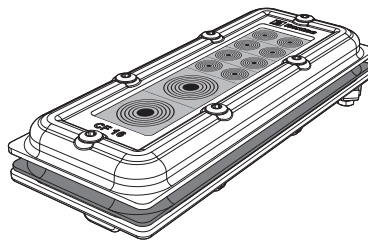


# Installation instructions

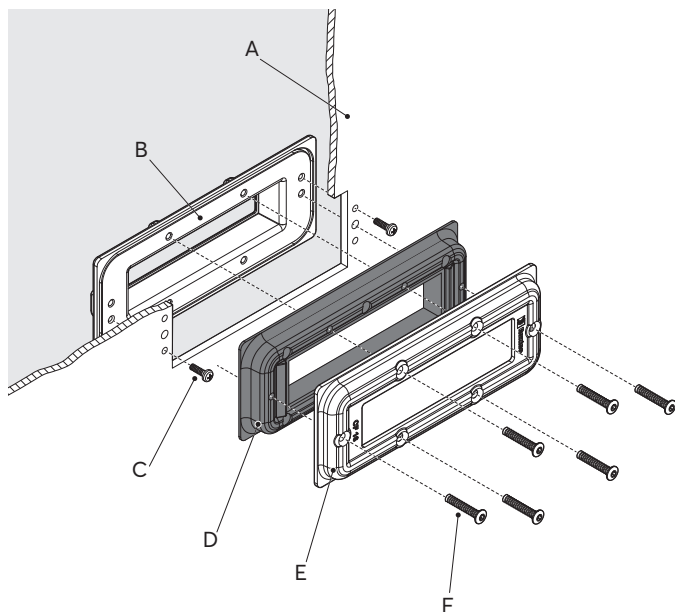
## Roxtec CF 16 BG™ transit



### Safety information

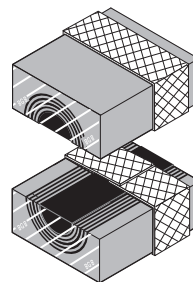
Roxtec recommends that all installations are performed without facility operation. Follow national regulations and installation codes. Any action affecting the routed service should be performed according to manufacturer recommendations.

### Components



A: Structure  
B: Back plate  
C: Phillips screws

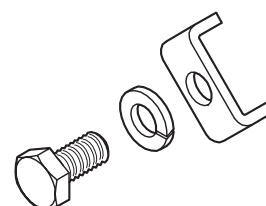
D: Compression rubber  
E: Front plate  
F: Torx screws



Roxtec CM BG B module



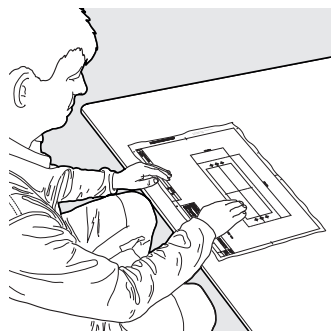
Roxtec Lubricant



Fasteners for protective bonding conductor

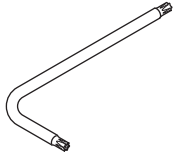
### Additional information

Maximum structure thickness 4 mm.

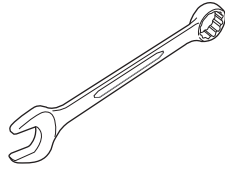


Visit [roxtec.com](http://roxtec.com) for additional information, such as drawings, apertures, videos, ratings and certificates.

## Tools



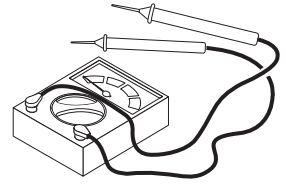
Torx key T30  
(not included)



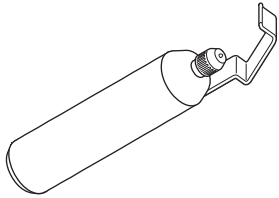
Spanner 10 mm  
(not included)



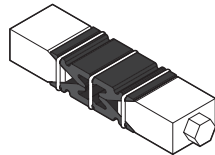
Phillips screwdriver PH  
(not included)



Continuity tester  
(not included)



Cable stripper  
Recommended by the cable  
manufacturer  
(not included)



Roxtec installation tools  
(not included)

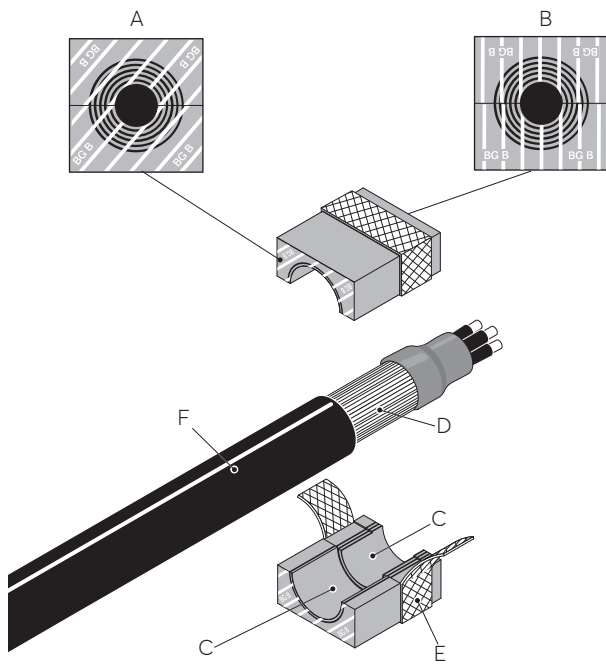
## Technical data

Name	External dimensions WxHxD (mm)	For cable/pipe Ø (mm)	Braid cross-section/cable (mm <sup>2</sup> )	Approximately equivalent AWG
CM 20w40 BG B	40 x 20 x 40	3.5 – 16.5	4	11
CM 30w40 BG B	40 x 30 x 40	10 – 25	13	6
CM 40 10–32 BG B	40 x 40 x 40	9.5 – 32.5	21	4
CM 10w40/0 BG B	40 x 10 x 40	0	–	–
CM 40/0 BG B	40 x 40 x 40	0	–	–

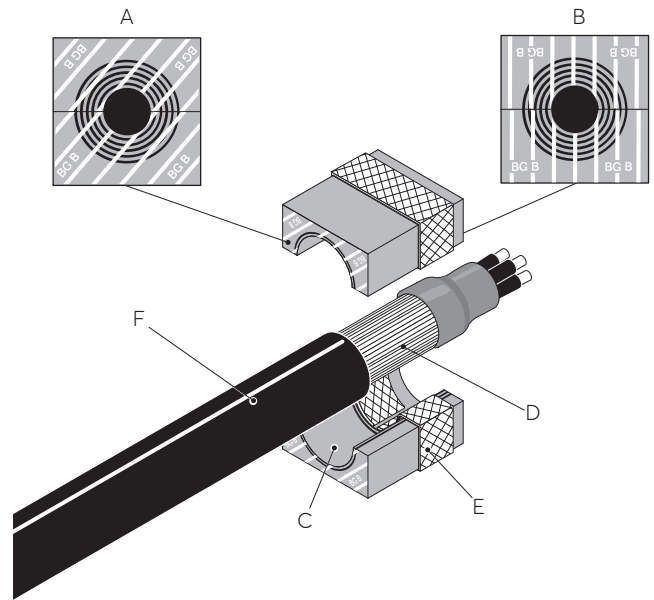
The diameter range of the modules indicates the smallest diameter of the exposed cable armor to the largest diameter of the cable jacket. Modules with core can be used as spare parts.

## Cable placement in module

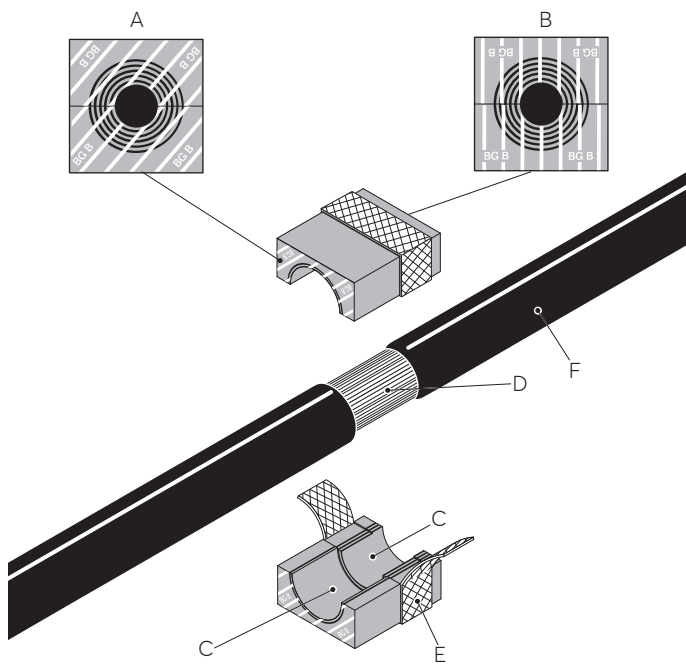
- A. Environmental side.
- B. Termination/interior side.
- C. Removable layers.
- D. Cable armor.
- E. Bonding/grounding braid.
- F. Cable jacket.



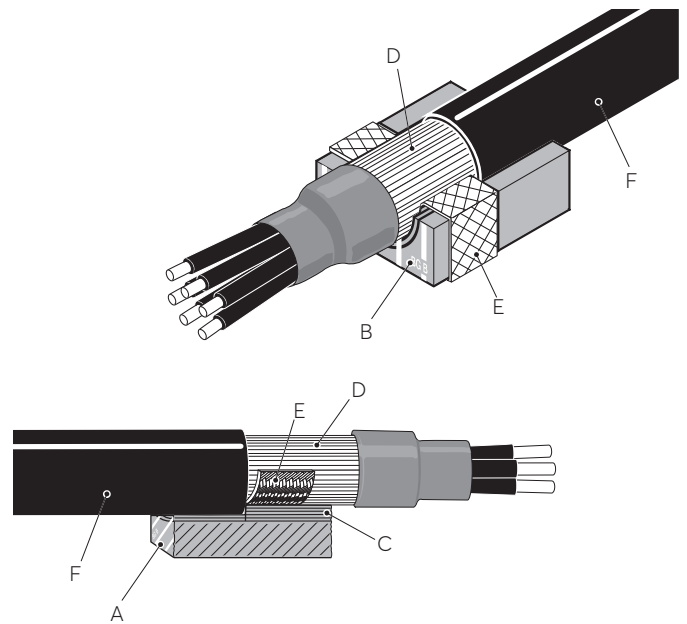
Cable with terminated armor.



The braid is folded in.

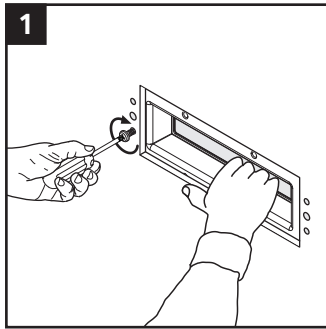


Cable with pass-through armor.

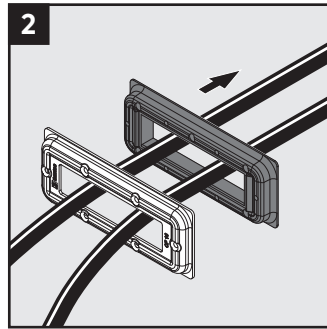


Cable placement in the module half. The cable jacket edge shall be in contact with the edge of the removable layers.

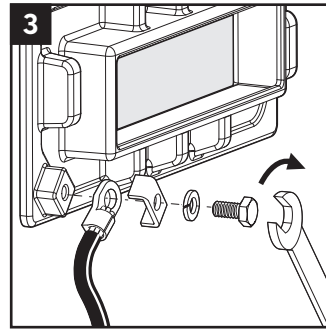
# Installation



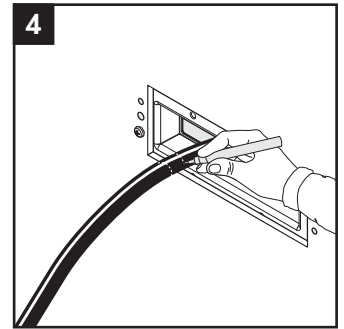
1 Attach the back plate with the two Phillips screws.



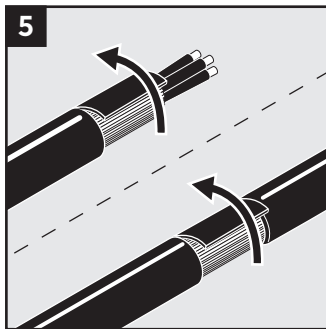
2 Route the cables through the front plate and the compression rubber.



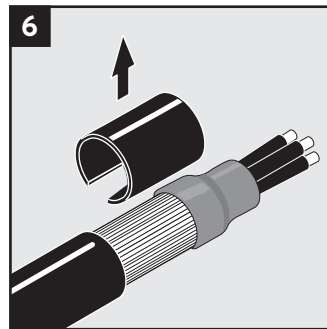
3 Attach the protective bonding conductor to the earthing terminal.



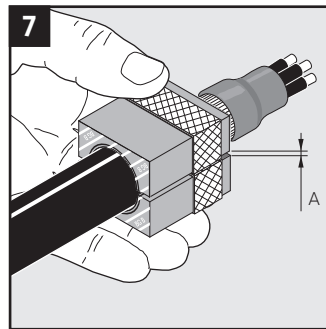
4 Mark where the outer jacket is to be removed to fit the module braid.



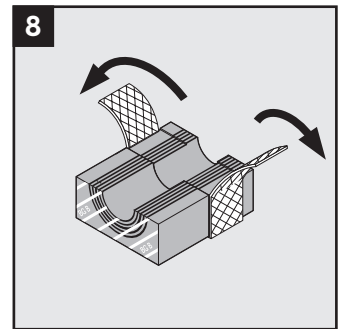
5 Remove the outer jacket and any plastic foil. The cable armor shall be clean and conductive.



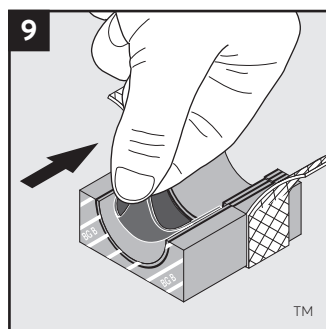
6 Secure the end of the cable armor.



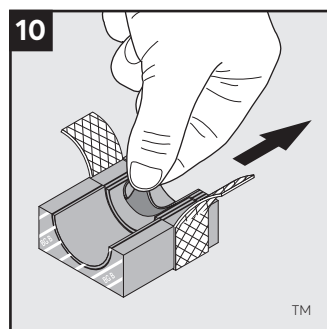
7 Achieve a 0.1-1.0 mm (A) gap between the two module halves when held against the cable.



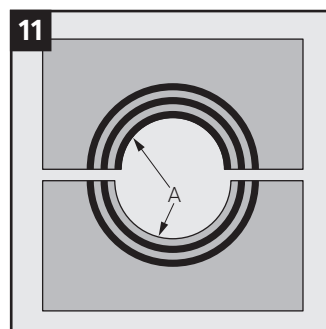
8 Remove the core and fold out the braid. Also see section for modules with multiple openings.



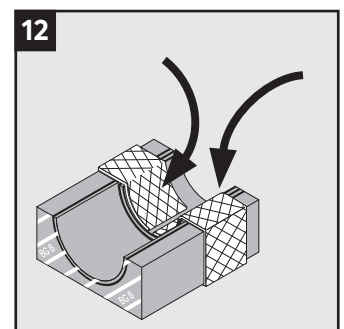
9 Adapt the layers that are in contact with the cable jacket.



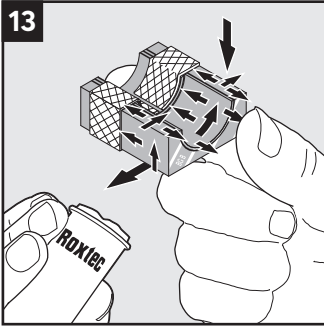
10 Adapt the layers that are in contact with the cable armor.



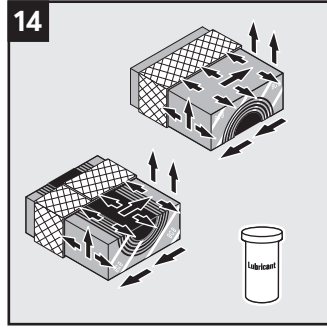
11 The number of layers may not differ (A) by more than one between the corresponding module halves.



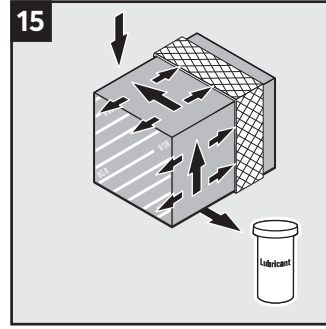
12 Fold the braid tightly inside the module half. Check the gap.



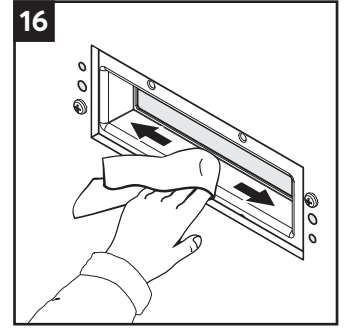
Lubricate the sealing surfaces of all modules with Roxtec Lubricant. Avoid excess lubricant on the braid.



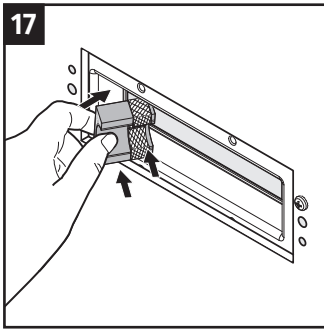
Lubricate the sealing surfaces of the spare modules. Do not remove the core.



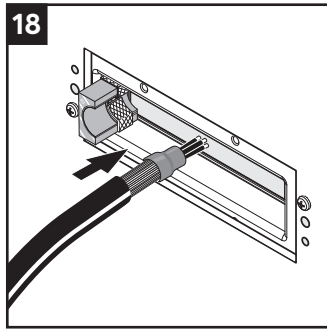
Lubricate the sealing surfaces of the solid modules.



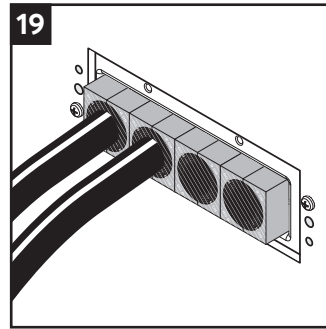
Clean the frame.



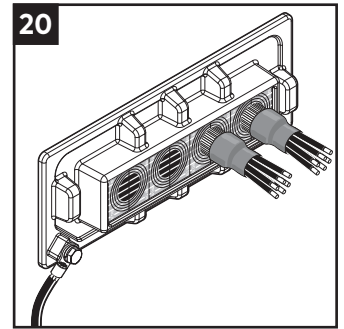
Insert the modules at an angle.



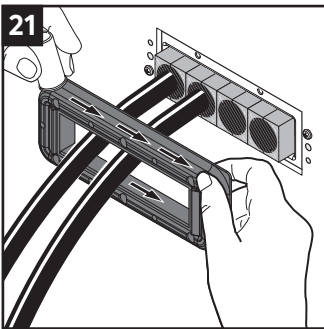
Insert the cables.



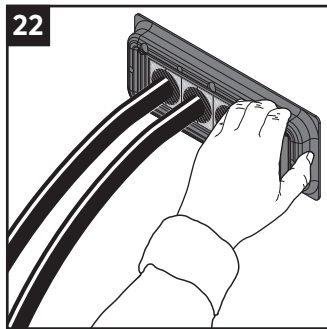
Fill up the transit. Roxtec pre-compression tools are available.



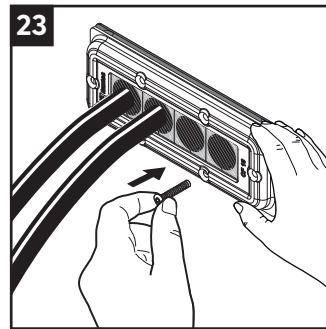
The cable armor shall be visible outside the module.



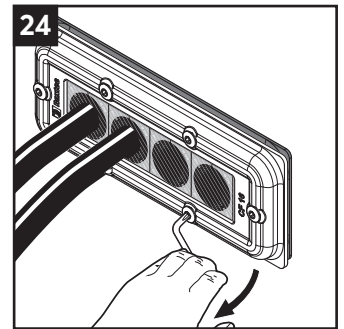
Lubricate all surfaces of the compression rubber.



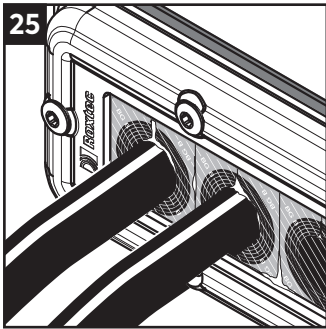
Position the compression rubber around the modules.



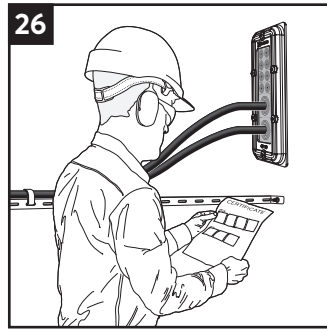
Place the front plate onto the compression rubber and insert the screws.



Starting with the short sides, tighten the screws crosswise in small steps. Recommended torque 7 Nm.

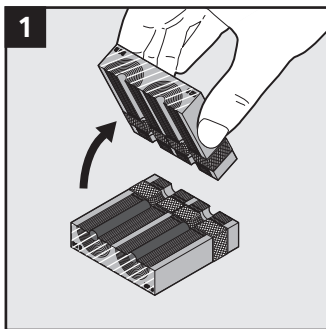


25 Protruding excess lubricant indicates a tight transit.

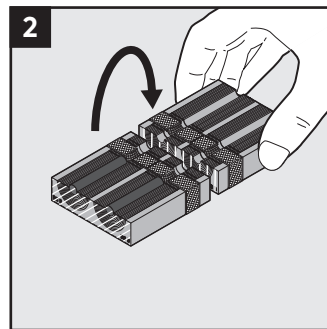


26 Check additional documentation, if applicable.

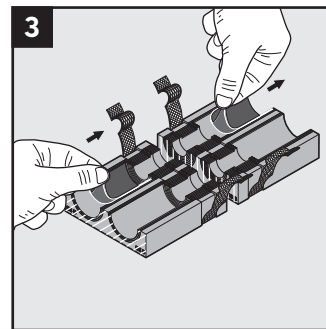
### Modules with multiple openings



1 For modules with multiple openings, take extra care when peeling layers.

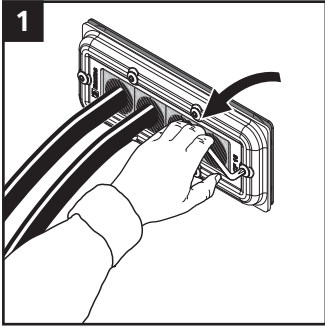


2 Folding the halves like this will line up corresponding openings.

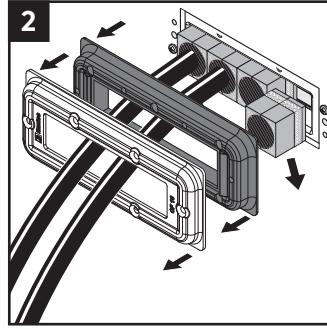


3 Adapt one opening at a time by removing layers.

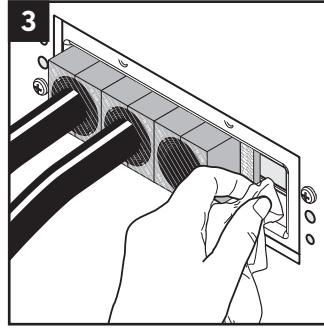
## Disassembly and reinstallation



1  
Untighten the screws crosswise in small steps.



2  
Remove front plate and compression rubber. Remove modules as needed.



3  
The inside surfaces of the exposed packing space shall be clean and conductive prior to reinstallation. Continue the reinstallation.

## Note

- Integrated environmental sealing system for bonding and grounding applications. For use with armored/shielded cables or pipes.
- For non-armored/shielded cables, the cable jacket is not removed. No bonding/grounding functionality will be achieved for the cable.
- For optimum reliability, wait 24 hours or longer after installation before exposing the cables or pipes to strain or pressure.
- Suggestions for cable preparations are available on roxtec.com.
- Cables shall go straight through the frame.
- To be used with: Roxtec CM BG B modules.
- The final complete bonding/grounding installation has to comply with applicable codes and regulations.
- 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.

## 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.

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