



Roxtec on site

Cable entry seals for expanding data centers



Protection and preparation for future needs

When building the Project Q data center in Queretaro, owner representative Santander Global Facilities México faced this challenge: How to route multiple cables and pipes through a 45 cm thick perimeter wall and still maintain its integrity?

Construction coordinator DIINESA specified Roxtec seals for sealing of power and fiber optic cables as well as steel, PVC and HDPE pipes of varying sizes. The installers from Lebank handled cables ranging from 13

to 34 mm in diameter and pipes from 29 to 305 mm. The seals are also openable to provide spare capacity. Who wants to drill new holes for every additional cable?

The Santander company instantly saw the Roxtec sealing system as the perfect solution for their needs.

“For all the buildings in my care that are either data centers or offices we will build with Roxtec solutions.”

David Romero Montes de Oca, Santander Global Facilities

High safety demands

Special concrete and waterproofing solutions were used to ensure the impermeability of the wall surface, so the transits had to meet the same strict requirements.

The wall was made of high-strength concrete making it difficult to open a passage for future installations. That is why the goal was to leave transit preparations for easy upgrades.

Customized solution

It was crucial to find a way of holding together many pairs of sleeves with Roxtec transits at a distance of 45 cm. DIINESA and Roxtec solved the problem with custom-made steel structures that were cast between the grillage foundation allowing only small tolerances between walls. The steel structures hold together seals and frames through a pair of sleeves connected with paper casting molds.

By using Roxtec seals, the projects partners were able to meet sealing requirements, maintain wall integrity and prepare Project Q for future needs.

Why use Roxtec?

- Certified protection
- Solution for cables and metal and plastic pipes
- Flexibility for cables and pipes of different sizes
- Built-in spare capacity for future needs
- Customized solutions



Project facts

Project description

Construction of data center in the city of Queretaro, Mexico

Owner

Santander Financial Group/Santander Global Facilities

Design and engineering

Kaplan McLaughlin Diaz (KMD) México and Desarrollo Integral en Ingeniería Eléctrica, S.A. de C.V. (DIINESA)

Contractors

Lebanc, S.A. de C.V. and DCI Constructions

Installations

Dasby, S.A. de C.V.

Applications

Sealing of cables and pipes of different sizes routed through a 45 cm thick perimeter wall

Sealing requirements

- Watertight
- Fire barrier
- Protection against dust and vermin

See more on [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
- Customers in more than 80 markets
- Inventor of Multidiameter™