

BECAUSE WATER
IS PRECIOUS.



BIRCOmax-i®

Maximum retention volume and stability
with the Type I installation



BIRCOmax-i® sets new standards in drainage technology with a combination of maximum retention and stability to effectively meet the challenges of climate change. With its enormous retention volume of up to 512 litres per metre, the high-performance channel offers immediate protection against severe storms and flooding. Its specially optimised hyperbolic design ensures maximum load-bearing capacity, especially for type I installation. BIRCOmax-i® is more than just a channel; it combines the functions of a channel system with those of a cistern, making it a pioneering solution in urban water management. With official DIBt approval, it offers fast and uncomplicated implementation that efficiently combines building protection, investment protection and traffic safety.

HIGHEST QUALITY STANDARDS:

Realised 1:1 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 and 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 EN 1433. 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



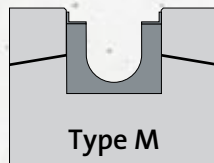
1/4 turn Easylock fastening

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 (70 micron) 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

- + Channel system: NW 220, 320, 420, 520, in different heights
- + Lengths: 1.50 and 3.00 metres
- + High-quality C 60/75 concrete
- + Continuous anchoring system
- + BIRCOhyperbola construction form for long-lasting stability
- + 5 mm cast-in ngles with cathodic coating
- + Oil resistant certified (German DIBt certificate No. Z-74.4-160)
- + ASR performance test passed, CE-compliant
- + Load classes: A 15 – F 900, EN 1433
- + Type I installation

AREAS OF APPLICATION

- + Urban development, industrial construction, airports, ports
- + High traffic volume
- + Car parks that are also used by lorries (e.g. supermarkets, shipping companies)
- + When an immediate intake of large quantities of water is required
- + Addition to sewage networks
- + For the fast drainage of heavy-duty surfaces



A 15 to F 900



Retention

Deutsches
Institut
für
Bautechnik

DIBt

DIBt certificate Z-74.4-160

1 EDGE/CORROSION PROTECTION

- + 5 mm cast-in DI angles with cathodic coating

2 INSTALLATION FROM ABOVE

- + Positioning by using rotatable lifting points mounted in the bolt holes of the angles

3 HIGH-QUALITY MATERIALS

- + High-quality reinforced C 60/75 concrete
- + Pressure resistance, frost and de-icing salt resistance guarantee longevity and investment protection
- + AdBlue impermeability confirmed
- + DIBt- certification: Z-74.4-160
- + ASR performance test passed

4 BIRCOhyperbola CONSTRUCTION FORM

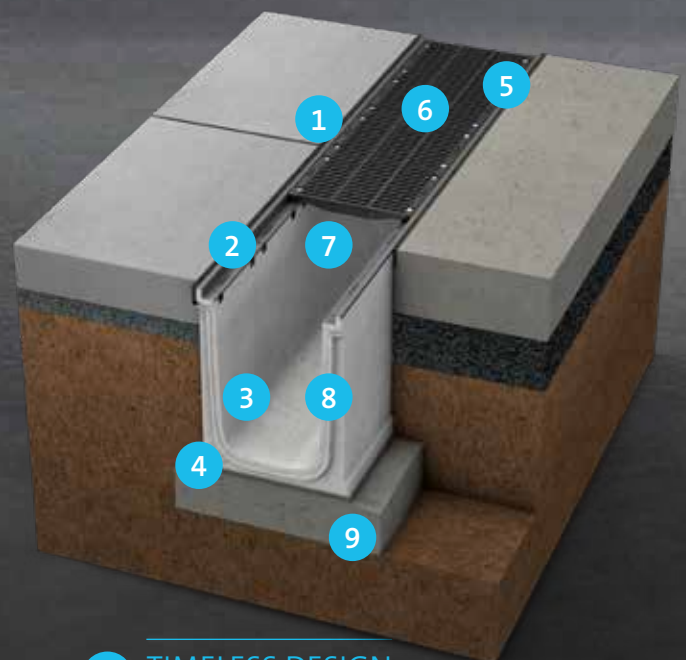
- + BIRCOhyperbola form for maximum stability and force distribution

5 TRAFFIC SAFETY

- + 8 M12/A2 bolts per meter
- + Shift protection of the gratings

6 DRAINAGE PERFORMANCE

- + Large inlet cross-section



7 TIMELESS DESIGN

- + Attractive DI gratings and self-cleaning fastener pockets
- + Anti-slip surface

8 HIGH RETENTION CAPACITY

- + Very high emergency retention space for fewer traffic obstructions and structural damage due to standing water

9 BIRCO SEALING JOINT

- + The transitions at the channel joint fit precisely and enable professional grouting

BIRCOmax-i® | NW 220

Maximum retention volume and type I self-stability

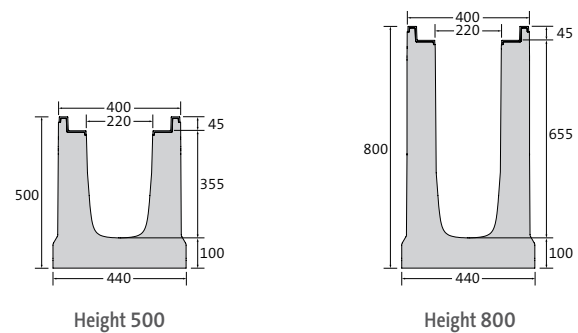


Z-74.4-160

CHANNEL ELEMENTS | WITHOUT INBUILT FALL | WITH DI ANGLES

TEC*

- + Cast-in 5 mm DI angles
- + CDP-coated angles
- + With reinforcement
- + Visible sealing gap
- + With shift protection of the grating
- + With continuous anchoring system



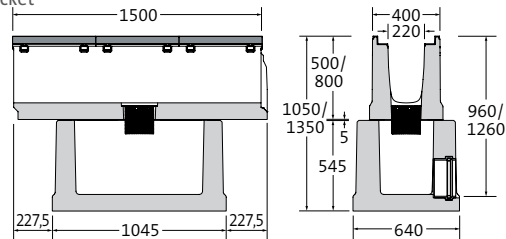
DESIGNATION	LENGTH	HEIGHT AT TONGUE/GROOVE	WEIGHT	RETENTION VOLUME PER LINEAR METRE	LOAD CLASS EN 1433	PALLET	ARTICLE NO.
Channel height 500	1500 mm	500/500 mm	441 kg	70.3 l	A 15 – F 900	3 units	0682200527
Channel height 500	3000 mm	500/500 mm	883 kg	70.3 l	A 15 – F 900	– ¹⁾	0682200529
Channel height 800	1500 mm	800/800 mm	639 kg	135.1 l	A 15 – F 900	3 units	0682200827
Channel height 800	3000 mm	800/800 mm	1281 kg	135.1 l	A 15 – F 900	– ¹⁾	0682200829

¹⁾ Not loaded on pallet but wooden rafters

OUTFALL UNIT | 2-PIECE

TEC*

- + 2-piece: composed of an upper piece (channel) with vertical bore hole DN 200 and lower piece with outlet DN 200 with PVC pipe socket
- + With integrated sleeves (in the lower part)
- + 2-sided channel connection
- + Incl. CDP-coated silt bucket
- + Cast-in 5 mm DI angles
- + CDP-coated angles
- + Visible sealing gap
- + With shift protection of the grating



Drain in the centre



Illustration similar

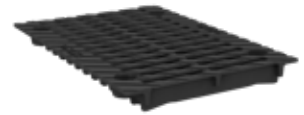
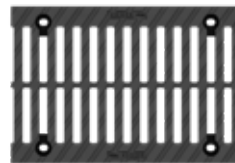
DESIGNATION	LENGTH AT TOP/ AT GROUND	HEIGHT	WEIGHT	LOAD CLASS ACC. TO EN 1433	PALLET	ARTICLE NO.
Outfall unit set for height 500 mm	1500/1045 mm	1050 mm	949 kg	A 15 – F 900	– ¹⁾	0682200567
Outfall unit set for height 800 mm	1500/1045 mm	1350 mm	1147 kg	A 15 – F 900	– ¹⁾	0682200867

¹⁾ Upper part loaded on wooden rafters, lower part loaded on pallet (2 units)

DOUBLE-SLOTTED GRATINGS | DI

TEC*

- + Black dip-painted
- + 8 M12/A2 bolts per meter
- + With anti-displacement protection



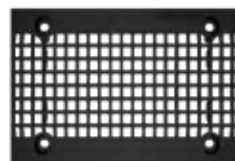
LENGTH	WIDTH	HEIGHT	WEIGHT	INLET OPENING	INLET CROSS SECTION	LOAD CLASS ACC. TO EN 1433	PALLET	ART. NO.
498 mm	337 mm	45 mm	11.9 kg	2x SW 119.5/18 mm	1114 cm²/m	A 15 – D 400	60 units	0682200091
498 mm	337 mm	45 mm	13.8 kg	2x SW 119.5/18 mm	1114 cm²/m	A 15 – E 600	60 units	0682200092
498 mm	337 mm	45 mm	18.2 kg	2x SW 119.5/18 mm	1114 cm²/m	A 15 – F 900	60 units	0682200093

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

MESH GRATING | DI

TEC*

- + Black dip-painted
- + 8 M12/A2 bolts per meter
- + With anti-displacement protection



LENGTH	WIDTH	HEIGHT	WEIGHT	INLET OPENING	INLET CROSS SECTION	LOAD CLASS ACC. TO EN 1433	PALLET	ART. NO.
498 mm	337 mm	45 mm	14.7 kg	MW 18/18 mm	1255 cm²/m	A 15 – E 600	60 units	0682200086

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

BIRCOmax-i® | NW 320

Maximum retention volume and type I self-stability



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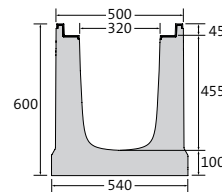
DIBt

Z-74.4-160

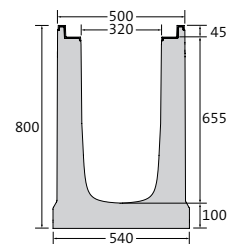
CHANNEL ELEMENTS | WITHOUT INBUILT FALL | WITH DI ANGLES

TEC*

- + Cast-in 5 mm DI angles
- + CDP-coated angles
- + With reinforcement
- + Visible sealing gap
- + With shift protection of the grating
- + With continuous anchoring system



Height 600



Height 800

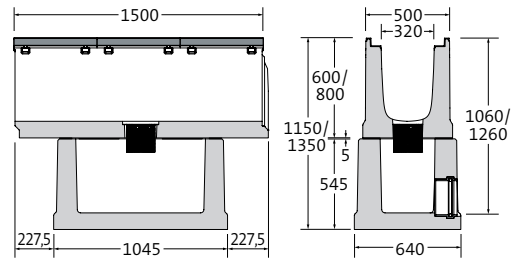
DESIGNATION	LENGTH	HEIGHT AT TONGUE/GROOVE	WEIGHT	RETENTION VOLUME PER LINEAR METRE	LOAD CLASS EN 1433	PALLET	ARTICLE NO.
Channel height 600	1500 mm	600/600 mm	557 kg	132.6 l	A 15 – F 900	2 units	0683200627
Channel height 600	3000 mm	600/600 mm	1114 kg	132.6 l	A 15 – F 900	– ¹⁾	0683200629
Channel height 800	1500 mm	800/800 mm	698 kg	195.8 l	A 15 – F 900	2 units	0683200827
Channel height 800	3000 mm	800/800 mm	1398 kg	195.8 l	A 15 – F 900	– ¹⁾	0683200829

¹⁾ Not loaded on pallet but wooden rafters

OUTFALL UNIT | 2-PIECE

TEC*

- + 2-piece: composed of an upper piece (channel) with vertical bore hole DN 200 and lower piece with outlet DN 200 with PVC pipe socket, drain in the centre
- + With integrated sleeves (in the lower part)
- + 2-sided channel connection
- + Incl. CDP-coated silt bucket
- + Cast-in 5 mm DI angles
- + CDP-coated angles
- + Visible sealing gap
- + With shift protection of the grating



Drain in the centre



Illustration similar

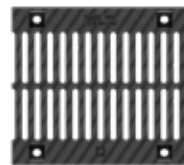
DESIGNATION	LENGTH AT TOP/ AT GROUND	HEIGHT	WEIGHT	LOAD CLASS ACC. TO EN 1433	PALLET	ARTICLE NO.
Outfall unit set for height 600 mm	1500/1045 mm	1150 mm	1069 kg	A 15 – F 900	– ¹⁾	0683200667
Outfall unit set for height 800 mm	1500/1045 mm	1350 mm	1207 kg	A 15 – F 900	– ¹⁾	0683200867

¹⁾ Upper part loaded on wooden rafters, lower part loaded on pallet (2 units)

DOUBLE-SLOTTED GRATINGS | DI

TEC*

- + Black dip-painted
- + 8 M12/A2 bolts per meter
- + With anti-displacement protection
- + Anti-slip classification R11/V10



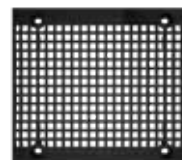
LENGTH	WIDTH	HEIGHT	WEIGHT	INLET OPENING	INLET CROSS SECTION	LOAD CLASS ACC. TO EN 1433	PALLET	ART. NO.
498 mm	437 mm	45 mm	19.7 kg	2x SW 162/18 mm	1531 cm ² /m	A 15 – D 400	40 units	0683200091
498 mm	437 mm	45 mm	23.9 kg	2x SW 162/18 mm	1531 cm ² /m	A 15 – E 600	40 units	0683200092
498 mm	437 mm	45 mm	30.0 kg	2x SW 162/18 mm	1531 cm ² /m	A 15 – F 900	40 units	0683200093

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

MESH GRATING | DI

TEC*

- + Black dip-painted
- + 8 M12/A2 bolts per meter
- + With anti-displacement protection



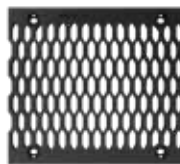
LENGTH	WIDTH	HEIGHT	WEIGHT	INLET OPENING	INLET CROSS SECTION	LOAD CLASS ACC. TO EN 1433	PALLET	ART. NO.
498 mm	437 mm	45 mm	22.4 kg	MW 18/18 mm	1620 cm ² /m	A 15 – E 600	40 units	0683200086

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

HONEYCOMB GRATING | DI

TEC*

- + Black dip-painted
- + 8 M12/A2 bolts per meter
- + With anti-displacement protection



LENGTH	WIDTH	HEIGHT	WEIGHT	INLET OPENING	INLET CROSS SECTION	LOAD CLASS ACC. TO EN 1433	PALLET	ART. NO.
498 mm	437 mm	45 mm	30.0 kg	MW 19/57 mm	1745 cm ² /m	A 15 – E 600	40 units	0683200079

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

SOLID HEXAGON® COVER | DI

TEC*

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



LENGTH	WIDTH	HEIGHT	WEIGHT	INLET OPENING	INLET CROSS SECTION	LOAD CLASS ACC. TO EN 1433	PALLET	ART. NO.
498 mm	437 mm	45 mm	30.4 kg	–	–	A 15 – E 600	40 units	0683200076

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

BIRCOmax-i® | NW 420

Maximum retention volume and type I self-stability

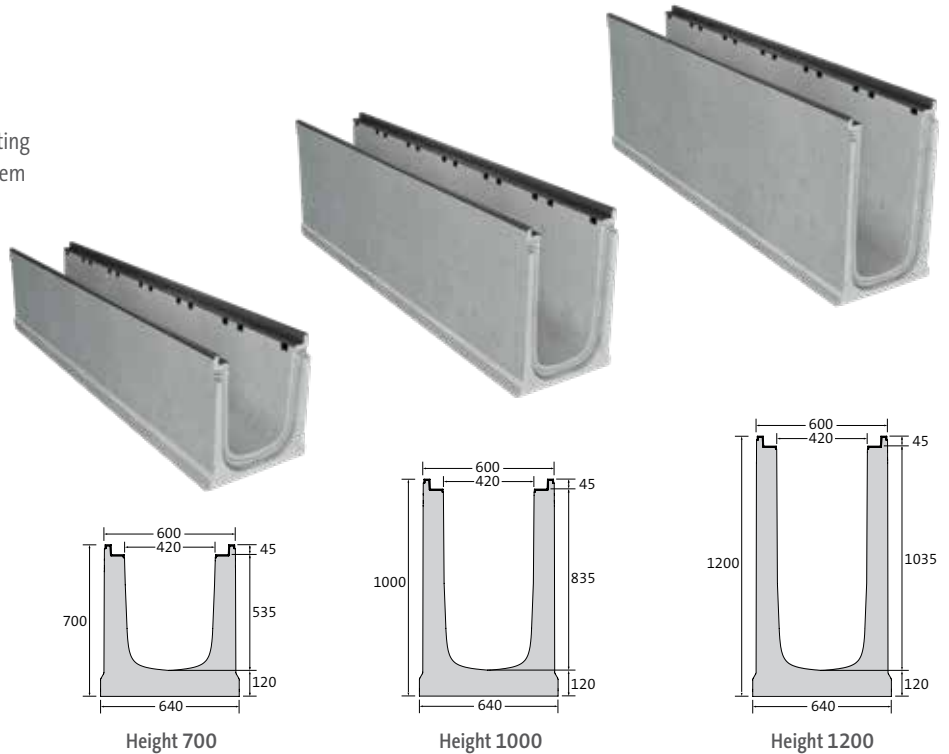


Z-74.4-160

CHANNEL ELEMENTS | WITHOUT INBUILT FALL | WITH DI ANGLES

TEC*

- + Cast-in 5 mm DI angles
- + CDP-coated angles
- + With reinforcement
- + Visible sealing gap
- + With shift protection of the grating
- + With continuous anchoring system



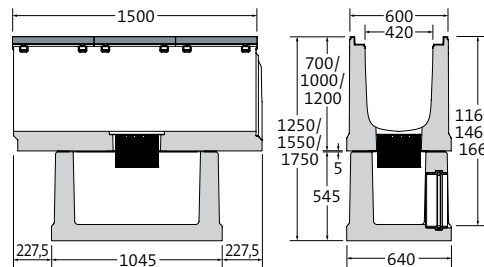
DESIGNATION	LENGTH	HEIGHT AT TONGUE/GROOVE	WEIGHT	RETENTION VOLUME PEr linear metre	LOAD CLASS EN 1433	PALLET	ARTICLE NO.
Channel height 700	1500 mm	700/700 mm	716 kg	206.3 l	A 15 – F 900	2 units	0684200727
Channel height 700	3000 mm	700/700 mm	1435 kg	206.3 l	A 15 – F 900	– ¹⁾	0684200729
Channel height 1000	1500 mm	1000/1000 mm	916 kg	331.1 l	A 15 – F 900	2 units	0684201027
Channel height 1000	3000 mm	1000/1000 mm	1836 kg	331.1 l	A 15 – F 900	– ¹⁾	0684201029
Channel height 1200	1500 mm	1200/1200 mm	1064 kg	414.3 l	A 15 – F 900	2 units	06842012271
Channel height 1200	3000 mm	1200/1200 mm	2132 kg	414.3 l	A 15 – F 900	– ¹⁾	06842012291

¹⁾ Not loaded on pallet but wooden rafters

OUTFALL UNIT | 2-PIECE

TEC*

- + 2-piece: composed of an upper piece (channel) with vertical bore hole DN 315 and lower piece with outlet DN 315 with PVC pipe socket, drain in the centre
- + With integrated sleeves (in the lower part)
- + 2-sided channel connection
- + Incl. CDP-coated silt bucket
- + Cast-in 5 mm DI angles
- + CDP-coated angles
- + Visible sealing gap
- + With shift protection of the grating



Drain in the centre



Illustration similar

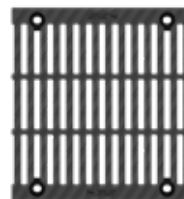
DESIGNATION	LENGTH AT TOP/^AT GROUND	HEIGHT	WEIGHT	LOAD CLASS ACC. TO EN 1433	PALLET	ARTICLE NO.
Outfall unit set for height 700 mm	1500/1045 mm	1250 mm	1216 kg	A 15 – F 900	– ¹⁾	0684200767
Outfall unit set for height 1000 mm	1500/1045 mm	1550 mm	1416 kg	A 15 – F 900	– ¹⁾	0684201067
Outfall unit set for height 1200 mm	1500/1045 mm	1750 mm	1546 kg	A 15 – F 900	– ¹⁾	0684201267

¹⁾ Upper part loaded on wooden rafters, lower part loaded on pallet (2 units)

TRIPLE-SLOTTED GRATINGS | DI

TEC*

- + Black dip-painted
- + 8 M12/A2 bolts per meter
- + With anti-displacement protection



LENGTH	WIDTH	HEIGHT	WEIGHT	INLET OPENING	INLET CROSS SECTION	LOAD CLASS ACC. TO EN 1433	PALLET	ART. NO.
498 mm	537 mm	45 mm	26.0 kg	3x SW 139/18 mm	1968 cm ² /m	A 15 – D 400	24 units	0684200091
498 mm	537 mm	45 mm	38.2 kg	3x SW 139/18 mm	1968 cm ² /m	A 15 – E 600	24 units	0684200092
498 mm	537 mm	45 mm	45.3 kg	3x SW 139/18 mm	1968 cm ² /m	A 15 – F 900	24 units	0684200093

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

SOLID HEXAGON® COVER | DI

TEC*

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



LENGTH	WIDTH	HEIGHT	WEIGHT	INLET OPENING	INLET CROSS SECTION	LOAD CLASS ACC. TO EN 1433	PALLET	ART. NO. BOLT FASTENING
498 mm	537 mm	45 mm	47.7 kg	–	–	A 15 – E 600	24 units	0684200076

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

BIRCOmax-i® | NW 520

Maximum retention volume and type I self-stability



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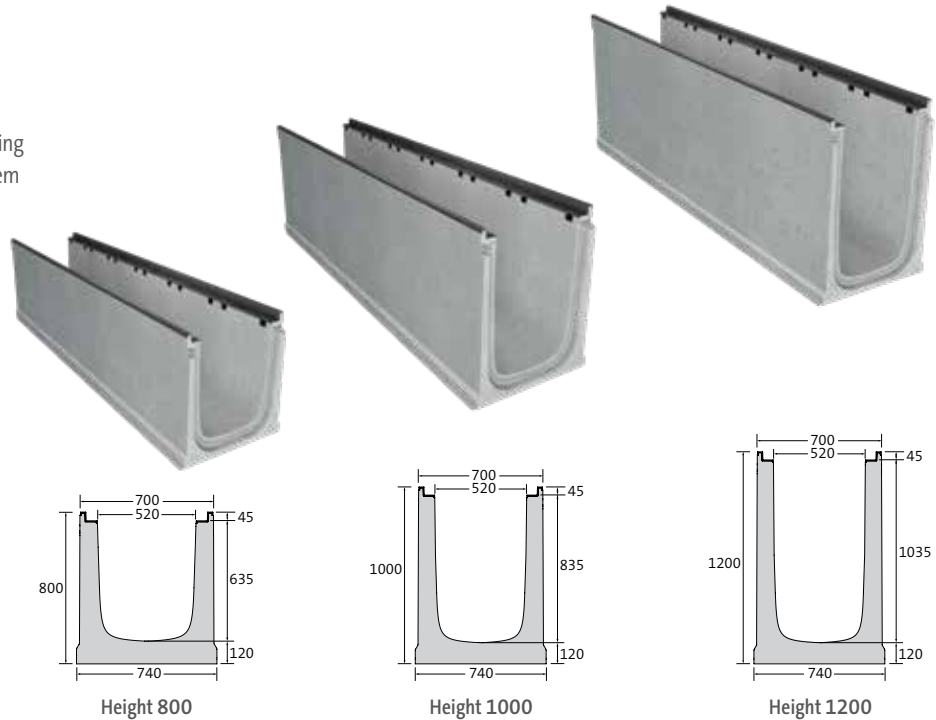
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Z-74.4-160

CHANNEL ELEMENTS | WITHOUT INBUILT FALL | WITH DI ANGLES

TEC*

- + Cast-in 5 mm DI angles
- + CDP-coated angles
- + With reinforcement
- + Visible sealing gap
- + With shift protection of the grating
- + With continuous anchoring system



DESIGNATION	LENGTH	HEIGHT AT TONGUE/GROOVE	WEIGHT	RETENTION VOLUME PER LINEAR METRE	LOAD CLASS EN 1433	PALLET	ARTICLE NO.
Channel height 800	1500 mm	800/800 mm	839 kg	306.4 l	A 15 – F 900	1 unit	0685200827
Channel height 800	3000 mm	800/800 mm	1681 kg	306.4 l	A 15 – F 900	– ¹⁾	0685200829
Channel height 1000	1500 mm	1000/1000 mm	972 kg	409.6 l	A 15 – F 900	1 unit	0685201027
Channel height 1000	3000 mm	1000/1000 mm	1947 kg	409.6 l	A 15 – F 900	– ¹⁾	0685201029
Channel height 1200	1500 mm	1200/1200 mm	1121 kg	512.8 l	A 15 – F 900	1 unit	06852012271
Channel height 1200	3000 mm	1200/1200 mm	2246 kg	512.8 l	A 15 – F 900	– ¹⁾	06852012291

¹⁾ Not loaded on pallet but wooden rafters

OUTFALL UNIT | 2-PIECE

TEC*

- + 2-piece: Consisting of upper part (channel) with vertical bore DN 315 and lower part with outlet DN 315 with PVC pipe socket, drain in the centre
- + With integrated sleeves (in the lower part)
- + 2-sided channel connection
- + Incl. CDP-coated silt bucket
- + Cast-in 5 mm DI angles
- + CDP-coated angles
- + Visible sealing gap
- + With shift protection of the grating

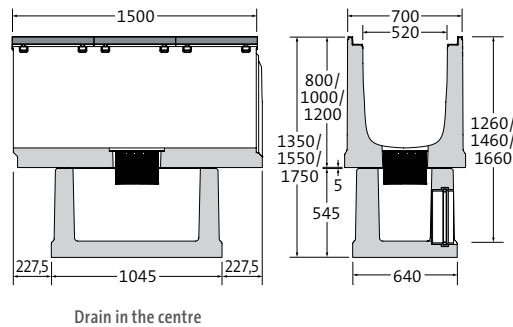


Illustration similar

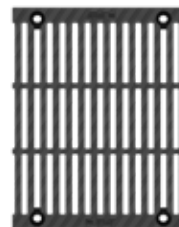
DESIGNATION	LENGTH AT TOP/^AT GROUND	HEIGHT	WEIGHT	LOAD CLASS ACC. TO EN 1433	PALLET	ARTICLE NO.
Outfall unit set for height 800 mm	1500/1045 mm	1350 mm	1339 kg	A 15 – F 900	– ¹⁾	0685200867
Outfall unit set for height 1000 mm	1500/1045 mm	1550 mm	1472 kg	A 15 – F 900	– ¹⁾	0685201067
Outfall unit set for height 1200 mm	1500/1045 mm	1750 mm	1602 kg	A 15 – F 900	– ¹⁾	0685201267

¹⁾ Upper part loaded on wooden rafters, lower part loaded on pallet (2 units)

TRIPLE-SLOTTED GRATINGS | DI

TEC*

- + Black dip-painted
- + 8 M12/A2 bolts per meter
- + With anti-displacement protection



LENGTH	WIDTH	HEIGHT	WEIGHT	INLET OPENING	INLET CROSS SECTION	LOAD CLASS ACC. TO EN 1433	PALLET	ART. NO.
498 mm	633 mm	45 mm	39.8 kg	3x SW 172/18 mm	2446 cm ² /m	A 15 – D 400	24 units	0685200091
498 mm	633 mm	45 mm	48.7 kg	3x SW 172/18 mm	2446 cm ² /m	A 15 – E 600	24 units	0685200092
498 mm	633 mm	45 mm	53.7 kg	3x SW 172/18 mm	2446 cm ² /m	A 15 – F 900	24 units	0685200093

Also available galvanised or KTL with powder coating to RAL colour on request.

SOLID HEXAGON® COVER | DI

TEC*

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



LENGTH	WIDTH	HEIGHT	WEIGHT	INLET OPENING	INLET CROSS SECTION	LOAD CLASS ACC. TO EN 1433	PALLET	ART. NO. BOLT FASTENING
498 mm	633 mm	45 mm	61.7 kg	–	–	A 15 – E 600	24 units	0685200076

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

Accessories BIRCOmax-i®

Maximum retention volume and type I self-stability

END CAPS FOR NW 220 | GALVANISED STEEL

TEC*

DESIGNATION	WIDTH	FOR HEIGHT	WEIGHT	ARTICLE NO.
End cap, height 500	400 mm	500 mm	3.2 kg	0682200540
End cap, height 800	400 mm	800 mm	5.4 kg	0682200840
End cap with outlet DN 200, height 500	400 mm	500 mm	4.7 kg	0682200545
End cap with outlet DN 200, height 800	400 mm	800 mm	6.9 kg	0682200845

END CAPS FOR NW 320 | GALVANISED STEEL

TEC*

DESIGNATION	WIDTH	FOR HEIGHT	WEIGHT	ARTICLE NO.
End cap, height 600	500 mm	600 mm	5.1 kg	0683200640
End cap, height 800	500 mm	800 mm	7.0 kg	0683200840
End cap with outlet DN 315, height 600	500 mm	600 mm	6.8 kg	0683200645
End cap with outlet DN 315, height 800	500 mm	800 mm	8.7 kg	0683200845

END CAPS FOR NW 420 | GALVANISED STEEL

TEC*

DESIGNATION	WIDTH	FOR HEIGHT	WEIGHT	ARTICLE NO.
End cap, height 700	600 mm	700 mm	7.3 kg	0684200740
End cap, height 1000	600 mm	1000 mm	10.8 kg	0684201040
End cap, height 1200	600 mm	1200 mm	13.2 kg	0684201240
End cap with outlet DN 315, height 700	600 mm	700 mm	9.0 kg	0684200745
End cap with outlet DN 315, height 1000	600 mm	1000 mm	12.5 kg	0684201045
End cap with outlet DN 315, height 1200	600 mm	1200 mm	14.9 kg	0684201245

END CAPS FOR NW 520 | GALVANISED STEEL

TEC*

DESIGNATION	WIDTH	FOR HEIGHT	WEIGHT	ARTICLE NO.
End cap, height 800	700 mm	800 mm	10.1 kg	0685200840
End cap, height 1000	700 mm	1000 mm	12.9 kg	0685201040
End cap, height 1200	700 mm	1200 mm	15.8 kg	0685201240
End cap with outlet DN 315, height 800	700 mm	800 mm	11.8 kg	0685200845
End cap with outlet DN 315, height 1000	700 mm	1000 mm	14.6 kg	0685201045
End cap with outlet DN 315, height 1200	700 mm	1200 mm	17.5 kg	0685201245

SILT BUCKET FOR DRAINAGE CHANNELS WITH VERTICAL DRILLING | GALVANISED STEEL

TEC*

- + With PE support disc for socket
- + CDP-coated RAL 9005
- + Only with vertical drilling DN 200 or DN 315 with socket

DESIGNATION	DIAMETER	HEIGHT	WEIGHT	ARTICLE NO.
Silt bucket DN 200 – Ø 170	170 mm	167 mm	0.9 kg	603044 •
Silt bucket DN 315 – Ø 260	260 mm	202 mm	2.1 kg	603045 •

PE-FOAM PANELS | PE-FOAM PLATE FOR EXPANSION JOINT FORMATION

TEC*

- + High-quality PE-foam panel
- + Adjusted to the channel outline, height customizable on site
- + BIRCO recommends: Installation every 9 to 12 linear metres in accordance with DIN 18318

DESIGNATION	THICKNESS OF MATERIAL	FOR HEIGHT	WEIGHT	ARTICLE NO.
PE-foam panel for NW 220	13 mm	500/800 mm	0.1 kg	608105
PE-foam panel for NW 320	13 mm	600/800 mm	0.1 kg	608106
PE-foam panel for NW 420	13 mm	700/1000/1200 mm	0.2 kg	608107
PE-foam panel for NW 520	13 mm	800/1000/1200 mm	0.2 kg	608108

BIRCOmax-i® LIFTING ACCESSORIES FOR INSTALLATION

TEC*

DESIGNATION	LOAD CAPACITY (PER PIECE)	WEIGHT	ARTICLE NO.
Rotatable lifting point, set of 4	1.00 t	2.0 kg/Set	606108
Lifting loop RD 12 for laying the lower part of the 2-piece outfall unit (requirement: 4 pcs.)	0.50 t	0.2 kg/units	609404

WEDGE-LOCKING WASHER M12 | STAINLESS STEEL V2A

TEC*

- + As a washer for permanently securing the nut¹⁾
- + No need to retighten the nuts regularly
- + Requirement: 4 unites per cover



DESIGNATION	ARTICLE NO.
Wedge-locking washer M12 (set of 2 washers)	602167 •

¹⁾ Wedge-locking washers should not be combined with further washers.

BIRCOmax-i® Drainage performance

The channel systems from BIRCO provide excellent drainage performance.

In addition to this table, BIRCO offers a project-specific hydraulic calculation service.

BIRCOmax-i® NW 220

NOMINAL WIDTH	HEIGHT	DRAINAGE PERFORMANCE AT THE CHANNEL END	CROSS-SECTIONAL AREA AT THE CHANNEL END
220	500 mm	39.06 l/sec	703.0 cm ²
220	800 mm	75.06 l/sec	1351.0 cm ²

BIRCOmax-i® NW 320

NOMINAL WIDTH	HEIGHT	DRAINAGE PERFORMANCE AT THE CHANNEL END	CROSS-SECTIONAL AREA AT THE CHANNEL END
320	600 mm	73.67 l/sec	1326.0 cm ²
320	800 mm	108.78 l/sec	1958.0 cm ²

BIRCOmax-i® NW 420

NOMINAL WIDTH	HEIGHT	DRAINAGE PERFORMANCE AT THE CHANNEL END	CROSS-SECTIONAL AREA AT THE CHANNEL END
420	700 mm	114.61 l/sec	2063.0 cm ²
420	1000 mm	183.94 l/sec	3311.0 cm ²
420	1200 mm	230.17 l/sec	4143.0 cm ²

BIRCOmax-i® NW 520

NOMINAL WIDTH	HEIGHT	DRAINAGE PERFORMANCE AT THE CHANNEL END	CROSS-SECTIONAL AREA AT THE CHANNEL END
520	800 mm	170.22 l/sec	3064.0 cm ²
520	1000 mm	227.56 l/sec	4096.0 cm ²
520	1200 mm	284.89 l/sec	5128.0 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.