

# Design

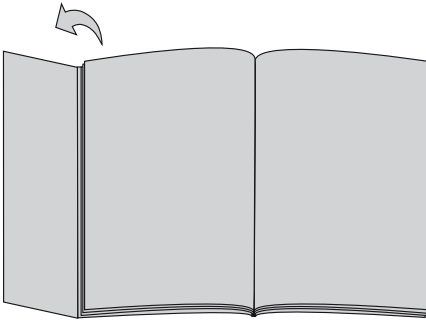
Attractive drainage solutions for private and commercial properties



## Clarity

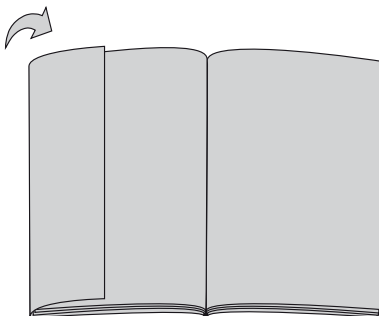
### Unfold to find what you need - Anytime

Unfolding the flaps gives you an overview of the entire BIRCO product range, making comparison and product searches very simple.



### No bookmark necessary


Use the fold-over flap as a practical bookmark. It's always at hand and the fold-over shows you the way straight to the BIRCO product you want to see.



**Heavy Duty**

Drainage solutions for heavy load transport areas

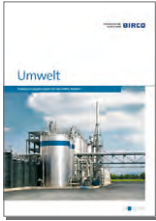
- + BIRCOsir
- + BIRCOsir Point Drainage
- + BIRCOsir Rail Track Drainage
- + BIRCOmassiv
- + BIRCObeany®block
- + BIRCOcanal



**Environment**

Drainage solutions for areas subject to federal water legislation (WHG)

- + BIRCOprotect
- + BIRCOsolid grid system
- + BIRCOsolid slot system
- + BIRCOsolid slot channels Pfuhler
- + BIRCOdicht



**Landscaping**

Drainage solutions for gardening & landscaping construction


- + BIRCOlight
- + BIRCOplus
- + BIRCOslotted steel covers
- + BIRCOtop
- + BIRCOprofil



**Design**

Attractive drainage solutions for private and commercial properties

- + Cast iron gratings
- + Galvanised metal gratings
- + Stainless steel gratings
- + BIRCOlux



**Project Management**

Planning, advice and calculations tailored to your construction project

- + From planning to realisation
- + Individual design
- + Rainwater management
- + Logistique and services





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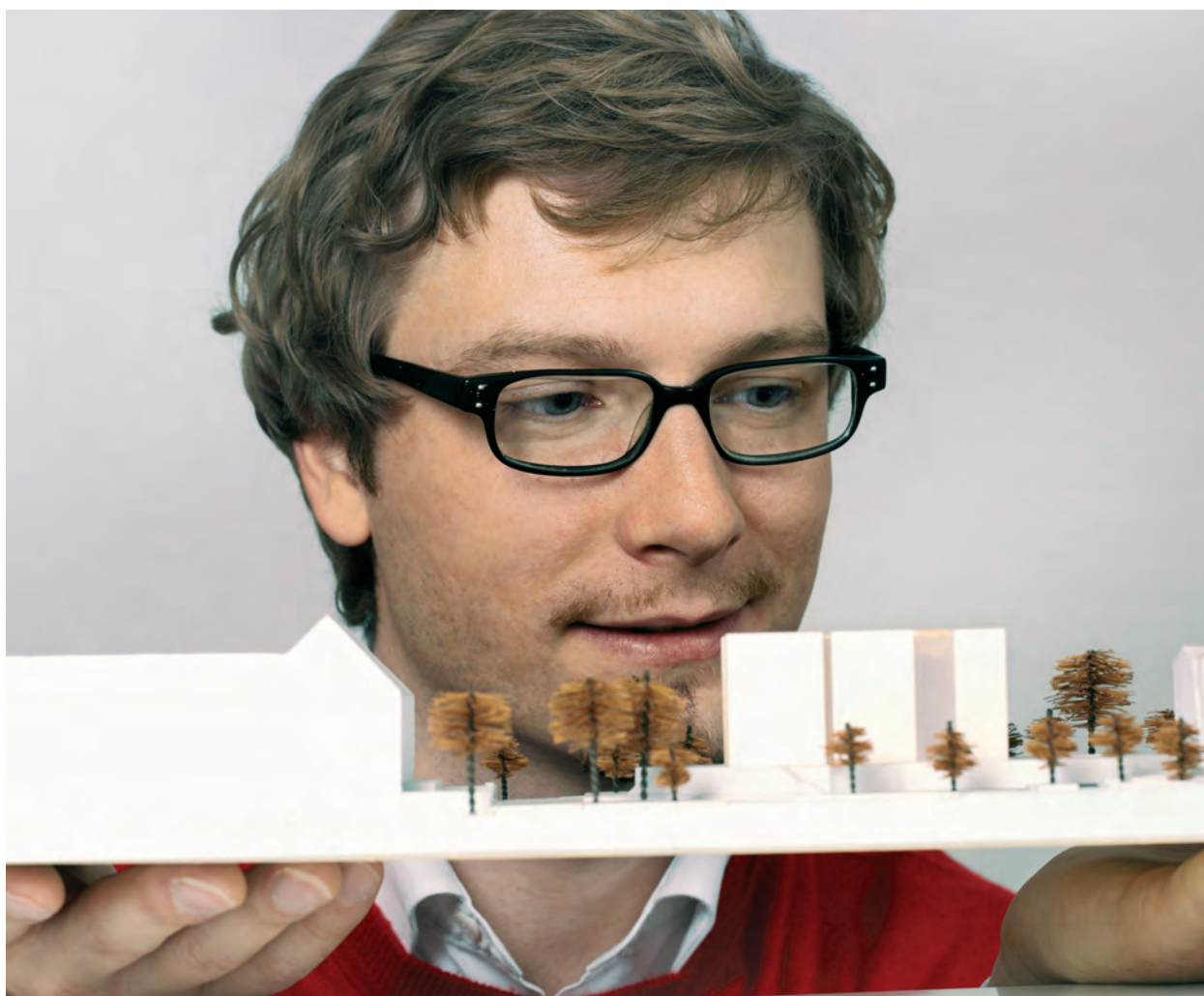
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**BIRCOdirect contact**

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„Functionality isn't everything.  
It's the overall design that counts.“



„We build houses that people live in afterwards. The open public spaces that our firm designs become the daily living space of people with the greatest variety of personalities. So the optical design has to be right all the way down to the details. Functionality and performance are a matter-of-course for us. After all, it's creativity that makes architecture worthwhile. In BIRCO, I've found a partner that gives my work the best possible support.“



# BIRCOdesign | Drainage solutions with style

Covers are a drainage channel's "face". It is the covers that are noticed in the appearance of a town or city, and they can contribute to giving an aesthetic boost to the architectural line layout in public open spaces and alongside streets or building façades, providing the optimum combination of design and quality.

## Enriching a city's appearance

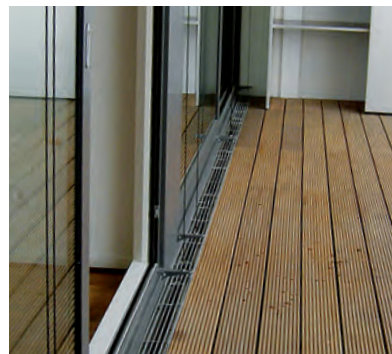
Modern drainage solutions are not distinguished simply by the functionality of the channel and the efficient drainage of accumulating water. Modern drainage solutions adapt to their surroundings, contribute to the overall architectural design and enrich landscape or urban engineering planning. And it is the drainage system covers in particular that play a decisive role.

## Freedom to make creative design choices

Architects and planners can rely on BIRCO. Our innovative, diversified range of covers for every load class guarantee their creative freedom while providing the highest level of functionality.

Lend character, style and an appealing look to your construction projects. Count on BIRCO's proven quality and wealth of experience in providing both standard and special solutions.





Urban construction, landscape engineering, private construction projects and industrial construction can all rely on BIRCO covers to guarantee top functionality and perfect, seamless integration into the overall architectural design concept.



A variety of cuts and polygonal or radial laying methods augment structures while providing consistently high hydraulic performance.



# BIRCOdesign | Top processing - Top appearance

The functional structure of covers plays an essential role in the hydraulic performance of a drainage system. Large inlet cross-sections, reliable fastening and long-lasting load resistance are equally as indispensable as flexible laying possibilities and uncomplicated maintenance.

## Reliable BIRCO quality

Cast covers are deployed primarily in heavily frequented areas where the highest level of functionality and mechanical durability against heavy loads are needed. The covers are made of ductile cast iron and black dip-coated or galvanised as standard features. Durability, resistance against pollutant agents and great stability of form distinguish these cast covers. In addition, there are virtually no limits to their individual design possibilities.

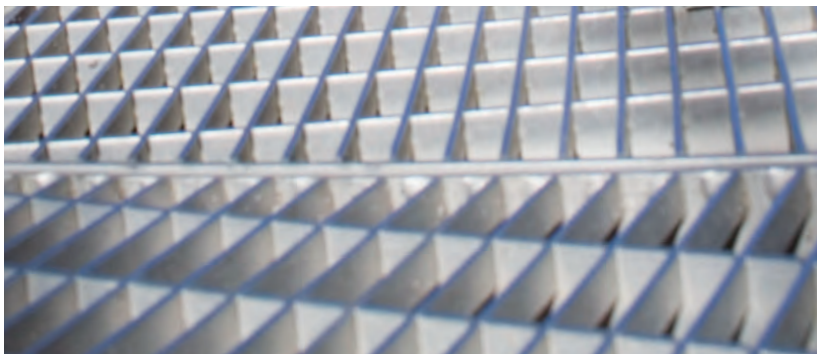


## High quality materials

Stainless steel is regarded as a particularly high-grade, long-lasting material thanks to its malleability, great stability, resistance to corrosion and its unchanging surface. The chrome proportion in stainless steel reduces corrosion, while nickel primarily influences its mechanical properties. BIRCO stainless steel covers are distinguished by their stability, their excellent processing qualities and their improved capacity for welding.

BIRCO also only uses high quality materials and manufacturing procedures that are regularly tested for its covers: Cast, galvanised steel and stainless steel (V2A).





Optimum processing and welding in our own workshops. BIRCO's experts create individual solutions for your specific needs.



Individually tailored cuts. BIRCO's factory service cuts channels and covers – A clean solution.

## Uncomplicated maintenance

The BIRCO combi-connection solid steel frame connectors allow all of our cover models to be fastened quickly and securely up to 8 times per metre with the channel panel either bolted or fastened with the BIRCO Easylock option (Exception: channels with stainless steel frame connectors). One turn and everything's securely in place.

## Intelligent fastening

Everything about BIRCO covers, from the bolt connection to cleaning, from standard models to individually designed special solutions, is aimed at fast, safe laying and uncomplicated maintenance.

## Coordinated function

Great inspection visibility, self-cleaning openings on the sides (honeycomb cover) and matching accessories (BIRCOeasyclean) ensure long-lasting function and performance.



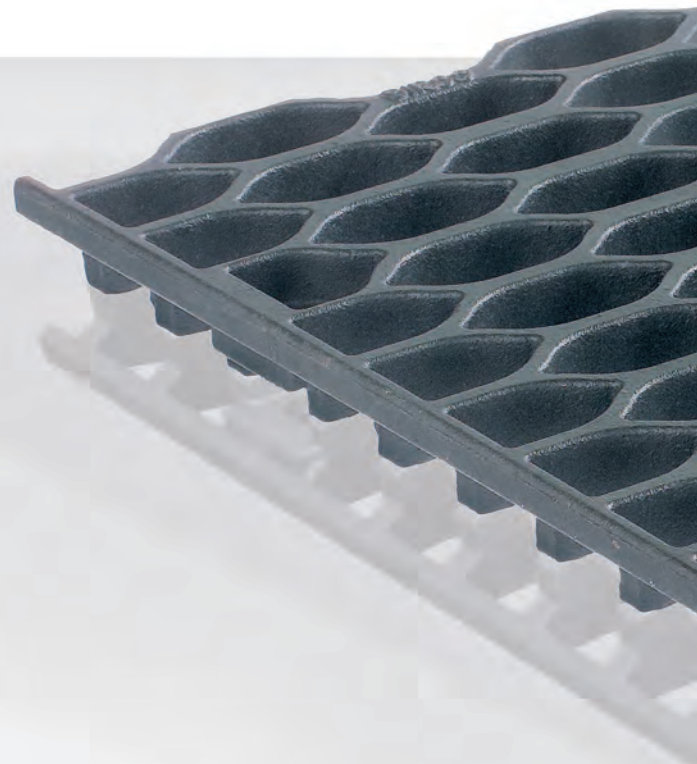


# BIRCO cast covers | Top stability - Interesting optics

BIRCO cast covers guarantee flexibility in their utilisation and in construction possibilities, above all through enormous load reserves, their top drainage performance and their reliable fastening and maintenance management. The variable designs round out the product range perfectly.

## Areas of application

- + Heavy-duty and industrial construction
- + Public spaces and forums
- + Areas subject to water legislation (WHG)
- + High traffic areas





### Cast gratings

- + Black immersion lacquered ductile cast iron
- + Galvnised
- + Up to 8 bolt connections per metre
- + Alternatively: Easylock fastening
- + A 15 – F 900
- + Construction length: 0.50 m
- + Variable design solutions
- + Individual special designs

# BIRCO Cast covers | Efficient with maximum load-bearing capability



## Cast slotted grating

Load stability and efficient drainage performance distinguish the BIRCO cast slotted covers.

- + Black-immersion lacquered or galvanised
- + For nominal widths: 100 – 200
- + Up to 8-point per metre M12/A2 / M16/A2 bolt fastening / Easylock
- + A 15 – F 900
- + Construction length: 0.50 m
- + Depending on nominal widths as twofold, threefold, sixfold or with diagonal slot
- + NW 100 also with narrow slots



## Cast slotted grating | Wave

The “Wave” cast slotted cover stands for striking design effects, especially in areas that are frequented by heavy traffic.

- + Black-immersion lacquered
- + For nominal widths: 100 – 150
- + 8-point per metre M12/A2 bolt fastening/Easylock
- + A 15 – E 600
- + Construction length: 0.50 m



## Cast slotted grating | Ellipse

This elliptical profile lends a unique character to any space, and can also be embossed with your local coat of arms or logo.

- + Black-immersion lacquered or galvanised
- + For nominal widths: 100 – 150
- + Up to 8-point per metre M12/A2 bolt fastening/Easylock
- + A 15 – E 600
- + Construction length: 0.50 m



## Cast slotted grating | Arch

Arched covers are an aesthetic asset to the look of any city, and they provide top hydraulic values with high load reserve levels.

- + Black-immersion lacquered
- + For nominal widths: 300 – 400
- + 8-point per metre M12/A2 / M16/A2 bolt fastening / Easylock
- + A 15 – E 600
- + Construction length: 0.50 m



### Honeycomb grating | Cast

Large inlet-web, cleaning openings on the sides, excellent hydraulic values and maximum stability combined in a genuinely eye-catching design.

- + Black-immersion lacquered or galvanised
- + For nominal widths: 150 – 200 AS
- + 8-point per metre M12/A2 bolt fastening/Easylock
- + A 15 – F 900
- + Construction length: 0.50 m



### Cast long bar grating cover

Non-slip, stabile, very elegant and relatively lightweight. BIRCO cast long bar gratings set standards.

- + Black-immersion lacquered or galvanised
- + For nominal width: 100 (BIRCOlight)
- + 2-point per metre M12/A2 bolt fastening/Easylock
- + A 15 – E 600
- + Construction length: 0.50 m



### Mesh grating | Cast

The monolithic cast portion combines the large inlet cross-section of the grating with the mechanical stability of the cast grating cover. Best hydraulic values.

- + Black-immersion lacquered or galvanised
- + For nominal widths: 100 – 400
- + Up to 8-point per metre M12/A2 / M16/A2 bolt fastening / Easylock
- + A15 – E 600
- + Construction length: 0.50 m



### Pattern rolled cast grating

BIRCO's pattern rolled cast grating are especially designed for covering supply lines. Also available with openings for cable bushings if needed.

- + Black-immersion lacquered or galvanised
- + For nominal widths: 100 – 500
- + Up to 8-point per metre M12/A2 / M16/A2 bolt fastening / Easylock
- + A 15 – E 600
- + Construction length: 0.50 m



# BIRCO Cast covers | Inspirations in urban engineering

Cast covers are a special tool in enabling urban design ideas to be realised. Top processing qualities and high safety reserve levels make cast the ideal material for giving a face to open public spaces or even an entire city.



BIRCO developed a special cover for the expansion of the Frau-Clara-Strasse in Eckernförde. A drainage line with a fish-design cover runs down the middle of the street all the way to the granite pavement surface in the harbour area. This creates an appealing, interesting ambience fully integrated into the atmosphere of the port city of Eckernförde.

The arched cover is an eye-catcher that enhances the city's appearance and provides the best hydraulic values with high load reserve levels. The arched cut also provides extra safety for cyclists, because even the narrowest tires can't get stuck.

This residential district in Holland's city of Hengelo featuring car traffic, cyclists and a children's' play area now enjoys effective drainage that is also visually appealing for its residents.



Open public spaces can be attractively structured and designed with BIRCO cast covers. The covers can contribute to consistent line layout, pavement separations or clever angled cuts.



One side of the Rhine riverbank was fitted with BIRCOsir channels for the first international garden show between Germany and France.

The BIRCO cast slotted grating effectively underscores the line layout of the modern suspension bridge and forms an optical contrast between the light and dark pavements. It is designed for a large number of spectators and brisk supplier traffic.



The wave-shaped cast grating cover stands for striking design effects.

Along with its interesting design, this cover option is also designed to take on heavy loads, especially in areas that are heavily frequented by a variety of traffic types.



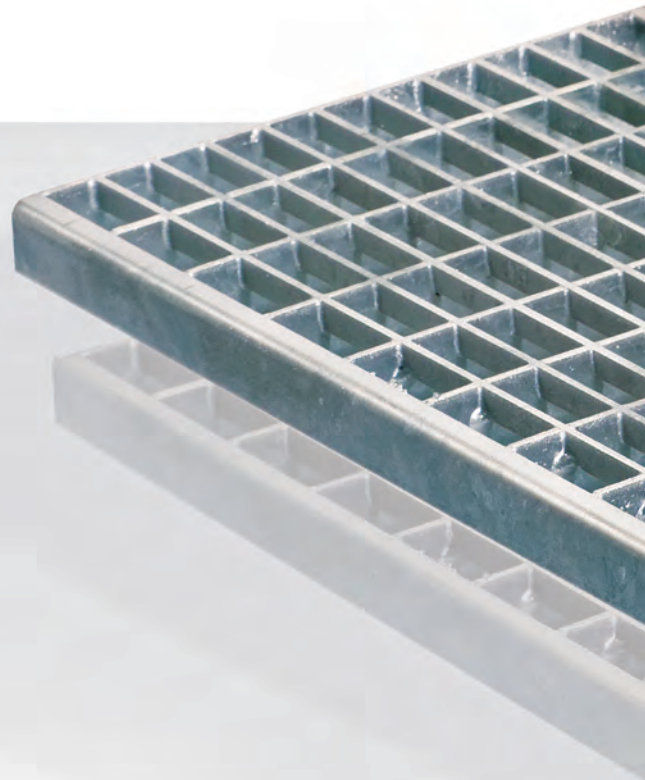
# BIRCO metal covers - galvanised |

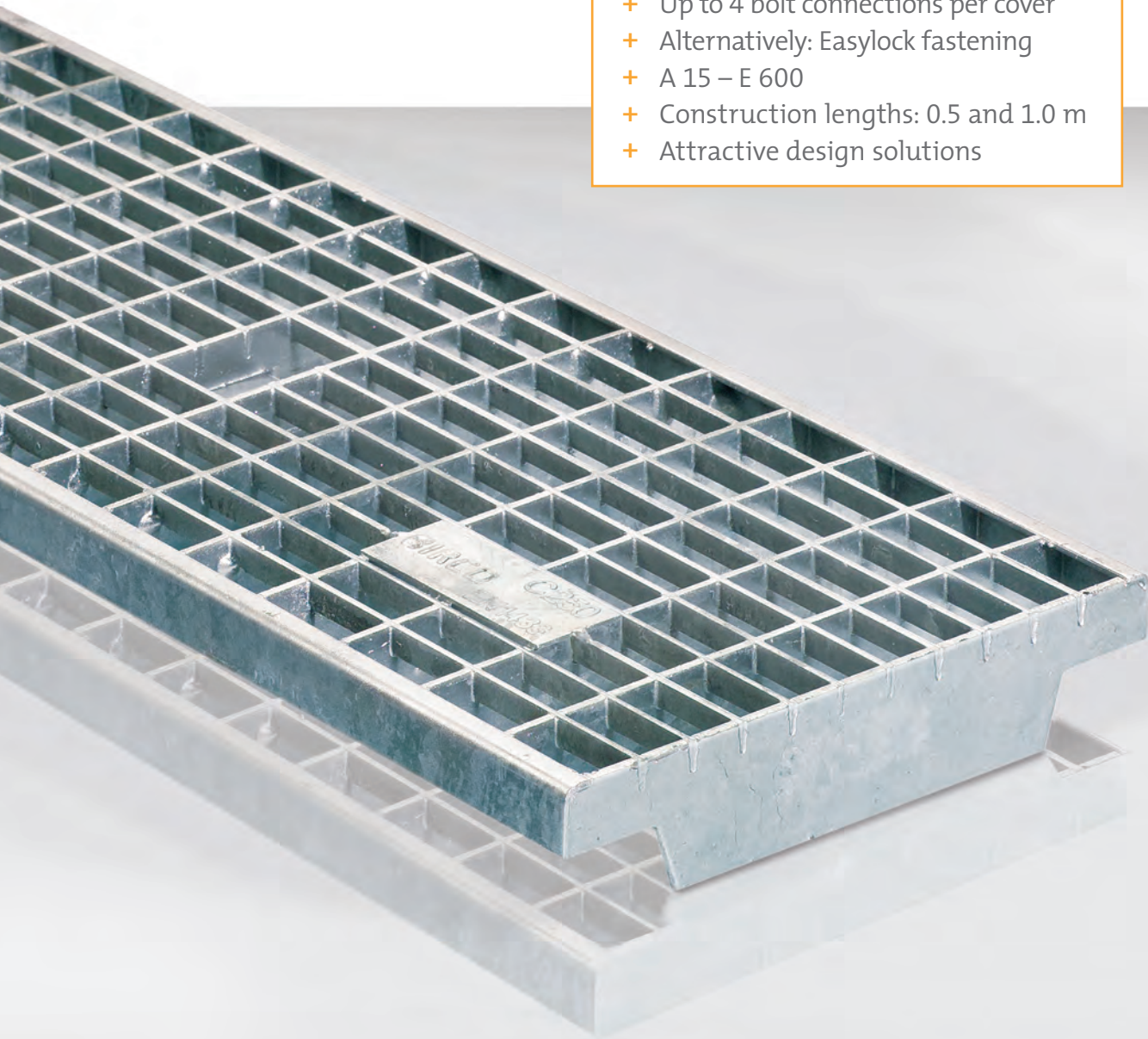
## Lasting corrosion protection

The galvanising process sees the metal coated with a zinc layer to protect it from corrosion. BIRCO covers are hot galvanised so that all of the edges and openings are evenly coated and the protection from weathering generally extends beyond 15 years.

### Areas of application

- + Heavy-duty and industrial construction
- + Public spaces and forums
- + Areas subject to water legislation (WHG)
- + High traffic areas



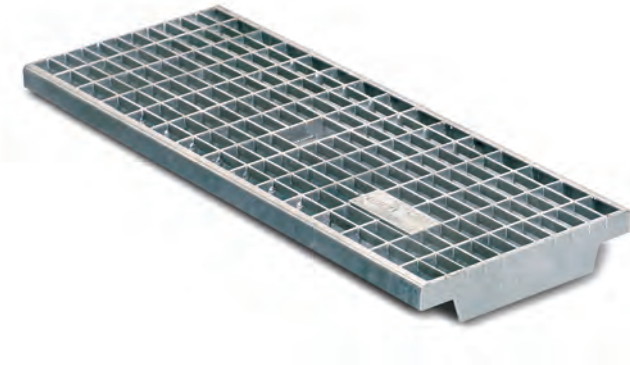


### Galvanised metal covers

- + Galvanised steel
- + Up to 4 bolt connections per cover
- + Alternatively: Easylock fastening
- + A 15 – E 600
- + Construction lengths: 0.5 and 1.0 m
- + Attractive design solutions



# BIRCO metal covers - galvanised | Stabile against corrosion and loads



## Mesh cover | galvanised

Metal gratings have the maximum inlet cross-section. They are utilised where high hydraulic performance capabilities are required, such as building façades.

- + Hot-dipped galvanised metal cover
- + For nominal widths: 100 – 200
- + Up to 4-point per cover M12/A2 bolt fastening/ Easylock
- + A 15 – E 600
- + Construction lengths: 0.50 and 1.00 m



## Long bar grating cover | galvanised

Non-slip, stabile, highly functional and relatively light-weight. BIRCO metal long bar gratings set standards.

- + Galvanised metal cover
- + For construction widths: 100, 130
- + 2-point per metre M6/A2-bolt fastening/Easylock
- + Walkable
- + Construction lengths: 0.50 and 1.00 m



## Slotted cover

The classic design with diagonal slots is an appealing optical option for private construction projects. Also available with LED lighting.

- + Galvanised metal cover
- + For construction widths: 100, 130, 160 and nominal width 100
- + Camped or with 2-point per metre M12/A2 bolt connection
- + Walkable – A15
- + Construction lengths: 0.50 and 1.00 m
- + Also in combination with BIRCOlux

Along the bank of the Seine River in Paris, millions of tourists stroll by a breathtaking scene, hardly noticing that they are also strolling along over 220 metres of BIRCOplus with galvanised mesh gratings

The attractive cover is an eye-catcher, while the galvanised steel stands up to weathering for years to come.



The spacious free spaces and the building façade of the school centre in Munich-Riem enjoy the appealing aesthetics of galvanised BIRCO gratings.

This site is frequented by pedestrians and cyclists, and along with the optical appeal of the covers, it is the corrosion protection and above all the stable bolting of the covers that play essential roles.

Galvanised BIRCO mesh grating is laid here in a polygonal fashion at Stuttgart's TV tower. It is designed for heavy pedestrian loads, prefabricated in BIRCO workshops and easily laid at the building site.

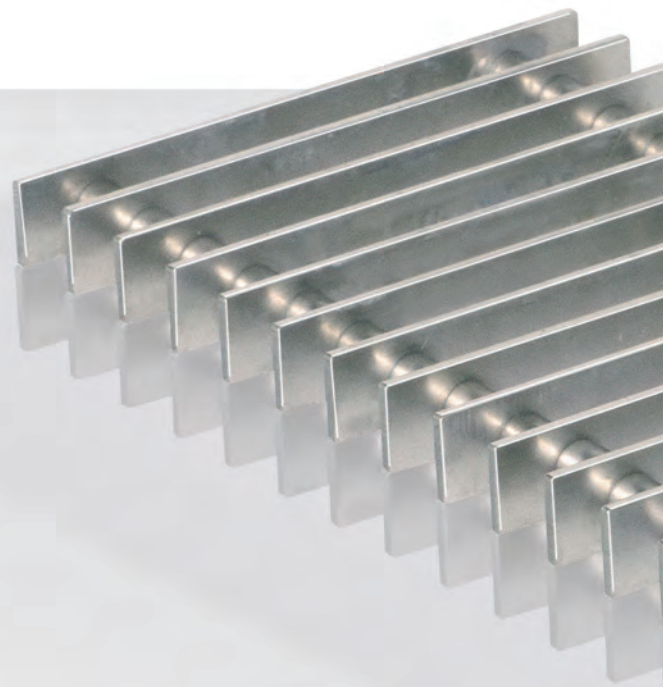


# BIRCO stainless steel covers | Design solutions in building façade construction and on open spaces

It is the elegant look and ideal material properties of stainless steel covers that make them so popular. It is easy to lay channel systems in a radial, polygonal or angled fashion with stainless steel, providing the perfect characteristics for architecturally interesting construction projects.

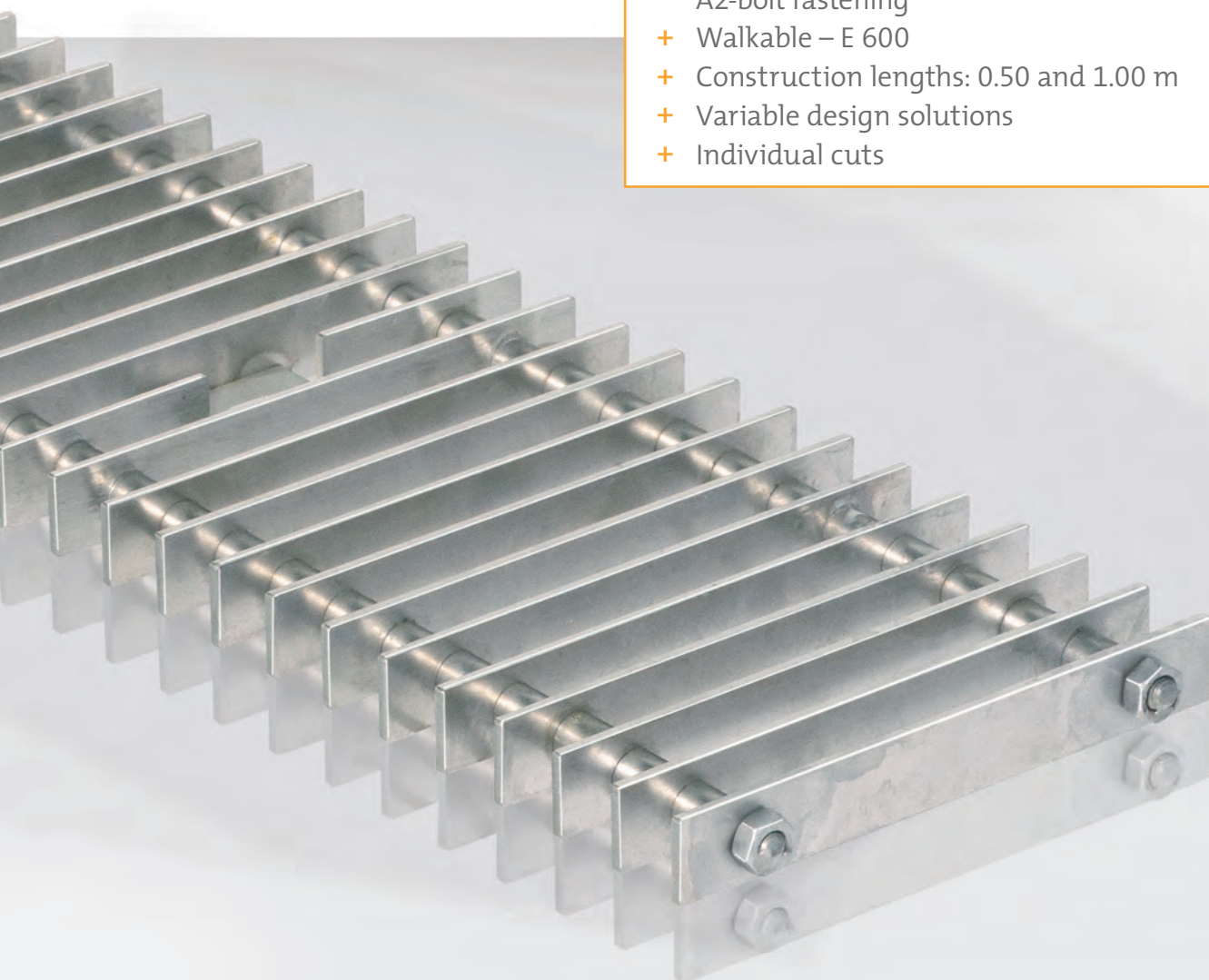
## Areas of application

- + Building façade drainage
- + Roof terraces, roof gardens
- + Flat roofs
- + High quality open spaces



### Stainless steel covers

- + Stainless steel V2A
- + 2-point per metre M10/A2 or 8-point M12/A2-bolt fastening
- + Walkable – E 600
- + Construction lengths: 0.50 and 1.00 m
- + Variable design solutions
- + Individual cuts



# BIRCO stainless steel covers

## Style and performance class



### Slotted grating

The classic design with slots is an appealing optical option for private construction projects. Also available with LED lighting integrated into a Plexiglas layer (BIRCOLux Premium).

- + Stainless steel V2A
- + For construction widths: 100, 130, 160 and nominal width 100
- + Clamped or with 2-point per metre M10/A2 bolt connection
- + Walkable – A 15
- + Construction lengths: 0.50 and 1.00 m
- + Also in combination with BIRCOLux Premium



### Mesh grating

Metal mesh gratings have the maximum inlet cross-section. They are utilised where high hydraulic performance capabilities are required, such as building façades.

- + Stainless steel V2A
- + For construction widths: 100, 130, 150, 160 and nominal widths 100 – 200
- + Up to 8-point per metre M10/A2 / M12/A2 bolt connection
- + Walkable – E 600
- + Construction lengths: 0.50 and 1.00 m



### Perforated grating

Perforated grates represent an appealing design solution. Featuring relatively small inlet cross-sections, they are ideal primarily in transitional zones or in partially covered areas. Also available with LED lighting integrated into a Plexiglas layer (BIRCOLux Premium).

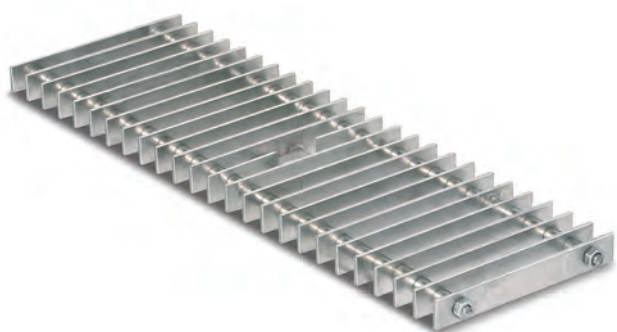
- + Stainless steel or galvanised
- + For construction widths: 100, 130
- + 2-point per metre M10/A2 bolt connection
- + Walkable
- + Construction lengths: 0.50 and 1.00 m
- + Circular hole also in combination with BIRCOLux Premium
- + Circulare hole, square hole, rhombic hole



### Long bar grating | round

The elegant design, elongated lines and round bars provide an appealing visual touch to building façades and architectural horizontal gradients. Timelessly contemporary.

- + Stainless steel or galvanised
- + For construction widths: 100, 130
- + 2-point per metre M6/A2 bolt connection
- + Walkable
- + Construction lengths: 0.50 and 1.00 m



### Cross bar grating

Indispensable for building façade construction: Cross bar gratings – in radial or straight design. Optimum inlet volumes and an attractive appearance.

- + Stainless steel V2A
- + For construction widths: 100, 130 and nominal width 100
- + Up to 4-point per metre M10/A2 / M12/A2 bolt connection
- + Walkable
- + Construction lengths: 0.50 and 1.00 m



### Long bar grating | rectangular

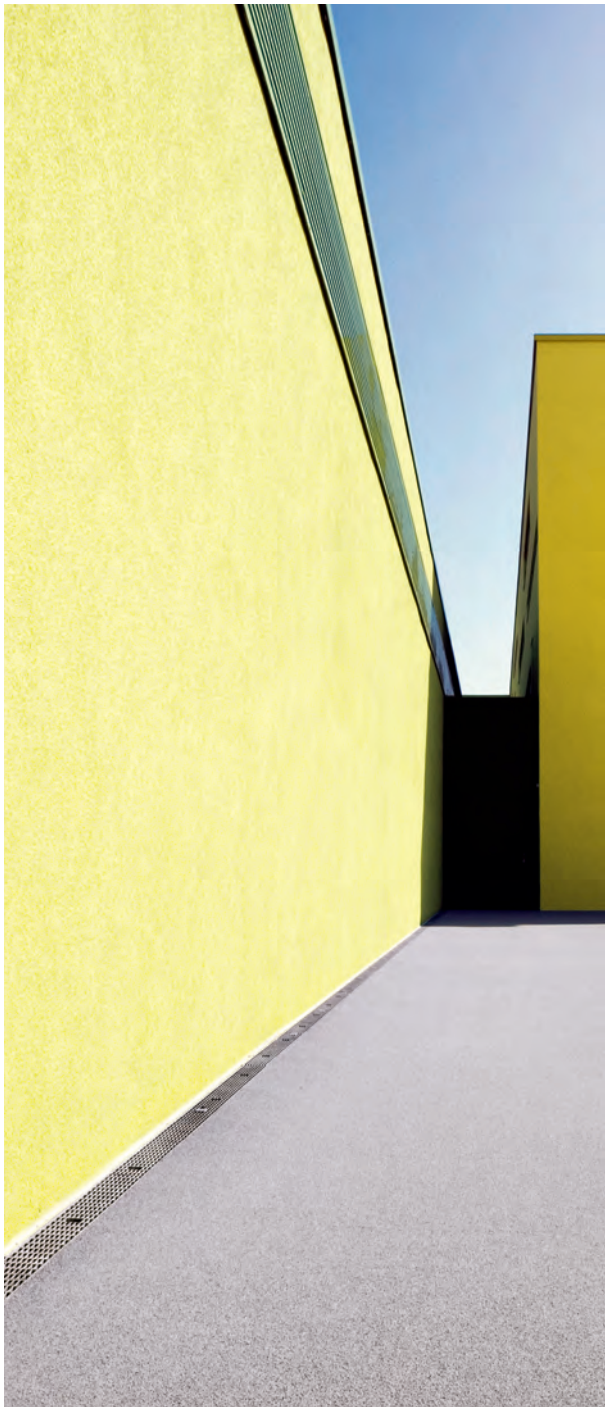
Indispensable for building façade construction: Long bar gratings – in radial or straight design. Optimum inlet volumes and an attractive appearance.

- + Stainless steel V2A
- + For construction widths: 100, 130 and nominal width 100
- + Up to 2-point per metre M6/A2-/ M12/A2 bolt connection
- + Walkable
- + Construction lengths: 0.50 and 1.00 m



# BIRCO stainless steel covers | Stimulating accents

Optical aspects play a decisive architectural role in private and public construction projects. Stainless steel covers from BIRCO set distinctive accents.



BIRCOtop channels with stainless steel grating covers were laid along the building façade when the state-run secondary school in Eching near Freising, Germany was built. They fit harmoniously into the modern architecture of the complex. They can be trod upon, maintenance is easy and the unmistakable stainless steel gleam of the covers punctuates the complete architectural philosophy.

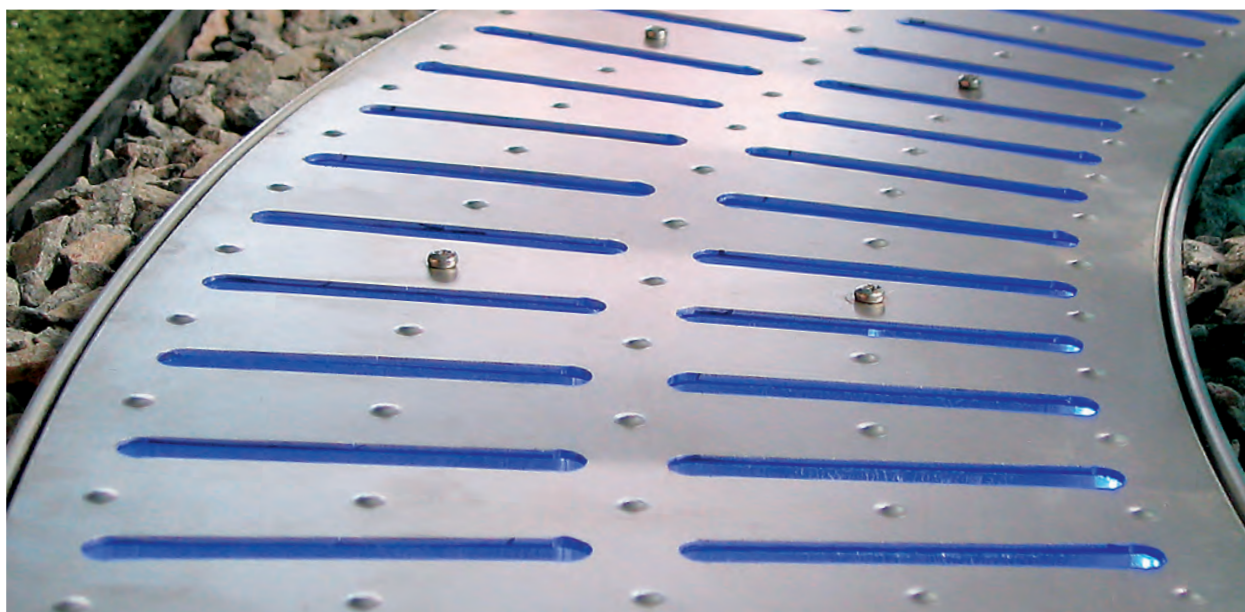
Radial laying lines in a contemporary design reinforce the building appearance and the corporate image of Fanuc Robotics Deutschland. Long bar gratings are the perfect design solution for situations like this.





Some 60 metres of BIRCOtop Series F with stainless steel cross bar gratings are laid alongside the attractively curved building in radial form outside the cafeteria at the Helvetia Versicherung insurance company premises in Frankfurt.

Stainless steel is a particularly good material for implementing individual solutions adapted to the geometries of the building in question. They are ideal for accommodating curved lines, radial laying around revolving doors or elegant transitions from inside to outside.





# BIRCOLux | Innovative drainage with integrated LED lighting technology

BIRCOLux Premium – the special highlight in drainage: a BIRCOtop steel channel with the very latest LED lighting technology perfectly fitted into the Plexiglas layer of the cover. Optionally, BIRCOLux with an LED lighting strip for new or existing BIRCO drainage systems.

<p>+ F 900*</p> 	
<p>+ Walkable**</p> 	
<p>Ideal for setting sophisticated architectural accents in the drainage and design of open public spaces and structures.</p> <p>*BIRCOLux is applicable for numerous BIRCO channel systems. **BIRCOLux Premium with BIRCOtop channel</p>	



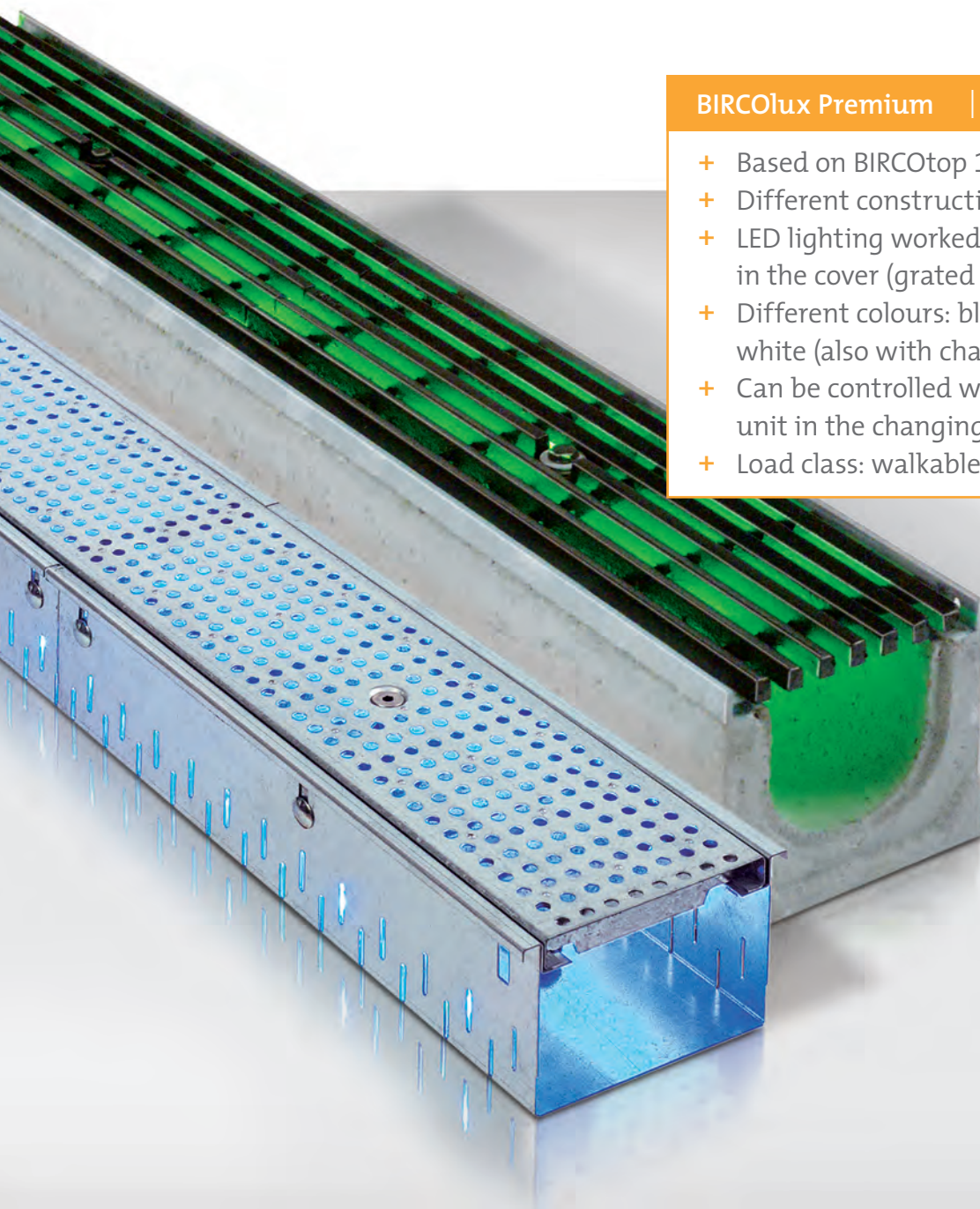
- BIRCOLux and BIRCOLux Premium | Areas of application**
- + Public open spaces
  - + Private construction projects
  - + Urban engineering
  - + Sporting facilities
  - + Anywhere that light can be used as a marker, for example as a safety marker

## BIRCOLux | Facts

- + Can be combined with BIRCOsir NW 100, 150, 200 AS, BIRCOLight 100 AS, 150 AS, BIRCOplus, BIRCOtop Series F and V
- + Also suitable for subsequent installation
- + LED lighting strip with fasteners and the corresponding electronics in a set
- + Different colours: blue, green, red, amber, white
- + Load class: depends on the selected channel system and cover (Walkable – F 900)

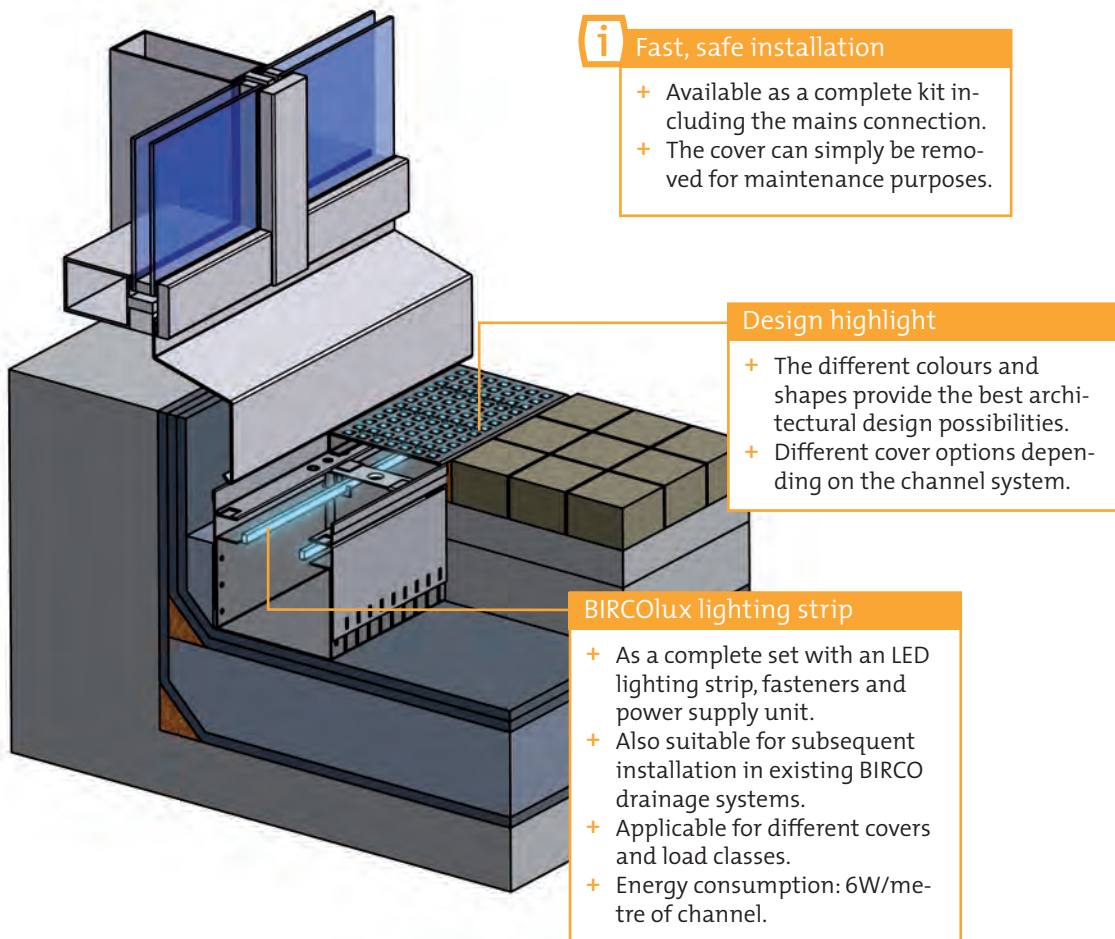
## BIRCOLux Premium | Facts

- + Based on BIRCOtop 100 and 130
- + Different construction lengths
- + LED lighting worked into a Plexiglas layer in the cover (grated or perforated grating)
- + Different colours: blue, green, red, amber, white (also with changing colours)
- + Can be controlled with a remote control unit in the changing colour option
- + Load class: walkable

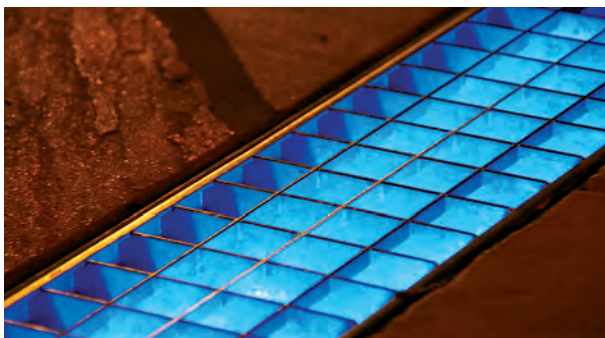


# BIRCOLux | LED lighting strip - Complete set

The BIRCOLux LED lighting strip set can be integrated into any drainage solution. Easy laying – Big effect.



## Litzler Waldighoffen – Light structures with BIRCOLux



The Litzler company showroom in Waldighoffen in France's Alsace region was structured and given a contemporary look with an illuminated BIRCO design solution. More than 15 metres of BIRCOLight were laid with different covers. The lighting colour comes from an integrated lighting strip that is can be controlled easily and safely using the BIRCO power supply unit with an integrated timer switch.

# BIRCOLux Premium | Integrated LED lighting technology

BIRCOLux Premium opens unimagined perspectives for the architectural design of building façades and open public spaces in different geometries and changing colours.

## Baden-Baden hunting lodge – BIRCOLux Premium

The visual appeal of the tradition-rich hunting lodge in Baden-Baden received an extra enhancement in the form of a special BIRCO design solution. A BIRCOtop channel with an illuminated BIRCOLux Premium cover runs on the terra-

ce alongside the swimming pool. Changing light colours create a stimulating contemporary atmosphere in a classic setting.



### Modern LED technology

- + The LED lighting elements are precisely worked into a Plexiglas layer in the cover.
- + Also available with automatically changing colours and mixed colours.
- + Energy consumption: Maximum 9 W/ metre of channel, on average 3 – 5 Watts.
- + Attractive perforated or grating design.



# BIRCOlux

## Attractive lighting effects with an LED lighting strip - Complete set

### BIRCOlux | Sets with an LED lighting strip

- + Fits channel elements BIRCOsir NW 100, 150, 200 AS, BIRCOlight NW 100 AS, 150 AS, BIRCOplus or BIRCOtop Series F + V (without visible edge – all widths)
- + Lighting strip (SMD-LED) according to the selected channel line length
- + Includes power supply unit with transformer, timer switch, fuse, 1.5 metre mains plug cable in a watertight housing (power supply unit IP 66) as well as fasteners (4 per metre), length of the connection cable according to customer wishes
- + Energy consumption: 6W/metre of channel
- + Load according to channel classification

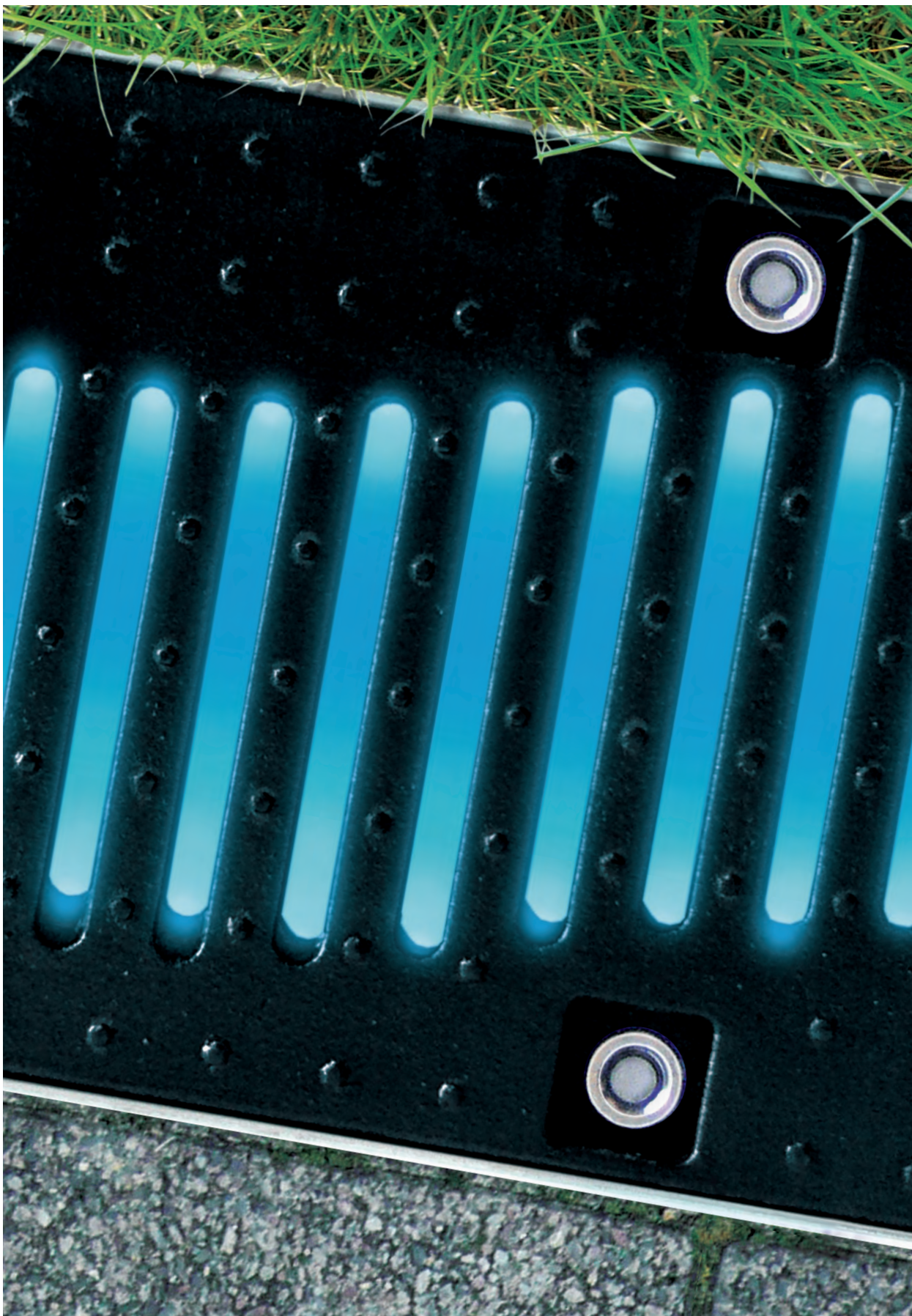


Assembly example

Description	Length	Article No.
Set with LED lighting strip, amber	individually eligible	615103
SSet with LED lighting strip, blue	individually eligible	615104
Set with LED lighting strip, white	individually eligible	615105
Set with LED lighting strip, red	individually eligible	615106
Set with LED lighting strip, green	individually eligible	615107

### BIRCOlux LED lighting strip - Complete set

- + Available in five attractive colours (amber, red, white, blue, green).
- + Low energy consumption with 6W per channel metre.
- + Fast, easy installation.



Attractive lighting effects for interiors and modern exterior design..

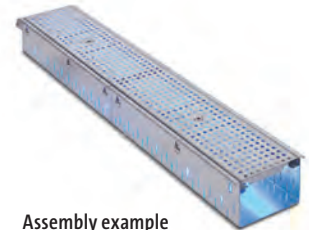


# BIRCOLux Premium

Innovative surface drainage with integrated LED lighting technology

## Lighting modules | BIRCOLux Premium | single-coloured

- + For BIRCOtop 100 and 130
- + Lighting module (SMD-LED) for slotted and perforated grating
- + In the colours amber, blue, white, red and green
- + Energy consumption: 3W/metre of channel
- + Walkable



Assembly example

Description	Length	External width	Grating	Colour	Article No.
for BIRCOtop Series V 100 or F 100, galvanised or stainless steel (V2A)	500 mm	100 mm	Slotted grating	amber	on request
for BIRCOtop Series V 100 or F 100, galvanised or stainless steel (V2A)	500 mm	100 mm	Slotted grating	blue	on request
for BIRCOtop Series V 100 or F 100, galvanised or stainless steel (V2A)	500 mm	100 mm	Slotted grating	white	on request
for BIRCOtop Series V 100 or F 100, galvanised or stainless steel (V2A)	500 mm	100 mm	Slotted grating	red	on request
for BIRCOtop Series V 100 or F 100, galvanised or stainless steel (V2A)	500 mm	100 mm	Slotted grating	green	on request
for BIRCOtop Series V 100 or F 100, galvanised or stainless steel (V2A)	1000 mm	100 mm	Slotted grating	amber	on request
for BIRCOtop Series V 100 or F 100, galvanised or stainless steel (V2A)	1000 mm	100 mm	Slotted grating	blue	on request
for BIRCOtop Series V 100 or F 100, galvanised or stainless steel (V2A)	1000 mm	100 mm	Slotted grating	white	on request
for BIRCOtop Series V 100 or F 100, galvanised or stainless steel (V2A)	1000 mm	100 mm	Slotted grating	red	on request
for BIRCOtop Series V 100 or F 100, galvanised or stainless steel (V2A)	1000 mm	100 mm	Slotted grating	green	on request
for BIRCOtop Series V 130 or F 130, galvanised or stainless steel (V2A)	500 mm	130 mm	Slotted, perforated grating	amber	on request
for BIRCOtop Series V 130 or F 130, galvanised or stainless steel (V2A)	500 mm	130 mm	Slotted, perforated grating	blue	on request
for BIRCOtop Series V 130 or F 130, galvanised or stainless steel (V2A)	500 mm	130 mm	Slotted, perforated grating	white	on request
for BIRCOtop Series V 130 or F 130, galvanised or stainless steel (V2A)	500 mm	130 mm	Slotted, perforated grating	red	on request
for BIRCOtop Series V 130 or F 130, galvanised or stainless steel (V2A)	500 mm	130 mm	Slotted, perforated grating	green	on request
for BIRCOtop Series V 130 or F 130, galvanised or stainless steel (V2A)	1000 mm	130 mm	Slotted, perforated grating	amber	on request
for BIRCOtop Series V 130 or F 130, galvanised or stainless steel (V2A)	1000 mm	130 mm	Slotted, perforated grating	blue	on request
for BIRCOtop Series V 130 or F 130, galvanised or stainless steel (V2A)	1000 mm	130 mm	Slotted, perforated grating	white	on request
for BIRCOtop Series V 130 or F 130, galvanised or stainless steel (V2A)	1000 mm	130 mm	Slotted, perforated grating	red	on request
for BIRCOtop Series V 130 or F 130, galvanised or stainless steel (V2A)	1000 mm	130 mm	Slotted, perforated grating	green	on request

## Cable | BIRCOLux Premium | single-coloured

- + Watertight mains plug
- + Safety class IP 67
- + For extension of the connection cable or between 2 modules

Description	Length	Article No.
Cable	2000 mm	on request
Cable	5000 mm	on request
Cable	10000 mm	on request



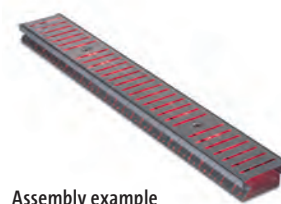
**Power supply units | BIRCOLux Premium | single-coloured**

- + Connection cable 1.5 m
- + Mains plug cable 1.5 m
- + Safety class IP 66

Description	Article No.
for 5 m BIRCOLux Premium single-coloured	on request
for 20 m BIRCOLux Premium single-coloured	on request

**Lighting modules | BIRCOLux Premium | multi-coloured**

- + For BIRCOtop 100 and 130
- + Lighting module (SMD-LED) for slotted and perforated gratings
- + With changing colours in RGB colours
- + Different colour sequence programmes and individual single colours can be displayed
- + Energy consumption: Maximum 9 W/metre of channel, on average 3 – 5 Watts
- + Walkable



Assembly example

Description	Length	External width	Grating	Article No.
for BIRCOtop Series V 100 or F 100, galvanised or stainless steel (V2A)	500 mm	100 mm	Slotted grating	on request
for BIRCOtop Series V 100 or F 100, galvanised or stainless steel (V2A)	1000 mm	100 mm	Slotted grating	on request
for BIRCOtop Series V 130 or F 130, galvanised or stainless steel (V2A)	500 mm	130 mm	Slotted, perforated grating	on request
for BIRCOtop Series V 130 or F 130, galvanised or stainless steel (V2A)	1000 mm	130 mm	Slotted, perforated grating	on request

**Cable | BIRCOLux Premium | multi-coloured**

- + Watertight mains plug
- + Safety class IP 67
- + For extension of the connection cable or between 2 modules

Description	Length	Article No.
Cable	2000 mm	on request
Cable	5000 mm	on request
Cable	10000 mm	on request

**Power supply units | BIRCOLux Premium | multi-coloured**

- + Connection cable 1.5 m
- + Mains plug cable 1.5 m
- + Safety class IP 66
- + Controller for changing colours
- + Can be controlled using remote control unit in the changing colour option

Description	Article No.
Basic unit for 5 metres of BIRCOLux Premium multi-coloured	upon request
Expansion unit for every additional 5 metres	upon request



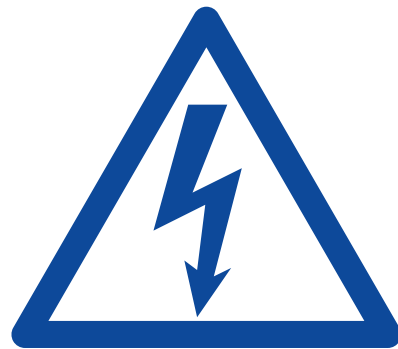


# BIRCOLux | Safety instructions and assembly instructions

A number of details must be observed when installing BIRCOLux. You can find a description here.

## General instructions:

- + Assembly and the electrical connection must be conducted by authorised electronics personnel (e.g., qualified electrician).
- + The LED lighting strip or power supply must be switched off from the electricity supply before any work is conducted on them.
- + The safe operation of the LED lighting strip and the power supply unit is only guaranteed if these instructions are complied with.
- + The manufacturer assumes no liability whatsoever in the event that the instructions in this supplement are not complied with or if the LED lighting strip or the power supply unit are used improperly.



## BIRCOLux Premium | Installation

- + BIRCOLux Premium is fast and easy to install.
- + For information on laying the channel refer to the BIRCO Landscaping brochure, Page 98 ff
- + The electrical installations must be conducted by a qualified specialist company.

## BIRCOLux assembly

### Fast and easy to lay – BIRCOLux Lighting strip - Complete set



Photo 1



Photo 2



Photo 3: BIRCOsir



Photo 4: BIRCOtop



Photo 5: BIRCOLight

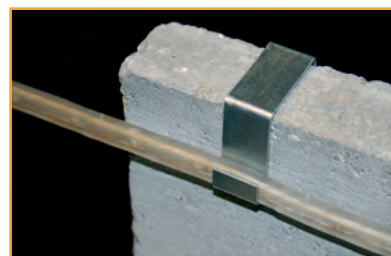


Photo 6: BIRCOplus



Photo 7



Photo 8

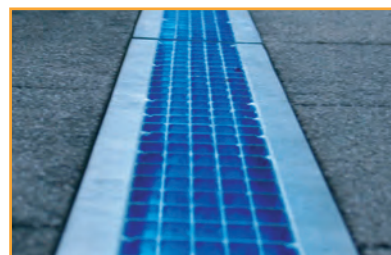


Photo 9

**BIRCOLight:** Remove the covers from the channels (Photo 1). Then remove the bolt clip from the BIRCOLight channel. Now set the fasteners on both sides of the bolt clip (Photo 2). Now the clip can be refastened in the channel.

**BIRCOplus:** Remove the covers from the channels. (Photo 1) Lay the fastener over the concrete edge (Photo 6).

**BIRCOsir:** Remove the covers from the channels (Photo 1). With BIRCOsir, set the fastener directly in the frame connector case (Photo 3).

**BIRCOtop:** Remove the cover from the channel (Photo 1). Press one bracket

each onto both ends of the clip so that the hook faces in the direction of the middle of the channel.

If the fasteners are mounted on both sides, then the LED lighting strip can now be clamped into place (Photos 4, 5 and 6). Ensure that the markings on the LED lighting strip face in the direction of the channel body and that the LED lighting strip is clamped securely into the fasteners.

If the LED lighting strip is fastened into both sides of the channel body, then the cable must now be fed out of the channel at the end of the channel line, for instance through a bore hole or recess (Photo 7). Now expose the

access to the channel in the surface pavement or covering. Example: Dig out the cobblestones and create access to the channel in this way (Photo 8). **The cables must be laid in an empty pipe (for example, FFKUS 32) in the ground and may not be crimped. The empty pipe must be sealed up tightly at both ends (with silicone for instance). The entry of water into the empty pipe must be prevented.** Fasten the power supply unit to a **protected area** and connect the lighting module. Place the covers back onto the channel. Once the timer switch has been programmed, your illuminated channel is ready for operation (Photo 9).



# BIRCOservice | Advice and processing

BIRCO drainage solutions are adapted to your specific project, individually and in compliance with the latest construction guidelines.

## Your plans are in good hands

BIRCO's factory service offers you a variety of customised channel panel solutions, either at a 90° angle, mitred or in accordance with CAD drawings. The concrete parts are cut including the covers so that installation at the building site can be conducted faster and with greater precision.

## Your ideas cast in metal

Absolute individuality – Give yourself, your city or your company an unmistakable face at a single glance: covers with coat of arms designs or other individual embossments.

For smaller and larger nominal widths: Upon request we will create your individual casting mould and cast coats of arms or logos on the cover.

This is a very special, long-term way to leave a lasting impression.



BIRCO's processing specialists turn your ideas into reality, individually and reliably.





BIRCOexperts support planners and architects from the first concept through to laying, at the drawing board and every day at the building site.

## BIRCOonline

### Information at a single mouse click

In addition to personal consultation, you can also order all of our product information by post, e-mail or via the internet.

### Download Center

At the Download Centre you can find installation instructions, technical information and much more in PDF file form. On the data pages, you can create PDF files of daily technical data updates.

## BIRCOsales team

### Always close by

Your internal customer service representative can always be reached by phone or e-mail, ready to assist you with inquiries, advice and expert knowledge.

We also rely on a continuous trusting cooperation with regional dealerships. This network benefits you in product inquiries and logistics.

[www.birco.de](http://www.birco.de)



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## Design



BIRCO\_KAT\_Design\_11/12\_EN