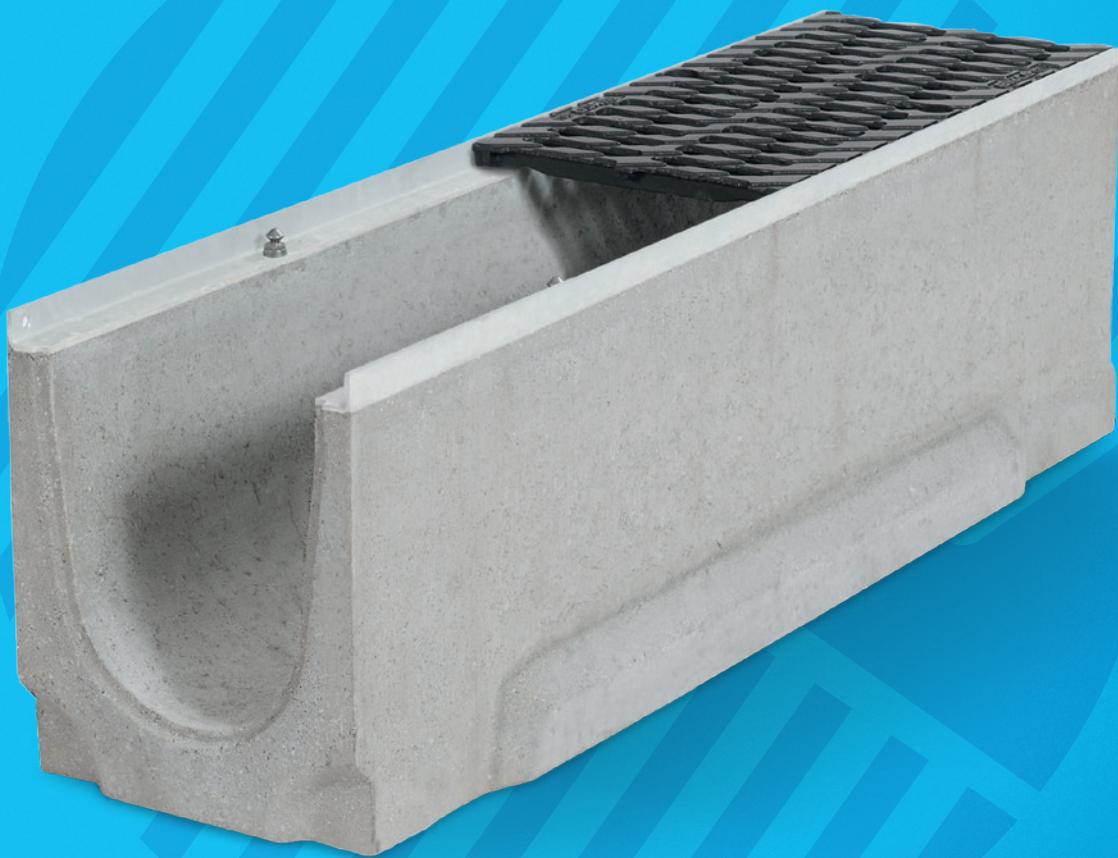


BECAUSE WATER
IS PRECIOUS.



BIRCOLight triloc®

With smart fastening system for more options



The versatile BIRCOLight® system impresses with its lightness and robustness – even under demanding hydraulic conditions. But it is also impressive in terms of safety. Thanks to the intelligent BIRCOLight triloc® locking system, the gratings can be fastened quickly and easily without shifting. This durable and precise solution ensures that the grating is reliably secured and can be easily opened and closed again when required – for cleaning or maintenance, for example. The combination of shift protection, quick-release fastener and optional bolt fastening makes the BIRCOLight triloc® a smart 3-in-1 solution.

HIGHEST QUALITY STANDARDS

100% made in our own production facility

BIRCO is dedicated to developing first-class drainage solutions made from high-quality, robust concrete. This material gives our channels and systems exceptional durability - even under the toughest conditions. The concrete impresses with minimal water absorption, excellent abrasion resistance and resistance to frost and de-icing salt, which makes our products unrivalled in terms of lateral stability.

The high quality of our materials, coupled with the sophisticated design of BIRCO channel systems, guarantees optimum operating conditions on any construction site and promises efficient, cost-effective installation. Our solutions not only stand for the highest safety standards and long-term investment protection, but also fulfil the strict requirements of BS EN 1433 standard. With our in-depth understanding of customer needs and project requirements, BIRCO products not only deliver outstanding quality and performance, but also future-oriented, sustainable drainage concepts.



BIRCO 1.153/23 max-i HW 320 BL 3.0m BH 500 Typ-W F900 W+R CE 18 LE068 EN 1433 I-7/4-200 NL B58 K 40740

FACTS

- + Drainage channels: NW 100 – 300 without inbuilt fall
- + With anchoring system
- + Lengths: 0.50 and 1.00 meter
- + High-quality C 40/50 concrete
- + Broad range of gratings: Ductile iron, bar and galvanized mesh gratings (NW 200)
- + CE/UKCA-compliant
- + Load class: A 15 – D 400 (Type M installation according to EN BS 1433)

AREAS OF APPLICATION

- + Landscaping
- + Housing and urban development
- + Private builders
- + Parking lots



A 15 to E 600
(NW 100 – 150)



A 15 to D 400
(NW 200 and 300)

1 EDGE/CORROSION PROTECTION

- + 4 mm cast-in solid steel angle coated with 70 microns zinc
- + Perfect connection of the surface layer to the solid steel frame

2 HIGH-QUALITY MATERIALS

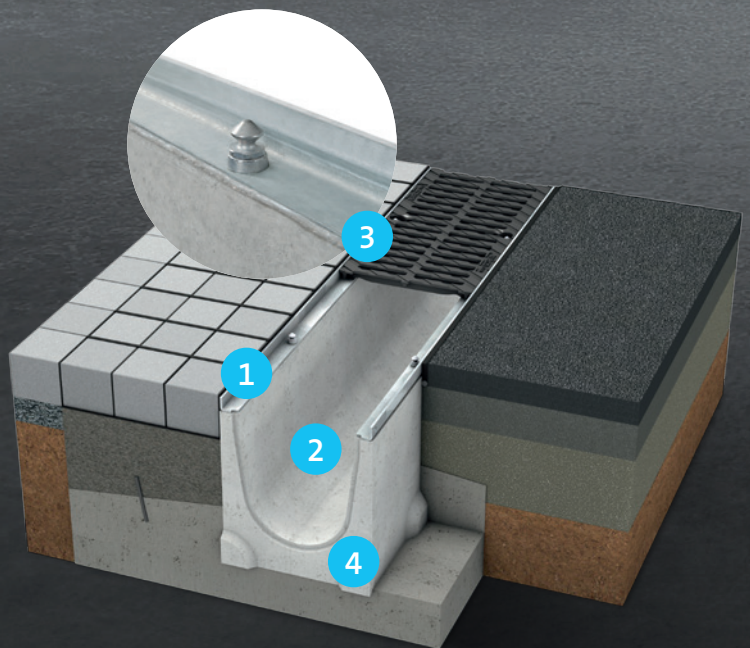
- + High-quality C 40/50 concrete
- + Pressure resistance, frost and de-icing salt resistance guarantee longevity and investment protection

3 FASTENING PRINCIPLE

- + Quick fitting and firm hold of the gratings thanks to the spring mechanism in the channel angle
- + Optionally also available with bolt connection / with subsequent bolt connection

4 VISIBLE SEALING GAP

- + Safety sealing gap at the channel joint (can be grouted with BIRCO SF-Connect sealant)



BIRCOLight triloc®

NW 200

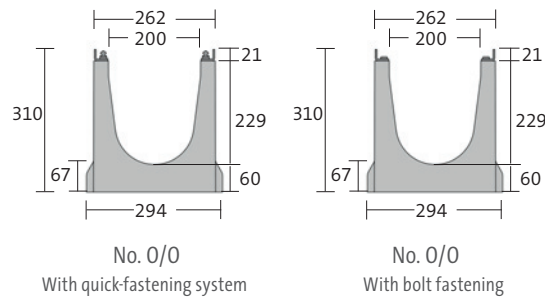
Channel with special fastening system for more options

CHANNEL ELEMENTS WITH ANCHORING SYSTEM

WITHOUT INBUILT FALL

AQUA*

- + High-quality C 40/50 concrete
- + Hot-dipped galvanised solid steel angles
- + With anchoring system
- + Reservation for sealing joint
- + BIRCOTriloc® quick-fastening system
- + Optionally also with bolt fastening (Art. No. with f)



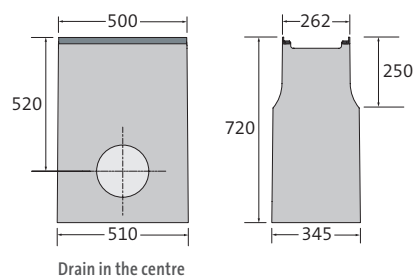
DESIGNATION	LENGTH	WIDTH AT ANGLE/ AT GROUND	HEIGHT AT TONGUE/ GROOVE	WEIGHT	LOAD CLASS ACC. TO EN 1433	PALLET	ART. NO. WITH BIRCOTRILOC® BOLT FASTENING	ART. NO. WITH BIRCOTRILOC® QUICK-FASTENING
Channel No. 0/0	500 mm	262/294 mm	310/310 mm	47.0 kg	A 15 – D 400	24 units	–	2021231 •
Channel No. 0/0	500 mm	262/294 mm	310/310 mm	47.0 kg	A 15 – D 400	24 units	2021231f •	–
Channel No. 0/0	1000 mm	262/294 mm	310/310 mm	92.7 kg	A 15 – D 400	12 units	–	2021226 •
Channel No. 0/0	1000 mm	262/294 mm	310/310 mm	92.7 kg	A 15 – D 400	12 units	2021226f •	–
Channel No. 5/0	1000 mm	262/294 mm	330/330 mm	95.7 kg	A 15 – D 400	8 units	–	2021227 •
Channel No. 5/0	1000 mm	262/294 mm	330/330 mm	95.7 kg	A 15 – D 400	8 units	2021227f •	–
Channel No. 10/0	1000 mm	262/294 mm	360/360 mm	100.0 kg	A 15 – D 400	8 units	–	2021228
Channel No. 10/0	1000 mm	262/294 mm	360/360 mm	100.0 kg	A 15 – D 400	8 units	2021228f	–

OUTFALL UNITS WITH ANCHORING SYSTEM

1-PIECE

AQUA*

- + High-quality C 40/50 concrete
- + 1 or 2-sided channel connection up to No. 10
- + With anchoring system
- + PP silt bucket
- + Integrated socket for pipe connection NW 200
- + Without odour trap
- + Hot-dipped galvanised solid steel angles
- + BIRCOTriloc® quick-fastening system
- + Optionally also with bolt fastening (Art. No. with f)



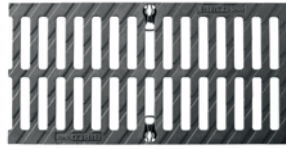
DESIGNATION	LENGTH AT ANGLE/ AT GROUND	WIDTH AT ANGLE/ AT GROUND	HEIGHT	WEIGHT	LOAD CLASS	PALLET	ART. NO. WITH BIRCOTRILOC® BOLT FASTENING	ART. NO. WITH BIRCOTRILOC® QUICK-FASTENING
Outfall units	500/510 mm	262/345 mm	720 mm	139.2 kg	A 15 – D 400	6 units	–	20212351
Outfall units	500/510 mm	262/345 mm	720 mm	139.2 kg	A 15 – D 400	6 units	20212351f •	–

* BIRCO Product group | Exception up to D 400: Not for use across the carriageway of highways or motorways.
Please note the separate installation for classes D 400 and E 600. | Dimensions and weights may vary slightly.

DOUBLE-SLOTTED GRATINGS | DI

AQUA*

- + Black dip-painted
- + 4x BIRCOTriloc® quick-fastening system per meter
- + Optionally also with 4 M8-BIRCOTriloc® bolt fastening per meter (Art. No. with f)
- + Anti-slip classification: R11/V10 (Art. No. 2121274/2021274f)



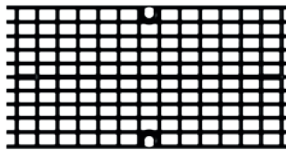
LENGTH	WIDTH	HEIGHT	WEIGHT	INLET OPENING	INLET CROSS SECTION	LOAD CLASS ACC. TO EN 1433	PALLET	ART. NO. WITH BIRCOTRILOC® BOLT FASTENING	ART. NO. WITH BIRCOTRILOC® QUICK-FASTENING
500 mm	250 mm	20 mm	5.2 kg	2x SW 93/18 mm	962 cm ² /m	A 15 – C 250	60 units	–	2021272 •
500 mm	250 mm	20 mm	5.8 kg	2x SW 93/18 mm	962 cm ² /m	A 15 – C 250	60 units	2021272f •	–
500 mm	250 mm	20 mm	6.9 kg	2x SW 93/18 mm	962 cm ² /m	A 15 – D 400	60 units	–	2021274 •
500 mm	250 mm	20 mm	6.9 kg	2x SW 93/18 mm	962 cm ² /m	A 15 – D 400	60 units	2021274f •	–

Also available with galvanized, cathodic or RAL powder coating colour on request.

LONGITUDINAL BAR GRATINGS | DI

AQUA*

- + Black dip-painted
- + 4 M8 bolts per meter
- + With shift protection



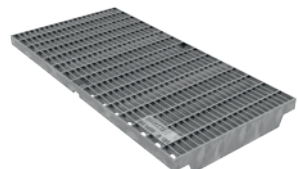
LENGTH	WIDTH	HEIGHT	WEIGHT	INLET OPENING	INLET CROSS SECTION	LOAD CLASS ACC. TO EN 1433	PALLET	ART. NO. WITH BIRCOTRILOC® BOLT FASTENING
500 mm	250 mm	20 mm	7.5 kg	MW 28/17 mm	1222 cm ² /m	A 15 – D 400	60 units	2021296f •

Also available with galvanized, cathodic or RAL powder coating colour on request.

MESH GRATINGS | HOT-DIPPED GALVANISED STEEL

AQUA*

- + 4 M8 bolts per meter
- + With shift protection
- + Anti-slip classification: R10/V10



LENGTH	WIDTH	HEIGHT	WEIGHT	INLET OPENING	INLET CROSS SECTION	LOAD CLASS ACC. TO EN 1433	PALLET	ART. NO. WITH BIRCOTRILOC® BOLT FASTENING
500 mm	250 mm	20 mm	4.3 kg	MW 30/10 mm	1783 cm ² /m	A 15 – B 125	50 units	20212632f
1000 mm	250 mm	20 mm	8.4 kg	MW 30/10 mm	1807 cm ² /m	A 15 – B 125	50 units	20212532f

BIRCOLight triloc® | NW 300

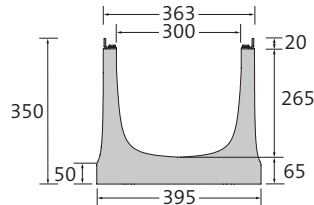
Channel with special fastening system for more options

CHANNEL ELEMENTS WITH ANCHORING SYSTEM

WITHOUT INBUILT FALL

TEC*

- + High-quality C 40/50 concrete
- + Hot-dipped galvanised solid steel angles
- + With anchoring system
- + Reservation for sealing joint
- + BIRCOLtriloc® bolt fastening



No. 0/0

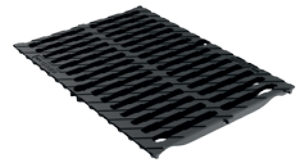
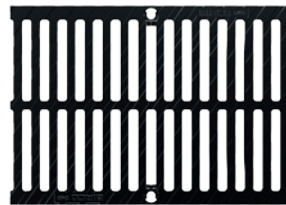


DESIGNATION	LENGTH	WIDTH AT ANGLE/ AT GROUND	HEIGHT AT TONGUE/ GROOVE	WEIGHT	LOAD CLASS ACC. TO EN 1433	PALLET	ART. NO. WITH BIRCOLTRILOC® BOLT FASTENING
Channel No. 0/0	500 mm	363/395 mm	350/350 mm	61.5 kg	A 15 – D 400	12 units	2021331f •
Channel No. 0/0	1000 mm	363/395 mm	350/350 mm	123.0 kg	A 15 – D 400	6 units	2021326f •

DOUBLE-SLOTTED GRATINGS

TEC*

- + Black dip-painted
- + 4x BIRCOLtriloc® quick-fastening system per meter



LENGTH	WIDTH	HEIGHT	WEIGHT	INLET OPENING	INLET CROSS SECTION	LOAD CLASS ACC. TO EN 1433	PALLET	ART. NO. WITH BIRCOLTRILOC® BOLT FASTENING
500 mm	350 mm	21 mm	11.6 kg	2x SW 142/16 mm	1446 cm ² /m	A 15 – D 400	40 units	2021374f •

Also available with galvanized, cathodic or RAL powder coating colour on request.

Accessories BIRCOlight triloc®

Channel with special fastening system for more options

END CAPS FOR NW 200 | SHEET-GALVANISED STEEL

TEC*

+ With attached drain socket

DESIGNATION	WIDTH	FOR HEIGHT	WEIGHT	ART. NO.
End cap, No. 0/0, No. 5/0	260 mm	310 - 330 mm	1.1 kg	20212401 •
End cap, No. 10/0	260 mm	360 mm	1.2 kg	2021242 •
End cap with outlet NW 200, No. 0/0	260 mm	310 mm	1.7 kg	2021245 •
End cap with outlet NW 200, No. 5/0	260 mm	330 mm	1.8 kg	2021246 •
End cap with outlet NW 200, No. 10/0	260 mm	360 mm	1.8 kg	2021247 •

END CAPS FOR NW 300 | SHEET-GALVANISED STEEL

TEC*

+ With attached drain socket

DESIGNATION	WIDTH	FOR HEIGHT	WEIGHT	ART. NO.
End cap, No. 0/0	360 mm	350 mm	1.7 kg	2021340 •
End cap with outlet NW 200, No. 0/0	360 mm	350 mm	2.3 kg	2021345 •

SILT BUCKET FOR DRAINAGE CHANNELS WITH VERTICAL DRILLING | GALVANISED STEEL

TEC*

- + With PE support disc for socket
- + CDP-coated RAL 9005
- + Only in conjunction with vertical drilling NW 200 with KG-2000 socket

DESIGNATION	DIAMETER	HEIGHT	WEIGHT	ART. NO.
Silt bucket NW 200 - Ø 170	170 mm	167 mm	0.9 kg	603044 •

Drilled hole on request

BIRCOLight triloc® Drainage performance

The channel systems from BIRCO provide excellent drainage performance
In addition to this table, BIRCO offers a project-specific hydraulic calculation service.

BIRCOLight triloc® NW 200

	DRAINAGE PERFORMANCE AT THE CHANNEL END	CROSS-SECTIONAL AREA AT THE CHANNEL END
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

BIRCOLight triloc® NW 300

	DRAINAGE PERFORMANCE AT THE CHANNEL END	CROSS-SECTIONAL AREA AT THE CHANNEL END
No. 0/0	39.50 l/sec	711.80 cm ²

The tables can only give guidelines for the dimensioning. On-site conditions such as positions of manholes already installed, number of channels lines etc. cannot and have not been taken into account. We therefore recommend making use of our hydraulic calculation service for a draft proposal.