BIRCOprofil Overview

BIRCOprofil combines the broadest range of requirements into one high performance linear drainage system. The steel channel is suitable for shallow construction heights and ensures optimum drainage performance and reliable traffic safety.

Areas of application

- Roofs
- Railways
- Medical
- Food & Drink Manufacturing
- Balconies & Terraces
- Car Park Decks
- Applicable everywhere only limited installation depths are available for joining

For shallow drainage of areas with low construction heights that are subjected to heavy dynamic loads.

Facts

- Channel system Width: 160, 196 mm (246 mm upon request)
- Construction lengths: 500, 1000 & 3000mm
- Construction heights: 50, 75 mm
- Design: Galvanised steel, stainless steel
- Protection of removal or uplift with anchor feature on the channel
- Load class: A 15 – C 250 (in special installations up to E 600)
- Broad range of covers
BIRCOprofil Overview

With shallow construction heights and high demands on the load-bearing capability of the channel, BIRCOprofil provides top drainage and traffic safety in equal measure.

Flexible application
- Ideal for new construction, renovation or subsequent installation.
- 3 nominal widths and 2 different construction heights cover the broadest range of applications.

Fast, safe installation
3 metre channel units enable fast laying with fewer joints. Special channel form and mounting anchor create an integrated uplift guard.

Traffic safety
High level of traffic safety thanks to the 2, 4 and 8 bolt connections per metre.

Low-maintenance
The large contact area is easy to clean and readily visible thanks to the channel's smooth surface.

Material quality
Galvanised or stainless steel V2A ensure a long service life and safeguard your investment.

Attractive design
The broad range of covers available provides the very best architectural possibilities.

Residential Complex “In Den Kirschen” – Limited Installation Depth

With its low construction height, BIRCOprofil is particularly suited for the drainage of parking garages and parking decks. Munich’s “In den Kirschen” residential complex was equipped with a reliable BIRCOprofil channel system that drains accumulating water quickly and efficiently, as well as providing the stability for frequent horizontal loads. And it does all this at an installation depth of only 75 mm.

Max-Rielpe-Platz, Donaueschingen – Reliable Drainage of The Public Square

In Donaueschingen, a redesigned gathering place in the city centre was created. A pleasant atmosphere, shops, public library, and a tourist information centre invite pedestrians to linger and stroll. The drainage line runs directly over an underground car park. Since the installation depths were limited, the planners’ selection of BIRCOprofil was the perfect solution. Low installation height, but nevertheless stable load values make BIRCOprofil a guarantee for road safety and reliable drainage of large paved areas.
BIRCOprofil 160

Channel Elements

- Galvanised steel
- Also available in stainless steel (V2A)
- Welded bolt clamp
- Mounting anchor
- Drainage opening tailored for the connection to the local pipe systems
- Installation of a 2nd drainage level is possible

<table>
<thead>
<tr>
<th>Description</th>
<th>Length (mm)</th>
<th>Width (mm)</th>
<th>Construction Height</th>
<th>Weight (kg)</th>
<th>Load Class</th>
<th>Item Code</th>
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<tbody>
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</table>

*Please observe separate installation, otherwise load class C 250.

Connection Shoes

- Galvanised steel
- Also available in stainless steel (V2A)
- Sealing required on the building site for ex. with BIRCOconnect

<table>
<thead>
<tr>
<th>Description</th>
<th>Width (mm)</th>
<th>For Construction Height</th>
<th>Gewicht (kg)</th>
<th>Item Code</th>
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</table>

End Caps

- Galvanised steel
- Also available in stainless steel (V2A)
- Welded ex-factory and subsequently cold galvanised

<table>
<thead>
<tr>
<th>Description</th>
<th>Width (mm)</th>
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</table>

Ductile Iron Slotted Gratings

- Black-immersion lacquered
- Also available galvanised
- 2-point per metre M12/A2 bolt connection

<table>
<thead>
<tr>
<th>Description</th>
<th>Length (mm)</th>
<th>Width (mm)</th>
<th>Height (mm)</th>
<th>Weight (kg)</th>
<th>Inlet opening</th>
<th>Inlet Cross Section</th>
<th>Load Class</th>
<th>Item Code</th>
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<tbody>
<tr>
<td>Black</td>
<td>500</td>
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<td>20</td>
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</tbody>
</table>

*Please note that the channel in combination with this cover has a reduced drainage cross-section as a result of the notch.
We therefore recommend using the channel construction height of 75 mm.

Ductile Iron Slotted Gratings

- Black-immersion lacquered
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<th>Inlet opening</th>
<th>Inlet Cross Section</th>
<th>Load Class</th>
<th>Item Code</th>
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</table>

*Please note that the channel in combination with this cover has a reduced drainage cross-section as a result of the notch.
We therefore recommend using the channel construction height of 75 mm.

SW = slot width, MW = mesh width.
## BIRCOprofil 196

### Channel Elements

- Galvanised steel
- Also available in stainless steel (V2A)
- Bolting device
- Mounting anchor
- Drainage opening tailored for the connection to the local pipe systems
- Installation of a 2nd drainage level is possible

### Connection Shoes

- Galvanised steel
- Also available in stainless steel (V2A)
- Sealing required on the building site for ex. with BIRCOconnect

### End Caps

- Galvanised steel
- Also available in stainless steel (V2A)
- Welded ex-factory and subsequently cold galvanised

### Ductile Iron Slotted Gratings

- Black-immersion lacquered
- Also available galvanised
- 2-point per metre M12/A2 bolt connection

### Mesh Gratings

- Black-immersion lacquered
- Also available galvanised
- 8-point per metre M12/A2 self locking bolt connection

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### Description Length (mm) Width (mm) Construction Height Weight (kg) Load Class DIN EN 1433 Item Code

<table>
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<tr>
<th>Description</th>
<th>Length (mm)</th>
<th>Width (mm)</th>
<th>Construction Height</th>
<th>Weight (kg)</th>
<th>Load Class DIN EN 1433</th>
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</table>

*Please observe separate installation, otherwise load class C 250.

Please note that the channel in combination with this cover has a reduced drainage cross-section as a result of the notch. We therefore recommend using the channel construction height of 75 mm.

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### Black 500

<table>
<thead>
<tr>
<th>Description</th>
<th>Length (mm)</th>
<th>Width (mm)</th>
<th>Height (mm)</th>
<th>Weight (kg)</th>
<th>Inlet opening</th>
<th>Inlet Cross Section</th>
<th>Load Class DIN EN 1433</th>
<th>Item Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>Black</td>
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<td>30</td>
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<td>469 cm²/m</td>
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<td>Black</td>
<td>500</td>
<td>187</td>
<td>30</td>
<td>6.4</td>
<td>SW 100/13 mm</td>
<td>469 cm²/m</td>
<td>A 15 – E 600</td>
<td>262175*</td>
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</table>

Please note that the channel in combination with this cover has a reduced drainage cross-section as a result of the notch.

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### Mesh Gratings

- Black-immersion lacquered
- Also available galvanised
- 8-point per metre M12/A2 self locking bolt connection

### End cap, galvanised, construction height 1

<table>
<thead>
<tr>
<th>Description</th>
<th>Length (mm)</th>
<th>Width (mm)</th>
<th>Height (mm)</th>
<th>Weight (kg)</th>
<th>Inlet opening</th>
<th>Inlet Cross Section</th>
<th>Load Class DIN EN 1433</th>
<th>Item Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>Connection shoe, galvanised, construction height 1</td>
<td>196</td>
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<td>0.2</td>
<td></td>
<td></td>
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<tr>
<td>Connection shoe, galvanised, construction height 2</td>
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</tr>
</tbody>
</table>

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### Mesh Gratings

- Black-immersion lacquered
- Also available galvanised
- 8-point per metre M12/A2 self locking bolt connection

### Connection shoe, galvanised, construction height 1

<table>
<thead>
<tr>
<th>Description</th>
<th>Length (mm)</th>
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<th>Item Code</th>
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<tbody>
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<td>Connection shoe, galvanised, construction height 1</td>
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</tr>
<tr>
<td>Connection shoe, galvanised, construction height 2</td>
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<td>0.2</td>
<td></td>
<td></td>
<td></td>
<td>061146</td>
</tr>
</tbody>
</table>

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**SW = slot width, MW = mesh width.**
Installation Guide

A number of details must be observed when installing BIRCOprofil. For a comprehensive description please here.

- When using drainage elements in ceilings or building parts with greater sealing tightness requirements, we recommend using stainless steel products and welding the channel ends on the building site. A sealing tightness test (water level test) must be conducted before installation is completed.
- When installing in concrete fittings, the transition points (where the channel meets the adjacent concrete slabs) must be grouted with a permanently elastic sealing material (for example with SF-Connect or another polyurethane-based sealant). Expansion joints must be laid out in such a manner that horizontal forces do not exert pressure on the drainage unit and that they run through the channel end.
- Mechanical processing of the drainage units on the building site must be conducted taking into consideration that, in particular with galvanised materials, the connection interfaces will be primed and subsequently galvanised. Otherwise there would be no lasting corrosion protection.
- With drainage elements installed in areas that are subjected to being driven over permanently it must be observed that the screws are tightened with the stipulated torque moments.
- The contact surfaces of slots in concrete ceilings must be treated in advance with a bonding course.
- The channel must be safeguarded against “flooding” during the concrete work and secured in its position.
- Individual requirements must be taken into account according to the on-site circumstances and considered by the planner(s).
- When bolting the covers it must by all means be observed that the torque moment (M12) 20 Nm is not exceeded.

BIRCOprofil Jointing

In situations with greater demands on sealing tightness, we recommend welding the channel ends and appropriately sealing the work joints.

BIRCOprofil Load Class A 15 – E 600

Drawing no. 14947

Sealing joint min. 10 mm Movement joint

Screw

Mounting bracket

Compensation layer

Sealing joint min. 10 mm Movement joint

Poured asphalt wearing surface

Concrete C 25/30 XC 4, XF 1

Sealing sheet

Concrete C 35/45 XC4, XD3, XF4, XM2

In-situ concrete

Mounting bracket

Compensation layer

Raw ceiling

Fast, safe installation - client time and cost management

- 3 metre channel elements enable fast laying with fewer joints.
- The special channel shape and mounting anchor create an integrated uplift guard.

Bolting connection note:

Torque moments for screw fastening the gratings are to be set at M12 = 60 Nm. The bolts on the gratings must be retightened at regular intervals.
BIRCOprofil is particularly suited for renovations due to its constructive properties and shallow construction heights. The channel units are fitted into the corresponding ceiling recess using mounting anchors to attach them to the base. The channel ends are mounted using the supplied connection elements. Sealing is conducted on the building site, for example with SF-Connect. Should height adaptations be required, we recommend using lumps of cement: They serve in adjusting the height on the one hand and in ensuring the stable positioning of the channel units on the other. Prior to conducting concrete work, the existing concrete surfaces must be treated with a bonding course. It must be ensured that the down-flow of the channel unit occurs without bubbles and that the channel is fully encased with concrete. A sealing joint must be provided in order to prevent penetration in the area of the raised edge of the channel where the material changes to concrete. A variety of traffic-safe bolt connections is available to ensure traffic safety or to prevent clattering of the covers.

BIRCOprofil Renovation, Load Class A 15 – E 600
Drawing no. 14947

BIRCOprofil Renovation

With BIRCOprofil, a second drainage level can be installed. For this, the channel unit is fitted ex-factory with a welded, sealed pipe socket that is integrated directly into the ceiling opening. The sealing course is pressed together with the ceiling opening flange connection. The attached PE disc with spacer nubs prevents the penetration of gravel or cement-bonded material. The formation of the nubs on the collar ensures drainage of the second level.

BIRCOprofil In Double-walled Ceiling Construction

The drainage channel can also be integrated into the screed due to its low construction height. To do this, the unit is laid flush onto the raw ceiling levelling course and then worked directly onto the screed. When attaching the screed it must be ensured that it fully encompasses the channel unit with no bubbles. A sealing joint should be executed at the transition area of the channel’s raised edge up to the screed in order to prevent the penetration of water. A prepared frame connector flank for jointing can also be executed in the area where the surface coating is conducted in order to provide better adhesion. The sealing tightness requirements for the entire system must be examined prior to installation. The channel ends of the drainage units must be connected with a sealing shoe. If a high level of seal tightness or absolute seal tightness be required, then the ends have to be additionally welded on the building site. In the event of high sealing tightness requirements, then a water level inspection must be conducted in any case prior to attachment of the screed.

BIRCOprofil In Double-walled Ceiling Construction

The drainage channel can also be integrated into the screed due to its low construction height. To do this, the unit is laid flush onto the raw ceiling levelling course and then worked directly onto the screed. When attaching the screed it must be ensured that it fully encompasses the channel unit with no bubbles. A sealing joint should be executed at the transition area of the channel’s raised edge up to the screed in order to prevent the penetration of water. A prepared frame connector flank for jointing can also be executed in the area where the surface coating is conducted in order to provide better adhesion. The sealing tightness requirements for the entire system must be examined prior to installation. The channel ends of the drainage units must be connected with a sealing shoe. If a high level of seal tightness or absolute seal tightness be required, then the ends have to be additionally welded on the building site. In the event of high sealing tightness requirements, then a water level inspection must be conducted in any case prior to attachment of the screed.

BIRCOprofil In Double-walled Ceiling Construction

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BIRCOprofil, Subsequent Installation

The drainage channel can also be integrated into the screed due to its low construction height. To do this, the unit is laid flush onto the raw ceiling levelling course and then worked directly onto the screed. When attaching the screed it must be ensured that it fully encompasses the channel unit with no bubbles. A sealing joint should be executed at the transition area of the channel’s raised edge up to the screed in order to prevent the penetration of water. A prepared frame connector flank for jointing can also be executed in the area where the surface coating is conducted in order to provide better adhesion. The sealing tightness requirements for the entire system must be examined prior to installation. The channel ends of the drainage units must be connected with a sealing shoe. If a high level of seal tightness or absolute seal tightness be required, then the ends have to be additionally welded on the building site. In the event of high sealing tightness requirements, then a water level inspection must be conducted in any case prior to attachment of the screed.

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BIRCO profil Renovation, Load Class A 15 – E 600
Drawing no. 14947

It must be ensured that the down-flow of the channel unit occurs without bubbles and that the channel is fully encased with concrete. A sealing joint must be provided in order to prevent penetration in the area of the raised edge of the channel where the material changes to concrete. In newly built structures where a corresponding surface coating is stipulated, for instance, depending on the property’s needs the flanks of the steel frame connectors can be treated with an epoxy resin and sanding for better adhesion. A variety of traffic-safe bolt connections is available to ensure traffic safety or to prevent clattering of the covers.

BIRCOprofil In Renovation

BIRCO profil Renovation, Load Class A 15 – E 600
Drawing no. 14947

BIRCOprofil, Subsequent Installation

The drainage channel can also be integrated into the screed due to its low construction height. To do this, the unit is laid flush onto the raw ceiling levelling course and then worked directly onto the screed. When attaching the screed it must be ensured that it fully encompasses the channel unit with no bubbles. A sealing joint should be executed at the transition area of the channel’s raised edge up to the screed in order to prevent the penetration of water. A prepared frame connector flank for jointing can also be executed in the area where the surface coating is conducted in order to provide better adhesion. The sealing tightness requirements for the entire system must be examined prior to installation. The channel ends of the drainage units must be connected with a sealing shoe. If a high level of seal tightness or absolute seal tightness be required, then the ends have to be additionally welded on the building site. In the event of high sealing tightness requirements, then a water level inspection must be conducted in any case prior to attachment of the screed.

BIRCOprofil In Renovation

BIRCO profil Renovation, Load Class A 15 – E 600
Drawing no. 14947

BIRCOprofil In Renovation

BIRCO profil Renovation, Load Class A 15 – E 600
Drawing no. 14947

BIRCOprofil In Double-walled Ceiling Construction

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BIRCOprofil In Double-walled Ceiling Construction

The drainage channel can also be integrated into the screed due to its low construction height. To do this, the unit is laid flush onto the raw ceiling levelling course and then worked directly onto the screed. When attaching the screed it must be ensured that it fully encompasses the channel unit with no bubbles. A sealing joint should be executed at the transition area of the channel’s raised edge up to the screed in order to prevent the penetration of water. A prepared frame connector flank for jointing can also be executed in the area where the surface coating is conducted in order to provide better adhesion. The sealing tightness requirements for the entire system must be examined prior to installation. The channel ends of the drainage units must be connected with a sealing shoe. If a high level of seal tightness or absolute seal tightness be required, then the ends have to be additionally welded on the building site. In the event of high sealing tightness requirements, then a water level inspection must be conducted in any case prior to attachment of the screed.

BIRCOprofil In Double-walled Ceiling Construction

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