

# Focus: Lift Shaft

PohlCon

PARTNER FROM START TO FUTURE.

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# All About Lift Shafts

## PohlCon – Partner from Start to Future.

Lifts are regarded as one of the safest means of transport. The lift shaft plays a vital role in this by protecting the car and equipment, shielding against hazards and enabling the controlled transport of people and loads.

**Expertise and quality – our commitment**
As a manufacturer of high-quality construction products for lift shafts, PohlCon has been your reliable partner for many years.
Alongside an extensive product range, we offer our customers a comprehensive range of services: From consulting and planning to manufacturing and delivery, all the way to installation and construction support, we provide guidance every step of the way.

Our product solutions and systems cover a wide range of applications:

To minimise sound transmission, the elevator insulation acoustically decouples the lift guide rail from the building. Reverse bending connectors provide a force-fit connection between concrete components. Anchor channels and stop fastenings allow loads to be safely supported and secured. Joint sheets are available for waterproofing structures in accordance with the German Watertight Concrete Guideline (WU Guideline).

**Tailored solutions are our strength**
At PohlCon, we draw on our long-standing experience and the trust placed by customers in our services to meet even very particular requirements.

Whether it's special dimensions or tailored solutions: Unique challenges are our strength.

**Our product solutions for lift shafts:**
Sound insulation | Fastening | Sealing
Reinforcement



This publication provides an overview of our lift shaft portfolio.
For detailed information on the products, please refer to the **technical information brochures** and **price lists** for the specific products.

The contents of this publication are for information purposes only. Certain products may not be available in individual countries. The country-specific laws, standards, and guidelines apply in each case.

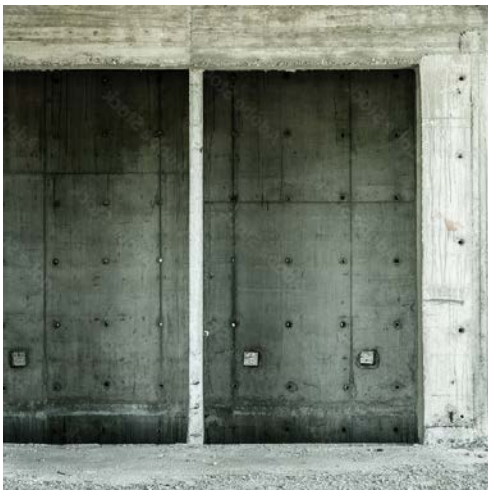
# Product Solutions, Tailored to Your Needs



### Enhanced acoustic comfort and building protection

Vibrations caused by lift operation travel deep into the building through its supporting structure, resulting in material fatigue and noise pollution. Our **JAI elevator insulation** has a damping effect and provides acoustic decoupling.

Effectively protect your building against noise and vibrations.



### Flexibility for construction tolerances and design changes

Whether it's dimensional deviations in the concrete or subsequent design changes: Our **JTA anchor channels** allow for fast, precise adjustments without laborious rework.

Benefit from greater flexibility and planning certainty thanks to freely positionable fastening points.



### Secured to withstand earthquakes

**JXA toothed anchor channels** are used in seismically active areas. Combined with matching toothed t-bolts, they absorb significant loads from longitudinal tension, transverse tension and centric tension.

In the event of an earthquake, our profiles provide a high load-bearing capacity and resilience, even with crack widths of up to 1.5 mm.



### Safe maintenance

Lift shaft anchors, lift shaft slings and scaffold shoes are the first choice for maintenance and installation work. They hold loads and scaffolding securely in place and take up very little space in the shaft.

Benefit from **temporary lifting and fastening points** in both new and existing buildings.



### Planning certainty with BIM and digital solutions

Increasing demands for cost certainty and reliable schedules make efficient, transparent planning essential. BIM helps prevent planning errors and enables designs to be developed with the entire life cycle in mind. PohlCon provides high-quality **BIM and CAD data** as well as **software solutions** for this purpose.

Integrate our digital offering into your project - quickly and easily in just a few clicks.

# Systematic Sound Insulation

An essential requirement for lift systems is effective acoustic decoupling of the guide rail from the building structure.

By combining JAI elevator insulation with JTA W anchor channels or JM W mounting channels, PohlCon offers perfectly matched product solutions that meet the highest demands in terms of sound insulation and safety.

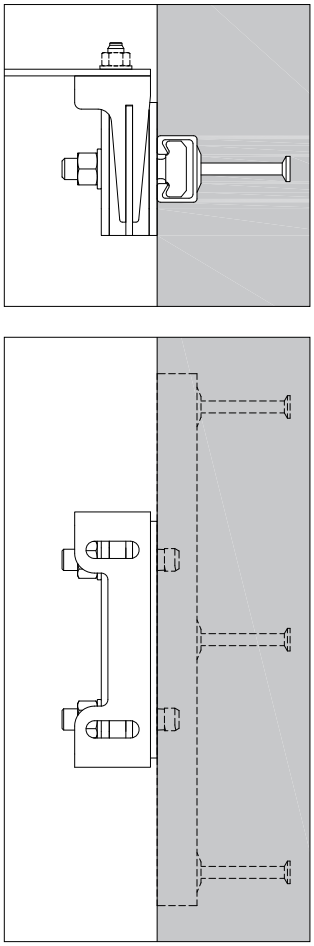
**JAI elevator insulation**
JAI elevator insulation acts as a decoupling damping element between the shaft wall and the guide rail.
Its sandwich design featuring elastomer and steel elements reduces the transmission of vibrations and structure-borne sound via fastening points. Different versions allow adaptation to the specific project.

**JTA W anchor channel**
In new buildings, the JTA W anchor channel provides a permanently load-bearing anchorage for the elevator insulation and guide rail in the concrete. It is designed for high static and dynamic loads and allows drill-free installation using bolted connections.

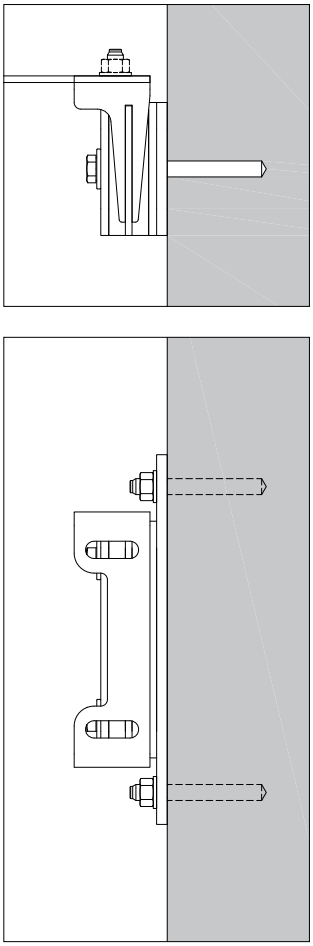
**JM W mounting channel**
The JM W mounting channel is the right choice for existing buildings. It is easy to install, can be flexibly adapted and is designed for high static and dynamic loads.

Both system solutions stand out for their economical design, ease of installation and low maintenance requirements.

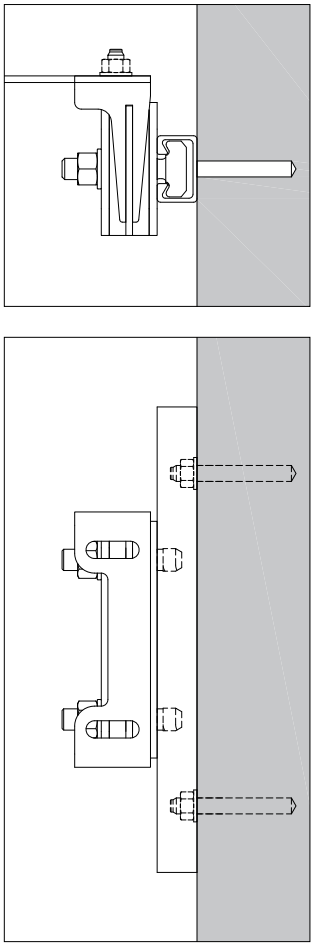
## Fastening Options



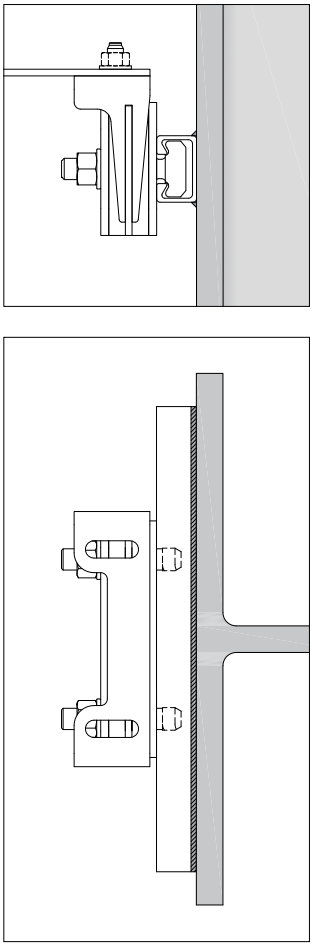
JAI elevator insulation on
JTA W anchor channel



JAI elevator insulation on wall;
JAI dowelled



JAI elevator insulation on
JM W mounting channel;
JM W dowelled



JAI elevator insulation on
JM W mounting channel;
JM W welded to steel beam



JAI elevator insulation on JTA W anchor channel

# Product Overview

With optimised solutions for shell construction, PohlCon meets the most demanding requirements of modern building projects.
JAI elevator insulation reliably minimises the transmission of sound and vibrations in the lift shaft. Anchor channels provide permanent anchorage in concrete, while lift shaft stop fastenings improve occupational safety during installation and maintenance work in the shaft. FERBOX® reverse bending connectors create force-fit connections between individual concreting sections, while PENTAFLEX® joint sheets are used to seal the construction joints.

## Sound Insulation

- **Elevator Insulation**
  for acoustically decoupling fastening points

## Fastening

- **Anchor Channels – standard version**
  for the flexible fastening of companion structures exposed to static and dynamic loads
- **Anchor Channels – version with toothed channel lip**
  for the flexible fastening of companion structures exposed to static, dynamic, and seismic loads
- **Lift Shaft Anchors**
  lifting point for casting into the shaft ceiling
- **Lift Shaft Slings**
  lifting point for subsequent installation in the shaft ceiling
- **Scaffold Shoes**
  for the safe installation of scaffolding in the lift shaft
- **Edge Protection Angles**
  for protecting wall and column corners

## Sealing

- **Joint Sheets – coated**
  for sealing construction joints between concreting sections

## Reinforcement

- **Reverse Bending Connectors**
  for reinforcement and force-fit connection of reinforced concrete components





## Sound Insulation

### Elevator Insulation

**JAI; for acoustically decoupling fastening points**



- reduces structure-borne sound transmitted through the guide rail by up to 26 dB
- for new and existing lift systems
- sandwich design comprising elastomer inserts, steel plates and hook-head t-bolts
- various versions for different types of lifts
- ideally suited for use with JTA W anchor channels
- perforated housing allows for easy compensation of structural tolerances
- made of electrogalvanised steel
- custom solutions available on request

## Fastening

### Anchor Channels – standard version

**JTA K, JTA W; for the flexible fastening of companion structures exposed to static and dynamic loads**



- approved for installation in components with fire protection requirements
- suitable for cracked and non-cracked concrete
- easy compensation of structural tolerances
- optimized channel utilisation thanks to small edge distances
- cold-formed or hot-rolled
- range of versions, profile sizes, and lengths
- made of galvanized steel or stainless steel for various requirements

### Anchor Channels – version with toothed channel lip

**JXA W; for the flexible fastening of companion structures exposed to static, dynamic, and seismic loads**



- highly suitable for sensitive buildings and areas with extreme environmental influences
- for high tightening torques, fatigue-resistant up to the working load limit
- suitable for cracked and non-cracked concrete
- easy compensation of construction tolerances
- optimized channel utilisation thanks to small edge distances
- hot-rolled, low residual stress
- range of versions, profile sizes, and lengths
- made of galvanized steel or stainless steel for various requirements

### Lift Shaft Anchor

**JLF; lifting point for material loads to be cast into the shaft ceiling**



- ideally suited for new installations
- for slim concrete slabs from 130 mm thick
- secured to prevent twisting
- can be installed even with small edge clearances
- shackle can be quickly folded out and stowed flush with the ceiling
- supplied ready for installation in load classes of 20 kN and 40 kN
- load class easily identified by the colour of the housing

For detailed information, please refer to the technical information brochures for each product.

### Lift Shaft Slings

**JLS; lifting point for material loads for subsequent installation in the shaft ceiling**



- ideally suited for existing installations
- can be positioned individually thanks to subsequent through-bolt installation
- secured to prevent twisting
- flexible wire rope loop secured against unscrewing
- supplied ready for installation in load classes of 25 kN and 40 kN
- components made of steel and electrogalvanised steel

### Scaffold Shoes

**JG; for the safe installation of scaffolding in the lift shaft**



- can be used with JGHK and JGHS scaffold sleeves
- various types for different load levels
- load transfer of up to 18.5 kN
- load class easily identified by the colour of the paint finish
- made of galvanised steel or steel with an anti-corrosion coating
- special widths can be realized on request

### Edge Protection Angles

**JKW; for protecting wall and column corners**



- ideally suited for buildings with vehicle traffic
- easy to install thanks to bendable round steel anchors
- neat concrete finish thanks to a 92° angle
- various versions and lengths
- made of galvanized steel or stainless steel for various requirements

## Sealing

### Joint Sheets – coated

**PENTAFLEX KB® 167; for sealing construction joints between concreting sections**



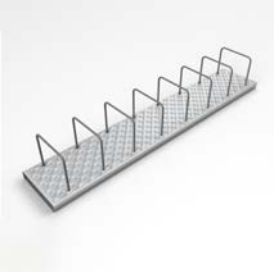

- galvanized sheet steel with special coating
- low anchoring depth of 30 mm
- guide marking for continuous monitoring of correct installation
- for water under pressure and water not under pressure
- no molded parts required

For detailed information, please refer to the technical information brochures for each product.

# Reinforcement

## Reverse Bending Connectors

**FERBOX®; for reinforcement and force-fit connection of reinforced concrete components**



- quick installation in walls, ceilings, and stairwells
- highest category of toothed joints in transverse and longitudinal directions
- galvanized steel reinforcement box and cover, recyclable
- custom build on request

# Reference Projects

With our systems, solutions and the necessary expertise, we support partners, planners and decision-makers around the world with their projects.

The overview shows a selection of construction projects in which PohlCon was involved in lift installation.



Burj Khalifa, Dubai [UAE]



UNESCO World Heritage Bauhaus – Arcade houses, Dessau




Gengenbach Town Hall, Gengenbach




ARTEVINI Resort & Winery, Velké Pavlovice [CZE]




Museum of Contemporary Art Siegen, Siegen




Estrel Tower, Berlin



Lokstedter Steindamm residential complex, Hamburg

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