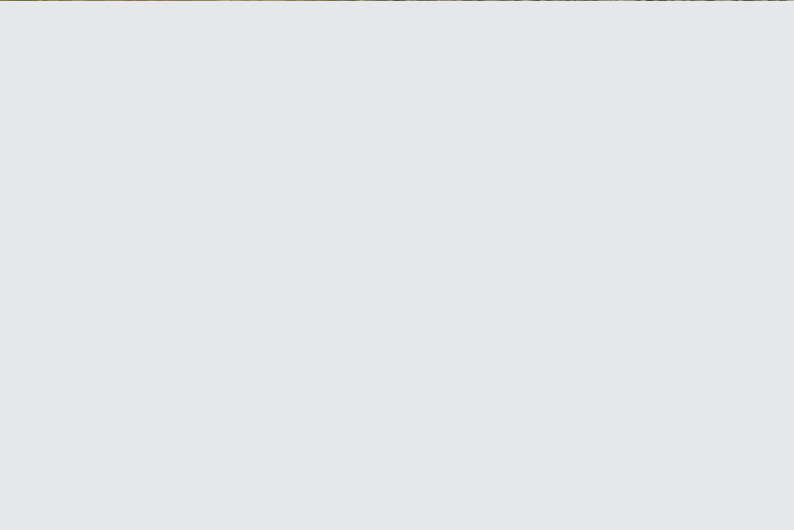


Sealing solutions for the rolling stock industry





Certified seals for cables, pipes and conduits

Make sure you are the leader within safety and operational reliability. Benefit from the world's most innovative and flexible cable and pipe entry seals.

We offer you a long-term partnership to protect your locomotives, trains and metros against multiple risks. Our standardized and tailor-made solutions cover all sealing requirements to help you ensure passenger

safety while maintaining operational performance. By providing any cable and pipe sealing solution you need, we contribute throughout the entire lifespan of your rail vehicle.

**All certificates you need to guarantee
first class protection.**

roxtec.com/rollingstock

"It is so much easier to use one seal than many cable glands."

Hansruedi Weibel, Stadler Rail

Standardize for long-term reliability

Our sealing system is recognized by all leading operators, engineers and installers who focus on speed, safety and sustainability. You can standardize with our seals to succeed on a global market and secure operation wherever your train ends up.

- Get design services and support
- Benefit from flexible customization
- Install and inspect in an easy way
- Simplify quick maintenance actions



Special solutions for you

We have an unbeatable ability to create and design seals and transits according to your specific needs. We can often very rapidly deliver tailor-made solutions on request, based upon modifications of our existing certified standard products.





Seals for rail vehicle applications

Train manufacturers all over the world rely on the Roxtec sealing system as it covers all their needs.

Solutions for any kind of train

High speed trains
EMU/DMU
Metros
LRV/streetcars
Locomotives

Solutions for any application

Roof-tops
Junction boxes
Partition walls
Floors
Converters/inverters
Pantographs
Cable management systems
HVAC systems
Air conditioning
Break systems
Hydraulic applications

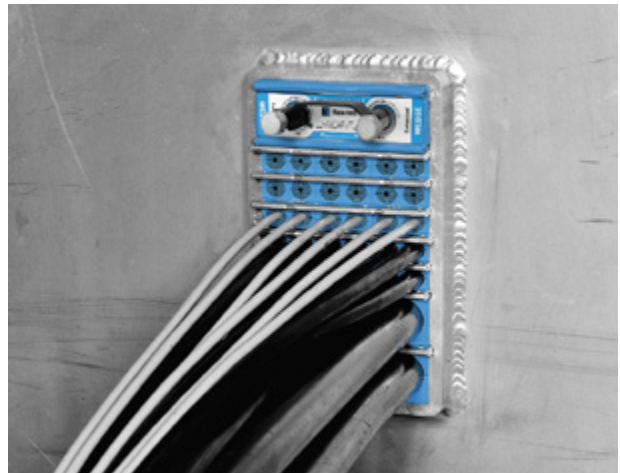


Outstanding solutions

Multi-cable transits

Seal several cables, pipes and conduits in the same opening. The transits are available for floors, walls and roof-tops.

- Area efficiency
- Fire rated protection
- Available in different materials



Conduits

Ensure fire safety and protect cables. Feed both cable bundles and various single cables through a certified barrier in:

- Roof-tops, walls and floors
- Motors and equipment
- Switchboard panels and systems



Cable management system

Fix cables with a smooth yet firm rubber-based system. Extend cable lifetime and ensure long-term functionality.

- Cable clamping
- Cable retention
- Vibration damping



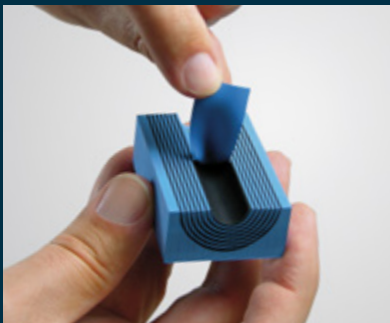
Kit solutions

Use tailor-made packages with one part number to enable standardization. The kits are optimized to cover your configuration needs.

- Minimize logistics
- Ensure cost-savings
- Increase productivity



Roxtec ensures a perfect fit, regardless of the dimension of the cable or pipe.



Roxtec Multidiameter™ is an innovation for flexibility based on removable layers.



It makes the mechanical system adaptable to cables and pipes of different sizes.



With only a few parts you get a strong reliable barrier securing operational performance.

The Roxtec sealing system is resistant to:

- Fire
- Air-shock
- Water
- Dust
- Temperature cycling
- Vibration



Tailor-made solutions

Our team of designers, engineers and test technicians are always ready to take on your sealing challenge – even if it requires the creation of a new sealing solution.

We are committed to safety and perfection and eager to use our expertise to help you. Customization of seals according to your needs is part of our complete service concept which includes everything from design support to fast deliveries.

Experience in innovation

Our certified system is often the base for our tailor-made seals, as we can supply it in other dimensions, with special frames, other rubber materials or bespoke sealing modules. Let us know your specific requirements. In many cases, we have already supplied a similar solution allowing us to respond quickly to your request.



Developing for safety

We proudly put all our extensive research and development resources, including a technical center and a material development lab, at your service. We can work closely together with your team to develop and improve seals.

We also have advanced fire and test labs where we perform tests to support the product development. The Roxtec system is, for example, tested for cable retention, vibration damping and air shocks, and certified for use in hazardous environments.

Our solutions are tested according to many standards, such as:

- EN 45545:3 up to E60
- EN 45545:2 HL3
- NFPA 130 (SMP 800-C, ASTM E162, ASTM E662)
- UL 94V0
- DIN 5510-2
- IEC 61373 (in preparation)
- IP66/67
- UL/NEMA 4, 4X, 12, 12K, 13

Roxtec support throughout the lifecycle of your project



More on [roxtec.com](https://www.roxtec.com)

“Roxtec Transit Designer™ is easy to use and understand, and helps me save time.”

Giuseppe Principato, Instrument Designer, Italy



Smart engineering tool

Roxtec Transit Designer™ is your shortcut to safety and efficiency. This free, web-based engineering tool simplifies product selection as well as the entire process that surrounds cable and pipe transits. Simply enter your input and it automatically provides you with full documentation.

- Free web-based application
- Simple product selection
- Tens of thousands of users in 100+ countries

Sign up for Roxtec Transit Designer™ at roxtec.com.

Roxtec customer references

- Bombardier Transportation
- Siemens Mobility
- CRRC Corporation Limited
- Brookville Equipment Corporation
- Alstom Transport
- PESA Bydgoszcz SA
- Stadler Rail
- Vossloh
- Kawasaki Heavy Industries
- Hyundai Rotem

See site reports on roxtec.com



Roxtec is a global company with a strong local presence

You can always reach a Roxtec representative in your region. We are present all over the world to ensure everything from quick support to smooth logistics and just in time deliveries from local stocks. It is our job to help engineers and contractors succeed if there are late changes in design or production requirements.

Reach your Roxtec contact via [roxtec.com](https://www.roxtec.com)

Protecting life and assets

Roxtec is the world leader within flexible cable and pipe transits. Since the start in Sweden in 1990 we have grown successfully to cover all continents. Our passion is innovative sealing solutions, and our goal is to make our world a safer place.

- Extensive R&D resources and advanced test facilities
- Inventor of Multidiameter™
- Customers in more than 80 markets