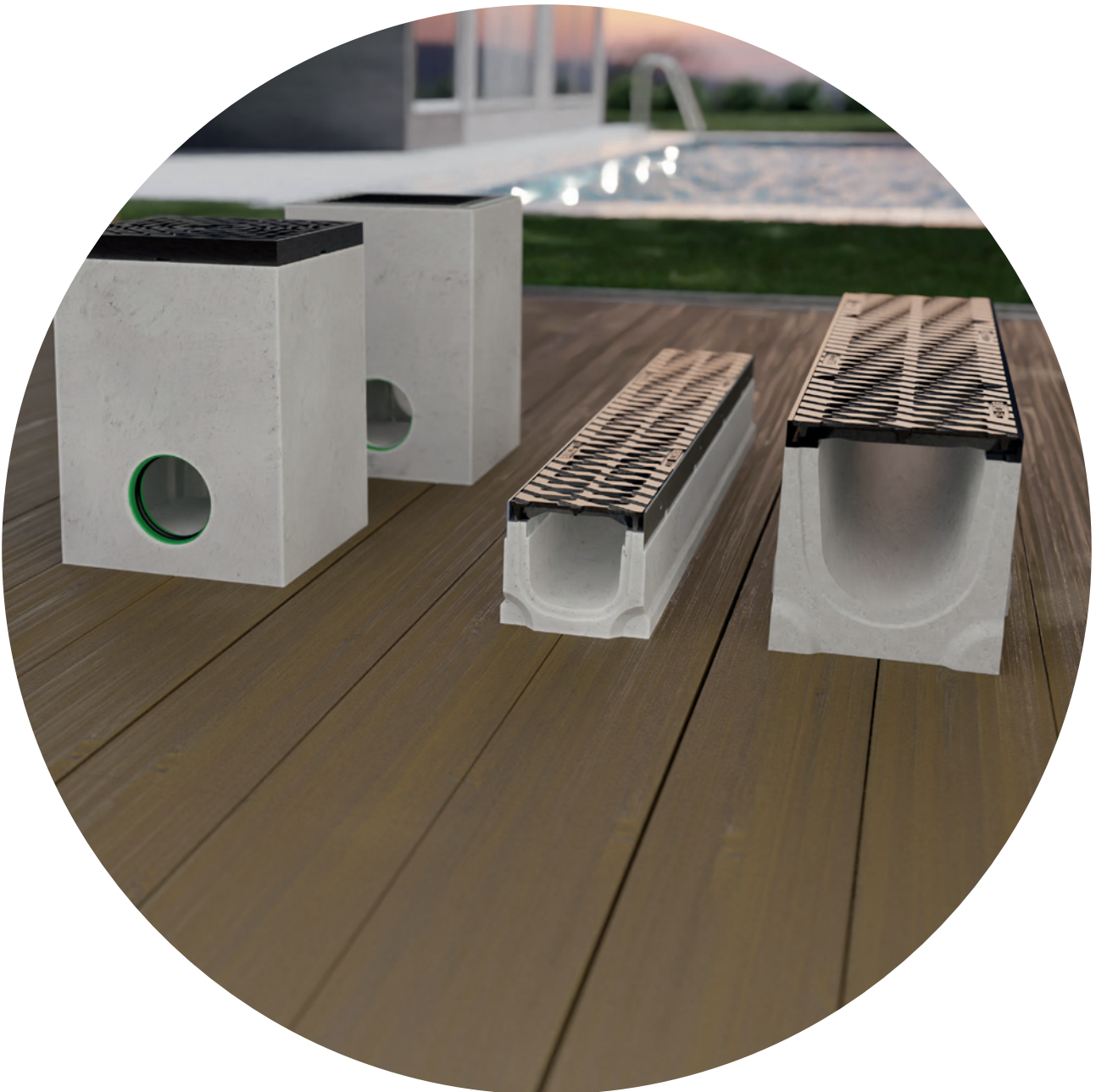


BIRCO

DRAINAGE IN
ITS BEST FORM

New BIRCO products for landscaping

Innovative channel systems and point drainage units

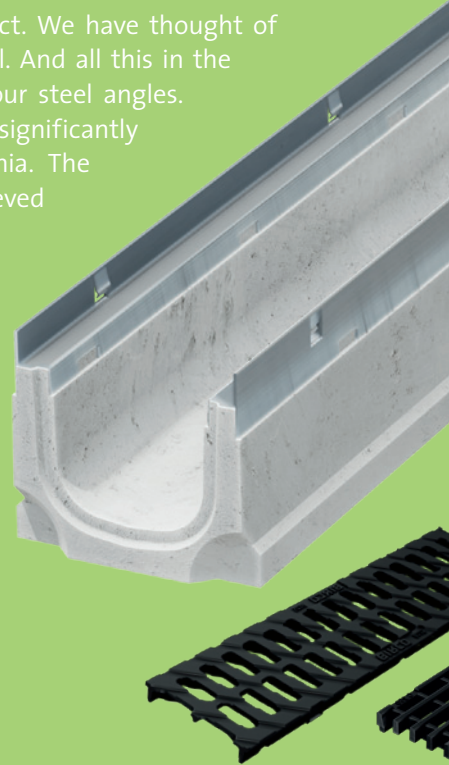


BIRCOslim® – the name actually says it all

The BIRCOslim® will – of this we are sure – become a classic landscaping product. We have thought of everything when designing this channel: it is slim, lightweight and easy to install. And all this in the best BIRCO quality: vibrated-pressed concrete in C40/50 grade combined with our steel angles. Featuring a special zinc/aluminium/magnesium coating (Magnelis®), they provide significantly improved corrosion protection, particularly in environments containing ammonia. The surface protection lasts up to seven times longer, whilst even better values are achieved in the cutting edge area. The mix makes the difference! Less zinc, meaning less of this raw material is washed away: hence we have thought of everything, even with regard to our responsibility for the environment and resources.

The BIRCOslim® comes with an attractive range of covers and complete accessories, from the outfall unit to the end cap. For this product too we offer the BIRCO factory service, with advice and calculations through to drilling and cutting channels and covers.

Our lightweight product withstands quite a lot. The BIRCOslim® can be safely used up to load class C 250, thus covering many areas in the landscaping sector. A perfect addition to our drainage portfolio when it comes to lightweight, yet equally high-quality and long-lasting solutions. As a new product in our landscaping drainage range, the BIRCOslim® will be available directly from stock as of January 2023, and therefore always to hand at your construction site when needed. The BIRCOslim® is **Made in Germany**.



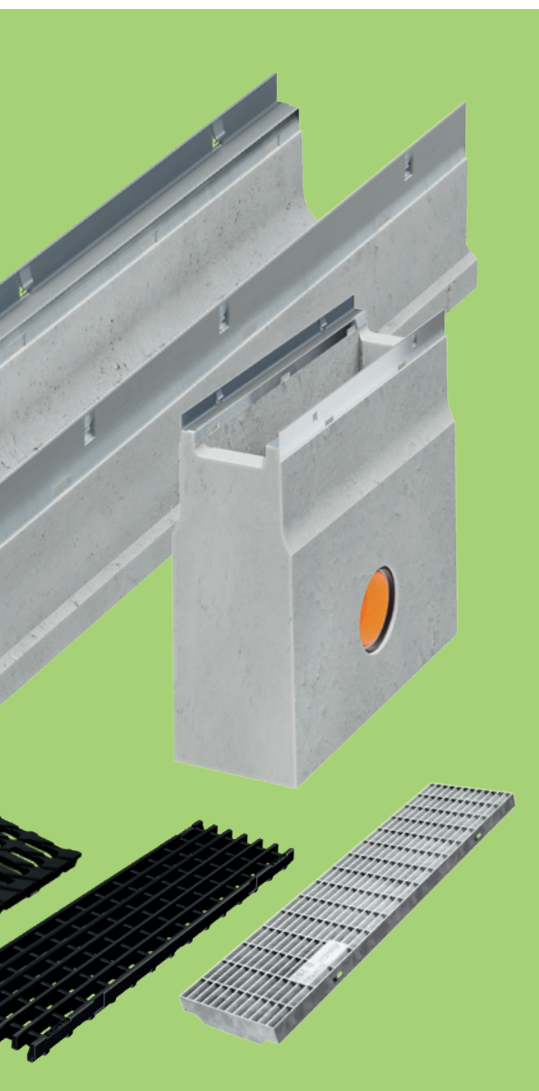
(Pin)point drainage with BIRCO

Sometimes you simply have to make a point – that also applies to landscaping. On pavements or in driveways, a point drainage unit is always an elegant idea for draining off rain water in a targeted manner. Nothing new for us – yet at this point we have something new for you.

Lightweight, simple and sturdy. Often, nothing more is needed. With the new BIRCOplus point inlet, that is precisely what we provide. The user-friendly system is good quality, easy to handle and perfect in terms of drainage capacity. Supplied as a set with clamped-on grate, odour trap, silt bucket and PVC pipe connection, the point inlet comes with everything needed for good drainage – without frills.

Or perhaps with frame and cast cover? We have added a point drainage unit to the BIRCOLight® too. And here as well we offer a complete set, yet with high-quality cast frame with cathodic dip coating and clamped-on cast cover. Perfectly prepared for installation on site, naturally with odour trap, silt bucket and PVC pipe connection.

The choice is yours. And it is always a good choice, that's a promise!

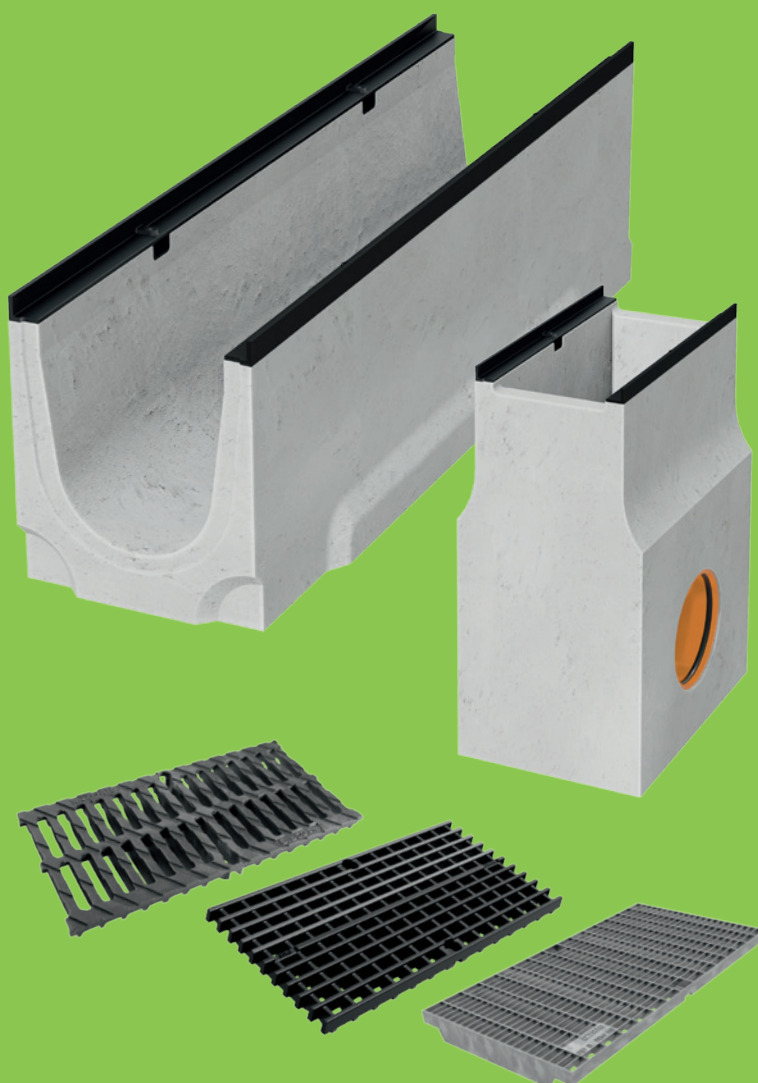


Proven quality in a new design

It is no longer possible to imagine the landscaping sector without our BIRCOLight® drainage system. What could possibly be added here?

BIRCOLight® with DI casted angles.

As always: good quality and with everything needed for the perfect design: covers, outfall units and accessories. At this point we would like to say a word about quality: our BIRCOLight® drainage channels are made of the best C 40/50 concrete and equipped with DI cathodic coated casted angles. Stability and corrosion protection perfectly combined. Bolt connections that last: our reliable M8 threaded connections (4 per metre) are another quality feature. The shift protection system on our covers ensure that everything stays where it is. The BIRCOLight® with DI angles is the right decision, it is safe to say.



BIRCOslim® | The lightweight channel with strong features

In the landscaping sector, materials should be lightweight but also sturdy and resilient. The installation should be quick and easy. The BIRCOslim® comes with all of these attributes. High-quality C 40/50 grade concrete and yet a weight from 12.9 kg per metre of drainage channel. The sturdy steel angles come with a Magnelis® coating (zinc, aluminium, magnesium) and offer unbeatable corrosion protection. Because once these systems are in place, they need to last.

A 15 to C 250



Lightweight channel system with excellent drainage capacity for the public and private sector.

BIRCOslim® | Application areas

- + Driveways and garages
- + Office buildings
- + Public buildings (e.g. children's nurseries, creches)
- + Sports facilities
- + Car parks

BIRCOslim® | Facts

- + Channel system: NW 100 without slope
- + Also available as a shallow channel
- + With anchoring system
- + Steel angles with zinc/aluminium/magnesium coating (Magnelis®)
- + Best corrosion resistance (10 times better than galvanised steel)
- + BIRCOhyperbolic construction for long-lasting stability
- + Lengths: 0.50 and 1.00 m
- + Load class: A 15 – C 250
- + In-line outfall unit with excellent drainage capacity
- + Range of gratings made of galvanised steel and black dip-coated DI
- + Made in Germany



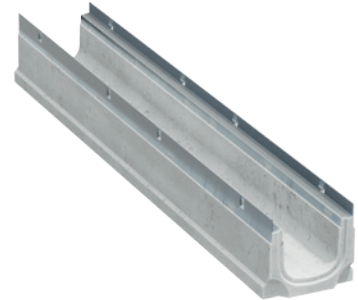
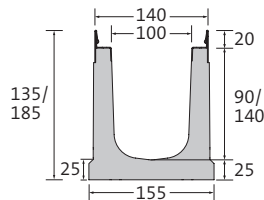
BIRCOslim® | NW 100

The lightweight channel with strong features

Channel elements without anchoring system | without slope

Aqua*

- + Steel angles with zinc/aluminium/magnesium coating (Magnelis®)
- + BIRCOhyperbolic construction
- + Visible gap for safety sealing joint
- + With shift protection of the grating

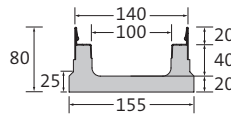


Description	Length	Height at tongue/groove	Weight	Load class EN 1433	Pallet	Article No.	Unit price without VAT
Channel No. 0/0	500 mm	135 mm	11.1 kg	A 15 – C 250	32 units	4112031	€ 55.70
Channel No. 0/0	1000 mm	135 mm	22.1 kg	A 15 – C 250	30 units	4112026	€ 73.80
Channel No. 10/0	1000 mm	185 mm	27.7 kg	A 15 – C 250	20 units	4112028	€ 73.80

Shallow channel | without slope

Aqua*

- + Steel angles with zinc/aluminium/magnesium coating (Magnelis®)
- + BIRCOhyperbolic construction
- + Visible gap for safety sealing joint
- + With shift protection of the grating

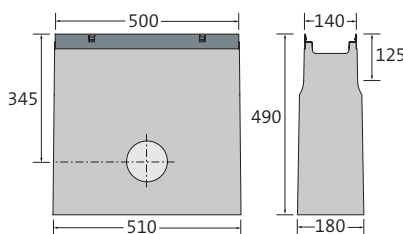


Description	Length	Height at tongue/groove	Weight	Load class EN 1433	Pallet	Article No.	Unit price without VAT
Construction height 80	1000 mm	80 mm	12.9 kg	A 15 – C 250	40 units	4112030	€ 73.80

In-line outfall unit | 1-piece

Aqua*

- + Steel angles with zinc/aluminium/magnesium coating (Magnelis®)
- + 1 or 2-sided channel connection up to no. 10/0
- + PP odour trap DN 110 for pipe connection
- + KG sleeve set in concrete for DN 110 pipe connection
- + PP silt bucket
- + With shift protection of the grating



Description	Length on rim/on ground	Height	Weight	Load class EN 1433	Pallet	Article No.	Unit price without VAT
In-line outfall unit	500/510 mm	490 mm	53.3 kg	A 15 – C 250	12 units	4112035	€ 167.00

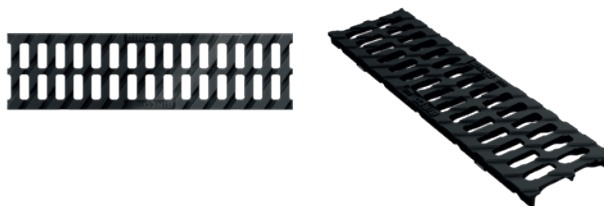
Exterior U trap DN 110 from KG-2000 (Art. no. 605010) on request.

* BIRCO product group
Dimensions and weights may differ slightly.

Double slotted gratings | DI

Aqua*

- + Black dip-coated
- + 8 clamps per metre

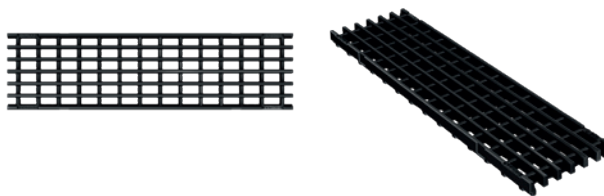


Length	Width	Height	Weight	Inlet opening	Inlet cross section	Load class EN 1433	Pallet	Article No.	Unit price without VAT
500 mm	133 mm	20 mm	2.9 kg	2x SW 44/16 mm	440 cm ² /m	A 15 – B 125	100 units	4112070	€ 29.90

Longitudinal bar gratings | DI

Aqua*

- + Black dip-coated
- + 8 clamps per metre

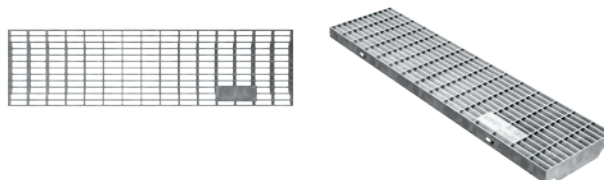


Length	Width	Height	Weight	Inlet opening	Inlet cross section	Load class EN 1433	Pallet	Article No.	Unit price without VAT
500 mm	133 mm	20 mm	3.7 kg	MW 29/14 mm	626 cm ² /m	A 15 – C 250	100 units	4112095	€ 38.70

Gratings | galvanised steel

Aqua*

- + Hot-dip galvanised
- + 8 clamps per metre



Length	Width	Height	Weight	Inlet opening	Inlet cross section	Load class EN 1433	Pallet	Article No.	Unit price without VAT
500 mm	133 mm	20 mm	1.2 kg	MW 30/10 mm	936 cm ² /m	A 15 – B 125	100 units	4112063	€ 38.70
1000 mm	133 mm	20 mm	2.4 kg	MW 30/10 mm	976 cm ² /m	A 15 – B 125	50 units	4112053	€ 54.60

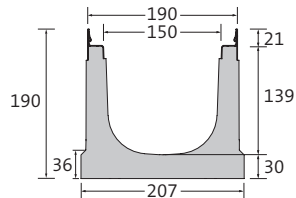
BIRCOslim® | NW 150

The lightweight channel with strong features

Channel elements without anchoring system | without slope

Aqua*

- + Steel angles with zinc/aluminium/magnesium coating (Magnelis®)
- + BIRCOhyperbolic construction
- + Visible gap for safety sealing joint
- + With shift protection of the grating

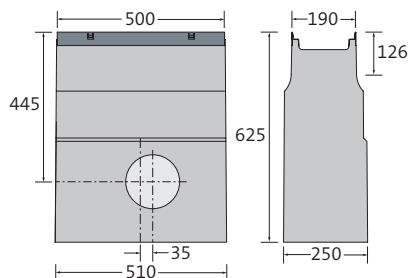


Description	Length	Height at tongue/groove	Weight	Load class EN 1433	Pallet	Article No.	Unit price without VAT
Channel No. 0/0	1000 mm	190/207 mm	36,2 kg	A 15 – C 250	15 units	4112126	on request

In-line outfall unit | 1-piece

Aqua*

- + Steel angles with zinc/aluminium/magnesium coating (Magnelis®)
- + 1 or 2-sided channel connection up to no. 10/0
- + PP odour trap DN 110 for pipe connection
- + KG sleeve set in concrete for DN 110 pipe connection
- + PP silt bucket
- + With shift protection of the grating



Description	Length on rim/on ground	Height	Weight	Load class EN 1433	Pallet	Article No.	Unit price without VAT
In-line outfall unit	500/510 mm	625 mm	89,5 kg	A 15 – C 250	8 units	4112135	on request

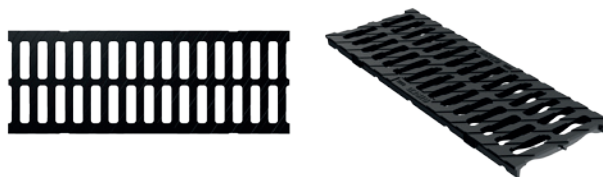
Exterior U trap DN 110 from KG-2000 (Art. no. 605010) on request.

* BIRCO product group
Dimensions and weights may differ slightly.

Double slotted gratings | DI

Aqua*

- + Black dip-coated
- + 8 clamps per metre

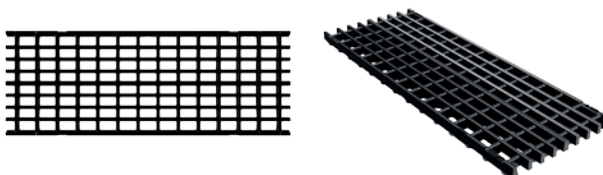


Length	Width	Height	Weight	Inlet opening	Inlet cross section	Load class EN 1433	Pallet	Article No.	Unit price without VAT
500 mm	183 mm	21 mm	4,2 kg	2xSW 66/16 mm	667 cm ² /m	A 15 – B 125	100 units	4112170	on request

Longitudinal bar gratings | DI

Aqua*

- + Black dip-coated
- + 8 clamps per metre

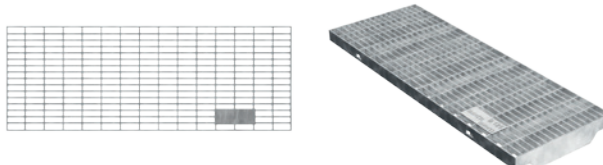


Length	Width	Height	Weight	Inlet opening	Inlet cross section	Load class EN 1433	Pallet	Article No.	Unit price without VAT
500 mm	183 mm	21 mm	5,5 kg	MW 29/14 mm	896 cm ² /m	A 15 – C 250	100 units	4112195	on request

Gratings | galvanised steel

Aqua*

- + Hot-dip galvanised
- + 8 clamps per metre



Length	Width	Height	Weight	Inlet opening	Inlet cross section	Load class EN 1433	Pallet	Article No.	Unit price without VAT
500 mm	183 mm	20 mm	1,6 kg	MW 30/10 mm	1305 cm ² /m	A 15 – B 125	50 units	4112163	on request
1000 mm	183 mm	20 mm	3,2 kg	MW 30/10 mm	1325 cm ² /m	A 15 – B 125	60 units	4112153	on request

BIRCOslim® | Accessories

The lightweight channel with strong features

End caps for NW 100 | galvanised steel

Aqua*

+ With or without outlet connection

Description	For construction height	Weight	Article No.	Unit price without VAT
End cap, No. 0/0	135 mm	0.1 kg	4112090	€ 18.10
End cap, No. 10/0	185 mm	0.1 kg	4112092	€ 18.10
End cap for shallow channel	80 mm	0.1 kg	4112040	€ 18.10
End cap with DN 110 outlet, No. 10/0	185 mm	0.2 kg	4112047	€ 27.50

End caps for NW 150 | galvanised steel

Aqua*

+ With or without outlet connection

Description	For construction height	Weight	Article No.	Unit price without VAT
End cap, No. 0/0	185 mm	0.2 kg	4112190	on request

Odour trap for in-line outfall unit

Tec*

- + Odour trap for drain with DN 160 KG sleeve for 1-piece outfall unit
- + PP



Description	Weight	Article No.	Unit price without VAT
Interior odour trap DN 160 suitable for PVC pipe connection, 1-piece	0.2 kg	605002	€ 10.60
Exterior U-trap DN 160 suitable for KW-2000 PVC pipe connection	5.1 kg	605011	on request

* BIRCO product group
Dimensions and weights may differ slightly.

BIRCOslim® drainage capacity

The BIRCO channel systems have excellent drainage capacities. Besides this table, BIRCO offers a project-related hydraulic calculation service.

These tables can only provide the required result in some cases, as the calculation is largely based on the local conditions, i.e. on the position of the existing drainage shafts, the number of runs etc. We therefore recommend our factory hydraulic calculation with an execution proposal.

BIRCOslim® NW 100

BL = 1000 mm	Drainage capacity at the end of the channel	Cross section at the end of the channel
Height 80 mm	1.91 l/sec	34.31 cm ²
No. 0/0	4.16 l/sec	74.85 cm ²
No. 10/0	6.85 l/sec	123.38 cm ²

BIRCOslim® NW 150

BL = 1000 mm	Drainage capacity at the end of the channel	Cross section at the end of the channel
No. 0/0	10.20 l/sec	183.55 cm ²

Horizontal and vertical boreholes

Depending on the local circumstances, drainage channels sometimes have to be equipped with a borehole so as to be able to connect them to the sewer. BIRCO channels can be equipped at the factory with horizontal or vertical boreholes for direct inflows and outflows according to the planning specifications. The diameter is designed for channel basic pipes: other types of pipe on request.

BIRCOslim NW 100 | Max. bore diameter

Nominal width	Horizontal borehole maximum	Vertical borehole maximum
100	DN 110*	DN 110

* from channel No. 10/0 upwards

Boreholes must have a gap of at least 100 mm to the end of the channel.

BIRCOLight® with DI angles | A perfect addition to the classic BIRCOLight® system

When it comes to the BIRCOLight® drainage system, we are talking about a classic in the landscaping sector. We now also supply our all-rounder with cathodic-coated DI angles. As always: good quality and with everything needed for the perfect design.

+ A 15 to E 600
(for NW 100
and NW 150)



+ A 15 to D 400
(for NW 200)



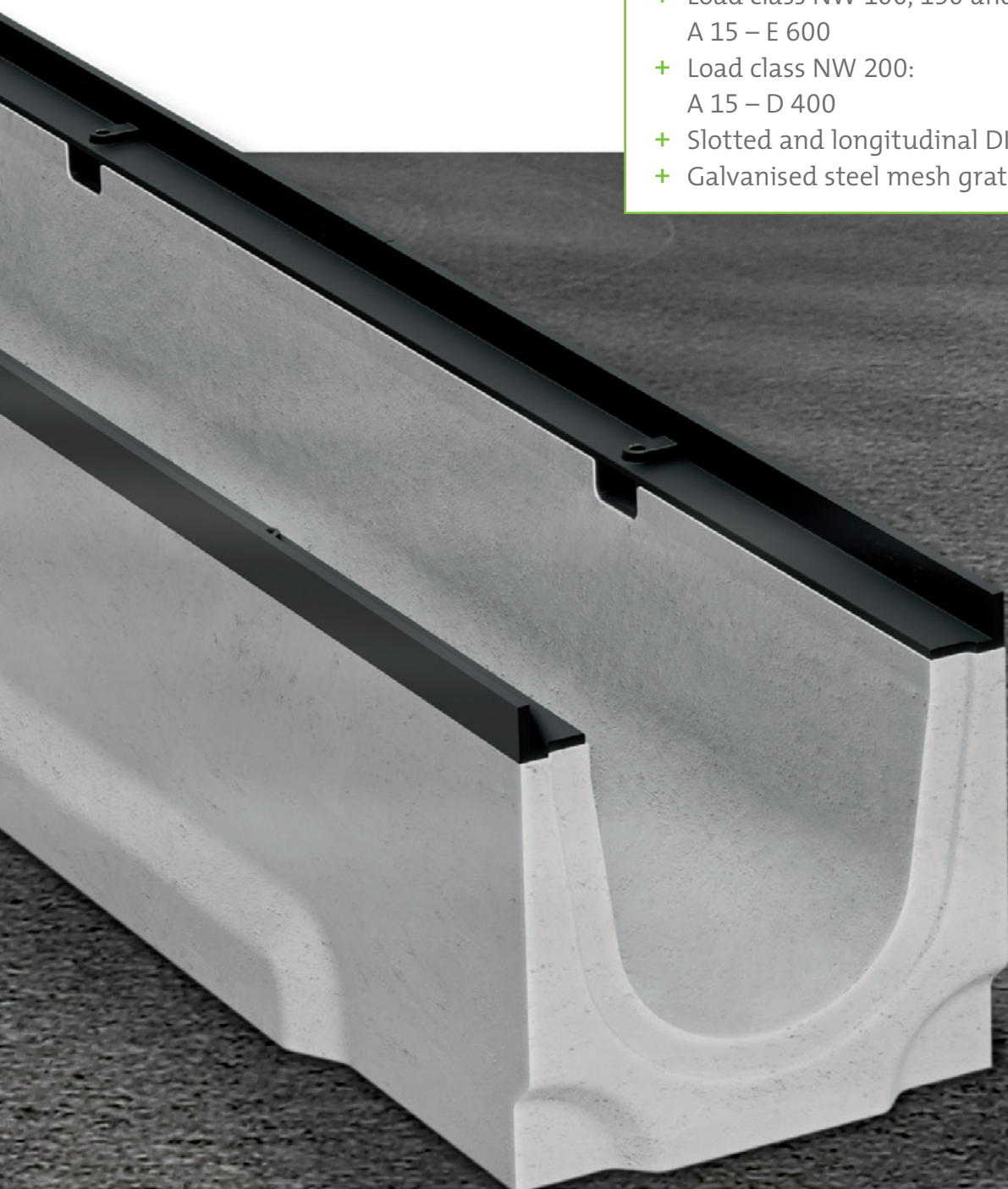
BIRCOLight® with DI angles

BIRCOLight | Application areas

- + Landscaping
- + Housing and urban development
- + Public spaces
- + Car parks
- + Entrance areas and driveways

BIRCOLight® with DI angles | Facts

- + Channel system: NW 100, 150 and 200
- + With anchoring system
- + Without cross locking bar
- + Lengths: 0.50 and 1.00 m
- + Load class NW 100, 150 and 150:
A 15 – E 600
- + Load class NW 200:
A 15 – D 400
- + Slotted and longitudinal DI gratings
- + Galvanised steel mesh gratings



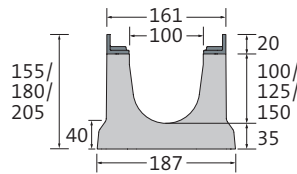
BIRCOLight® with DI angles | NW 100

New look – proven quality

Channel elements with anchoring system | without slope

Aqua*

- + Cathodic-coated DI angles
- + With shift protection of the grating
- + Visible gap for safety sealing joint



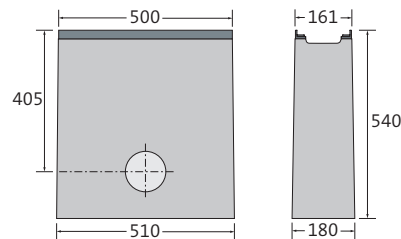
Description	Length	Height at tongue/groove	Weight	Load class EN 1433	Pallet	Article No.	Unit price without VAT
Channel No. 0/0	500 mm	155/155 mm	17.9 kg	A 15 – E 600	32 units	217031	€ 83.30
Channel No. 0/0	1000 mm	155/155 mm	35.6 kg	A 15 – E 600	24 units	217026	€ 124.30
Channel No. 0/0 with DN 100 outlet	1000 mm	155/155 mm	34.8 kg	A 15 – E 600	24 units	217033	€ 142.80
Channel No. 5/0	1000 mm	180/180 mm	39.2 kg	A 15 – E 600	20 units	217027**	€ 124.30
Channel No. 10/0	1000 mm	205/205 mm	42.8 kg	A 15 – E 600	20 units	217028**	€ 124.30

** available from 4th quarter 2022

In-line outfall unit | 1-piece

Aqua*

- + Cathodic-coated DI angles
- + 1 or 2-sided channel connection up to no. 10/0
- + PP silt bucket
- + PP odour trap DN 110 for pipe connection
- + Integrated sockets for DN 110 pipe connection
- + With shift protection of the grating



Description	Length on rim/on ground	Height	Weight	Load class EN 1433	Pallet	Article No.	Unit price without VAT
In-line outfall unit	500/510 mm	540 mm	62.6 kg	A 15 – E 600	12 units	217035	€ 216.60

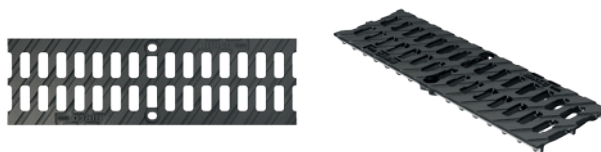
Exterior U trap DN 110 from KG-2000 (Art. no. 605010) on request.

* BIRCO product group
Please bear in mind the separate installation in case of classes D 400 and E 600.
Exception from D 400 upwards: not for installation at right angles to carriageway on motorways and highways.
Dimensions and weights may differ slightly.

Double slotted gratings | DI

Aqua*

- + Black dip-coated
- + 4 x M8 bolt connection per metre
- + With shift protection
- + Anti-slip rating R11/V10

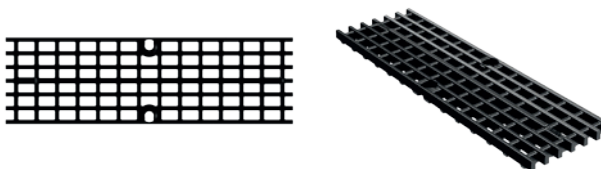


Length	Width	Height	Weight	Inlet opening	Inlet cross section	Load class EN 1433	Pallet	Article No.	Unit price without VAT
500 mm	153 mm	20 mm	3.3 kg	2x SW 43/16 mm	428 cm ² /m	A 15 – C 250	100 units	217072	€ 35.70
500 mm	153 mm	20 mm	4.1 kg	2x SW 43/16 mm	428 cm ² /m	A 15 – E 600	100 units	217075	€ 47.20

Longitudinal bar gratings | DI

Aqua*

- + Black dip-coated
- + 4 x M8 bolt connection per metre
- + With shift protection



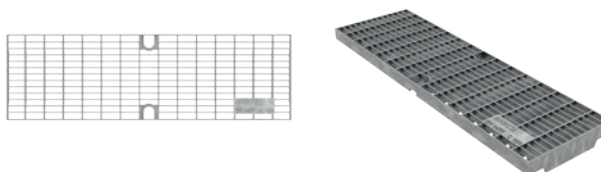
Length	Width	Height	Weight	Inlet opening	Inlet cross section	Load class EN 1433	Pallet	Article No.	Unit price without VAT
500 mm	153 mm	20 mm	4.0 kg	MW 28/17 mm	699 cm ² /m	A 15 – D 400	100 units	217096***	€ 46.50

*** available from the start of 2023

Mesh gratings | galvanised steel

Aqua*

- + Hot-dip galvanised
- + 4 x M8 bolt connection per metre
- + With shift protection



Length	Width	Height	Weight	Inlet opening	Inlet cross section	Load class EN 1433	Pallet	Article No.	Unit price without VAT
500 mm	153 mm	20 mm	2.2 kg	MW 30/10 mm	1045 cm ² /m	A 15 – C 250	50 units	217063	€ 73.50
1000 mm	153 mm	20 mm	4.5 kg	MW 30/10 mm	1064 cm ² /m	A 15 – C 250	100 units	217053	€ 104.90

SW = slot width, MW = mesh width, * BIRCO product group

Please bear in mind the separate installation in case of classes D 400 and E 600.

Exception from D 400 upwards: not for installation at right angles to carriageway on motorways and highways.

Dimensions and weights may differ slightly.

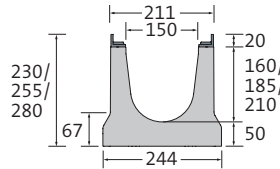
BIRCOLight® with DI angles | NW 150

New look – proven quality

Channel elements with anchoring system | without slope

Aqua*

- + Cathodic-coated DI angles
- + With shift protection of the grating
- + Visible gap for safety sealing joint



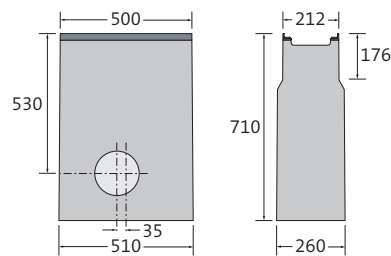
Description	Length	Height at tongue/groove	Weight	Load class EN 1433	Pallet	Article No.	Unit price without VAT
Channel No. 0/0	500 mm	230/230 mm	31.7 kg	A 15 – E 600	24 units	217131	€ 92.00
Channel No. 0/0	1000 mm	230/230 mm	63.4 kg	A 15 – E 600	12 units	217126	€ 137.30
Channel No. 0/0 with outlet DN 160	1000 mm	230/230 mm	62.2 kg	A 15 – E 600	12 units	217133	€ 167.50
Channel No. 5/0	1000 mm	255/255 mm	67.1 kg	A 15 – E 600	12 units	217127**	€ 137.30
Channel No. 10/0	1000 mm	280/280 mm	70.8 kg	A 15 – E 600	12 units	217128**	€ 137.30

** available from 4th quarter 2022

In-line outfall unit with anchoring system | 1-piece

Aqua*

- + Cathodic-coated DI angles
- + 1 or 2-sided channel connection up to no. 10/0
- + PP silt bucket
- + Integrated sockets for DN 160 pipe connection
- + With shift protection of the grating



Outlet offset by 35 mm



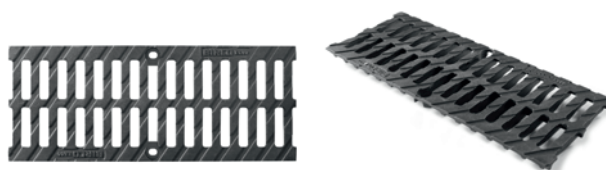
Description	Length on rim/on ground	Height	Weight	Load class EN 1433	Pallet	Article No.	Unit price without VAT
In-line outfall unit	500/510 mm	710 mm	112.2 kg	A 15 – E 600	8 units	217135	€ 307.60

* BIRCO product group
Please bear in mind the separate installation in case of classes D 400 and E 600.
Exception from D 400 upwards: not for installation at right angles to carriageway on motorways and highways.
Dimensions and weights may differ slightly.

Double slotted gratings | DI

Aqua*

- + Black dip-coated
- + 4 x M8 bolt connection per metre
- + With shift protection
- + Anti-slip rating R11/V10

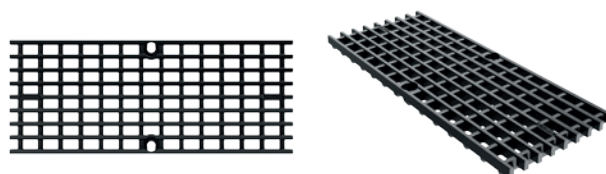


Length	Width	Height	Weight	Inlet opening	Inlet cross section	Load class EN 1433	Pallet	Article No.	Unit price without VAT
500 mm	200 mm	20 mm	5.6 kg	2x SW 68/16 mm	685 cm ² /m	A 15 – C 250	100 units	217172	€ 48.10
500 mm	200 mm	20 mm	6.1 kg	2x SW 68/16 mm	685 cm ² /m	A 15 – E 600	100 units	217175	€ 52.60

Longitudinal bar gratings | DI

Aqua*

- + Black dip-coated
- + 4 x M8 bolt connection per metre
- + With shift protection



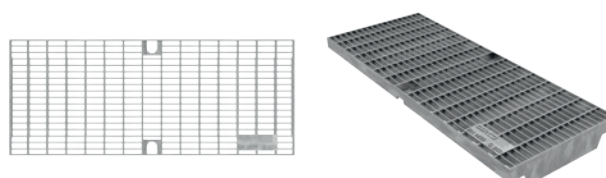
Length	Width	Height	Weight	Inlet opening	Inlet cross section	Load class EN 1433	Pallet	Article No.	Unit price without VAT
500 mm	200 mm	20 mm	5.5 kg	MW 28/17 mm	960 cm ² /m	A 15 – D 400	100 units	217196***	€ 52.40

*** available from the start of 2023

Mesh gratings | galvanised steel

Aqua*

- + Hot-dip galvanised
- + 4 x M8 bolt connection per metre
- + With shift protection



Length	Width	Height	Weight	Inlet opening	Inlet cross section	Load class EN 1433	Pallet	Article No.	Unit price without VAT
500 mm	200 mm	20 mm	4.0 kg	MW 30/10 mm	1405 cm ² /m	A 15 – C 250	50 units	217163	€ 139.60
1000 mm	200 mm	20 mm	7.9 kg	MW 30/10 mm	1427 cm ² /m	A 15 – C 250	60 units	217153	€ 199.40

SW = slot width, MW = mesh width, * BIRCO product group

Please bear in mind the separate installation in case of classes D 400 and E 600.

Exception from D 400 upwards: not for installation at right angles to carriageway on motorways and highways.

Dimensions and weights may differ slightly.

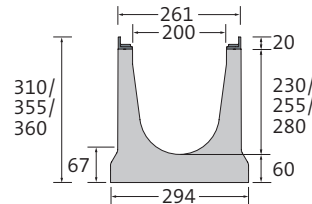
BIRCOLight® with DI angles | NW 200

New look – proven quality

Channel elements with anchoring system | without slope

Aqua*

- + Cathodic-coated DI angles
- + With shift protection of the grating
- + Visible gap for safety sealing joint



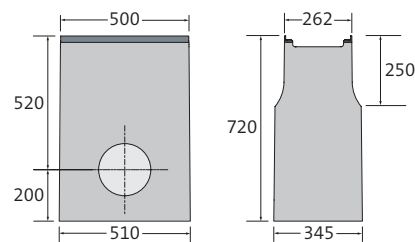
Description	Length	Height at tongue/groove	Weight	Load class EN 1433	Pallet	Article No.	Unit price without VAT
Channel No. 0/0	500 mm	310/310 mm	47.0 kg	A 15 – D 400	24 units	217231	€ 125.60
Channel No. 0/0	1000 mm	310/310 mm	93.5 kg	A 15 – D 400	12 units	217226	€ 187.40
Channel No. 0/0 with outlet DN 200	1000 mm	310/310 mm	92.7 kg	A 15 – D 400	12 units	217233	€ 219.80
Channel No. 5/0	1000 mm	335/335 mm	97.1 kg	A 15 – D 400	8 units	217227**	€ 187.40
Channel No. 10/0	1000 mm	360/360 mm	100.8 kg	A 15 – D 400	8 units	217228**	€ 187.40

** available from 4th quarter 2022

In-line outfall unit with anchoring system | 1-piece

Aqua*

- + Cathodic-coated DI angles
- + 1 or 2-sided channel connection up to no. 10/0
- + Galvanised silt bucket
- + Integrated sockets for DN 200 pipe connection
- + With shift protection of the grating



Drain in centre



Description	Length on rim/on ground	Height	Weight	Load class EN 1433	Pallet	Article No.	Unit price without VAT
In-line outfall unit	500/510 mm	720 mm	136.2 kg	A 15 – D 400	6 units	217235	€ 400.60

* BIRCO product group

Please bear in mind the separate installation in case of classes D 400 and E 600.
Exception from D 400 upwards: not for installation at right angles to carriageway on motorways and highways.
Dimensions and weights may differ slightly.

Double slotted gratings | DI

Aqua*

- + Black dip-coated
- + 4 x M8 bolt connection per metre
- + With shift protection
- + Anti-slip rating R11/V10

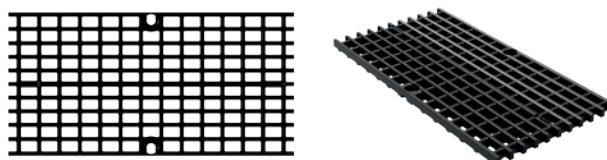


Length	Width	Height	Weight	Inlet opening	Inlet cross section	Load class EN 1433	Pallet	Article No.	Unit price without VAT
500 mm	250 mm	20 mm	6.9 kg	2x SW 93/18 mm	962 cm ² /m	A 15 – D 400	60 units	217274	€ 56.30

Longitudinal bar gratings | DI

Aqua*

- + Black dip-coated
- + 4 x M8 bolt connection per metre
- + With shift protection



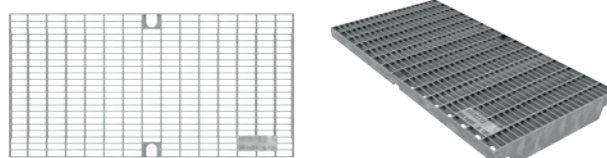
Length	Width	Height	Weight	Inlet opening	Inlet cross section	Load class EN 1433	Pallet	Article No.	Unit price without VAT
500 mm	250 mm	20 mm	7.5 kg	MW 28/17 mm	1222 cm ² /m	A 15 – D 400	60 units	217296***	€ 70.30

*** available from the start of 2023

Mesh gratings | galvanised steel

Aqua*

- + Hot-dip galvanised
- + 4 x M8 bolt connection per metre
- + With shift protection



Length	Width	Height	Weight	Inlet opening	Inlet cross section	Load class EN 1433	Pallet	Article No.	Unit price without VAT
500 mm	250 mm	20 mm	4.3 kg	MW 30/10 mm	1783 cm ² /m	A 15 – B 125	50 units	217294	€ 141.20
1000 mm	250 mm	20 mm	8.4 kg	MW 30/10 mm	1807 cm ² /m	A 15 – B 125	100 units	217293	€ 200.50

SW = slot width, MW = mesh width, * BIRCO product group

Please bear in mind the separate installation in case of classes D 400 and E 600.

Exception from D 400 upwards: not for installation at right angles to carriageway on motorways and highways.

Dimensions and weights may differ slightly.

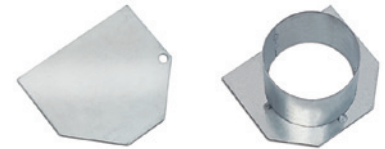
BIRCOLight® with DI angles | Accessories

Proven quality, now also with DI angles

End caps for NW 100 | galvanised steel

Aqua*

- + Strip galvanised
- + With or without outlet connection



Description	Width	For construction height	Weight	Article No.	Unit price without VAT
End cap, No. 0/0	160 mm	155 mm	0.3 kg	217040	€ 18.10
End cap, No. 5/0	160 mm	180 mm	0.3 kg	217041**	€ 18.10
End cap, No. 10/0	160 mm	205 mm	0.4 kg	217042**	€ 18.10
End cap with drain DN 110, No. 0/0	160 mm	155 mm	0.6 kg	217045	€ 27.50
End cap with drain DN 110, No. 5/0	160 mm	180 mm	0.7 kg	217046**	€ 27.50
End cap with drain DN 110, No. 10/0	160 mm	205 mm	0.7 kg	217047**	€ 27.50

** available from 4th quarter 2022

End caps for NW 150 | galvanised steel

Aqua*

- + Strip galvanised
- + With or without outlet connection

Description	Width	For construction height	Weight	Article No.	Unit price without VAT
End cap, No. 0/0	210 mm	230 mm	0.6 kg	217140	€ 24.20
End cap, No. 5/0	210 mm	255 mm	0.7 kg	217141**	€ 24.20
End cap, No. 10/0	210 mm	280 mm	0.8 kg	217142**	€ 24.20
End cap with drain DN 160, No. 0/0	210 mm	230 mm	0.9 kg	217145	€ 49.20
End cap with drain DN 160, No. 5/0	210 mm	255 mm	1.0 kg	217146**	€ 49.20
End cap with drain DN 160, No. 10/0	210 mm	280 mm	1.1 kg	217047**	€ 49.20

** available from 4th quarter 2022

End caps for NW 200 | galvanised steel

Aqua*

- + Strip galvanised
- + With or without outlet connection

Description	Width	For construction height	Weight	Article No.	Unit price without VAT
End cap, no. 0/0 to No. 5/0	260 mm	310 - 330 mm	1.1 kg	217240	€ 35.40
End cap, No. 10/0	260 mm	360 mm	1.2 kg	217242**	€ 35.40
End cap with drain DN 200, No. 0/0	260 mm	310 mm	1.7 kg	217245	€ 59.40
End cap with drain DN 200, No. 5/0	260 mm	330 mm	1.8 kg	217246**	€ 59.40
End cap with drain DN 200, No. 10/0	260 mm	360 mm	1.8 kg	217247**	€ 59.40

** available from 4th quarter 2022

Odour trap for in-line outfall unit

Tec*

- + Odour trap for drain with DN 160 KG sleeve
for 1-piece outfall unit
- + PP



Description	Weight	Article No.	Unit price without VAT
Interior odour trap DN 160 suitable for PVC pipe connection, 1-piece	0.2 kg	605002	€ 10.60
Exterior U-trap DN 160 suitable for KG-2000 PVC pipe connection	5.1 kg	605011	on request

* BIRCO product group
Dimensions and weights may differ slightly.

BIRCOLight with DI angles® Drainage capacity

The BIRCO channel systems have excellent drainage capacities. Besides this table, BIRCO offers a project-related hydraulic calculation service.

BIRCOLight® with DI angles NW 150

BL = 1000 mm	Drainage capacity at the end of the channel	Cross-section at the end of the channel
No. 0/0	10.34 l/sec	186.14 cm ²
No. 5/0	12.41 l/sec	223.42 cm ²
No. 10/0	14.48 l/sec	260.69 cm ²

BIRCOLight® with DI angles NW 100

BL = 1000 mm	Drainage capacity at the end of the channel	Cross-section at the end of the channel
No. 0/0	4.96 l/sec	89.0 cm ²
No. 5/0	6.35 l/sec	114.0 cm ²
No. 10/0	7.74 l/sec	139.0 cm ²

BIRCOLight® with DI angles NW 200

BL = 1000 mm	Drainage capacity at the end of the channel	Cross-section at the end of the channel
No. 0/0	20.70 l/sec	372.64 cm ²
No. 5/0	23.48 l/sec	422.66 cm ²
No. 10/0	26.26 l/sec	472.69 cm ²

These tables can only provide the required result in some cases, as the task is largely based on the local conditions, i.e. on the position of the existing drainage shafts, the number of strands etc. We therefore recommend our factory hydraulic calculation with an execution proposal.

Horizontal and vertical boreholes

Depending on the local circumstances, drainage channels sometimes have to be equipped with a borehole so as to be able to connect them to the sewer. BIRCO channels can be equipped at the factory with horizontal or vertical boreholes for direct inflows and outflows according to the planning specifications. The possible connections differ for the nominal widths and range from DN 110 to DN 200. The diameters are designed for KG pipes: other types of pipe on request.

BIRCOLight® with DI angles | Max. bore diameter

Nominal width	Horizontal borehole maximum	Vertical borehole maximum
100	DN 110*	DN 110
150	DN 110 / DN 160*	DN 160
200	DN 160 / DN 200**	DN 200

* from channel no. 5/0 upwards, ** from channel no. 10/0 upwards

Boreholes must have a gap of at least 100 mm to the end of the channel.



BIRCOLight® on private property

BIRCOLight® point drainage | Open space drainage with high-quality ductile iron (DI) elements

Sometimes it simply has to be DI. We can now offer you this with the new BIRCOLight® point drainage with DI frames. Elegant appearance in refined and high-quality black for pinpoint drainage solutions.

+ A 15 to
B 125



For the drainage of open spaces.



BIRCOLight® point drainage with
DI angles | Application areas

- + Driveways and garages
- + Office buildings
- + Sports facilities
- + Car parks

BIRCOplus point drainage | Lightweight, simple and sturdy

It doesn't take much to create a perfect open space drainage system with pinpoint accuracy. The new BIRCOplus point drainage does it all, at a weight of just 45 kg. Efficiency in a nutshell.

+ Can be driven over by cars



Draining with pinpoint accuracy.



BIRCOplus | Application areas

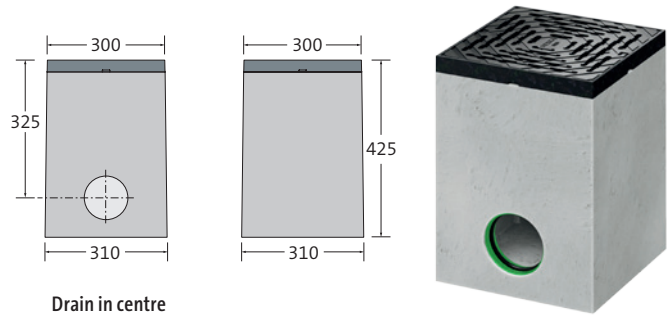
- + Driveways and garages
- + Office buildings
- + Sports facilities
- + Car parks

BIRCOLight® point drainage

New design possibilities for squares and other surfaces.

Outfall unit 30/30 | 1-piece Aqua*

- + Set with clamped-on cast cover
- + Cathodic-coated DI frame
- + DN 110 odour trap for PVC pipe connection
- + PP silt bucket
- + Integrated sockets for DN 110 pipe connection



Length at top/on ground	Height	Inlet opening	Inlet cross section	Weight	Classification	Pallet	Article No.	Unit price without VAT	Product group
300/310 mm	425 mm	SW 10 mm	235 cm²/unit	49.7 kg	A 15 – B 125	12 units	805060	€ 221.60	8077

* BIRCO product group, SW = slot width
Dimensions and weights may differ slightly.

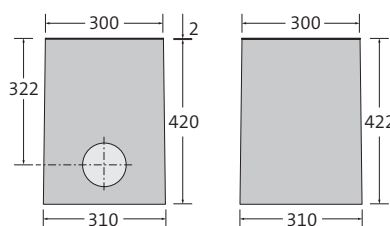
BIRCOplus point drainage

Draining simply and with pinpoint accuracy.

Outfall unit 30/30 | 1-piece

Aqua*

- + Set with clamped-on grate MW 30/10 made of galvanised steel (grating protracts by 2 mm)
- + DN 110 odour trap for PVC pipe connection
- + PP silt bucket
- + Integrated sockets for DN 110 pipe connection



Drain in centre



Length at top/on ground	Height	Inlet opening	Inlet cross section	Weight	Classification	Pallet	Article No.	Unit price without VAT	Product group
300/310 mm	422 mm	MW 30/10 mm	488 cm ² /St.	45.0 kg	Can be driven over by cars	12 units	40801051	€ 153.60	8013

* BIRCO product group, MW = mesh width
Dimensions and weights may differ slightly.

BIRCO | Notes

A large rectangular area filled with a fine grid of light gray lines, resembling graph paper, intended for taking notes.

Always stay ORIGINAL.

An original never leaves you out in the cold.
Instead, it ensures that everything runs
perfectly:

The BIRCO channel – in best form for
95 years.

#surfacedrainage



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ITS BEST FORM

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German Sustainable Building Council

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