

INSTALLATION INSTRUCTIONS

INSTALLATION  
VIDEO AVAILABLE  
ON OUR WEBSITE

**CSO**  
SEALING SYSTEMS

# RISE<sup>®</sup> Duct Seal

Multi-Cable and Pipe Transit Sealing System



THORNE &  
**DERRICK**  
INTERNATIONAL

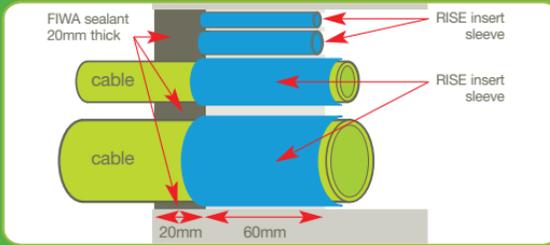
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SAFETY.  
RELIABILITY.  
INGENUITY.

## INSTALLATION INSTRUCTIONS

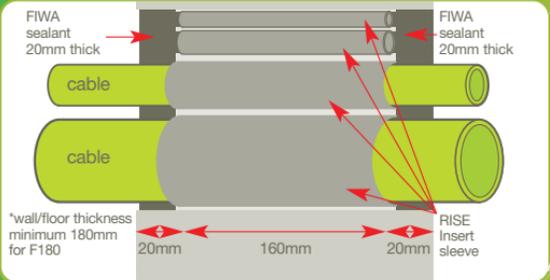
The RISE Multi-Cable and Pipe Transit Sealing System provides an effective and simple solution to all fire, gas and watertight duct sealing requirements. It consists of only two components: rubber insert sleeves and FIWA sealant; a silicone based, fire-resistant, water-repellent sealant. This makes the system quick and easy to install.

WATER & GAS  
RATED SYSTEM



- 20mm layer of FIWA sealant
- 60mm RISE insert sleeves
- Certified pressure resistance - 1.5BAR
- WIMES, DSEAR, ATEX & APEA Compliant

FIRE, WATER & GAS  
RATED SYSTEM



- 2 x 20mm FIWA sealant
  - 160mm RISE insert sleeves Type FRR/LEHF
  - Certified pressure resistance - 2.5BAR
  - 4 hours fire protection
- MES, DSEAR, ATEX  
APEA Compliant

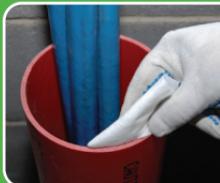
### TOOLS REQUIRED: (INSTALLATION KITS AVAILABLE)

- High ratio sealant gun
- Long nosed pliers
- Approved degreasing wipes
- Cellulose sponges
- Cartridge cutter
- Water spray
- Wooden depth gauge (marked at 20mm)
- Longer cartridge nozzels & angle connectors
- Head Torch
- Disposable nitrile gloves

Installation instructions for water and gastight only application.  
For fire rated applications please contact CSD.



1. Ensure the duct opening is clear, removing any debris which may interfere with the installation of the RISE Duct Seal. Cut off any cable ties to enable thorough cleaning of the cables and the duct. The duct should also be dry. For any running water applications please contact CSD for further instruction.



**2.** An approved degreasing wipe should be used to remove all concrete, dirt, dust and oil residues from the inside 20-30mm of the duct or building entry. Several wipes may be needed. Any cleaning residue should be removed using a clean dry cloth. To ensure a good sealant bond the duct must be clean and dry before application of the FIWA sealant.



**3.** Use the degreasing wipes thoroughly clean any dirt or oil residue from the cables or any service pipe. Cleaning of all surfaces where sealant will be applied is an essential stage to ensure that a good seal will be maintained. Before moving on check that all surfaces are clean and dry, an inspection mirror and a torch may help for any difficult to access areas.



**4.** A RISE insert sleeve is applied around each cable. The insert sleeves are split length-ways and therefore can be fitted around the cable and then pushed into the penetration to a depth of 20mm.



**5.** The remaining free space in the duct is filled using RISE blue filler sleeves type 27/19. For larger areas sleeves can be bundled together, electrical tape can be used around a bunch of RISE sleeves fixing these together. Our RISE RAPID Duct System uses joined multi sleeves to make installation even easier.



**6.** Any small gaps should be filled with 18/12 size RISE blue filler sleeves. Its important to ensure sleeves are tightly packed into the transit to create a solid base for the application of the sealant. On trefoil or multi cable configurations, space cables out in the duct, to ensure easy application of FIWA sealant.



**7.** Push filler sleeves into duct to depth of 20mm, allowing for the application of the FIWA sealant layer.



**8.** Adjustments can be made to the RISE filler sleeves using a pair of long nosed pliers. Allowing the correct 20mm depth will ensure a suitable layer of sealant is applied and a good seal is maintained.



**9.** Attach the nozzle to the FIWA sealant cartridge and snip the nozzle at an angle, this will help installation. For awkward applications longer nozzles and angled applicators are available. To ensure a good bond is made, before adding the FIWA sealant, clean the duct and cables again using the approved degreaser.



**10.** Using a specialist high ratio caulk gun, apply the FIWA sealant to the least accessible areas first (usually around cables). Apply sealant over sleeves, allowing to fill out to the required 20mm depth; a slight overfill is needed. Use a torch to check for gaps in sealant & apply more sealant if required.

## INSTALLATION INSTRUCTIONS



**11.** When working with the FIWA sealant we recommend the use of disposable nitrile gloves. Using the water spray, dampen the cellulose sponge. This is done to stop the sealant from sticking to the sponge whilst working with it.



**14.** The surface of the FIWA sealant should then be finished off by hand. Ensure a good smooth finish is obtained by the use of a fast skimming motion. Make sure there is a good seal around all of the cables, paying particular attention between the cables.



**12.** Using a dabbing motion, firmly pat down the FIWA sealant, ensuring the sealant makes good contact with both cable and the duct wall. For installations in vertical ducts the sealant should stand just proud of the duct; allowing any water to run off the surface without pooling.



**15.** Take a final check with a torch to ensure sufficient sealant has been applied and the duct is properly sealed. If there are any areas that do not seem sufficiently sealed add more FIWA sealant in this area and smooth off as before. Clean any excess sealant from the edge of the duct and cables.



**13.** Use the water spray to wet your gloves, this will ensure the sealant does not stick to the gloves.



**16.** The completed RISE Duct Seal will provide a 1.5 bar (22 psi) water tight and 1.0 bar (15 psi) gas tight rated seal. The RISE system is proven to provide maintenance free protection for a period in excess of 50 years.

### 4 POINT FINAL CHECK

- ✓ Is there sufficient sealant applied?
- ✓ Are there any gaps in sealant layer?
- ✓ Is the sealant in good contact with the duct or conduit?
- ✓ Is the sealant in good contact with the cables or any service pipe?

Installation instruction video also available on our website

[www.csdsealingsystems.co.uk](http://www.csdsealingsystems.co.uk)



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