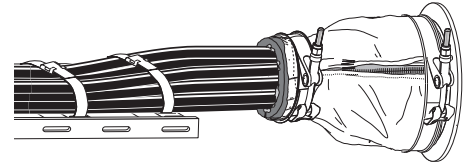




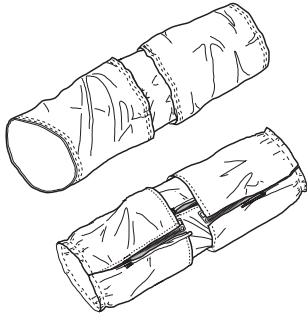
# Installation instructions GK Firestop sealing kit (GK FS SK)



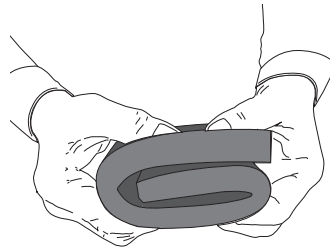
## Safety information

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.

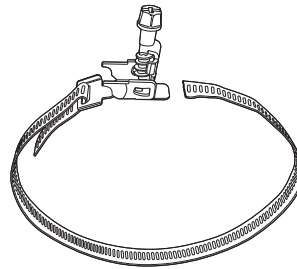
## Components



Fiberglass cloth  
1 pc.

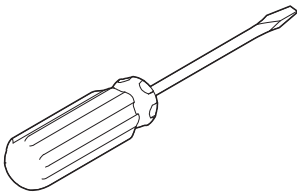


Sealing strip  
1 pc.

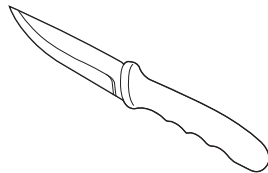


Metal cable tie  
4 pcs.

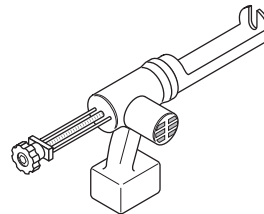
## Tools



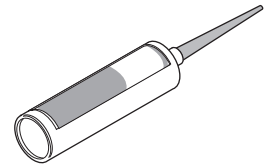
Screwdriver  
(not included)



Knife  
(not included)



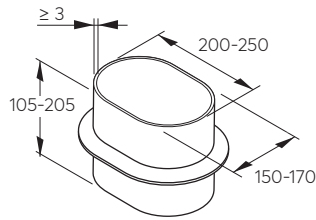
Caulking gun (not included)



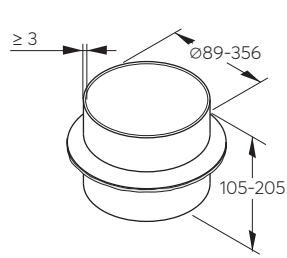
Marine grade smoke sealant  
(not included)

## Pipe sleeve

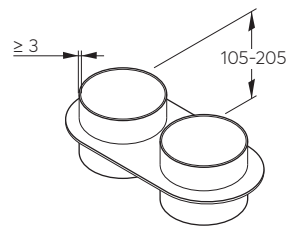
Suitable sleeve dimensions.  
Measures in millimeters (mm).



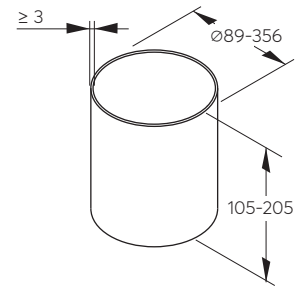
Oval pipe sleeve for welding



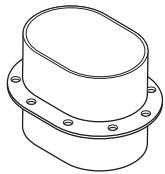
Round pipe sleeve for welding



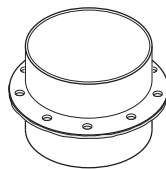
Multiple round or oval pipe sleeve for welding



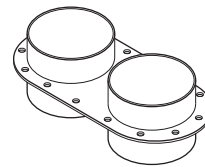
Pipe sleeve without flange for welding



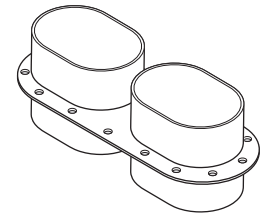
Oval pipe sleeve for bolting



Round pipe sleeve for bolting



Multiple round pipe sleeve for bolting



Multiple oval pipe sleeve for bolting

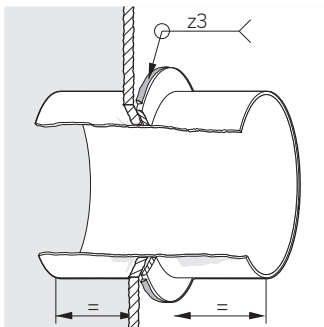
## Selection guide

A	B
GK FS SK 89 KIT	84 - 89
GK FS SK 127 KIT	107 - 127
GK FS SK 140 KIT	120 - 140
GK FS SK 168 KIT	138 - 168
GK FS SK 219 KIT	179 - 219
GK FS SK 244 KIT	204 - 244
GK FS SK 273 KIT	233 - 273
GK FS SK 324 KIT	274 - 324
GK FS SK 356 KIT	306 - 356

C	D
GK FS SK 200x150 KIT	531 - 571
GK FS SK 200x170 KIT	554 - 594
GK FS SK 250x170 KIT	654 - 694

- A. Suitable cloth size and kit for round sleeves
- B. Sleeve outer diameter min - max (mm)
- C. Suitable cloth size and kit for oval sleeves
- D. Sleeve outer circumference min - max (mm)

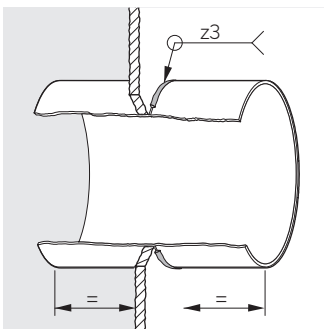
## Installation of sleeve with flange



Center the sleeve and apply a continuous gas-tight weld all around.

Max heat input 1.5 KJ/mm.

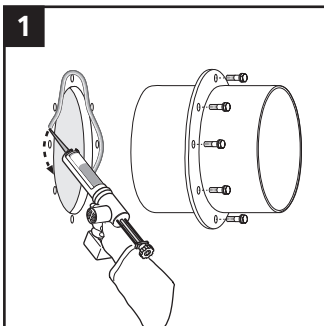
## Installation of sleeve without flange



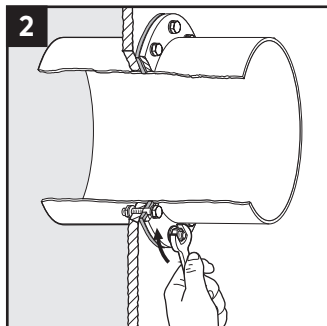
Center the sleeve and apply a continuous gas-tight weld all around.

Max heat input 1.5 KJ/mm.

## Installation of sleeve with bolted flange

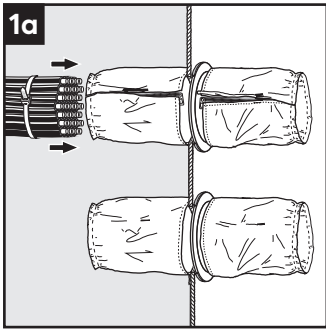


Center the sleeve. Apply a smoke seal between the flange and the structure.

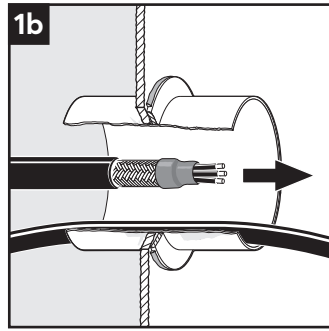


Fasten the sleeve to the structure.

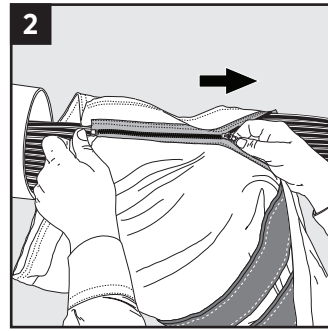
## Installation



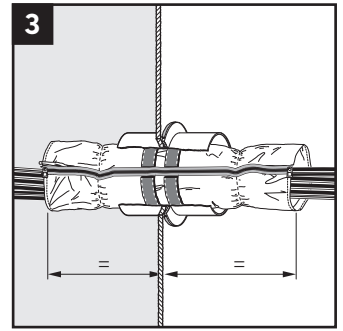
When using a non-openable cloth or when the cable density is high, mount the cloth before routing the cables.



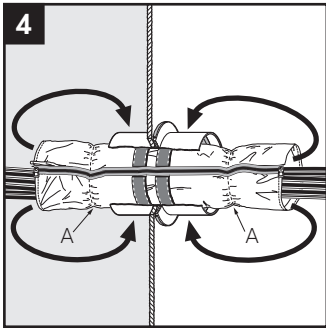
When using an openable cloth, route the cables before mounting the cloth.



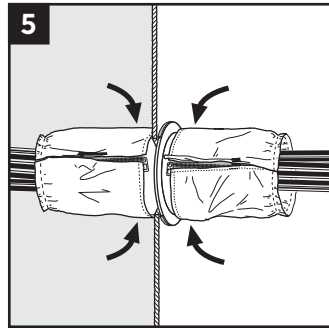
For openable cloth. Open the zipper on the cloth. Wrap the cloth around the cables with the intumescent material outwards. Close the zipper.



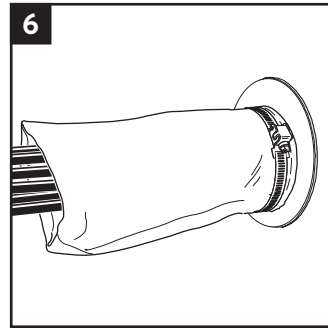
Pull the cloth through the pipe sleeve and make sure it is centered.



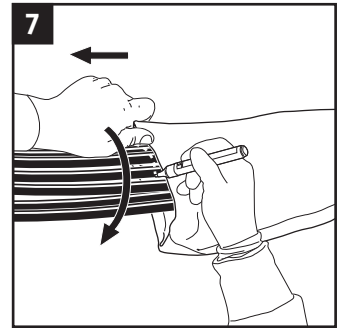
Fold back the fiberglass cloth at the seam (A) on both sides.



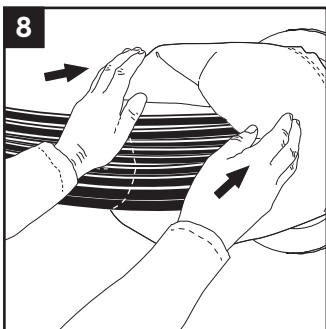
The ends of the fiberglass cloth mounted onto the sleeve.



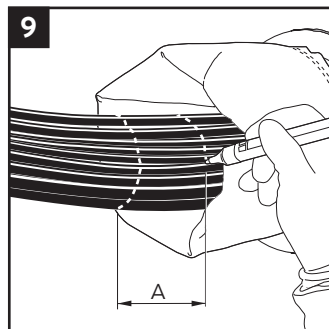
Secure both ends with a cable tie.



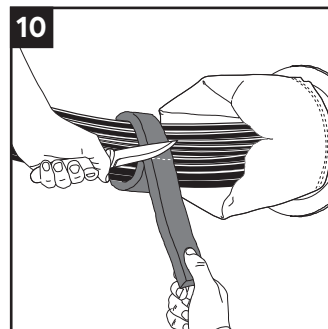
Pull out the cloth. Mark the cables with a pen at the edge of the cloth.



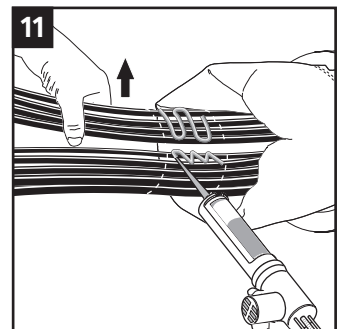
Move the cloth a bit to expose the sealing area of the cables.



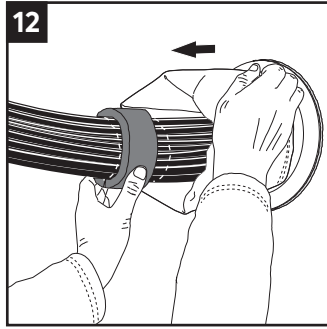
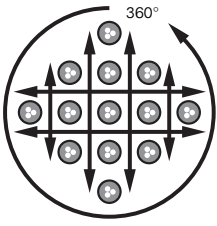
A=60 mm.  
Make another mark on the cables.



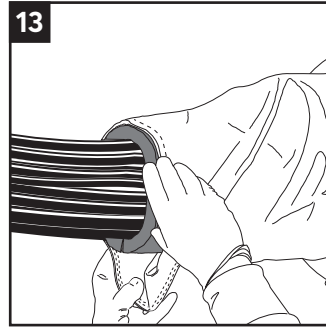
Fold the sealing strip around the cable bundle and cut two pieces, one for each side of the transit.



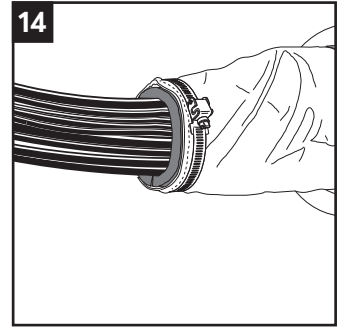
Make a smoke tight transit by applying sealant around and between the cables at the marking.



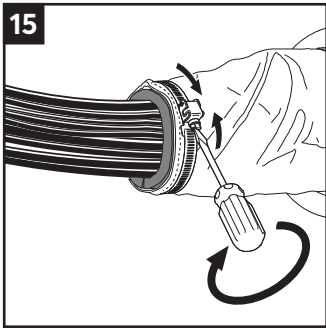
**12** Fold the sealing strip around the bundle and over the sealant. Make sure there are no gaps in the joint.



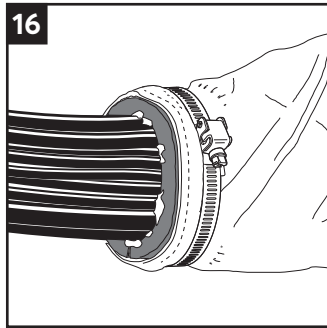
**13** Pull back the fiberglass cloth flush to the sealing strip. If necessary, fold the fiberglass cloth excess material for a tight fit.



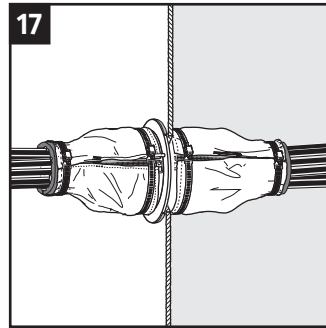
**14** Put a cable tie or a hose clamp at the center of the sealing strip.



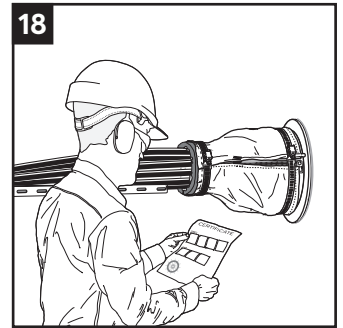
**15** Tighten the cable tie with a suitable tool. The compression is complete when the sealing strip is compressed by 50-70%.



**16** Make sure sealant is squeezed out and that there are no gaps in the bundle or at the sealing strip.



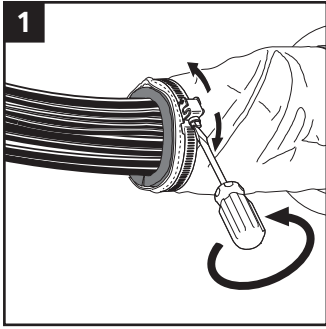
**17** Repeat step 8 to 17 for the other side of the transit.



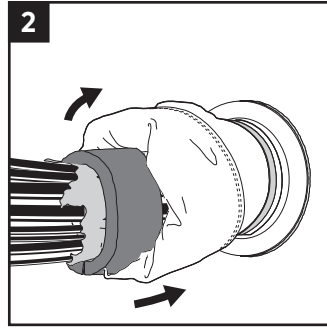
**18** Check additional documentation, if applicable.

## Disassembly and reinstallation

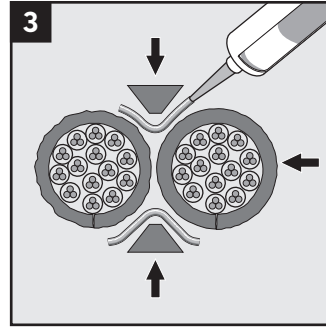
Material needed: 2 pieces of cable tie, 2 pieces of sealing strips and sealant.



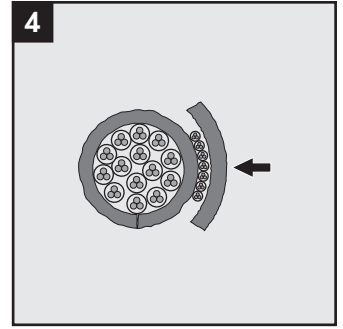
1 Remove the cable tie holding the cables.



2 Fold back the fiberglass cloth and add a new cable or bundle.

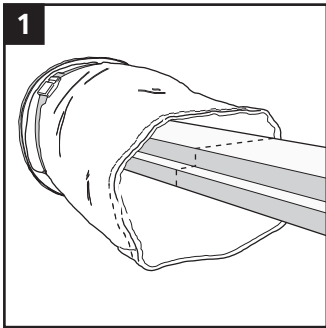


3 Make sure to fill any gap with sealing strips and sealant. Continue the reinstallation.

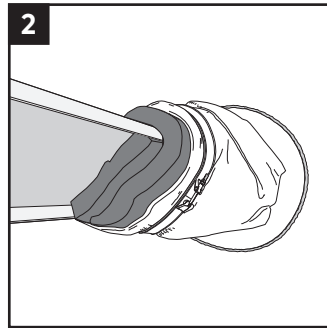


4 When a few small cables are added, a piece of sealing strip can be placed over the new cables. Continue the reinstallation.

## GK FS SK and busbars

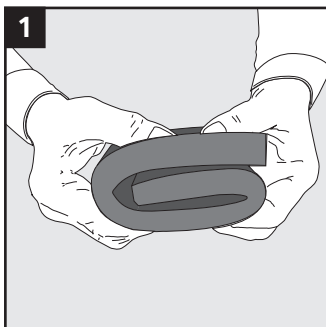


1 Apply the strip around the busbar. Cavities are filled with shorter pieces of strips. Fold the fiberglass cloth excess material for a tight fit.

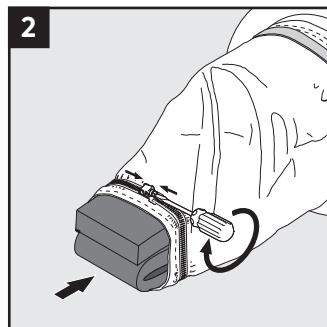


2 Put a clamp at the center of the sealing strip. Tighten the clamp with a suitable tool. The compression is complete when the sealing strip is compressed by 50-70%.

## GK FS SK without cables



1 Cut a 300 mm long piece of sealing strip and fold it two times.



2 Insert the sealing strip and fold the cloth for a tight fit. Put a clamp at the center of the sealing strip and tighten it. The compression is complete when the sealing strip is compressed by 50-70%.



## Note

- The recommended maximum cable density is 68% of the cloth diameter.
- Cables with a diameter up to 50 mm are recommended.
- Make sure not to damage the fiberglass cloth.
- The weight of the cables must be supported on both sides of the GK Firestop sealing kit.
- Approvals or certificates may include amendments or limitations related to this application.
- The latest version of this and related documents are found at [roxtec.com](http://roxtec.com).
- The GK FS SK solution is intended to be used with existing pipe sleeves.
- Make sure the pipe sleeve is adequately attached by welding or bolting to hold the weight of the penetration and to secure fire integrity according to the requirements for the structure.

## Disclaimer

The Roxtec GK FS SK "cable sealing system is a fire stop sealing kit consisting of a fiberglass cloth, intumescent material and metal cable ties. Each and every one of the components is necessary for the best performance of the GK FS SK system. The GK FS SK system has been certified to resist a number of different hazards. Any such certification, and the ability of the GK FS SK system to resist such hazards, is dependent on all aforementioned components. Thus, the certification is not valid and does not apply unless the fiberglass cloth, intumescent material and metal cable ties installed as part of the GK FS SK system are manufactured by or under license from Roxtec ('authorized manufacturer'). Roxtec gives no performance guarantee with respect to the GK FS SK system, unless (I) the fiberglass cloth, intumescent material and metal cable ties installed as part of the GK FS SK system are manufactured by an authorized manufacturer and (II) the purchaser is in compliance with (a), and (b), below.

(a) During storage, the GK FS SK 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 GK FS SK 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 GK FS SK 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 GK FS SK system or installations containing components not manufactured by an authorized manufacturer and/or occurred or caused by the use of the GK FS SK system in a manner or for an application other than for which the GK FS SK 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 GK FS SK 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](http://roxtec.com/general-terms-of-sales)."



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