



WWW.CABLEJOINTS.CO.UK
THORNE & DERRICK UK
TEL 0044 191 490 1547 FAX 0044 477 5371
TEL 0044 117 977 4647 FAX 0044 977 5582
WWW.THORNEANDDERRICK.CO.UK



Cable and pipe transits
for railway applications



Seals with multidiameter technology for cables and pipes

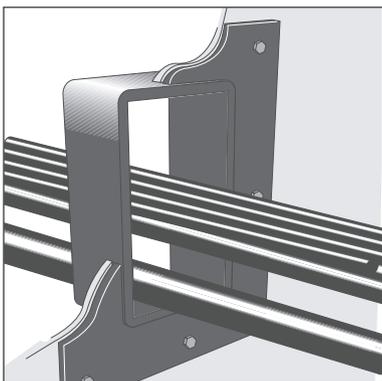


The Roxtec sealing system

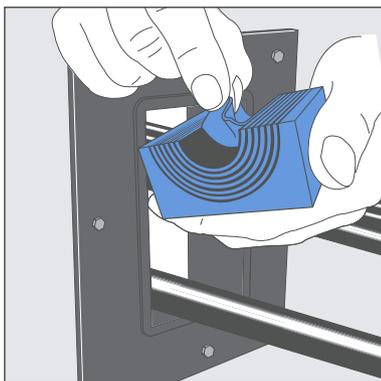
A Roxtec transit consists of a frame, compression unit and sealing modules. The installation procedure only involves a few simple steps.

The frame is installed in or onto the construction or partition, and cables or pipes are routed through the frame. The modules are then adapted to the various cable and pipe diameters and inserted around them inside the frame. The compression unit is in-

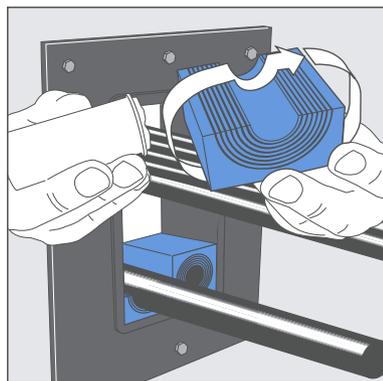
serted and, when tightened, it creates an intrusion-proof seal. Note that some of our frames have an integrated compression unit. An existing seal can easily be re-opened at a later time for cable or pipe additions and re-configurations. ■



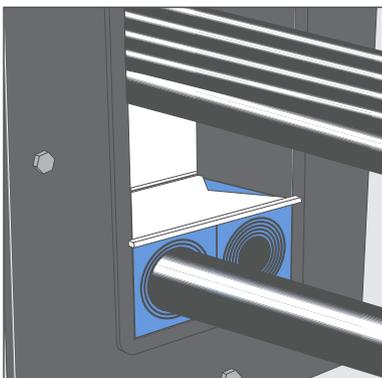
Install the frame and route the cables or pipes through.



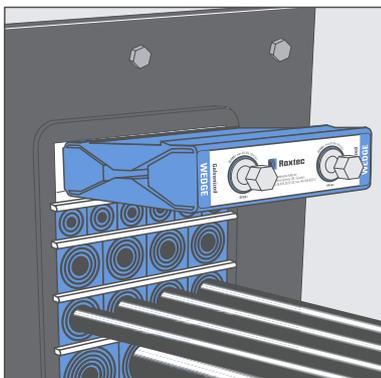
Adapt the modules to fit the cable or pipe diameter.



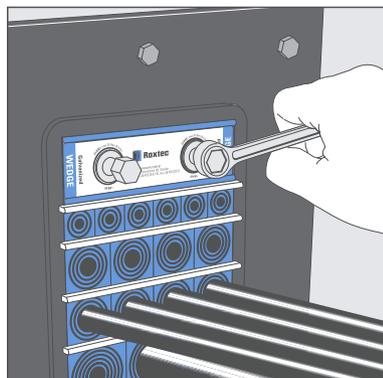
Lubricate the modules to facilitate installation and to achieve even compression and a tight seal.



Fill the frame with modules. Between each row of modules a stayplate is inserted to provide sturdy mechanical anchorage.



Lubricate and insert the Roxtec wedge. The wedge can be placed in a top, bottom or middle position in the frame.



Tighten the bolts to compress and obtain an intrusion-proof seal.

Designed for reality

We develop our products not only to be quality seals; we design them to be cost-efficient in the real world of electrical design, logistics and installation.

Operational reliability

A Roxtec transit protects against different kinds of hazards, such as fire, vibrations, temperature variations, pull tension, shock-waves and noise as well as water, dust and rodents. In addition, a special EMC-version of Roxtec system is available to prevent electromagnetic disturbances from interfering with the equipment.

For life

Roxtec transits are made from the highest quality materials under strict quality surveillance. Our products are designed to maintain their original sealing capability for the service life of any application. ■



Built-in spare capacity



Our transits are designed to include spare capacity right from the start. New cables or pipes can easily be added during construction work or throughout the service life of the application. This means that you can keep adding cables and pipes without adding cost. Your stock is right where it is needed, on location.

and reconfigured at any time. When new cables or pipes are routed the modules' center cores are removed and the existing modules adapted to the correct diameter. It will lower your overall costs and enhance operational reliability since high quality certified products will always be there when needed. ■

Easy maintenance

Roxtec's transits can be opened

Time saving



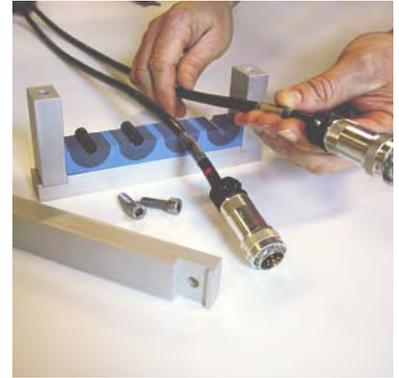
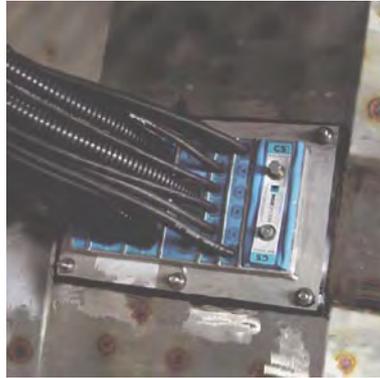
We consider the entire chain from the design phase through to logistics and installation. A Roxtec cable and pipe transit consists of few parts, is simple to use and results in a cost effective installation. The versatility of the multidiameter module equates directly to minimal stock holding for all projects.

makes it possible to seal cables and pipes of a great range of diameters with just a few sizes of sealing modules. The installation procedure is simple and can always be finished on site since the modules themselves compensate for any surprises or last-minute changes. Everyone in the project, from design to maintenance, will benefit. ■

Easy assembly

Roxtec's multidiameter technology

Pre-terminated cables



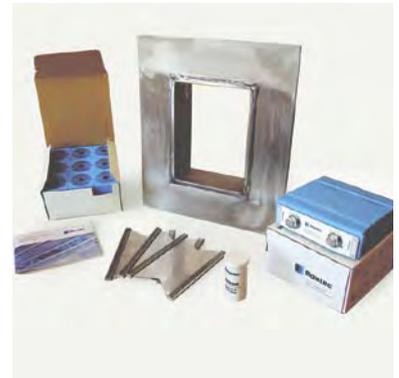
More and more pre-terminated cables are used to cut installation time. Roxtec offers the unique possibility to route pre-terminated cables through the transit. Thanks to our concept of frames and sealing modules the connectors can easily be passed through the opening.

the Roxtec sealing system you eliminate potential onsite high resistant terminations and enable considerable saving in labor and connector re-termination costs. ■

Stay in control

By using pre-terminated cables you ensure a quality installation. With

Kit solutions



We can supply our customers with specifically standardized kits flexible enough to handle a wide variety of cable and pipe configurations. The need for future expansion is considered to ensure that your solution will remain functional and adaptable for the life of the installation.

makes planning and purchasing quick and simple.

Custom-made solutions

We also provide custom made sealing solutions upon request. The module based system makes it possible to manufacture the frames in material, size and design according to your specific needs. ■

Every kit designed by Roxtec is given a specific partnumber, which

Rolling stock applications

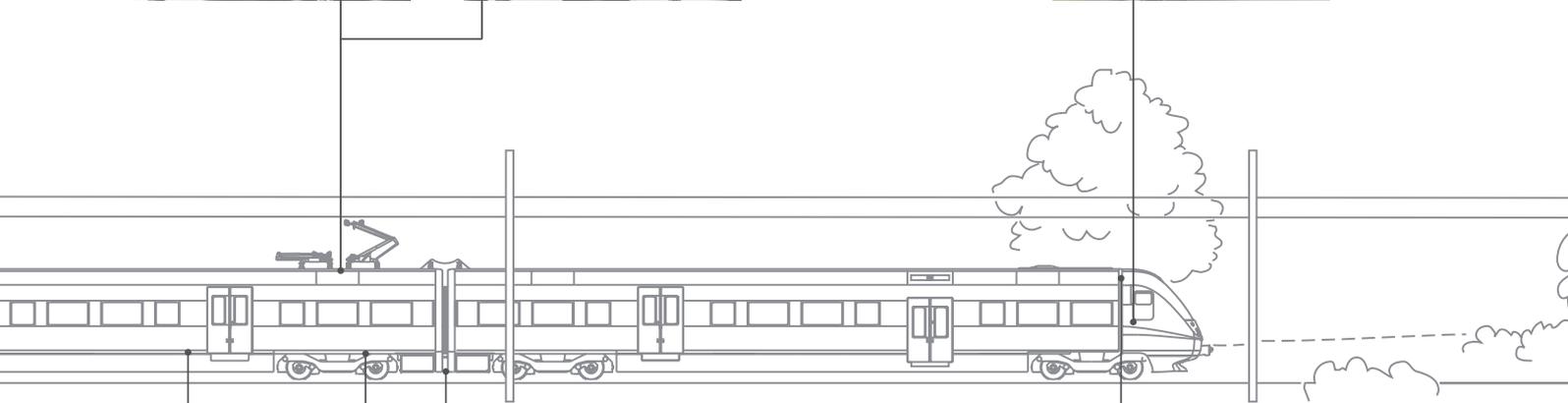
G frame in roof-top mounted equipment



R frame in roof-top mounted equipment



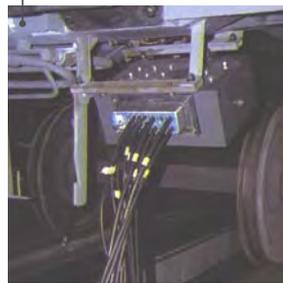
G frame between fire zones



KFO frames in under-body mounted equipment



S frame in carbody structure



G frame in connection between wagons



G frames in fire wall between driver's cab and passenger saloon

Trackside equipment applications

S frame for potential equalization in GSM-R shelter



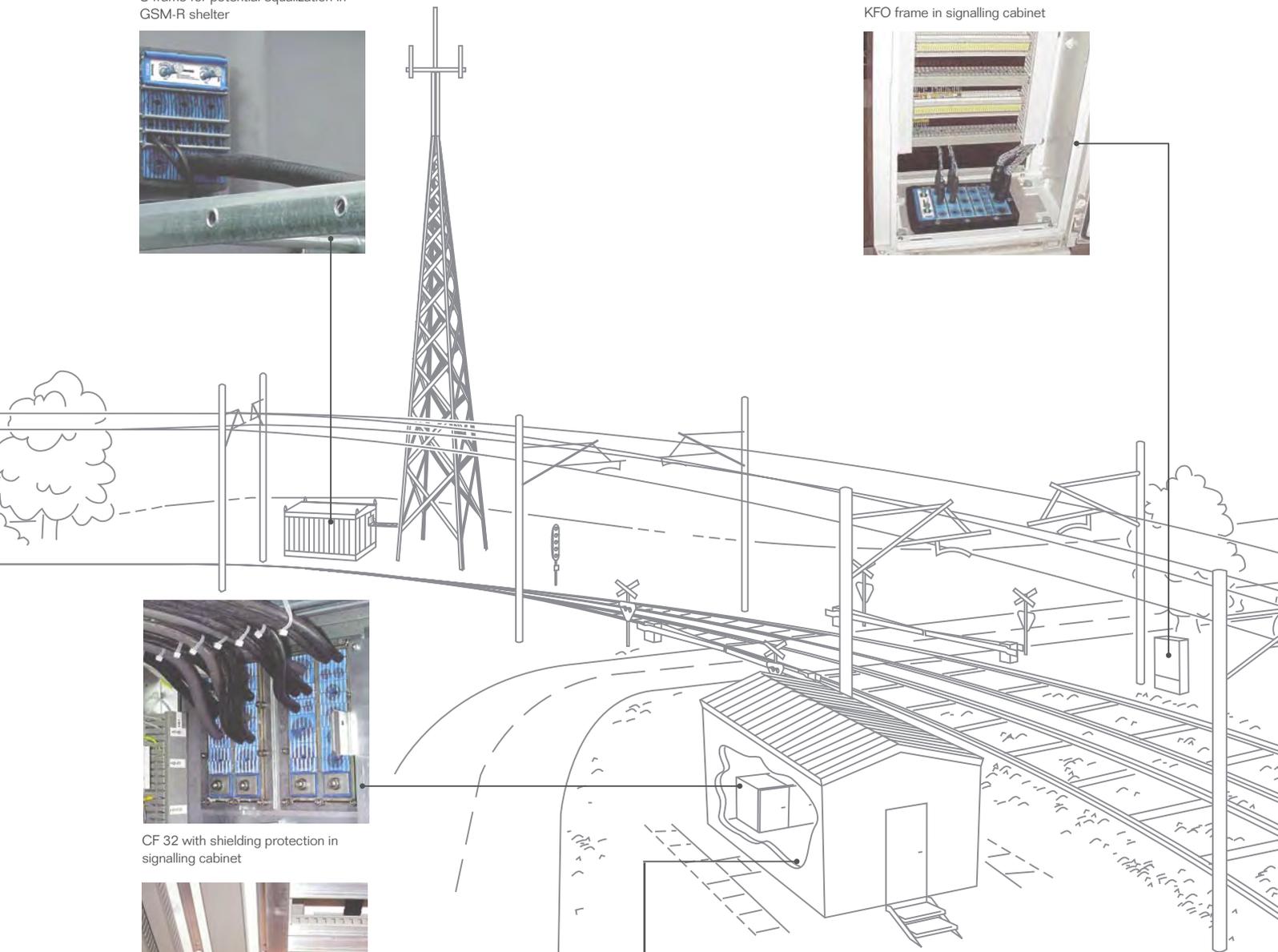
KFO frame in signalling cabinet



CF 32 with shielding protection in signalling cabinet



G frames in shelter floor





Local support, globally

We are wherever our customers are. With an established network of subsidiaries and representatives in 70 markets worldwide, we take pride in being able to deliver local support wherever and whenever it is needed.



Short delivery times

Delivery times are crucial. Local representatives and stocks worldwide means that we can deliver on short notice after an order has been placed. The products will be delivered to the destination of your choice, to ware-houses or directly to a production location.

A selection of our customers

Alstom Transport, Ansaldo Breda, Banverket (Swedish National Railway Administration), Belgian Rail, Bombardier Transportation, CAF, Eurotunnel, GE Transportation, Rothem, Siemens, SNCF, Talgo, Via Systems and Virgin Rail.



WWW.CABLEJOINTS.CO.UK
THORNE & DERRICK UK
TEL 0044 191 490 1547 FAX 0044 477 5371
TEL 0044 117 977 4647 FAX 0044 977 5582
WWW.THORNEANDDERRICK.CO.UK