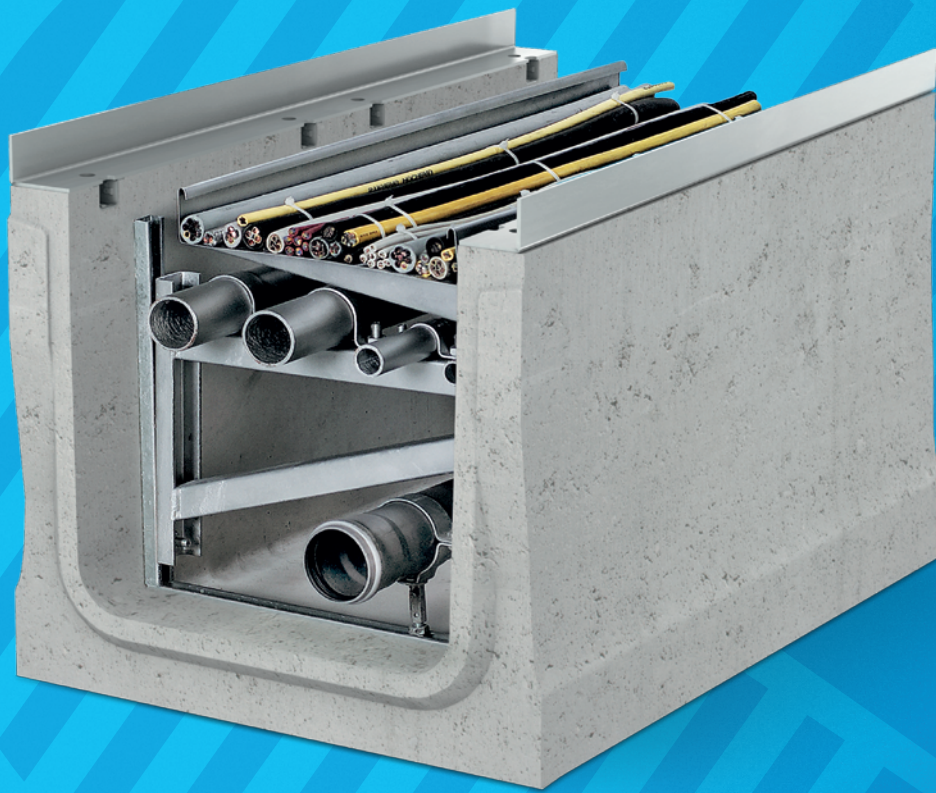


BECAUSE WATER
IS PRECIOUS.



BIRCOcanal®

The supply channel for heavy duty areas



BIRCOcanal® stands for outstanding robustness and adaptability and enables the design of future-oriented urban projects with near-surface supply lines. In times of energy transition, where electric and hydrogen refuelling stations are playing an increasingly important role and bringing about changes in traffic volumes, BIRCOcanal® offers the ideal solution with its easily accessible and modular design. This flexibility ensures that the system can be adapted and expanded to meet new requirements at any time.

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.

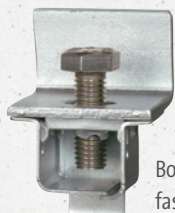
The high quality of our materials, coupled with the sophisticated design of BIRCO channel systems, guarantees optimum operating conditions on any construction site and promises efficient, cost-effective installation. Our solutions not only stand for the highest safety standards and long-term investment 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.





HIGH-QUALITY CONCRETE DRAINAGE CHANNELS – COST-SAVING RELIABILITY

BIRCO concrete channels offer maximum performance even without a full concrete surrounding, whether in terms of geometry, water admission capacity, load classes resistance or during installation. The vibro-compression technique ensures immediate demoulding for most of our ranges. Our concretes are of quality C40/50 or C60/75, particularly resistant to pressure.



Bolt
fastening

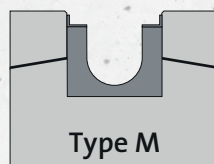
1/4 turn Easylock
fastening

OPTIMAL BOLTING

Our concrete drainage channels are fitted with solid steel or DI angles with combined locking. Numerous gratings can be either screwed to the channel element up to 8 times per metre or quickly locked with the BIRCO Easylock alternative.



Type I



Type M

TYPE I AND TYPE M INSTALLATION

Type I: this type of drainage channel does not require a load-bearing foundation or encasement to support vertical and horizontal forces. The design and materials used are specially designed to withstand the loads exerted on the channel. Installation is therefore quick, simple and possible even in narrow trenches, which considerably reduces costs. Many BIRCO drainage systems have been specially designed for Type I installation.

Type M requires the use of a load-bearing foundation and/or encasement. Vertical and horizontal loads that occur after installation are transmitted to the foundation or encasement. The strength and load-bearing capacity, i.e. the load class, depend directly on the nature and construction of the foundation or surrounding.



SOLID ANGLES AND PROFILES

BIRCO uses solid 4 mm hot-dip galvanised steel profiles. Stainless steel angles are also available on request. Some of our ranges have solid cast iron angles 5 mm thick with cathodic protection. The angles are fitted with shift protection of the DI gratings and self-cleaning fastening pockets.



ANCHORING SYSTEM

Firmly anchored in the ground, most BIRCO drainage channels feature a continuous anchoring system that binds the drainage element to the bedding over its entire length.



INTERLOCKING AND JOINTING

Easy interlocking of the elements thanks to the tongue-and-groove system. Installation from above, with a visible joint at all times for quick and easy inspection. A half-moon gap ensures a watertight joint possibility between the channel elements and for the entire drainage line. EN1433 compliance guaranteed!

FACTS

- + Supply channels: NW 200 – 1000
- + Nominal widths 320, 420 and 520 with DI Hexagon® cover
- + Lengths: 1.00 and 2.00 meters
- + High-quality C 40/50 concrete
- + With solid steel angles for fastening the covers or with steel lateral protection for use with reinforced concrete covers
- + Cast-in mounting rails (from NW 200 – on request)
- + Also suitable for drainage
- + Load classes: A 15 – E 600 or SLW 60, Reinforced concrete cover acc. to EN 1991-2 (traffic loads on bridges) load model 1
- + Type I installation possible up to load class D 400

AREAS OF APPLICATION

- + Industrial construction (internal and external areas)
- + Production halls
- + Trade fair centres
- + Public buildings



A 15 to E 600

Load model 1
acc. to Eurocode 2
and SLW 60

1 EDGE/CORROSION PROTECTION

- + 4 mm cast-in solid steel angle coated with 70 microns zinc

2 INSTALLED MOUNTING RAILS

- + Uncomplicated and quick installation thanks to integrated mounting rails, even for additions or repairs

3 HIGH-QUALITY MATERIALS

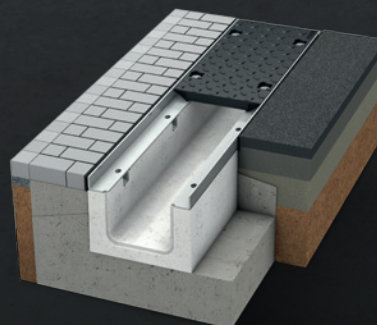
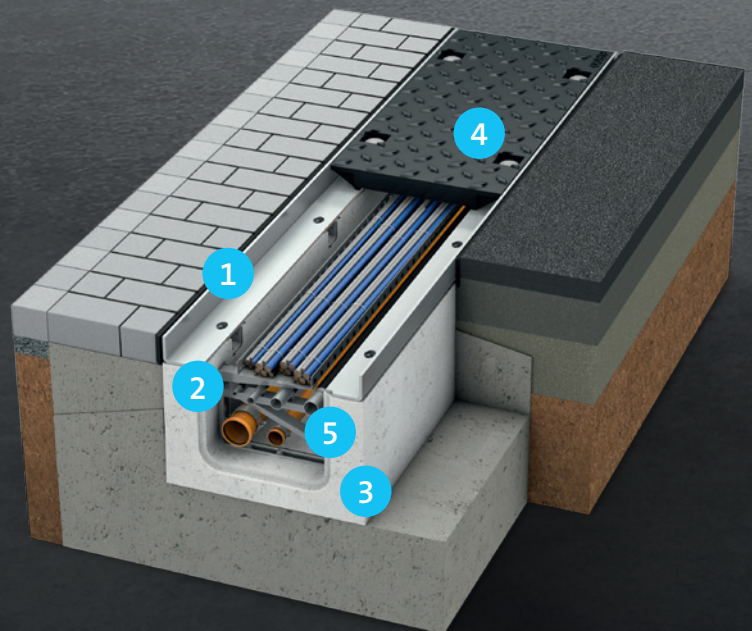
- + High-quality C 40/50 concrete
- + Pressure resistance, frost and de-icing salt resistance guarantee longevity and investment protection

4 TRAFFIC SAFETY

- + DI covers with 8 bolts per meter
- + Alternative: Reinforced concrete covers

5 VISIBLE SEALING GAP

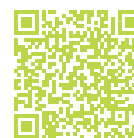
- + Safety sealing gap at the channel joint (can be grouted with BIRCO SF-Connect sealant)



VARIANT WITHOUT MOUNTING RAILS

BIRCOcanal® | NW 200

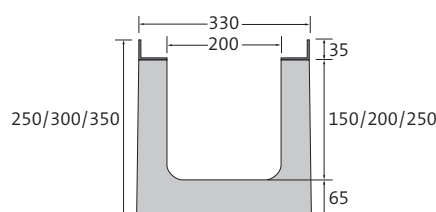
The supply channel for heavy duty areas



SUPPLY CHANNELS WITH ANGLES | WITH CAST-IN MOUNTING RAILS

TEC*

- + High-quality C 40/50 concrete
- + Hot-dipped galvanised solid steel angles for combi-fastening system
- + Reservation for sealing joint
- + Cast-in mounting rails type 28/15, hot-dipped galvanised



DESCRIPTION	LENGTH	HEIGHT	WEIGHT	LOAD CLASS ACC. TO EN 1433	PALLET	ARTICLE NO.
Supply channel	1000 mm	250 mm	107.0 kg	A 15 – E 600	6 units	052210 •
Supply channel	1000 mm	300 mm	118.0 kg	A 15 – E 600	6 units	052211 •
Supply channel	1000 mm	350 mm	134.0 kg	A 15 – E 600	6 units	052212 •

SUPPLY CHANNELS WITH ANGLES | WITHOUT CAST-IN MOUNTING RAILS

TEC*

- + High-quality C 40/50 concrete
- + Hot-dipped galvanised solid steel angles for combi-fastening system
- + Reservation for sealing joint

DESCRIPTION	LENGTH	HEIGHT	WEIGHT	LOAD CLASS ACC. TO EN 1433	PALLET	ARTICLE NO.
Supply channel	1000 mm	250 mm	103.0 kg	A 15 – E 600	6 units	052230 •
Supply channel	1000 mm	300 mm	127.0 kg	A 15 – E 600	6 units	052231 •
Supply channel	1000 mm	350 mm	147.0 kg	A 15 – E 600	6 units	052232 •

SOLID DI COVERS | FOR SUPPLY CHANNELS WITH ANGLES

TEC*

- + Solid
- + Black dip-painted
- + 8 M12/A2 bolts per meter
- + 8 Easylock fastenings per meter (alternatively)

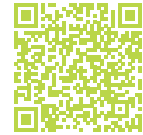


LENGTH	WIDTH	HEIGHT	WEIGHT	LOAD CLASS ACC. TO EN 1433	PALLET	ARTICLE NO. BOLT FASTENING	ARTICLE NO. EASYLOCK
500 mm	317 mm	35 mm	14.8 kg	A 15 – E 600	60 units	052276 •	052276e •

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

BIRCOcanal® | NW 320

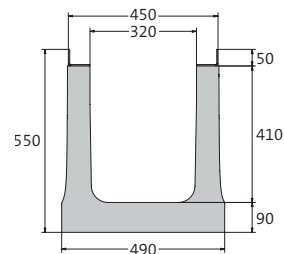
The supply channel for heavy duty areas



SUPPLY CHANNELS WITH ANGLES | WITH CAST-IN MOUNTING RAILS

TEC*

- + High-quality C 40/50 concrete
- + Cast-in hot-dipped galvanised solid steel angles
- + Visible sealing gap
- + With continuous anchoring system
- + With shift protection of the grating
- + Cast-in mounting rails type 28/15, hot-dipped galvanised



DESCRIPTION	LENGTH	HEIGHT	WEIGHT	LOAD CLASS ACC. TO EN 1433	PALLET	ARTICLE NO.
Supply channel	1000 mm	550 mm	250.0 kg	A 15 – F 900	4 units	30052320

SUPPLY CHANNELS WITH ANGLES | WITHOUT CAST-IN MOUNTING RAILS

TEC*

- + High-quality C 40/50 concrete
- + Cast-in hot-dipped galvanised solid steel angles
- + Visible sealing gap
- + With continuous anchoring system
- + With shift protection of the grating



DESCRIPTION	LENGTH	HEIGHT	WEIGHT	LOAD CLASS ACC. TO EN 1433	PALLET	ARTICLE NO.
Supply channel	1000 mm	550 mm	250.0 kg	A 15 – F 900	4 units	30052340

SOLID HEXAGON® COVER | DI | FOR SUPPLY CHANNELS WITH ANGLES

TEC*

- + Solid
- + Black dip-painted
- + 8 M12/A2 bolts per meter
- + Anti-slip classification R10/V10



LENGTH	WIDTH	HEIGHT	WEIGHT	LOAD CLASS ACC. TO EN 1433	PALLET	ARTICLE NO. BOLT FASTENING
498 mm	437 mm	45 mm	30.4 kg	A 15 – E 600	40 units	30052376

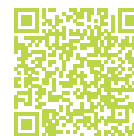
Also available with cathodic or RAL powder coating colour on request.

Exception up to D 400: Not for use across the carriageway of highways or motorways.

Dimensions and weights may vary slightly.

BIRCOcanal® | NW 420

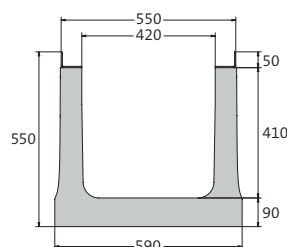
The supply channel for heavy duty areas



SUPPLY CHANNELS WITH ANGLES | WITH CAST-IN MOUNTING RAILS

TEC*

- + High-quality C 40/50 concrete
- + Cast-in hot-dipped galvanised solid steel angles
- + Visible sealing gap
- + With continuous anchoring system
- + With shift protection of the grating
- + Cast-in mounting rails type 28/15, hot-dipped galvanised



DESCRIPTION	LENGTH	HEIGHT	WEIGHT	LOAD CLASS ACC. TO EN 1433	PALLET	ARTICLE NO.
Supply channel	1000 mm	550 mm	271.0 kg	A 15 – F 900	4 units	30052420

SUPPLY CHANNELS WITH ANGLES | WITHOUT CAST-IN MOUNTING RAILS

TEC*

- + High-quality C 40/50 concrete
- + Cast-in hot-dipped galvanised solid steel angles
- + Visible sealing gap
- + With continuous anchoring system
- + With shift protection of the grating

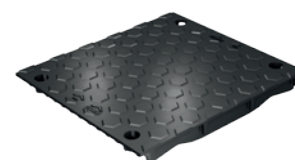


DESCRIPTION	LENGTH	HEIGHT	WEIGHT	LOAD CLASS ACC. TO EN 1433	PALLET	ARTICLE NO.
Supply channel	1000 mm	550 mm	271.0 kg	A 15 – F 900	4 units	30052440

SOLID HEXAGON® COVER | DI | FOR SUPPLY CHANNELS WITH ANGLES

TEC*

- + Solid
- + Black dip-painted
- + 8 M12/A2 bolts per meter
- + Anti-slip classification R10/V10

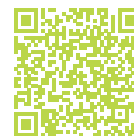


LENGTH	WIDTH	HEIGHT	WEIGHT	LOAD CLASS ACC. TO EN 1433	PALLET	ARTICLE NO. BOLT FASTENING
498 mm	537 mm	45 mm	40.8 kg	A 15 – E 600	24 units	30052476

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

BIRCOcanal® | NW 520

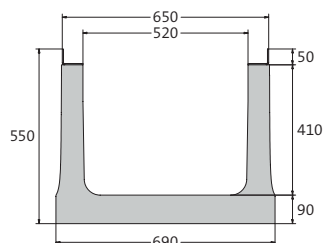
The supply channel for heavy duty areas



SUPPLY CHANNELS WITH ANGLES | WITH CAST-IN MOUNTING RAILS

TEC*

- + High-quality C 40/50 concrete
- + Cast-in hot-dipped galvanised solid steel angles
- + Visible sealing gap
- + With continuous anchoring system
- + With shift protection of the grating
- + Cast-in mounting rails type 28/15, hot-dipped galvanised



DESCRIPTION	LENGTH	HEIGHT	WEIGHT	LOAD CLASS ACC. TO EN 1433	PALLET	ARTICLE NO.
Supply channel	1000 mm	550 mm	292.0 kg	A 15 – F 900	4 units	30052520

SUPPLY CHANNELS WITH ANGLES | WITHOUT CAST-IN MOUNTING RAILS

TEC*

- + High-quality C 40/50 concrete
- + Cast-in hot-dipped galvanised solid steel angles
- + Visible sealing gap
- + With continuous anchoring system
- + With shift protection of the grating



DESCRIPTION	LENGTH	HEIGHT	WEIGHT	LOAD CLASS ACC. TO EN 1433	PALLET	ARTICLE NO.
Supply channel	1000 mm	550 mm	292.0 kg	A 15 – F 900	4 units	30052540

SOLID HEXAGON® COVER | DI | FOR SUPPLY CHANNELS WITH ANGLES

TEC*

- + Solid
- + Black dip-painted
- + 8 M12/A2 bolts per meter
- + Anti-slip classification R10/V10



LENGTH	WIDTH	HEIGHT	WEIGHT	LOAD CLASS ACC. TO EN 1433	PALLET	ARTICLE NO. BOLT FASTENING
498 mm	637 mm	45 mm	50.5 kg	A 15 – E 600	24 units	30052576

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

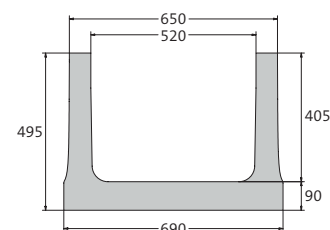
Exception up to D 400: Not for use across the carriageway of highways or motorways.

Dimensions and weights may vary slightly.

SUPPLY CHANNELS WITHOUT ANGLES | WITH CAST-IN MOUNTING RAILS

TEC*

- + High-quality C 40/50 concrete
- + Visible sealing gap
- + With continuous anchoring system
- + Cast-in mounting rails type 28/15, hot-dipped galvanised



DESCRIPTION	LENGTH	HEIGHT	WEIGHT	LOAD CLASS	PALLET	ARTICLE NO.
Supply channel	1000 mm	495 mm	284.0 kg	A 15 – E 600	4 units	30050520

SUPPLY CHANNELS WITHOUT ANGLES | WITHOUT CAST-IN MOUNTING RAILS

TEC*

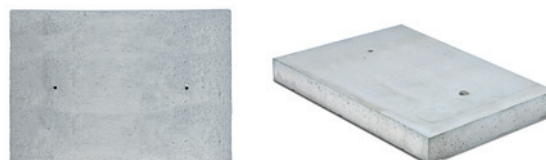
- + High-quality C 40/50 concrete
- + Visible sealing gap
- + With continuous anchoring system

DESCRIPTION	LENGTH	HEIGHT	WEIGHT	LOAD CLASS	PALLET	ARTICLE NO.
Supply channel	1000 mm	495 mm	284.0 kg	A 15 – E 600	4 units	30050540

REINFORCED CONCRETE COVER¹⁾ | FOR SUPPLY CHANNELS WITHOUT ANGLES

TEC*

- + Smoothed surface
- + 2 cast-in anchor sleeves for mechanical installation
- + Plus lateral steel protection (see accessories)



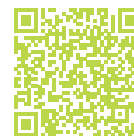
LENGTH	WIDTH	HEIGHT	WEIGHT	LOAD CLASS	PALLET	ARTICLE NO. BOLT FASTENING
1000 mm	645 mm	200 mm	296.0 kg	LM 1 ¹⁾	1 units	30050597

¹⁾ Reinforced concrete cover acc. to EN 1991-2 load model 1

[!] Please note that foam tape must generally be applied between the BIRCOcanal and the concrete cover.

BIRCOcanal® | NW 700

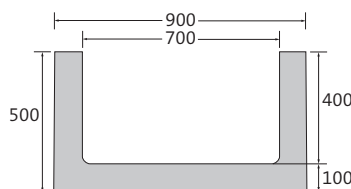
The supply channel for heavy duty areas



SUPPLY CHANNELS WITHOUT ANGLES | WITH CAST-IN MOUNTING RAILS

TEC*

- + Reinforced grade C 40/50 concrete
- + Reservation for sealing joint
- + Cast-in anchor sleeves RD 14 for mechanical installation
- + Cast-in mounting rails type 28/15, hot-dipped galvanised



DESCRIPTION	LENGTH	HEIGHT	WEIGHT	LOAD CLASS	PALLET	ARTICLE NO.
Supply channel	2000 mm	500 mm	850.0 kg	A 15 – E 600	1 unit	050720

SUPPLY CHANNELS WITHOUT ANGLES | WITHOUT CAST-IN MOUNTING RAILS

TEC*

- + Reinforced grade C 40/50 concrete
- + Reservation for sealing joint
- + Cast-in anchor sleeves RD 14 for mechanical installation

DESCRIPTION	LENGTH	HEIGHT	WEIGHT	LOAD CLASS	PALLET	ARTICLE NO.
Supply channel	2000 mm	500 mm	850.0 kg	A 15 – E 600	1 units	050740

REINFORCED CONCRETE COVER ¹⁾ | FOR SUPPLY CHANNELS WITHOUT ANGLES

TEC*

- + Smoothed surface
- + 4 cast-in anchor sleeves RD 14 for mechanical installation
- + Plus lateral steel protection (see accessories)



LENGTH	WIDTH	HEIGHT	WEIGHT	LOAD CLASS	PALLET	ARTICLE NO. BOLT FASTENING
2000 mm	900 mm	220 mm	942.0 kg	LM 1 ¹⁾	1 unit	0507981

¹⁾ Reinforced concrete cover acc. to EN 1991-2 load model 1

[I] Please note that foam tape must generally be applied between the BIRCOcanal and the concrete cover.

BIRCOcanal® | NW 1000

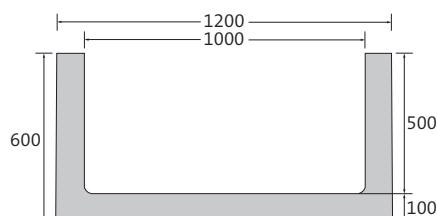
The supply channel for heavy duty areas



SUPPLY CHANNELS WITHOUT ANGLES | WITH CAST-IN MOUNTING RAILS

TEC*

- + Reinforced grade C 40/50 concrete
- + Reservation for sealing joint
- + Cast-in anchor sleeves RD 14 for mechanical installation
- + Cast-in mounting rails type 28/15, hot-dipped galvanised



DESCRIPTION	LENGTH	HEIGHT	WEIGHT	LOAD CLASS	PALLET	ARTICLE NO.
Supply channel	2000 mm	600 mm	1080.0 kg	A 15 – E 600	1 unit	051020

SUPPLY CHANNELS WITHOUT ANGLES | WITHOUT CAST-IN MOUNTING RAILS

TEC*

- + Reinforced grade C 40/50 concrete
- + Reservation for sealing joint
- + Cast-in anchor sleeves RD 14 for mechanical installation

DESCRIPTION	LENGTH	HEIGHT	WEIGHT	LOAD CLASS	PALLET	ARTICLE NO.
Supply channel	2000 mm	600 mm	1090.0 kg	A 15 – E 600	1 unit	051040

REINFORCED CONCRETE COVER ¹⁾ | FOR SUPPLY CHANNELS WITHOUT ANGLES

TEC*

- + Smoothed surface
- + 4 cast-in anchor sleeves RD 14 for mechanical installation
- + Plus lateral steel protection (see accessories)



LENGTH	WIDTH	HEIGHT	WEIGHT	LOAD CLASS	PALLET	ART. NO. BOLT FASTENING
2000 mm	1200 mm	250 mm	1370.0 kg	LM 1 ¹⁾	1 unit	0510981

¹⁾ Reinforced concrete cover acc. to EN 1991-2 load model 1

1 Please note that foam tape must generally be applied between the BIRCOcanal and the concrete cover.

BIRCOcanal® | Accessories

The supply channel for heavy duty areas

END CAPS FOR NW 200 | GALVANISED STEEL

TEC*

DESCRIPTION	WIDTH	FOR HEIGHT	WEIGHT	ARTICLE NO.
End cap	330 mm	250 mm	1.1 kg	052240
End cap	330 mm	300 mm	1.3 kg	052241
End cap	330 mm	350 mm	1.5 kg	052242

END CAPS FOR NW 320 | GALVANISED STEEL

TEC*

DESCRIPTION	WIDTH	FOR HEIGHT	WEIGHT	ARTICLE NO.
End cap	450 mm	550 mm	4.2 kg	30052342

END CAPS FOR NW 420 | GALVANISED STEEL

TEC*

DESCRIPTION	WIDTH	FOR HEIGHT	WEIGHT	ARTICLE NO.
End cap	550 mm	550 mm	5.3 kg	30052442

END CAPS FOR NW 520 | GALVANISED STEEL

TEC*

DESCRIPTION	WIDTH	FOR HEIGHT	WEIGHT	ARTICLE NO.
End cap for BIRCOcanal with angles	650 mm	550 mm	6.4 kg	30052542
End cap for BIRCOcanal without angles	650 mm	505 mm	5.6 kg	30050542

END CAPS FOR NW 700 | GALVANISED STEEL

TEC*

DESCRIPTION	WIDTH	FOR HEIGHT	WEIGHT	ARTICLE NO.
End cap	900 mm	500 mm	11.9 kg	052741

END CAPS FOR NW 1000 | GALVANISED STEEL

TEC*

DESCRIPTION	WIDTH	FOR HEIGHT	WEIGHT	ARTICLE NO.
End cap	1200 mm	600 mm	21.5 kg	052940

BIRCOcanal® LIFTING ACCESSORIES FOR INSTALLATION

TEC*

+ for mechanical installation

DESCRIPTION	LOAD CAPACITY (PER PIECE)	WEIGHT	ARTICLE NO.
Rotatable lifting point (set of 4 pcs) for the mechanical installation of supply channels with angles NW 100 – 520	1.00 t	2.0 kg (set)	606108
Lifting loops RD 14 for reinforced concrete covers / supply channels without angles NW 520 – 1000	0.50 t	0.2 kg/unit	606016

LATERAL STEEL PROTECTION | GALVANISED STEEL

TEC*

+ As back support for reinforced concrete covers
of BIRCOcanal® without angles

+ 1 or 2-sided mounting

DESCRIPTION	LENGTH	HEIGHT	THICKNESS OF MATERIAL	WEIGHT	ARTICLE NO.
1-sided, NW 520	1000 mm	330 mm	5 mm	13.0 kg	609663
2-sided, NW 520	1000 mm	330 mm	5 mm	26.0 kg	609664
1-sided, NW 700 – 1000	2000 mm	330 mm	5 mm	26.0 kg	609665
2-sided, NW 700 – 1000	2000 mm	330 mm	5 mm	52.0 kg	609666

 The side panels serve only as a lateral boundary and do not have the function of absorbing dynamic horizontal forces.

FOAM TAPE | COMPRESSION BAND

TEC*

+ Between supply channel and reinforced concrete cover for BIRCOcanal®
without angles, 50/5 mm or 100/5 mm (by the metre)

+ Self-adhesive

DESCRIPTION	LENGTH	WIDTH	THICKNESS OF MATERIAL	ARTICLE NO.
Foam tape for NW 520	by the meter	50 mm	5 mm	609402
Foam tape for NW 700 – 1000	by the meter	100 mm	5 mm	609414

 Absolutely necessary to compensate for manufacturing and installation tolerances in order to ensure full-surface support of the reinforced concrete covers.