

# Floor ducts

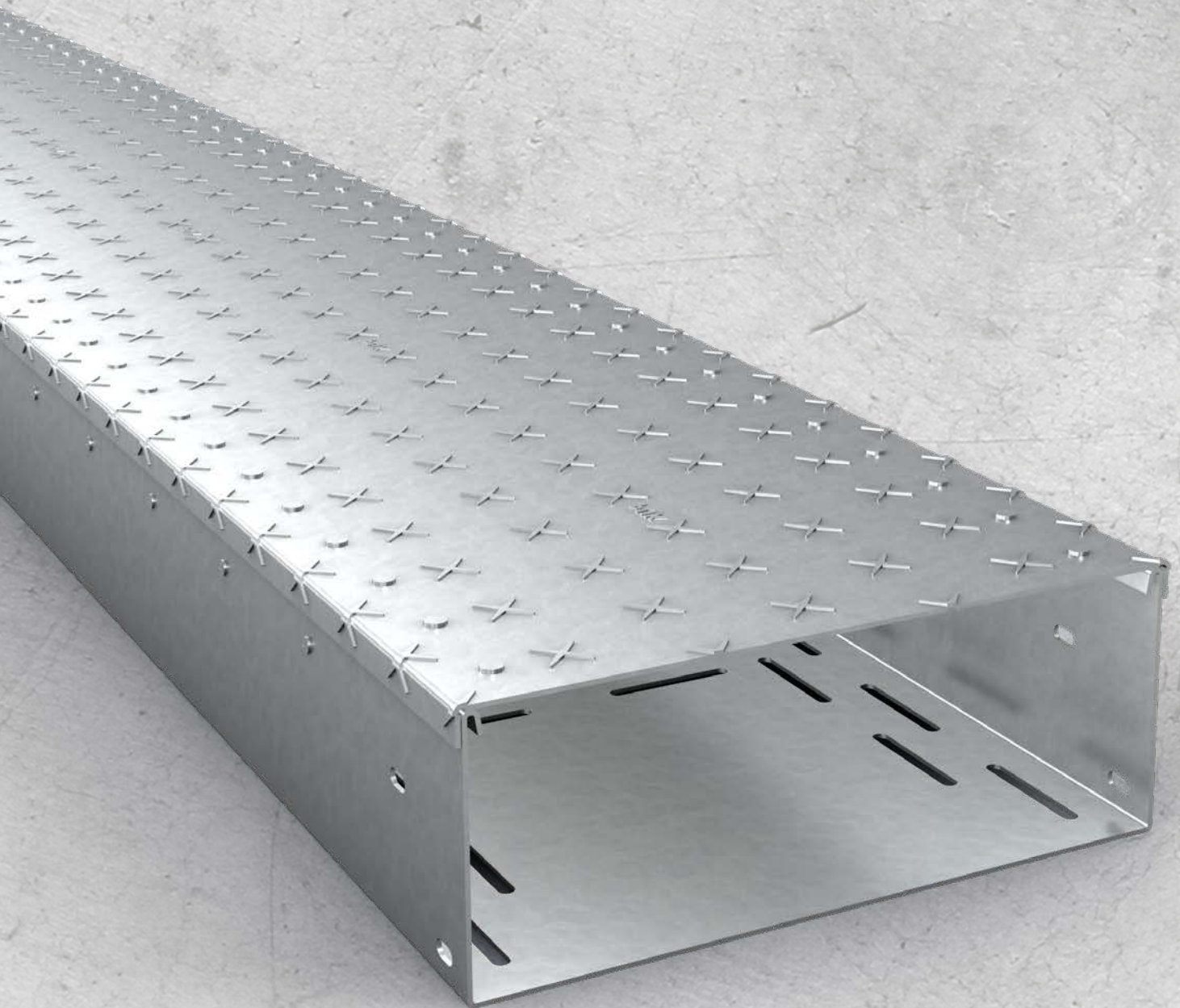
Technical information





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# Walkable floor ducts

for the plant construction and automotive sectors

## Product description

The walkable floor ducts that PohlCon markets under its PUK brand are intended for routing cables close to the ground. They are the key to creating a safe and efficient supply infrastructure, particularly in the context of fully automated production lines and plant construction. Supply lines of all kinds – such as electricity and data cables as well as pneumatic and hydraulic lines – can be organised and safely laid inside the system, which is completely sealed off from the outside world. This ensures that they are protected against flying sparks, dirt and other mechanical influences.

The floor ducts can be installed directly on the floor or elevated above it on suitable components. Thanks to the robust covers featuring outstanding slip-resistant properties, they are fully suitable for walking on. Our BKD-RHP cover has a guaranteed load-bearing capacity of 5 kN (tested and certified in accordance with DIN EN 50085) and a slip resistance class of R12 in accordance with DIN 51130 and DGUV Rule 108-003 (BGR 181). The same high slip resistance class also applies to our RHP fitting cover, thereby ensuring the required level of non-slip safety.

On the sides of the BK floor ducts, you will find a row of pre-punched slugs that can easily be pushed out using a knock-out tool. Various elements, including equipotential bonding components, can then be attached to the resulting side holes. Naturally, our floor ducts have been tested for electrical conductivity in accordance with DIN EN 61537 and for electromagnetic compatibility (EMC) in accordance with DIN CLC/TR 50659.

Thanks to our extensive range of formed parts, covers and accessories, we can accommodate any application. The variable formed parts in particular make for quick, flexible and user-friendly assembly. Our experts will be happy to help you with the processes of planning and installing your floor ducts.

## Areas of application



Industrial halls and production facilities



Machine and plant construction



Automotive sector



## Benefits

- Efficient and secure system solution
- Protects cables and supply lines against flying sparks and mechanical influences
- High slip resistance class of R12
- Designed for walk-on loads of up to 5 kN
- Completely flexible assembly thanks to a wide range of easy-to-install formed parts
- Less effort required for assembly
- Allows you to lay energy, electricity and data cables with ease
- Customised attachment of equipotential bonding solutions using the pre-punched side holes
- Retrofittable system



## Technical certifications

- Slip resistance and non-slip safety in accordance with DIN 51130 and DGUV Rule 108-003 (BGR 181)
- Load-bearing requirements in accordance with DIN EN 50085
- Electrical conductivity in accordance with DIN EN 61537
- EMC protection in accordance with DIN CLC/TR 50659

# System overview

Floor ducts are intended for laying cables and supply lines in industrial halls and production facilities within the plant construction and automotive sectors. If compressed air or cooling water systems (for example) are going to be installed underneath the floor duct system, it is absolutely essential to choose the right components for elevating the floor duct. The BKH and BKHR floor duct brackets and BKHC C-clip are ideal for this. Other options for elevating the floor duct system are the KHA 41 profile rails and KHZ Z-profile. Custom solutions can also be provided.

Our BKZ floor duct Z-profile can be used to lay additional lines that need to be routed separately from other cables. Mounting on the side wall of the floor duct, it is the only product of its kind on the market.

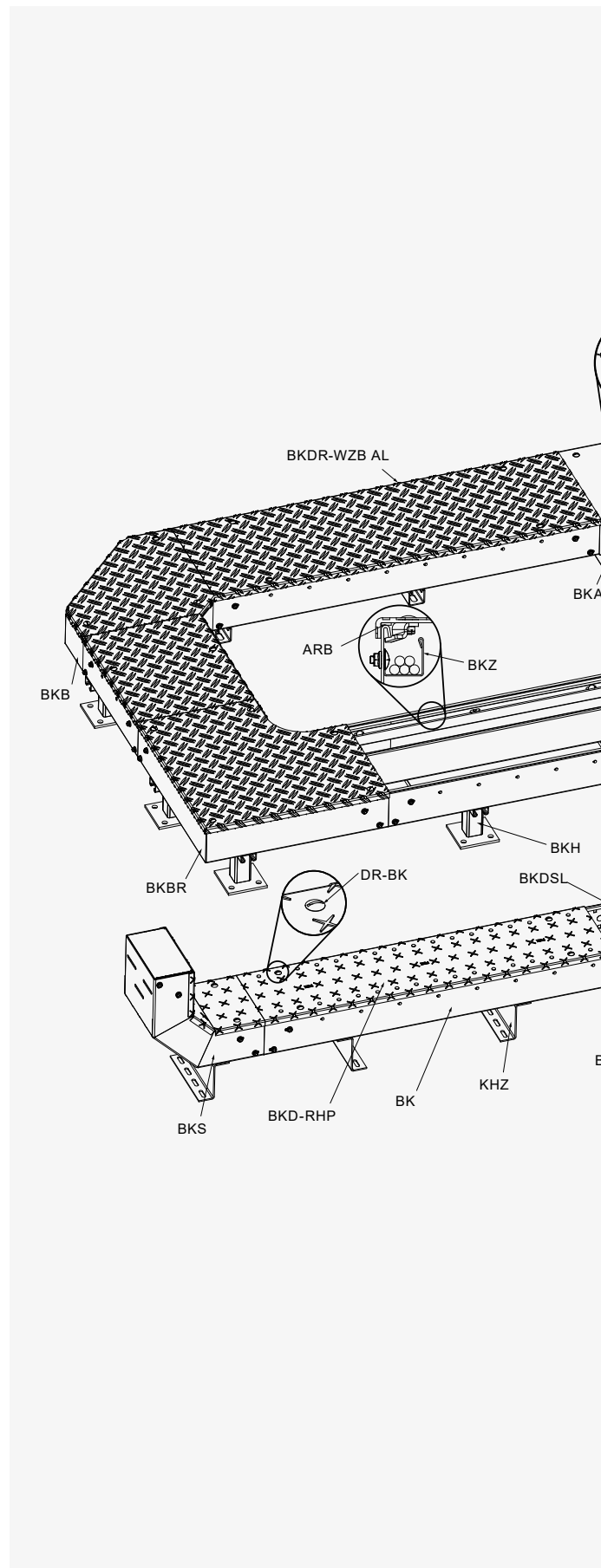
## Formed parts: Flexible and easy to assemble

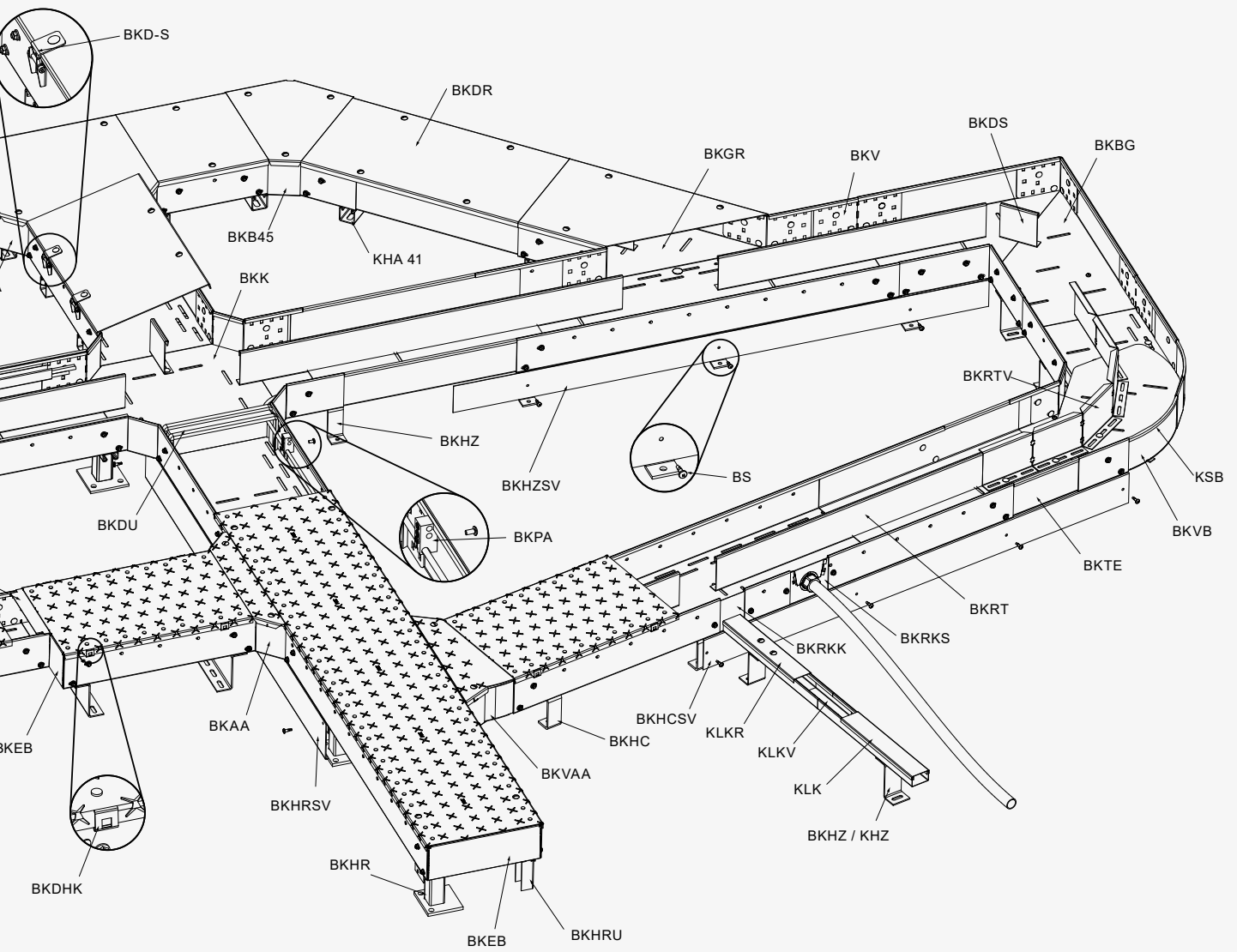
To ensure correct loading, one BKRT separating strip must be installed whenever the floor duct width is 300 mm or above – or two strips if the width is 500 mm or above. In doing so, a maximum compartment size of 200 mm must not be exceeded. The aforementioned components are also available in a variable version for use in conjunction with the BKVB variable floor duct bend. This enables horizontal changes in direction to be configured for the cable run within an angular range of 0° to 90°. Our BKVAA attachment branch is similarly variable and allows cables to branch off horizontally to both sides at an angle of 0° to 30°. As a result, changes in direction can be custom-configured for floor ducts in no time using the easy-to-assemble elements.

Another component that offers complete flexibility in terms of assembly is our BKTE floor duct telescopic insert. This product is truly one of a kind, enabling the length to be fully adjusted between 150 and 650 mm. This massively reduces the amount of cutting work required and, in turn, the costs. Subsequent changes can be made to the system with very little effort.

## Covers: Robust and safe to walk on

The covers for our floor ducts and formed parts are available in three different surface finishes and feature slip resistance classes of up to R12. Consequently, they offer a high level of safety and grip. With the BKD-RHP floor duct covers, you have the option of securing them to the floor ducts using turning bolts or cover clamps, which can be ordered separately. The range is rounded off by the BKS inside riser bend, BKDSL cover protection strips and plenty more besides. Should you wish to connect any small ducts and cable protective tubes to our floor ducts, the BKRKK and BKRKS floor duct reducers are available for this purpose. Just get in touch! Take advantage of our extensive range and allow us to advise you on your specific application!

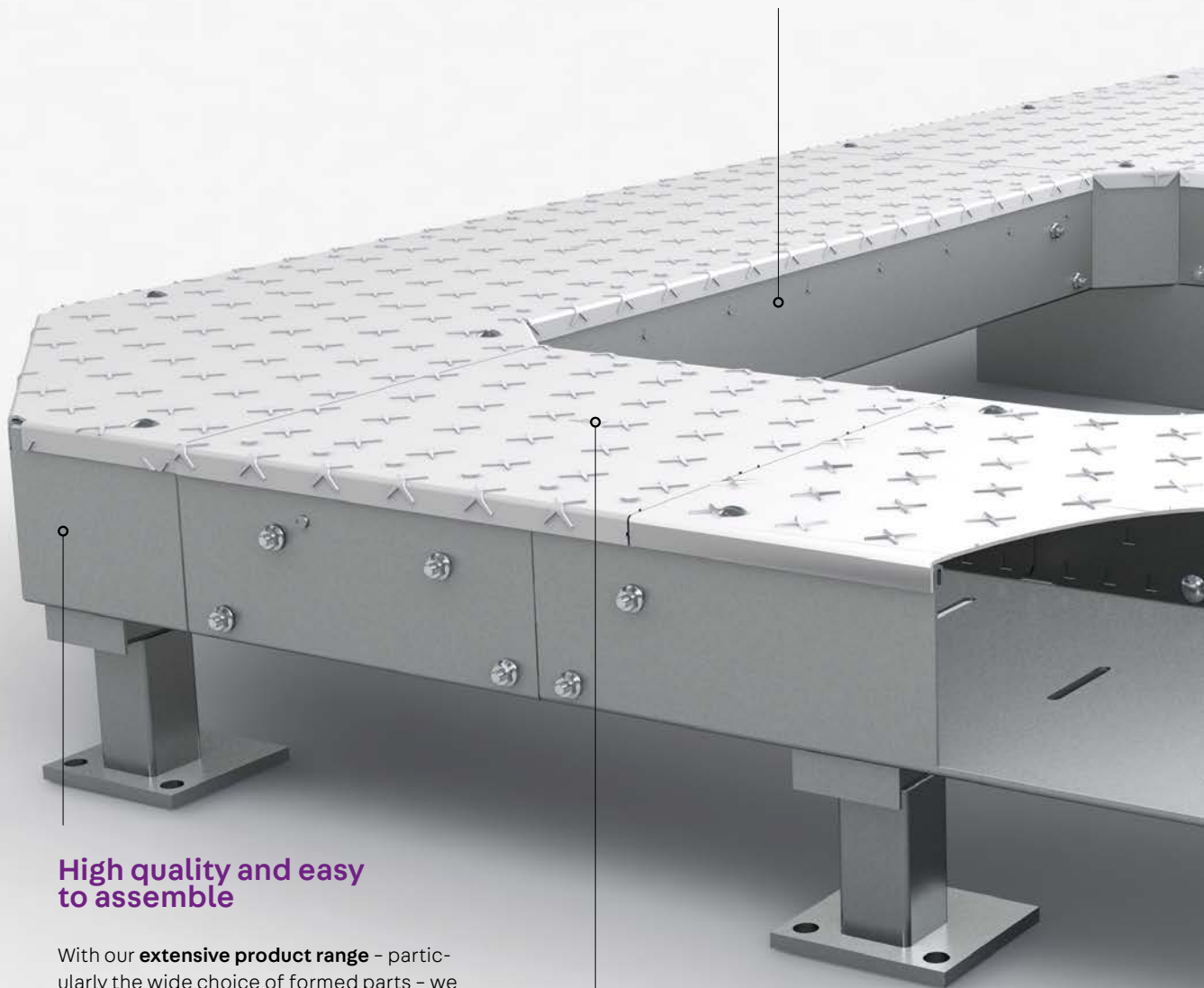




# We've got it covered!

## Flexible installation of equipotential bonding components

On the sides of the floor ducts, **there is a row of slugs that can be easily pushed out** for the purpose of attaching equipotential bonding components. This allows the duct system to be integrated into the equipotential bonding arrangement of the entire system during the electrical installation work



## High quality and easy to assemble

With our **extensive product range** – particularly the wide choice of formed parts – we facilitate the safe and efficient installation of floor ducts in a flexible way.

## More than a match for heavy loads

Our floor duct covers are safe to walk on and, depending on the version, **can support loads of up to 5 kN.**



## Maximum work safety

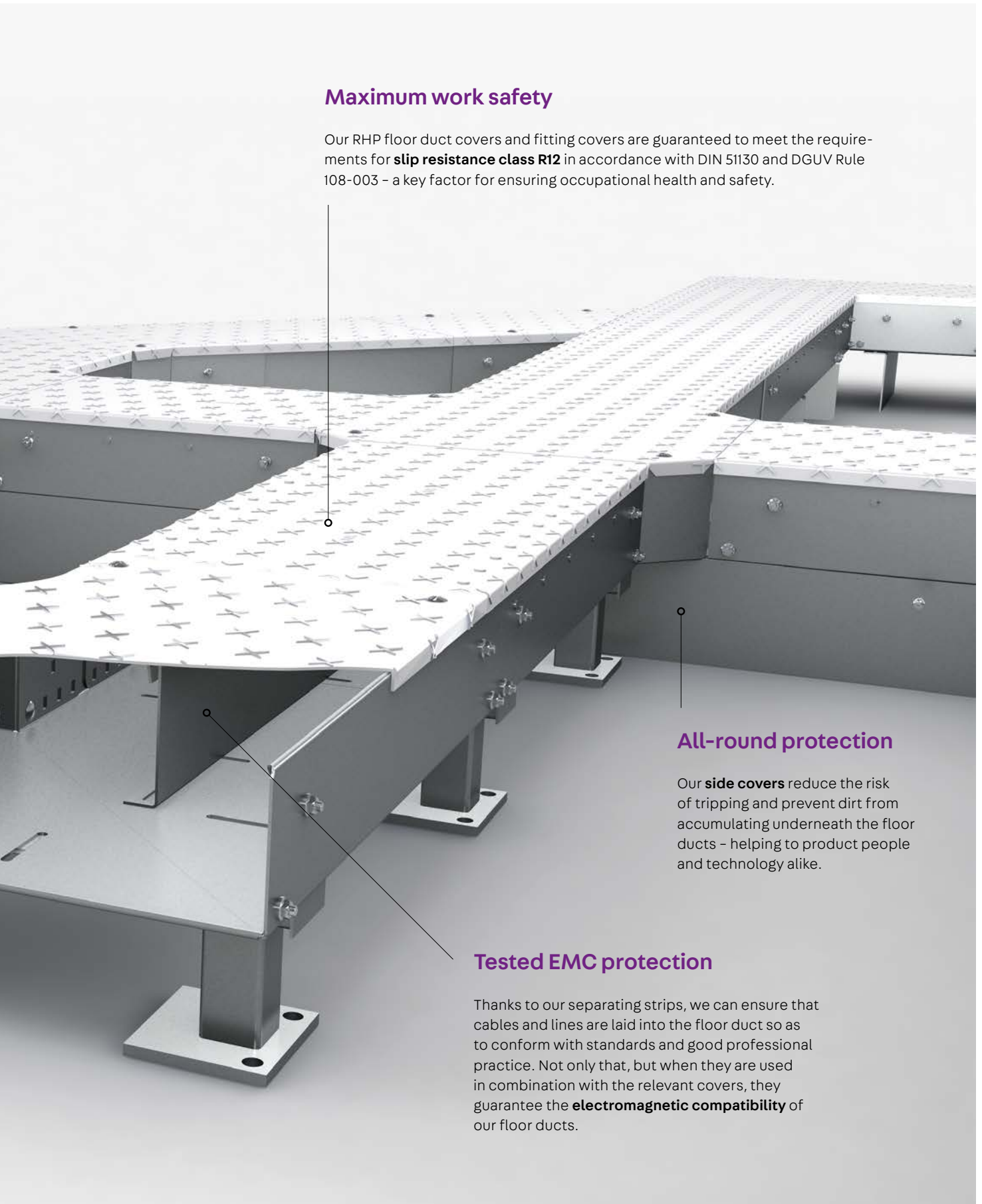
Our RHP floor duct covers and fitting covers are guaranteed to meet the requirements for **slip resistance class R12** in accordance with DIN 51130 and DGUV Rule 108-003 – a key factor for ensuring occupational health and safety.

## All-round protection

Our **side covers** reduce the risk of tripping and prevent dirt from accumulating underneath the floor ducts – helping to protect people and technology alike.

## Tested EMC protection

Thanks to our separating strips, we can ensure that cables and lines are laid into the floor duct so as to conform with standards and good professional practice. Not only that, but when they are used in combination with the relevant covers, they guarantee the **electromagnetic compatibility** of our floor ducts.



# BK 100

Floor duct with pre-punched side holes,  
height = 100 mm



## Product description

The BK 100 floor duct has a side height of 100 mm and is available in widths ranging from 100 to 600 mm. Along the side, there is a row of pre-punched slugs spaced 100 mm apart. These can be easily knocked out, enabling you to attach elements such as equipotential bonding. When covers with certified slip resistance classes are used and the support distances are planned precisely, the floor duct is safe to walk on. EMC measurements and electrical conductivity testing is fully documented



## Areas of application

- Industrial halls and production facilities
- Machine and plant construction
- Automotive sector



## Benefits

- Protects cables and supply lines against flying sparks and mechanical influences
- Features slugs along the side that can be knocked out for easy attachment of elements such as equipotential bonding
- Variable design allows the system to be adjusted for various areas of application
- Special solutions available on request
- Planning, installation and service

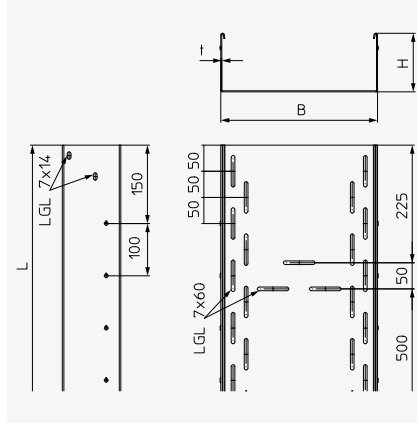
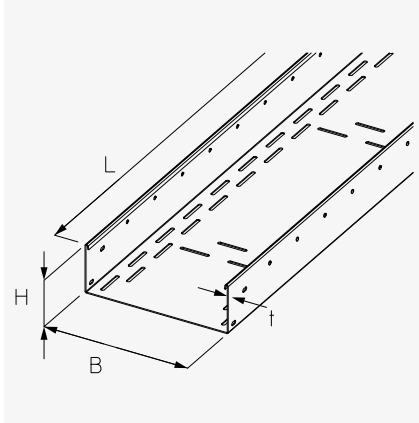
## Available surface coatings and materials

- S** Sendzimir hot-dip galvanised in accordance with DIN EN 10346



UL classified

## Technical data



| Item number    | H<br>mm | B<br>mm | L<br>mm | t<br>mm | G S<br>kg |
|----------------|---------|---------|---------|---------|-----------|
| BK 100-10S     | 100     | 100     | 3,000   | 2.0     | 15.01     |
| BK 100-15S     | 100     | 150     | 3,000   | 2.0     | 17.30     |
| BK 100-20S     | 100     | 200     | 3,000   | 2.0     | 19.66     |
| BK 100-30S     | 100     | 300     | 3,000   | 2.0     | 24.31     |
| BK 100-40S     | 100     | 400     | 3,000   | 2.0     | 29.02     |
| BK 100-50S     | 100     | 500     | 3,000   | 2.0     | 33.67     |
| BK 100-60S     | 100     | 600     | 3,000   | 2.0     | 38.31     |
| BK 1.5-100-10S | 100     | 100     | 1,500   | 2.0     | 7.49      |
| BK 1.5-100-15S | 100     | 150     | 1,500   | 2.0     | 8.65      |
| BK 1.5-100-20S | 100     | 200     | 1,500   | 2.0     | 9.83      |
| BK 1.5-100-30S | 100     | 300     | 1,500   | 2.0     | 12.15     |
| BK 1.5-100-40S | 100     | 400     | 1,500   | 2.0     | 14.51     |
| BK 1.5-100-50S | 100     | 500     | 1,500   | 2.0     | 16.83     |
| BK 1.5-100-60S | 100     | 600     | 1,500   | 2.0     | 19.16     |

H: Height | B: Width | L: Length | t: Material thickness | G: Weight | Surf./mat.: Surface/materials  
The standard length of 3 m is not explicitly stated in the item number.



To dissipate vertical live loads, one separating strip must be installed in the floor duct for widths  $\geq 300$  mm and two separating strips for widths  $\geq 500$  mm. A maximum compartment size of 200 mm must not be exceeded.



### Example order

| Model     | H (mm)     | - | B (cm)    | Surf./mat. |
|-----------|------------|---|-----------|------------|
| <b>BK</b> | <b>100</b> | - | <b>10</b> | <b>S</b>   |

| Item number         | H<br>mm | B<br>mm | L<br>mm | t<br>mm | G S<br>kg |
|---------------------|---------|---------|---------|---------|-----------|
| <b>BK 1-100-10S</b> | 100     | 100     | 1,000   | 2.0     | 4.98      |
| <b>BK 1-100-15S</b> | 100     | 150     | 1,000   | 2.0     | 5.77      |
| <b>BK 1-100-20S</b> | 100     | 200     | 1,000   | 2.0     | 6.56      |
| <b>BK 1-100-30S</b> | 100     | 300     | 1,000   | 2.0     | 8.11      |
| <b>BK 1-100-40S</b> | 100     | 400     | 1,000   | 2.0     | 9.68      |
| <b>BK 1-100-50S</b> | 100     | 500     | 1,000   | 2.0     | 11.23     |
| <b>BK 1-100-60S</b> | 100     | 600     | 1,000   | 2.0     | 12.77     |

H: Height | B: Width | L: Length | t: Material thickness | G: Weight | Surf./mat.: Surface/materials  
 The standard length of 3 m is not explicitly stated in the item number.



To dissipate vertical live loads, one separating strip must be installed in the floor duct for widths  $\geq 300$  mm and two separating strips for widths  $\geq 500$  mm. A maximum compartment size of 200 mm must not be exceeded.



**Example order**

| Model       | H (mm)     | - | B (cm)    | Surf./mat. |
|-------------|------------|---|-----------|------------|
| <b>BK 1</b> | <b>100</b> | - | <b>10</b> | <b>S</b>   |

# BK 110

Floor duct with pre-punched side holes,  
height = 110 mm



## Product description

The BK 110 floor duct has a side height of 110 mm and is available in widths ranging from 100 to 600 mm. Along the side, there is a row of pre-punched slugs spaced 100 mm apart. These can be easily knocked out, enabling you to attach elements such as equipotential bonding. When covers with certified slip resistance classes are used and the support distances are planned precisely, the floor duct is safe to walk on. EMC measurements and electrical conductivity testing is fully documented



## Areas of application

- Industrial halls and production facilities
- Machine and plant construction
- Automotive sector



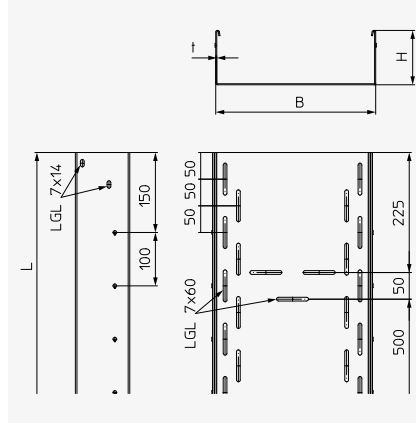
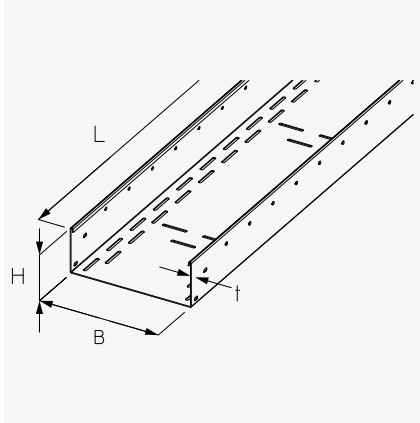
## Benefits

- Protects cables and supply lines against flying sparks and mechanical influences
- Features slugs along the side that can be knocked out for easy attachment of elements such as equipotential bonding
- Variable design allows the system to be adjusted for various areas of application
- Special solutions available on request
- Planning, installation and service

## Available surface coatings and materials

- S** Sendzimir hot-dip galvanised in accordance with DIN EN 10346

## Technical data



| Item number           | H<br>mm | B<br>mm | L<br>mm | t<br>mm | G S<br>kg |
|-----------------------|---------|---------|---------|---------|-----------|
| <b>BK 110-10S</b>     | 110     | 100     | 3,000   | 2.0     | 15.95     |
| <b>BK 110-15S</b>     | 110     | 150     | 3,000   | 2.0     | 18.25     |
| <b>BK 110-20S</b>     | 110     | 200     | 3,000   | 2.0     | 20.60     |
| <b>BK 110-30S</b>     | 110     | 300     | 3,000   | 2.0     | 25.25     |
| <b>BK 110-40S</b>     | 110     | 400     | 3,000   | 2.0     | 29.96     |
| <b>BK 110-50S</b>     | 110     | 500     | 3,000   | 2.0     | 34.61     |
| <b>BK 110-60S</b>     | 110     | 600     | 3,000   | 2.0     | 39.26     |
| <b>BK 1.5-110-10S</b> | 110     | 100     | 1,500   | 2.0     | 7.96      |
| <b>BK 1.5-110-15S</b> | 110     | 150     | 1,500   | 2.0     | 9.12      |
| <b>BK 1.5-110-20S</b> | 110     | 200     | 1,500   | 2.0     | 10.30     |
| <b>BK 1.5-110-30S</b> | 110     | 300     | 1,500   | 2.0     | 12.62     |
| <b>BK 1.5-110-40S</b> | 110     | 400     | 1,500   | 2.0     | 14.98     |
| <b>BK 1.5-110-50S</b> | 110     | 500     | 1,500   | 2.0     | 17.30     |
| <b>BK 1.5-110-60S</b> | 110     | 600     | 1,500   | 2.0     | 19.63     |

H: Height | B: Width | L: Length | t: Material thickness | G: Weight | Surf./mat.: Surface/materials  
The standard length of 3 m is not explicitly stated in the item number.



To dissipate vertical live loads, one separating strip must be installed in the floor duct for widths  $\geq 300$  mm and two separating strips for widths  $\geq 500$  mm. A maximum compartment size of 200 mm must not be exceeded.



### Example order

| Model     | H (mm)     | - | B (cm)    | Surf./mat. |
|-----------|------------|---|-----------|------------|
| <b>BK</b> | <b>110</b> | - | <b>10</b> | <b>S</b>   |

| Item number         | H<br>mm | B<br>mm | L<br>mm | t<br>mm | G S<br>kg |
|---------------------|---------|---------|---------|---------|-----------|
| <b>BK 1-110-10S</b> | 110     | 100     | 1,000   | 2.0     | 5.32      |
| <b>BK 1-110-15S</b> | 110     | 150     | 1,000   | 2.0     | 6.09      |
| <b>BK 1-110-20S</b> | 110     | 200     | 1,000   | 2.0     | 6.87      |
| <b>BK 1-110-30S</b> | 110     | 300     | 1,000   | 2.0     | 8.42      |
| <b>BK 1-110-40S</b> | 110     | 400     | 1,000   | 2.0     | 9.99      |
| <b>BK 1-110-50S</b> | 110     | 500     | 1,000   | 2.0     | 11.87     |
| <b>BK 1-110-60S</b> | 110     | 600     | 1,000   | 2.0     | 13.09     |

H: Height | B: Width | L: Length | t: Material thickness | G: Weight | Surf./mat.: Surface/materials  
 The standard length of 3 m is not explicitly stated in the item number.



To dissipate vertical live loads, one separating strip must be installed in the floor duct for widths  $\geq 300$  mm and two separating strips for widths  $\geq 500$  mm. A maximum compartment size of 200 mm must not be exceeded.



**Example order**

| Model       | H (mm)     | - | B (cm)    | Surf./mat. |
|-------------|------------|---|-----------|------------|
| <b>BK 1</b> | <b>110</b> | - | <b>10</b> | <b>S</b>   |

# Formed parts



## BKTE 100/110

Floor duct telescopic insert with a flexible adjustment range of 150 to 650 mm.

| H   | B                                 | L   | t   | Surf./mat. |
|-----|-----------------------------------|-----|-----|------------|
| mm  | mm                                | mm  | mm  |            |
| 100 | 100, 150, 200, 300, 400, 500, 600 | 700 | 1.5 | <b>S</b>   |
| 110 | 100, 150, 200, 300, 400, 500, 600 | 700 | 1.5 | <b>S</b>   |



### Example order

| Model       | H (mm)     | - | L (mm)     | - | B (cm)    | Surf./mat. |
|-------------|------------|---|------------|---|-----------|------------|
| <b>BKTE</b> | <b>100</b> | - | <b>700</b> | - | <b>10</b> | <b>S</b>   |



## BKB 100/110

90° floor duct bend

| H   | B                                 | t   | Surf./mat. |
|-----|-----------------------------------|-----|------------|
| mm  | mm                                | mm  |            |
| 100 | 100, 150, 200, 300, 400, 500, 600 | 2.0 | <b>S</b>   |
| 110 | 100, 150, 200, 300, 400, 500, 600 | 2.0 | <b>S</b>   |



### Example order

| Model      | H (mm)     | - | B (cm)    | Surf./mat. |
|------------|------------|---|-----------|------------|
| <b>BKB</b> | <b>100</b> | - | <b>10</b> | <b>S</b>   |



## BKBG 100/110

90° floor duct bend with mitre cut

| H   | B                                 | t   | Surf./mat. |
|-----|-----------------------------------|-----|------------|
| mm  | mm                                | mm  |            |
| 100 | 100, 150, 200, 300, 400, 500, 600 | 2.0 | <b>S</b>   |
| 110 | 100, 150, 200, 300, 400, 500, 600 | 2.0 | <b>S</b>   |



### Example order

| Model       | H (mm)     | - | B (cm)    | Surf./mat. |
|-------------|------------|---|-----------|------------|
| <b>BKBG</b> | <b>100</b> | - | <b>10</b> | <b>S</b>   |







**BKBR 100/110**

90° floor duct bend with radius

| H   | B                                 | t   | Surf./mat. |
|-----|-----------------------------------|-----|------------|
| mm  | mm                                | mm  |            |
| 100 | 100, 150, 200, 300, 400, 500, 600 | 2.0 | <b>S</b>   |
| 110 | 100, 150, 200, 300, 400, 500, 600 | 2.0 | <b>S</b>   |



**Example order**

| Model       | H (mm)     | - | B (cm)    | Surf./mat. |
|-------------|------------|---|-----------|------------|
| <b>BKBR</b> | <b>100</b> | - | <b>10</b> | <b>S</b>   |



**BKVB 100/110**

0° to 90° floor duct bend, variable

| H   | B                                 | t   | Surf./mat. |
|-----|-----------------------------------|-----|------------|
| mm  | mm                                | mm  |            |
| 100 | 100, 150, 200, 300, 400, 500, 600 | 2.0 | <b>S</b>   |
| 110 | 100, 150, 200, 300, 400, 500, 600 | 2.0 | <b>S</b>   |



**Example order**

| Model       | H (mm)     | - | B (cm)    | Surf./mat. |
|-------------|------------|---|-----------|------------|
| <b>BKVB</b> | <b>100</b> | - | <b>10</b> | <b>S</b>   |



**BKB45 100/110**

45° floor duct bend

| H   | B                                 | t   | Surf./mat. |
|-----|-----------------------------------|-----|------------|
| mm  | mm                                | mm  |            |
| 100 | 100, 150, 200, 300, 400, 500, 600 | 2.0 | <b>S</b>   |
| 110 | 100, 150, 200, 300, 400, 500, 600 | 2.0 | <b>S</b>   |



**Example order**

| Model        | H (mm)     | - | B (cm)    | Surf./mat. |
|--------------|------------|---|-----------|------------|
| <b>BKB45</b> | <b>100</b> | - | <b>10</b> | <b>S</b>   |



**BKK 100/110**

Floor duct crossing

| H   | B                                 | t   | Surf./mat. |
|-----|-----------------------------------|-----|------------|
| mm  | mm                                | mm  |            |
| 100 | 100, 150, 200, 300, 400, 500, 600 | 2.0 | <b>S</b>   |
| 110 | 100, 150, 200, 300, 400, 500, 600 | 2.0 | <b>S</b>   |



**Example order**

| Model      | H (mm)     | - | B (cm)    | Surf./mat. |
|------------|------------|---|-----------|------------|
| <b>BKK</b> | <b>100</b> | - | <b>10</b> | <b>S</b>   |



**BKA 100/110**

Floor duct branch, 90° T-piece

| H   | B                                 | t   | Surf./mat. |
|-----|-----------------------------------|-----|------------|
| mm  | mm                                | mm  |            |
| 100 | 100, 150, 200, 300, 400, 500, 600 | 2.0 | <b>S</b>   |
| 110 | 100, 150, 200, 300, 400, 500, 600 | 2.0 | <b>S</b>   |



**Example order**

| Model      | H (mm)     | - | B (cm)    | Surf./mat. |
|------------|------------|---|-----------|------------|
| <b>BKA</b> | <b>100</b> | - | <b>10</b> | <b>S</b>   |



**BKAA 100/110**

Floor duct attachment branch, 90° T-branch

| H   | B                                 | t   | Surf./mat. |
|-----|-----------------------------------|-----|------------|
| mm  | mm                                | mm  |            |
| 100 | 100, 150, 200, 300, 400, 500, 600 | 2.0 | <b>S</b>   |
| 110 | 100, 150, 200, 300, 400, 500, 600 | 2.0 | <b>S</b>   |



**Example order**

| Model       | H (mm)     | - | B (cm)    | Surf./mat. |
|-------------|------------|---|-----------|------------|
| <b>BKAA</b> | <b>100</b> | - | <b>10</b> | <b>S</b>   |



**BKVAA 100/110**

Floor duct attachment branch, variable between 0° and 30° on each angled side

| H   | B                                 | t   | Surf./mat. |
|-----|-----------------------------------|-----|------------|
| mm  | mm                                | mm  |            |
| 100 | 100, 150, 200, 300, 400, 500, 600 | 2.0 | <b>S</b>   |
| 110 | 100, 150, 200, 300, 400, 500, 600 | 2.0 | <b>S</b>   |



**Example order**

| Model        | H (mm)     | - | B (cm)    | Surf./mat. |
|--------------|------------|---|-----------|------------|
| <b>BKVAA</b> | <b>100</b> | - | <b>10</b> | <b>S</b>   |



**BKGR 100/110**

45° floor duct branch with mitre cut, right

| H   | B                                 | t   | Surf./mat. |
|-----|-----------------------------------|-----|------------|
| mm  | mm                                | mm  |            |
| 100 | 100, 150, 200, 300, 400, 500, 600 | 2.0 | <b>S</b>   |
| 110 | 100, 150, 200, 300, 400, 500, 600 | 2.0 | <b>S</b>   |



**Example order**

| Model       | H (mm)     | - | B (cm)    | Surf./mat. |
|-------------|------------|---|-----------|------------|
| <b>BKGR</b> | <b>100</b> | - | <b>10</b> | <b>S</b>   |



**BKGL 100/110**

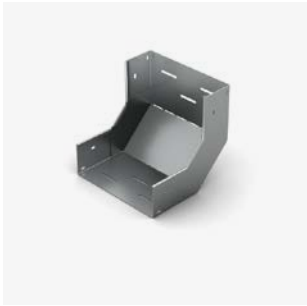
45° floor duct branch with mitre cut, left

| H   | B                                 | t   | Surf./mat. |
|-----|-----------------------------------|-----|------------|
| mm  | mm                                | mm  |            |
| 100 | 100, 150, 200, 300, 400, 500, 600 | 2.0 | <b>S</b>   |
| 110 | 100, 150, 200, 300, 400, 500, 600 | 2.0 | <b>S</b>   |



**Example order**

| Model       | H (mm)     | - | B (cm)    | Surf./mat. |
|-------------|------------|---|-----------|------------|
| <b>BKGL</b> | <b>100</b> | - | <b>10</b> | <b>S</b>   |



### BKS 100/110

Floor duct inside riser

| H   | B                                 | L   | t   | Surf./mat. |
|-----|-----------------------------------|-----|-----|------------|
| mm  | mm                                | mm  | mm  |            |
| 100 | 100, 150, 200, 300, 400, 500, 600 | 290 | 2.0 | <b>S</b>   |
| 110 | 100, 150, 200, 300, 400, 500, 600 | 290 | 2.0 | <b>S</b>   |



#### Example order

| Model      | H (mm)     | - | B (cm)    | Surf./mat. |
|------------|------------|---|-----------|------------|
| <b>BKS</b> | <b>100</b> | - | <b>10</b> | <b>S</b>   |



### BKRKK 100/110

Floor duct reducer, small duct

| H   | LxW                                      | t   | Surf./mat. |
|-----|--|-----|------------|
| mm  | mm                                       | mm  |            |
| 95  | 30x30, 30x50, 40x40, 50x50, 60x60, 75x75 | 1.0 | <b>S</b>   |
| 105 | 30x30, 30x50, 40x40, 50x50, 60x60, 75x75 | 1.0 | <b>S</b>   |



#### Example order

| Model        | H (mm)     | - | LxW (mm)     | Surf./mat. |
|--------------|------------|---|--------------|------------|
| <b>BKRKK</b> | <b>100</b> | - | <b>30x30</b> | <b>S</b>   |



The actual height varies according to the specific product. The round values 100/110 must be stated in the order.



### BKRKS 100/110

Floor duct reducer, cable protection conduits

Pre-punched for the following diameters: M20/M25/M32/M40/M50/PG13.5/PG21/PG29

| H   | L   | t   | Surf./mat. |
|-----|-----|-----|------------|
| mm  | mm  | mm  |            |
| 95  | 175 | 1.5 | <b>S</b>   |
| 105 | 175 | 1.5 | <b>S</b>   |



#### Example order

| Model        | H (mm)     | Surf./mat. |
|--------------|------------|------------|
| <b>BKRKS</b> | <b>100</b> | <b>S</b>   |



The actual height varies according to the specific product. The round values 100/110 must be stated in the order.

# Covers



**RHP**  
Non-slip embossing:  
R12  
Material: Sheet steel

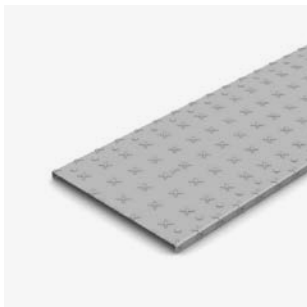


**WZB AL**  
Non-slip embossing:  
R10  
Material: Aluminium  
chequered plate



**Plain**  
No embossing:  
Material: Sheet steel

Floor duct cover,  
length = 3 m / 1.5 m / 1 m



**BKD-RHP /  
BKD-RHP1.5 /  
BKD-RHP1**



| B   | t   | P <sub>max</sub> | Surf./mat. |
|-----|-----|------------------|------------|
| mm  | mm  | kN               |            |
| 100 | 2.0 | 5.0              | S          |
| 150 | 2.0 | 5.0              | S          |
| 200 | 2.0 | 5.0              | S          |
| 300 | 2.0 | 5.0              | S          |
| 400 | 2.0 | 5.0              | S          |
| 500 | 2.0 | 5.0              | S          |
| 600 | 2.0 | 5.0              | S          |

Floor duct cover  
with turning bolts,  
length = 3 m / 1.5 m / 1 m



**BKDR-WZB AL /  
BKDR-WZB AL 1.5 /  
BKDR-WZB AL 1**

| B   | t   | P <sub>max</sub> | Surf./mat. |
|-----|-----|------------------|------------|
| mm  | mm  | kN               |            |
| 100 | 2.5 | 3.0              | AL         |
| 150 | 2.5 | 3.0              | AL         |
| 200 | 2.5 | 3.0              | AL         |
| 300 | 2.5 | 3.0              | AL         |
| 400 | 2.5 | 3.0              | AL         |
| 500 | 2.5 | 3.0              | AL         |
| 600 | 2.5 | 3.0              | AL         |

Floor duct cover  
with turning bolts,  
length = 3 m / 1.5 m / 1 m



**BKDR /  
BKDR1.5 /  
BKDR1**

| B   | t   | P <sub>max</sub> | Surf./mat. |
|-----|-----|------------------|------------|
| mm  | mm  | kN               |            |
| 100 | 2.0 | 5.0              | S          |
| 150 | 2.0 | 5.0              | S          |
| 200 | 2.0 | 5.0              | S          |
| 300 | 2.0 | 5.0              | S          |
| 400 | 2.0 | 5.0              | S          |
| 500 | 2.0 | 5.0              | S          |
| 600 | 2.0 | 5.0              | S          |



## Example order

| Model              | - B (cm)    | Surf./mat. |
|--------------------|-------------|------------|
| <b>BKD-RHP 1.5</b> | - <b>10</b> | <b>S</b>   |

The standard length of 3 m is not explicitly stated in the item number.



In the case of our BKD-RHP floor duct covers, you have two options for securing them: our BKDHK cover clamps or our DR-BK turning bolts. The turning bolts are already included with the BKDR and BKDR-WZB AL floor duct covers.

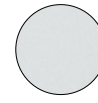




**RHP**  
Non-slip embossing:  
R12  
Material: Sheet steel



**WZB AL**  
Non-slip embossing:  
R10  
Material: Aluminium  
chequered plate



**Plain**  
No embossing:  
Material: Sheet steel

**Floor duct bend cover**



**BKBDR-RHP**

| B   | t   | P <sub>max</sub> | Surf./mat. |
|-----|-----|------------------|------------|
| mm  | mm  | kN               |            |
| 100 | 2.0 | 5.0              | S          |
| 150 | 2.0 | 5.0              | S          |
| 200 | 2.0 | 5.0              | S          |
| 300 | 2.0 | 5.0              | S          |
| 400 | 2.0 | 5.0              | S          |
| 500 | 2.0 | 5.0              | S          |
| 600 | 2.0 | 5.0              | S          |

**BKBDR-WZB AL**

| B   | t   | P <sub>max</sub> | Surf./mat. |
|-----|-----|------------------|------------|
| mm  | mm  | kN               |            |
| 100 | 2.5 | 3.0              | AL         |
| 150 | 2.5 | 3.0              | AL         |
| 200 | 2.5 | 3.0              | AL         |
| 300 | 2.5 | 3.0              | AL         |
| 400 | 2.5 | 3.0              | AL         |
| 500 | 2.5 | 3.0              | AL         |
| 600 | 2.5 | 3.0              | AL         |

**BKBDR**

| B   | t   | P <sub>max</sub> | Surf./mat. |
|-----|-----|------------------|------------|
| mm  | mm  | kN               |            |
| 100 | 2.0 | 5.0              | S          |
| 150 | 2.0 | 5.0              | S          |
| 200 | 2.0 | 5.0              | S          |
| 300 | 2.0 | 5.0              | S          |
| 400 | 2.0 | 5.0              | S          |
| 500 | 2.0 | 5.0              | S          |
| 600 | 2.0 | 5.0              | S          |

**Floor duct bend cover with mitre cut**



**BKBGDR-RHP**

| B   | t   | P <sub>max</sub> | Surf./mat. |
|-----|-----|------------------|------------|
| mm  | mm  | kN               |            |
| 100 | 2.0 | 5.0              | S          |
| 150 | 2.0 | 5.0              | S          |
| 200 | 2.0 | 5.0              | S          |
| 300 | 2.0 | 5.0              | S          |
| 400 | 2.0 | 5.0              | S          |
| 500 | 2.0 | 5.0              | S          |
| 600 | 2.0 | 5.0              | S          |

**BKBGDR-WZB AL**

| B   | t   | P <sub>max</sub> | Surf./mat. |
|-----|-----|------------------|------------|
| mm  | mm  | kN               |            |
| 100 | 2.5 | 3.0              | AL         |
| 150 | 2.5 | 3.0              | AL         |
| 200 | 2.5 | 3.0              | AL         |
| 300 | 2.5 | 3.0              | AL         |
| 400 | 2.5 | 3.0              | AL         |
| 500 | 2.5 | 3.0              | AL         |
| 600 | 2.5 | 3.0              | AL         |

**BKBGDR**

| B   | t   | P <sub>max</sub> | Surf./mat. |
|-----|-----|------------------|------------|
| mm  | mm  | kN               |            |
| 100 | 2.0 | 5.0              | S          |
| 150 | 2.0 | 5.0              | S          |
| 200 | 2.0 | 5.0              | S          |
| 300 | 2.0 | 5.0              | S          |
| 400 | 2.0 | 5.0              | S          |
| 500 | 2.0 | 5.0              | S          |
| 600 | 2.0 | 5.0              | S          |

**Floor duct bend cover with radius**



**BKBRDR-RHP**

| B   | t   | P <sub>max</sub> | Surf./mat. |
|-----|-----|------------------|------------|
| mm  | mm  | kN               |            |
| 100 | 2.0 | 5.0              | S          |
| 150 | 2.0 | 5.0              | S          |
| 200 | 2.0 | 5.0              | S          |
| 300 | 2.0 | 5.0              | S          |
| 400 | 2.0 | 5.0              | S          |
| 500 | 2.0 | 5.0              | S          |
| 600 | 2.0 | 5.0              | S          |

**BKBRDR-WZB AL**

| B   | t   | P <sub>max</sub> | Surf./mat. |
|-----|-----|------------------|------------|
| mm  | mm  | kN               |            |
| 100 | 2.5 | 3.0              | AL         |
| 150 | 2.5 | 3.0              | AL         |
| 200 | 2.5 | 3.0              | AL         |
| 300 | 2.5 | 3.0              | AL         |
| 400 | 2.5 | 3.0              | AL         |
| 500 | 2.5 | 3.0              | AL         |
| 600 | 2.5 | 3.0              | AL         |

**BKBRDR**

| B   | t   | P <sub>max</sub> | Surf./mat. |
|-----|-----|------------------|------------|
| mm  | mm  | kN               |            |
| 100 | 2.0 | 5.0              | S          |
| 150 | 2.0 | 5.0              | S          |
| 200 | 2.0 | 5.0              | S          |
| 300 | 2.0 | 5.0              | S          |
| 400 | 2.0 | 5.0              | S          |
| 500 | 2.0 | 5.0              | S          |
| 600 | 2.0 | 5.0              | S          |



**Example order**

| Model             | - B (cm)    | Surf./mat. |
|-------------------|-------------|------------|
| <b>BKBRDR-RHP</b> | <b>- 10</b> | <b>S</b>   |



Turning bolts for securing the cover are included with the RHP, WZB AL and plain versions.

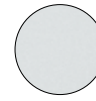
Material information: Product shown in the RHP version. The plain and WZB AL versions are also available.



**RHP**  
Non-slip embossing:  
R12  
Material: Sheet steel



**WZB AL**  
Non-slip embossing:  
R10  
Material: Aluminium  
chequered plate



**Plain**  
No embossing:  
Material: Sheet steel

**Floor duct bend cover, variable**



**BKVBDR-RHP**



| B   | t   | P <sub>max</sub> | Surf./mat. |
|-----|-----|------------------|------------|
| mm  | mm  | kN               |            |
| 100 | 2.0 | 5.0              | S          |
| 150 | 2.0 | 5.0              | S          |
| 200 | 2.0 | 5.0              | S          |
| 300 | 2.0 | 5.0              | S          |
| 400 | 2.0 | 5.0              | S          |
| 500 | 2.0 | 5.0              | S          |
| 600 | 2.0 | 5.0              | S          |

**BKVBDR-WZB AL**

| B   | t   | P <sub>max</sub> | Surf./mat. |
|-----|-----|------------------|------------|
| mm  | mm  | kN               |            |
| 100 | 2.5 | 3.0              | AL         |
| 150 | 2.5 | 3.0              | AL         |
| 200 | 2.5 | 3.0              | AL         |
| 300 | 2.5 | 3.0              | AL         |
| 400 | 2.5 | 3.0              | AL         |
| 500 | 2.5 | 3.0              | AL         |
| 600 | 2.5 | 3.0              | AL         |

**BKVBDR**

| B   | t   | P <sub>max</sub> | Surf./mat. |
|-----|-----|------------------|------------|
| mm  | mm  | kN               |            |
| 100 | 2.0 | 5.0              | S          |
| 150 | 2.0 | 5.0              | S          |
| 200 | 2.0 | 5.0              | S          |
| 300 | 2.0 | 5.0              | S          |
| 400 | 2.0 | 5.0              | S          |
| 500 | 2.0 | 5.0              | S          |
| 600 | 2.0 | 5.0              | S          |

**45° floor duct bend cover**



**BKBDR45-RHP**

| B   | t   | P <sub>max</sub> | Surf./mat. |
|-----|-----|------------------|------------|
| mm  | mm  | kN               |            |
| 100 | 2.0 | 5.0              | S          |
| 150 | 2.0 | 5.0              | S          |
| 200 | 2.0 | 5.0              | S          |
| 300 | 2.0 | 5.0              | S          |
| 400 | 2.0 | 5.0              | S          |
| 500 | 2.0 | 5.0              | S          |
| 600 | 2.0 | 5.0              | S          |

**BKBDR45-WZB AL**

| B   | t   | P <sub>max</sub> | Surf./mat. |
|-----|-----|------------------|------------|
| mm  | mm  | kN               |            |
| 100 | 2.5 | 3.0              | AL         |
| 150 | 2.5 | 3.0              | AL         |
| 200 | 2.5 | 3.0              | AL         |
| 300 | 2.5 | 3.0              | AL         |
| 400 | 2.5 | 3.0              | AL         |
| 500 | 2.5 | 3.0              | AL         |
| 600 | 2.5 | 3.0              | AL         |

**BKBDR45**

| B   | t   | P <sub>max</sub> | Surf./mat. |
|-----|-----|------------------|------------|
| mm  | mm  | kN               |            |
| 100 | 2.0 | 5.0              | S          |
| 150 | 2.0 | 5.0              | S          |
| 200 | 2.0 | 5.0              | S          |
| 300 | 2.0 | 5.0              | S          |
| 400 | 2.0 | 5.0              | S          |
| 500 | 2.0 | 5.0              | S          |
| 600 | 2.0 | 5.0              | S          |

**Floor duct crossing cover**



**BKKDR-RHP**

| B   | t   | P <sub>max</sub> | Surf./mat. |
|-----|-----|------------------|------------|
| mm  | mm  | kN               |            |
| 100 | 2.0 | 5.0              | S          |
| 150 | 2.0 | 5.0              | S          |
| 200 | 2.0 | 5.0              | S          |
| 300 | 2.0 | 5.0              | S          |
| 400 | 2.0 | 5.0              | S          |
| 500 | 2.0 | 5.0              | S          |
| 600 | 2.0 | 5.0              | S          |

**BKKDR-WZB AL**

| B   | t   | P <sub>max</sub> | Surf./mat. |
|-----|-----|------------------|------------|
| mm  | mm  | kN               |            |
| 100 | 2.5 | 3.0              | AL         |
| 150 | 2.5 | 3.0              | AL         |
| 200 | 2.5 | 3.0              | AL         |
| 300 | 2.5 | 3.0              | AL         |
| 400 | 2.5 | 3.0              | AL         |
| 500 | 2.5 | 3.0              | AL         |
| 600 | 2.5 | 3.0              | AL         |

**BKKDR**

| B   | t   | P <sub>max</sub> | Surf./mat. |
|-----|-----|------------------|------------|
| mm  | mm  | kN               |            |
| 100 | 2.0 | 5.0              | S          |
| 150 | 2.0 | 5.0              | S          |
| 200 | 2.0 | 5.0              | S          |
| 300 | 2.0 | 5.0              | S          |
| 400 | 2.0 | 5.0              | S          |
| 500 | 2.0 | 5.0              | S          |
| 600 | 2.0 | 5.0              | S          |



**Example order**

|                  |             |            |
|------------------|-------------|------------|
| Model            | - B (cm)    | Surf./mat. |
| <b>BKKDR-RHP</b> | - <b>10</b> | <b>S</b>   |



Turning bolts for securing the cover are included with the RHP, WZB AL and plain versions.

Material information: Product shown in the RHP version. The plain and WZB AL versions are also available.





**RHP**  
Non-slip embossing:  
R12  
Material: Sheet steel

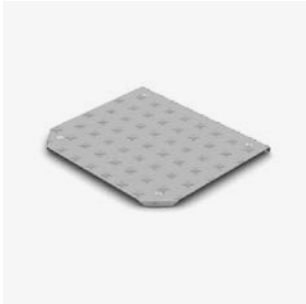


**WZB AL**  
Non-slip embossing:  
R10  
Material: Aluminium  
chequered plate



**Plain**  
No embossing:  
Material: Sheet steel

**Floor duct branch cover**



**BKADR-RHP**

| B   | t   | P <sub>max</sub> | Surf./mat. |
|-----|-----|------------------|------------|
| mm  | mm  | kN               |            |
| 100 | 2.0 | 5.0              | S          |
| 150 | 2.0 | 5.0              | S          |
| 200 | 2.0 | 5.0              | S          |
| 300 | 2.0 | 5.0              | S          |
| 400 | 2.0 | 5.0              | S          |
| 500 | 2.0 | 5.0              | S          |
| 600 | 2.0 | 5.0              | S          |

**BKADR-WZB AL**

| B   | t   | P <sub>max</sub> | Surf./mat. |
|-----|-----|------------------|------------|
| mm  | mm  | kN               |            |
| 100 | 2.5 | 3.0              | AL         |
| 150 | 2.5 | 3.0              | AL         |
| 200 | 2.5 | 3.0              | AL         |
| 300 | 2.5 | 3.0              | AL         |
| 400 | 2.5 | 3.0              | AL         |
| 500 | 2.5 | 3.0              | AL         |
| 600 | 2.5 | 3.0              | AL         |

**BKADR**

| B   | t   | P <sub>max</sub> | Surf./mat. |
|-----|-----|------------------|------------|
| mm  | mm  | kN               |            |
| 100 | 2.0 | 5.0              | S          |
| 150 | 2.0 | 5.0              | S          |
| 200 | 2.0 | 5.0              | S          |
| 300 | 2.0 | 5.0              | S          |
| 400 | 2.0 | 5.0              | S          |
| 500 | 2.0 | 5.0              | S          |
| 600 | 2.0 | 5.0              | S          |

**Floor duct attachment branch cover**



**BKAADR-RHP**

| B   | t   | P <sub>max</sub> | Surf./mat. |
|-----|-----|------------------|------------|
| mm  | mm  | kN               |            |
| 100 | 2.0 | 5.0              | S          |
| 150 | 2.0 | 5.0              | S          |
| 200 | 2.0 | 5.0              | S          |
| 300 | 2.0 | 5.0              | S          |
| 400 | 2.0 | 5.0              | S          |
| 500 | 2.0 | 5.0              | S          |
| 600 | 2.0 | 5.0              | S          |

**BKAADR-WZB AL**

| B   | t   | P <sub>max</sub> | Surf./mat. |
|-----|-----|------------------|------------|
| mm  | mm  | kN               |            |
| 100 | 2.5 | 3.0              | AL         |
| 150 | 2.5 | 3.0              | AL         |
| 200 | 2.5 | 3.0              | AL         |
| 300 | 2.5 | 3.0              | AL         |
| 400 | 2.5 | 3.0              | AL         |
| 500 | 2.5 | 3.0              | AL         |
| 600 | 2.5 | 3.0              | AL         |

**BKAADR**

| B   | t   | P <sub>max</sub> | Surf./mat. |
|-----|-----|------------------|------------|
| mm  | mm  | kN               |            |
| 100 | 2.0 | 5.0              | S          |
| 150 | 2.0 | 5.0              | S          |
| 200 | 2.0 | 5.0              | S          |
| 300 | 2.0 | 5.0              | S          |
| 400 | 2.0 | 5.0              | S          |
| 500 | 2.0 | 5.0              | S          |
| 600 | 2.0 | 5.0              | S          |

**Floor duct attachment branch cover, variable**



**BKVAADR-RHP**



| B   | t   | P <sub>max</sub> | Surf./mat. |
|-----|-----|------------------|------------|
| mm  | mm  | kN               |            |
| 100 | 2.0 | 5.0              | S          |
| 150 | 2.0 | 5.0              | S          |
| 200 | 2.0 | 5.0              | S          |
| 300 | 2.0 | 5.0              | S          |
| 400 | 2.0 | 5.0              | S          |
| 500 | 2.0 | 5.0              | S          |
| 600 | 2.0 | 5.0              | S          |

**BKVAADR-WZB AL**

| B   | t   | P <sub>max</sub> | Surf./mat. |
|-----|-----|------------------|------------|
| mm  | mm  | kN               |            |
| 100 | 2.5 | 3.0              | AL         |
| 150 | 2.5 | 3.0              | AL         |
| 200 | 2.5 | 3.0              | AL         |
| 300 | 2.5 | 3.0              | AL         |
| 400 | 2.5 | 3.0              | AL         |
| 500 | 2.5 | 3.0              | AL         |
| 600 | 2.5 | 3.0              | AL         |

**BKVAADR**

| B   | t   | P <sub>max</sub> | Surf./mat. |
|-----|-----|------------------|------------|
| mm  | mm  | kN               |            |
| 100 | 2.0 | 5.0              | S          |
| 150 | 2.0 | 5.0              | S          |
| 200 | 2.0 | 5.0              | S          |
| 300 | 2.0 | 5.0              | S          |
| 400 | 2.0 | 5.0              | S          |
| 500 | 2.0 | 5.0              | S          |
| 600 | 2.0 | 5.0              | S          |



**Example order**

|                    |             |            |
|--------------------|-------------|------------|
| Model              | - B (cm)    | Surf./mat. |
| <b>BKVAADR-RHP</b> | <b>- 10</b> | <b>S</b>   |



Turning bolts for securing the cover are included with the RHP, WZB AL and plain versions.

Material information: Product shown in the RHP version. The plain and WZB AL versions are also available.



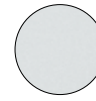




**RHP**  
Non-slip embossing:  
R12  
Material: Sheet steel



**WZB AL**  
Non-slip embossing:  
R10  
Material: Aluminium  
chequered plate



**Plain**  
No embossing:  
Material: Sheet steel

**Floor duct cover  
with mitre cut, right**



**BKGRDR-RHP**

| B   | t   | P <sub>max</sub> | Surf./mat. |
|-----|-----|------------------|------------|
| mm  | mm  | kN               |            |
| 100 | 2.0 | 5.0              | S          |
| 150 | 2.0 | 5.0              | S          |
| 200 | 2.0 | 5.0              | S          |
| 300 | 2.0 | 5.0              | S          |
| 400 | 2.0 | 5.0              | S          |
| 500 | 2.0 | 5.0              | S          |
| 600 | 2.0 | 5.0              | S          |

**BKGRDR-WZB AL**

| B   | t   | P <sub>max</sub> | Surf./mat. |
|-----|-----|------------------|------------|
| mm  | mm  | kN               |            |
| 100 | 2.5 | 3.0              | AL         |
| 150 | 2.5 | 3.0              | AL         |
| 200 | 2.5 | 3.0              | AL         |
| 300 | 2.5 | 3.0              | AL         |
| 400 | 2.5 | 3.0              | AL         |
| 500 | 2.5 | 3.0              | AL         |
| 600 | 2.5 | 3.0              | AL         |

**BKGRDR**

| B   | t   | P <sub>max</sub> | Surf./mat. |
|-----|-----|------------------|------------|
| mm  | mm  | kN               |            |
| 100 | 2.0 | 5.0              | S          |
| 150 | 2.0 | 5.0              | S          |
| 200 | 2.0 | 5.0              | S          |
| 300 | 2.0 | 5.0              | S          |
| 400 | 2.0 | 5.0              | S          |
| 500 | 2.0 | 5.0              | S          |
| 600 | 2.0 | 5.0              | S          |

**Floor duct cover  
with mitre cut, left**



**BKGLDR-RHP**

| B   | t   | P <sub>max</sub> | Surf./mat. |
|-----|-----|------------------|------------|
| mm  | mm  | kN               |            |
| 100 | 2.0 | 5.0              | S          |
| 150 | 2.0 | 5.0              | S          |
| 200 | 2.0 | 5.0              | S          |
| 300 | 2.0 | 5.0              | S          |
| 400 | 2.0 | 5.0              | S          |
| 500 | 2.0 | 5.0              | S          |
| 600 | 2.0 | 5.0              | S          |

**BKGLDR-WZB AL**

| B   | t   | P <sub>max</sub> | Surf./mat. |
|-----|-----|------------------|------------|
| mm  | mm  | kN               |            |
| 100 | 2.5 | 3.0              | AL         |
| 150 | 2.5 | 3.0              | AL         |
| 200 | 2.5 | 3.0              | AL         |
| 300 | 2.5 | 3.0              | AL         |
| 400 | 2.5 | 3.0              | AL         |
| 500 | 2.5 | 3.0              | AL         |
| 600 | 2.5 | 3.0              | AL         |

**BKGLDR**

| B   | t   | P <sub>max</sub> | Surf./mat. |
|-----|-----|------------------|------------|
| mm  | mm  | kN               |            |
| 100 | 2.0 | 5.0              | S          |
| 150 | 2.0 | 5.0              | S          |
| 200 | 2.0 | 5.0              | S          |
| 300 | 2.0 | 5.0              | S          |
| 400 | 2.0 | 5.0              | S          |
| 500 | 2.0 | 5.0              | S          |
| 600 | 2.0 | 5.0              | S          |

**Floor duct inside riser cover**



**BKSDR-RHP**

| B   | t   | P <sub>max</sub> | Surf./mat. |
|-----|-----|------------------|------------|
| mm  | mm  | kN               |            |
| 100 | 2.0 | 5.0              | S          |
| 150 | 2.0 | 5.0              | S          |
| 200 | 2.0 | 5.0              | S          |
| 300 | 2.0 | 5.0              | S          |
| 400 | 2.0 | 5.0              | S          |
| 500 | 2.0 | 5.0              | S          |
| 600 | 2.0 | 5.0              | S          |

**BKSDR-WZB AL**

| B   | t   | P <sub>max</sub> | Surf./mat. |
|-----|-----|------------------|------------|
| mm  | mm  | kN               |            |
| 100 | 2.5 | 3.0              | AL         |
| 150 | 2.5 | 3.0              | AL         |
| 200 | 2.5 | 3.0              | AL         |
| 300 | 2.5 | 3.0              | AL         |
| 400 | 2.5 | 3.0              | AL         |
| 500 | 2.5 | 3.0              | AL         |
| 600 | 2.5 | 3.0              | AL         |

**BKSDR**

| B   | t   | P <sub>max</sub> | Surf./mat. |
|-----|-----|------------------|------------|
| mm  | mm  | kN               |            |
| 100 | 2.0 | 5.0              | S          |
| 150 | 2.0 | 5.0              | S          |
| 200 | 2.0 | 5.0              | S          |
| 300 | 2.0 | 5.0              | S          |
| 400 | 2.0 | 5.0              | S          |
| 500 | 2.0 | 5.0              | S          |
| 600 | 2.0 | 5.0              | S          |



**Example order**

| Model            | - B (cm)    | Surf./mat. |
|------------------|-------------|------------|
| <b>BKSDR-RHP</b> | <b>- 10</b> | <b>S</b>   |



Turning bolts for securing the cover are included with the RHP, WZB AL and plain versions.

Material information: Product shown in the RHP version. The plain and WZB AL versions are also available.

# Accessories



**BKDSL**  
Floor duct cover protection strip  
**S**



**BKDHK**  
Floor duct cover clamp  
**S**



**BKDH**  
Floor duct cover lifter  
**GV**



**DR-BK**  
Floor duct turning bolt  
**S**



**BKV 100/110**  
Floor duct connector,  
height = 100/110 mm  
L: 230 mm | t: 2.0 mm  
**S**



**BKRT 100/110**  
Floor duct separating strip,  
height = 100/110 mm  
L: 3,000 mm | t: 2.0 mm  
**S**



**BKRTV 100/110**  
Variable floor duct separating  
strip, height = 100/110 mm  
L: 900 mm | t: 2.0 mm  
**S**



**BKDS 100/110**  
Floor duct support profile,  
height = 100/110 mm  
L: 100 mm | t: 2.0 mm  
**S**



**BKZ**  
Floor duct Z-profile  
**S**



**BKEB 100/110**  
Floor duct end-plate,  
height = 100/110 mm  
t: 1.0 mm  
**S**



**BKDU 100/110**  
Floor duct cover support,  
height = 100/110 mm  
t: 2.0 mm  
**F**



**BKH**  
Floor duct bracket, C-rail  
**F**



For information on the quantity of products required, please refer to the assembly instructions or our website.



Fastening screws included with delivery



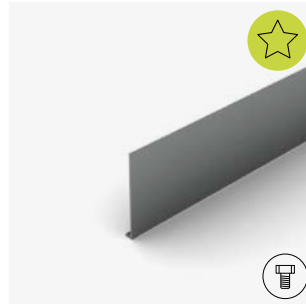
Top pick



**KHA 41**  
4x41 mm profile rail,  
perforated  
t: 2.5 mm  
**F**



**BKHR**  
Floor duct bracket  
**GV**



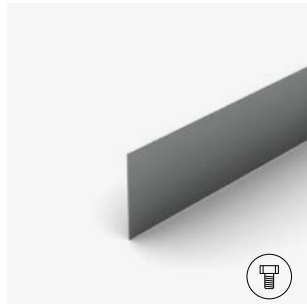
**BKHRSV S**  
Floor duct bracket side cover  
for BKHR  
**S**



**BKHRU**  
Floor duct bracket support  
**S**



**BKHC**  
Floor duct bracket, C-clip  
**F**



**BKHCVS S**  
Floor duct bracket side cover  
for BKHC  
**S**



**KHZ**  
Floor duct bracket, Z-profile  
**S**



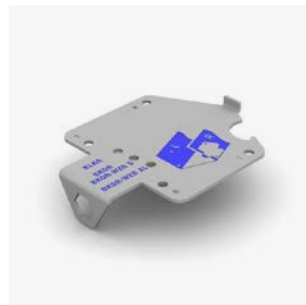
**BKPA**  
Floor duct equipotential  
bonding terminal block  
**MS**



**KSB**  
Edge protective strip  
L: 1,000 - 10,000 mm  
**PVC**



**ARB**  
Non-slip tape  
L: 10,000 mm  
**EPDM**



**BKMT**  
Multitool for floor ducts  
**E**



For information on the quantity of products required,  
please refer to the assembly instructions or our  
website.





**STB**  
Step drill bit  
D: 9 mm | Ø: 18 mm  
**GV**



**TBK**  
Torx bit, conical  
D: 1/4 in  
**E**



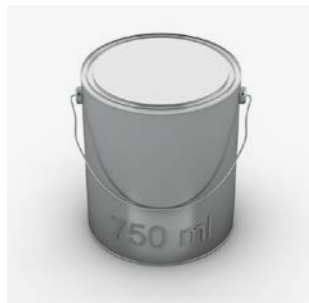
**BS**  
Drilling screw  
**GV**



**FRIK**  
Round-head hexagon socket  
screw  
**GV**



**FRSS**  
Cup head square neck bolt,  
DIN 603  
**GV**



**KZF**  
Cold zinc paint  
750 ml



**KZS**  
Cold zinc spray  
400 ml



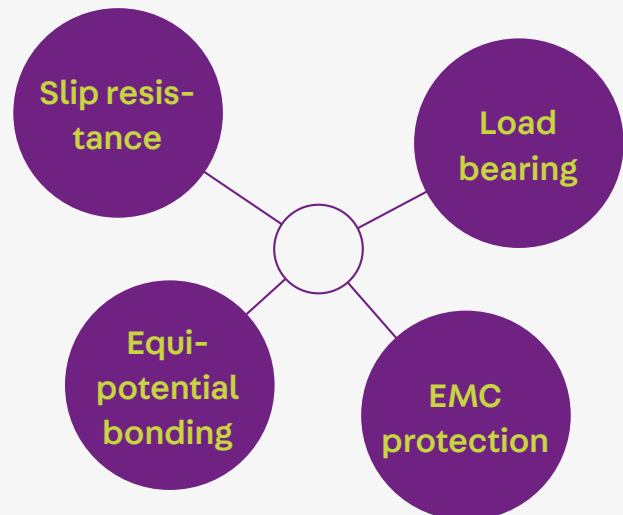
For information on the quantity of products required,  
please refer to the assembly instructions or our  
website.

# Planning advices

## Safety

### Technical certifications

- Slip resistance and non-slip safety in accordance with DIN 51130 and DGUV Rule 108-003 (BGR 181)
- Load-bearing requirements in accordance with DIN EN 50085
- Electrical conductivity in accordance with DIN EN 61537
- EMC protection in accordance with DIN CLC/TR 50659



**The floor ducts that PohlCon markets under its PUK brand comply with the most stringent safety requirements. We meet the requirements set down by the standards covering electrical conductivity, EMC protection, slip resistance and load-bearing capacity. PohlCon constantly carries out extensive tests to ensure that the cable management systems it produces remain functional and fit for use at all times.**

#### Electrical conductivity in accordance with DIN 61537

Test standard DIN EN 61537 provides the technical basis for cable management systems. It covers all the key parameters, from the design of cable management systems, their mechanical and electrical properties, resistance to external influences and labelling right through to the associated test procedures and conditions. The electrical conductivity requirements are of particular relevance to floor ducts. According to the standard, cable management systems have to be sufficiently electrically conductive to ensure equipotential bonding and proper earthing connections. Equipotential bonding (also known as "earthing") is the process of establishing an electrically conductive connection of good quality between all the conductive parts of electrical equipment casings and an earthed conductor, primarily for the purpose of protecting people against electric shocks. It reliably prevents differences in potential (voltages). Potential collecting blocks can be attached to the holes in the sides of our floor ducts for the purpose of connecting an additional flexible earthing conductor.

#### Key information at a glance:

- All metallic parts of the entire duct system must be included in the protective measures.
- According to VDE regulations, all conductive parts of the duct system must be included in the equipotential bonding arrangement. This is done at the transition points of the components by welding, riveting, making a firm pressure connection using screw connectors or using flexible earthing conductors.
- The electrical duct system must not be used as an equipotential bonding conductor.
- The duct system must be included in the equipotential bonding arrangement of the entire system during the electrical installation work.

### **EMC protection in accordance with DIN CLC/TR 50659**

DIN CLC/TR 50659 sets down the testing procedures for measuring the electromagnetic characteristics of linear cable management systems. This focuses on the shielding effectiveness, which involves testing how well an electromagnetic signal is attenuated when it enters or leaves the cable management system so that interference with other technical equipment is prevented. We are seeing a constant increase in the amount of powerful electrical equipment being used in industrial plants and production facilities. As a result, the electromagnetic compatibility (EMC) of cable management systems is becoming more and more important. The aim of EMV protection is to eliminate mutual interference (electromagnetic disturbances) in order to ensure that all technical equipment remains fully functional.

### **Slip resistance and non-slip safety in accordance with DIN 51130**

DGUV Rule 108-003 (BGR 181) stipulates that floor coverings with non-slip properties must be used in workspaces and work areas where there is a risk of people slipping. Among other aspects, test standard DIN 51130 covers how to determine the overall acceptance angle for the floor covering being tested. This is a question of determining how far the oiled floor can be inclined until the tester is on the verge of no longer being able to walk on it safely. The average overall acceptance angle is correlated with the slip resistance class.

The lowest slip resistance class R9 corresponds to a floor inclination angle of 6° to 10°. The highest slip resistance class R13 correlates to an angle of more than 35°. Our covers with non-slip embossing (RHP) meet the requirements for the second highest slip resistance class of R12. This means that they still provide a firm footing even with inclination angles of 27° to 35° – a key factor for ensuring occupational health and safety.

### **Load-bearing requirements in accordance with DIN EN 50085-2-2**

DIN EN 50085-2-2 sets down test procedures for electrical installation duct systems that apply when mounting them flush with the subfloor/floor or installing them on the floor, particularly as regards their mechanical resistance to external loads. In accordance with this standard, our floor duct covers feature a guaranteed and tested load-bearing capacity of up to 5 kN – depending on the version, subject to compliance with the installation instructions and provided that the maximum compartment size of 200 mm is not exceeded.

## **Certificates**

As a manufacturer of cable management systems and associated components, PohlCon attaches great importance to product quality. Throughout the entire value chain, high standards of quality apply across all departments with a view to developing the best possible system for a range of complex application areas. In order for this quality standard to be achieved and monitored long term, the PohlCon cable management systems marketed under the PUK brand are externally monitored and subject to in-house inspections.

We test our floor duct system on our own test stands in accordance with the strict requirements of DIN 50085-2-2. This is supplemented by our quality management system, which has been an established part of our company since 1995. Our quality management system is also capable of accommodating higher requirements, such as those in the petrochemical industry, and it is backed up by the SCCP certificate.

## **Corrosion protection**

Corrosion is the reaction of a metallic material with its environment. This leads to a change in the material and impairs the ability of a metallic component – or an entire system – to function. Corrosive media can take the form of room air, contamination in the air, water, a marine atmosphere or other chemicals. Interactions between these corrosive media cause a corrosive layer to form, leading to metal attack.

If corrosion damage does occur, very high costs can sometimes be incurred. To avoid corrosion damage, we recommend selecting a suitable material and an appropriate surface coating. Therefore, the environmental conditions of the products should always be taken into account during planning in addition to their intended use to ensure that the relevant corrosion protection classes are adhered to.

**Table 1: Atmospheric corrosivity categories and examples of typical environments**

| Corrosivity category    | Mass loss/thickness loss per unit surface area (after first year of exposure) |                    |                               |                    | Examples of typical environments (for information purposes only)   |  |
|-------------------------|---|--------------------|-------------------------------|--------------------|--|--|
|                         | Unalloyed steel   |                    | Zinc                          |                    | Exterior   | Interior   |
|                         | Mass loss<br>g/m <sup>2</sup>   | Thickn. loss<br>µm | Mass loss<br>g/m <sup>2</sup> | Thickn. loss<br>µm |  |  |
| <b>C1</b><br>Negligible | ≤ 10  | ≤ 1.3              | ≤ 0.7                         | ≤ 0.1              | -  | Heated buildings with neutral atmospheres, e.g. offices, shops, schools, hotels  |
| <b>C2</b><br>Low        | > 10<br>to 200  | > 1.3<br>to 25     | > 0.7<br>to 5                 | > 0.1<br>to 0.7    | Atmospheres with low level of pollution. Mostly rural areas  | Unheated buildings where condensation may occur, e.g. warehouses, sports halls   |
| <b>C3</b><br>Medium     | > 200<br>to 400   | > 25<br>to 50      | > 5<br>to 15                  | > 0.7<br>to 2.1    | Urban and industrial atmospheres with moderate sulphur dioxide pollution; coastal atmospheres with low salinity                                  | Production areas with high humidity and some air pollution, e.g. food processing plants, laundries, breweries, dairies |
| <b>C4</b><br>High       | > 400<br>to 650   | > 50<br>to 80      | > 15<br>to 30                 | > 2.1<br>to 4.2    | Industrial atmospheres and coastal atmospheres with moderate salinity  | Chemical plants, swimming pools, coastal shipyards and boat harbours   |
| <b>C5</b><br>Very high  | > 650<br>to 1,500   | > 80<br>to 200     | > 30<br>to 60                 | > 4.2<br>to 8.4    | Industrial areas with high humidity and aggressive atmospheres, and coastal atmospheres with high salinity                                       | Buildings or areas with almost permanent condensation and with high pollution  |
| <b>CX</b><br>Extreme    | > 1,500<br>to 5,500   | > 200<br>to 700    | > 60<br>to 180                | > 8.4<br>to 25     | Offshore areas with high salinity and industrial areas with extreme humidity and aggressive atmosphere, and subtropical and tropical atmospheres | Industrial areas with extreme humidity and aggressive atmosphere   |

Source: DIN EN ISO 12944-2:2018-04

Note: The loss values for the corrosivity categories are identical to the values in ISO 9223.

Conversion: 10 N corresponds to approx. 1 kg.

## Surface coatings and materials

Several measures can be taken to protect components against the corrosive conditions prevailing at the place of use. When deciding on a particular cable management system, care must therefore be taken to select suitable materials and a design that ensures proper corrosion protection while also paying careful attention to the protective layers and metallic coatings.

For installations in normal environments, zinc coatings have proven themselves to be an effective corrosion inhibitor for steel. However, the protective zinc layer gets worn away by various climatic influences over time. Calculating the thickness of the zinc layer required for different environmental conditions is a question of multiplying the erosion rate by the planned service life of the system.

DIN EN ISO 12944-2:2018-04 (Table 1) provides an overview of how the corrosion categories are assigned while taking account of the environment and the associated annual thickness loss of the zinc layer.

PohlCon offers several coating systems that differ from one another in terms of layer thickness, adhesion and appearance. In addition, most of our cable management systems can be supplied as stainless steel versions.

Alternatively, the PUK brand XC Duplex Coating System can be used for highly corrosive environments (corrosion category C5). The XC coating has been successfully tested in accordance with the DIN EN ISO 12944-6 standard and offers great flexibility with regard to use. With its specially developed formula, it provides a smooth, bubble-free and even coating surface.

### Zinc electroplating (DIN EN ISO 4042)

The components to be coated are placed in an electrolytic bath, where zinc ions are deposited very evenly on the material being galvanised. This results in the formation of a bright and shiny zinc layer with a thickness of approximately 5 µm. To protect this layer against abrasion, it subsequently undergoes bichromate coating process. Within our product range, the relevant bolting fasteners/bolts and nuts are identified by the code **GV**. These are used to connect components galvanised using the sendzimir process.

### Hot galvanisation according to the Sendzimir process (DIN EN 10346, DIN EN 10244-2)

In the rolling mill itself, a wide strip (sheet thickness ≤ 2.0 mm) is coated with zinc continuously as it passes through. This results in an even and strongly adhering zinc layer with an average thickness of 19 µm. Damage to the zinc layer by cutting, piercing/perforation, drilling, etc. does not lead to any progression of the corrosion because the adjacent zinc forms into solution due to the effect of (air) humidity, causing a brownish layer of protective zinc hydroxide to form on the bare cut surfaces. The "migration" of zinc ions protects exposed surfaces up to a width of approximately 2.0 mm. Steel wire and wire products are galvanised in accordance with DIN EN 10244-2.

Products with this type of coating are identified by the code **S**.

### Batch galvanisation (DIN EN ISO 1461)

Hot-dip galvanisation (DIN EN ISO 1461)

Once they have been worked, the parts that are to be coated are immersed in molten zinc (approx. 450°C). Chemical reactions create various zinc-iron alloys that have a particularly strong bond with the steel core. These alloys are usually coated with a "pure zinc" layer. However, depending on the reaction rate, composition of the steel, immersion time, cooling process, etc., the zinc-iron alloys can run right through to the surface level due to a sort of "marbling" effect. For this reason, the surface appearance can vary from bright and shiny through to matt dark grey, although nothing can be inferred about the thickness of the zinc layer or the quality of corrosion protection from this. In addition, humid environments lead to the formation of zinc hydroxide carbonate (known as white rust), particularly on new zinc surfaces. This has absolutely no impact on the corrosion protection properties. Cut surfaces have to be protected with cold zinc paint.



According to DIN EN ISO 1461, the average layer thickness is

at least the following for steel and non-centrifuged parts:

- 45 µm for material thicknesses <1.5 mm
- 55 µm for material thicknesses ≥ 1.5 mm and ≤ 3 mm
- 70 µm for material thicknesses > 3 mm and ≤ 6 mm

at least the following for centrifuged parts (incl. castings):

- 45 µm for material thicknesses <3 mm
- 55 µm for material thicknesses ≥ 3 mm

DIN EN ISO 1461 essentially corresponds to BS EN ISO 1461 in the UK, to EN ISO 1461 in France and to NEN EN 1461 in the USA. All cable tray types and all medium to heavy-duty support systems are available in a hot-dip galvanised version.

Products with this type of coating are identified by the code

**F**.

### Stainless steel

In view of its high corrosion resistance, ease of surface cleaning, recyclability and reaction to fire, stainless steel is increasingly becoming the material of choice. Its use is predominantly on the rise in the chemicals, paper, textile and food industries, as well as in wastewater treatment plants, refineries, vehicle tunnels and offshore plants. Compared to various types of plastic, the advantages of stainless steel are its high strength, temperature and fire resistance, and the fact that it does not produce any emissions in the event of fire or during machining.

PohlCon offers two stainless steel versions of its cable management systems as standard.

The most commonly used type is material no. 1.4301 (V2A), which has the short designation X5CrNi 18-10 according to EN 10088-2. It is approved by the Deutsches Institut für Bautechnik (DIBt) in Berlin under general technical approval Z-30.3-6. The following standards are related:

- EN 10088-2 1.4301 X5CrNi 18-10
- AISI 304
- UNS S 30400
- BS 304 S31
- AFNOR Z7CN 18-09
- DIN 17441

PohlCon offers a complete range of stainless steel products: bracket supports, brackets, cable trays, cable ladders, vertical ladders, profile rails and cable clamps. The bolting fasteners/ bolts and nuts correspond to steel group A2 (according to DIN ISO 3506). The products made from this material are identified by the code **E**.

On request, products from the stainless steel range are also available in versions made from the material with no. 1.4571/1.4404 (V4A), which has the short designation X6CrNiMoTi17-12-2 according to EN 10088-2. This is likewise approved by the Deutsche Institut für Bautechnik (DIBt) in Berlin. The bolting fasteners/bolts and nuts meet the requirements of steel group A4 (according to DIN ISO 3506). This material is referred to in the following standards:

- EN 10088-3 1.4404 X2CrNiMo 17-12-2
- AISI 316 L
- UN S 31603
- BS 316 S 11
- AFNOR Z3CND17-11-02/ Z3CND 17-12-02
- DIN 17440 1.4404

1.4571 is available as an alternative to this material. This type of steel is identified by the code **E4**.

Other materials with the same corrosion class can be supplied on request. To cater for special applications (lighting and cable support systems in road tunnels according to ZTV-ING), the high-alloy stainless steel with material no. 1.4529 is available for the relevant product versions.

### XC coating for highly corrosive environments

The XC Duplex Coating System enables reliable protection in highly corrosive environments. With its XC system – which has been successfully tested for corrosion category C5-M – PohlCon offers the longest lasting corrosion protection (up to 25 years) for cable management systems available on the market.

XC consists of a zinc layer and a single-layer powder coating, which together adhere extremely well to the component. With powder coating thicknesses starting from 150 µm and zinc layer thicknesses from 55 µm, XC can be used to achieve an exceptionally smooth and even surface that is free of bubbles. In the event that it should become damaged, the XC coating can be touched up in the case of (more extensive) damage.

We recommend the use of XC coatings in offshore areas with high salinity, in industrial zones with extreme air humidity and in aggressive, subtropical and tropical atmospheres.

# Our synergy concept for your benefit

**With us, you can take advantage of the collective experience of three established manufacturers that combine products and expertise in one comprehensive offer. That is the PohlCon synergy concept.**



## **Full service consulting**

Our extensive network of consultants is available to answer all of your questions about our products on site. From planning to deployments, enjoy personal support from our qualified professionals.



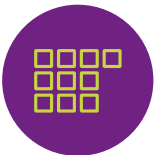
## **Digital solutions**

Our digital offerings offer targeted support in planning with our products. From tender texts through CAD details and BIM data to modern software solutions, we offer you tailored support for your planning.



## **7 areas of application**

We think in holistic solutions, which is why we have grouped our products into seven areas of application for you where you can benefit from the synergy of the PohlCon product portfolio.



## **10 product categories**

To help you find the right product in our extensive range even faster, the products are grouped into ten product categories so you can navigate clearly between our products.



## **Individual special solutions**

There's no mass produced-product on the market that is suitable for your project? We master extraordinary challenges with the many years of expertise of our three manufacturing brands in the sector of individual solutions, allowing us to realize your unique construction projects together.



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