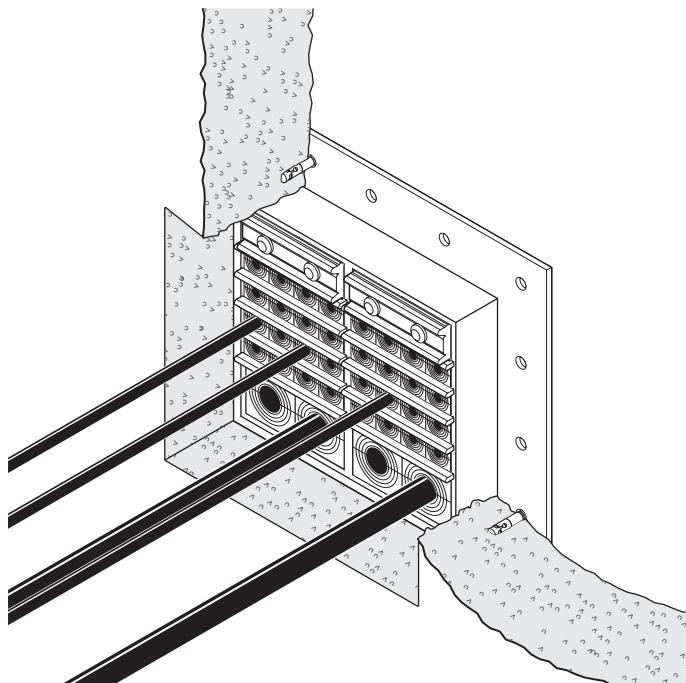


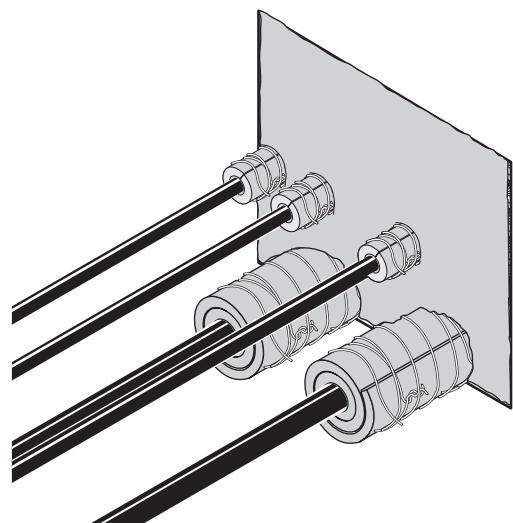
Fire insulation guidelines for land-based applications

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.

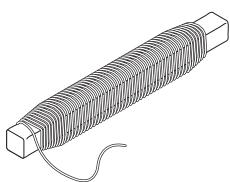


Before fire insulation installation.

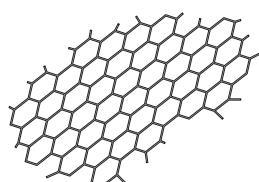


Complete installation of fire insulation.

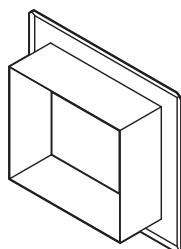
Components



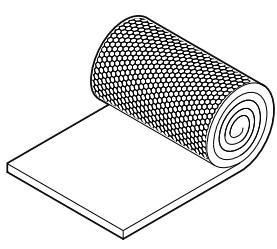
Steel wire



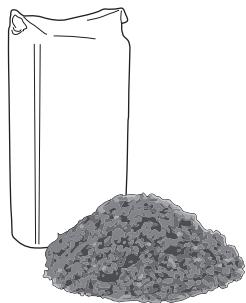
Wire mesh



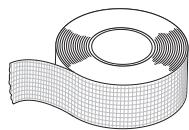
Extension frame



Non-combustible (A1 class) insulation

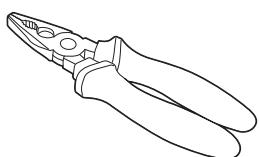


Loose wool insulation A1 class

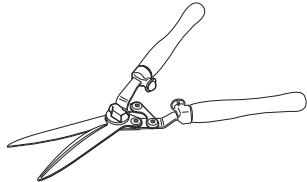


Reinforced aluminum tape

Tools

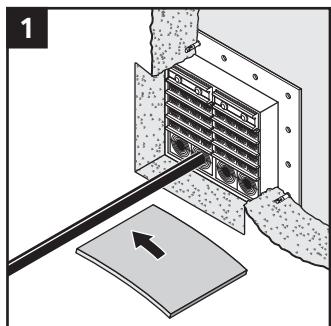


Pliers

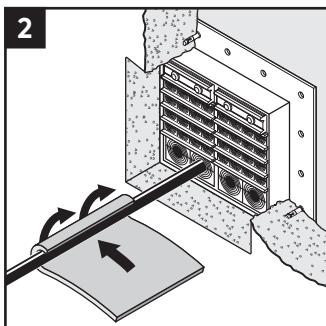


Hedge clippers

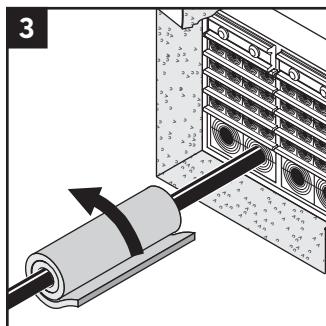
Installation of fire insulation



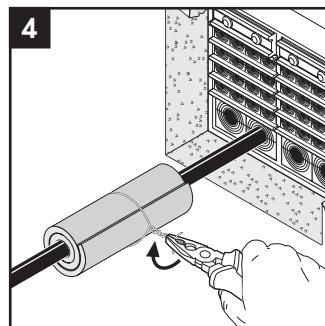
Cut a sheet of insulation to the correct size according to insulation drawing/certification drawing.



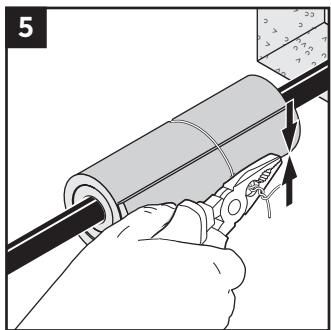
Wrap the sheet of insulation around the cable/pipe. Thickness of insulation according to insulation drawing.



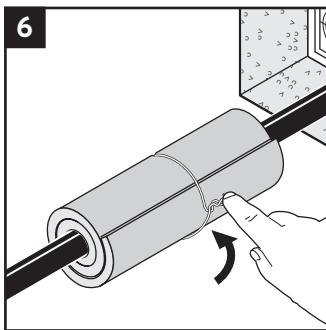
Wrap the insulation around the cable.



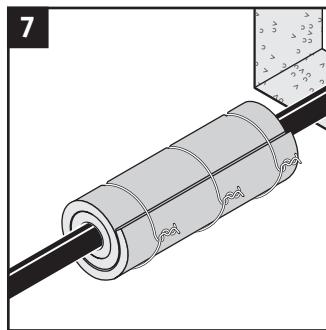
Secure the insulation to the cable/pipe using steel wire.



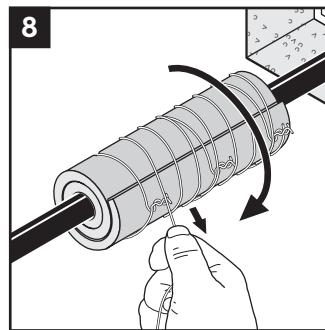
Cut the excess wire.



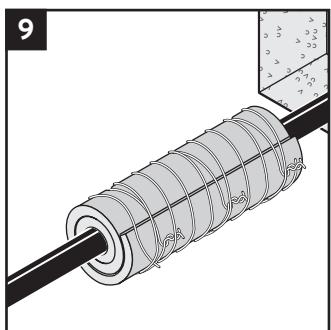
Fold the steel wire ends.



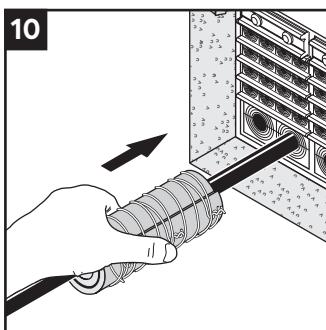
Repeat step 4-6 a couple of times to ensure that the insulation stays in place.



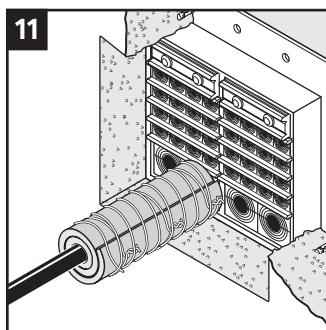
Wrap steel wire around the service insulation to compress it.



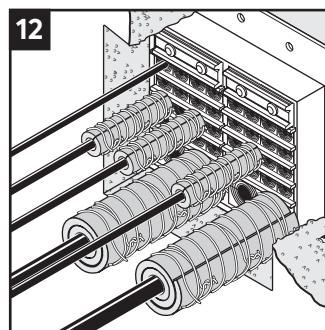
The service insulation is compressed.



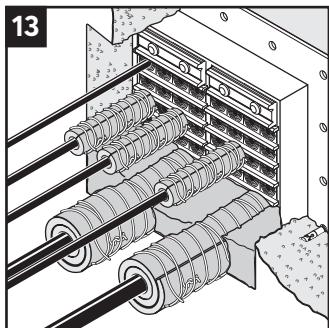
Slide the service insulation along the cable/pipe into the opening.



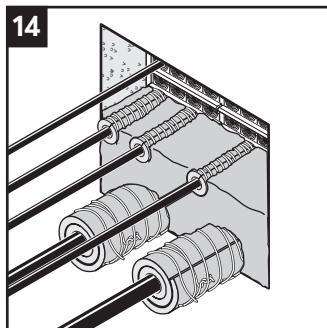
Service insulation in place.



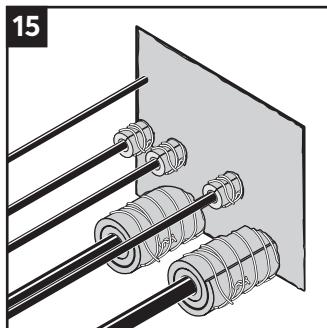
Add additional service insulation according to step 1-11 to the other cables/pipes which require more insulation than the wall depth packed with loose wool can provide.



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.

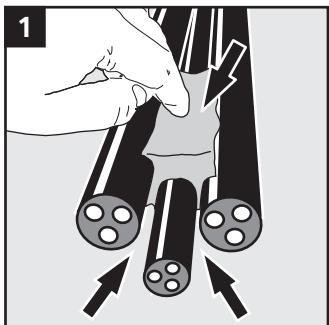


14
Fill up with loose wool.

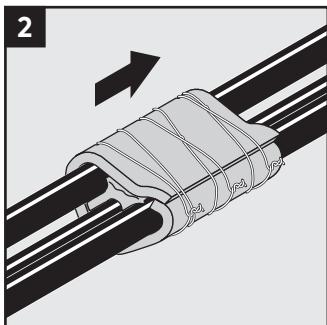


15
Continue to add insulation until the opening is full.

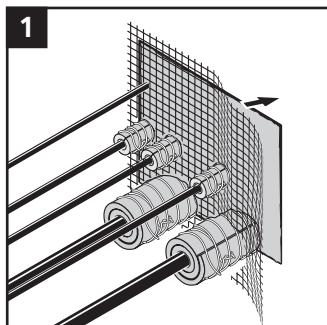
Insulation of bundled cables/pipes



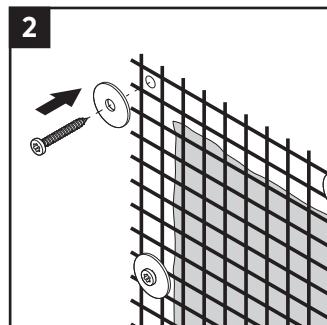
When cables/pipes are close together, place loose wool between them to keep them separated.



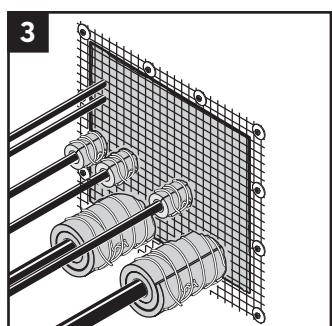
2
Wrap insulation around all cables and loose insulation. Wrap steel wire around the insulation and slide it into place.



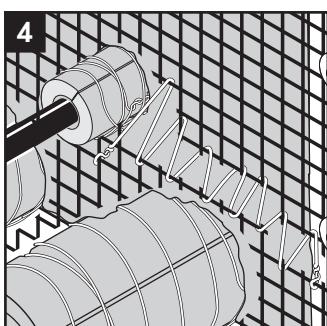
1
Add a stainless steel wire mesh or similar to keep the insulation in place.



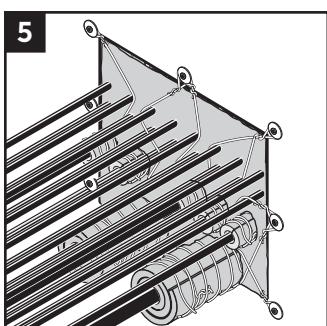
2
Use suitable fasteners to secure the mesh.



The wire mesh is secured.

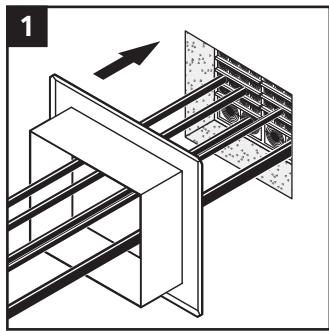


4
Gaps in the wire mesh can be tied together with stainless steel wire.

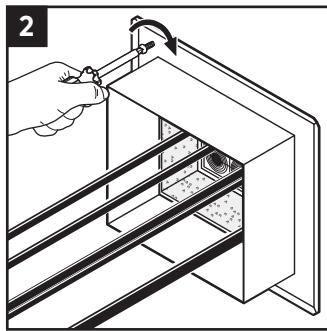


5
For tightly packed transits, use stainless steel wire and screws to retain the loose wool in the cavity.

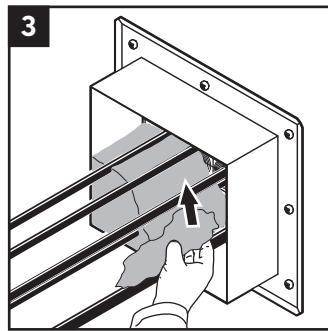
Installation of fire insulation with extension frame protruding



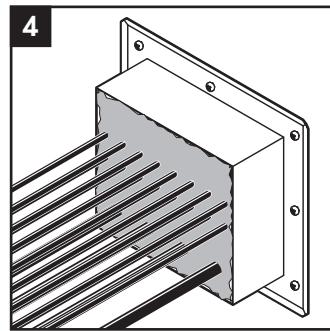
Use an extension frame protruding from the structure if there is not enough depth in the cavity for the insulation.



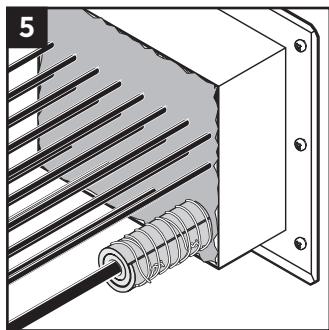
Fasten the extension frame to the structure with suitable fasteners.



Add insulation wool into the extension frame with properties according to insulation/certification drawing. Ensure that the loose wool is retained in the extension frame.

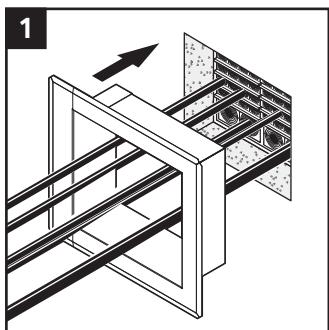


For tightly packed transits, there is no need for additional service insulation if an extension frame provides the insulation length stated in the insulation drawing/certification drawing. Use loose wool packed to high density.

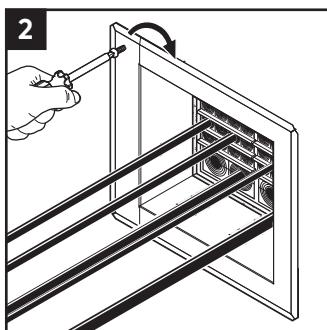


Example of one cable/pipe requiring more insulation than the others.

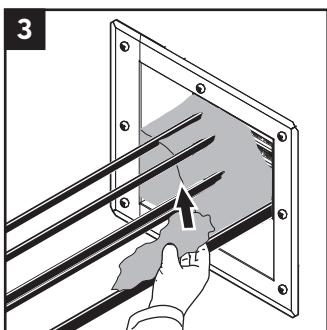
Installation of fire insulation with extension frame recessed



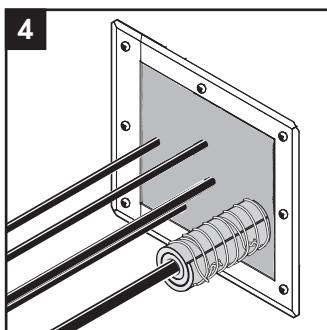
An extension frame recessed in the structure can be used if there is a need to cover the cavity opening. It can also be used as a smooth surface to fasten aluminum tape if the insulation needs to be covered with aluminum tape according to installation drawing/certificate drawing.



Fasten the extension frame to the structure with suitable fasteners.

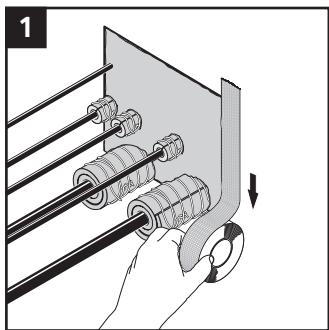


Add insulation wool into the extension frame with properties according to insulation/certification drawing. Ensure that the loose wool is densely packed and retained in the cavity/extension frame.

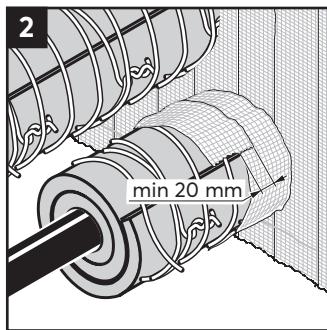


Example of one cable/pipe requiring more insulation than the others.

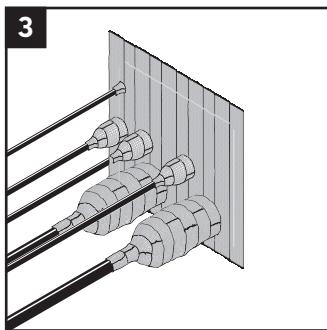
Installation of fire insulation with aluminum tape



To protect insulation, and when stated in insulation drawings/certificate drawings, cover the insulation with the aluminum tape.



Attach aluminum tape around the service insulation with an overlap of at least 20 mm.



It is recommended to use reinforced aluminum tape.

Note

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

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