frame provides the insulation length stated in the insulation drawing/certification drawing. Use loose wool packed to high density. Use steel wire and screws to retain the loose wool in the cavity as seen in step 5 on the previous page.

5 Example of one cable/pipe requiring more insulation than the others.

Note

◉ See specific information about dimensions, type of insulation etc. according to your required fire certification.