

BECAUSE WATER  
IS PRÉCIOUS.



# BIRCOsir®

## Small dimensions

Stability and diversity also for Type I installation



With its wide range of gratings, BIRCOsir® enables flexible drainage solutions. The channel elements made of high-quality C 40/50 concrete can withstand high loads and are particularly resistant to abrasion, frost and de-icing salt thanks to their low water/cement ratio. Our drainage channels integrate 4 mm solid steel frames with a zinc coating for optimum stability and corrosion protection. BIRCO's unique fastener pockets facilitate maintenance and ensure long-term simplicity of use.

# 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.

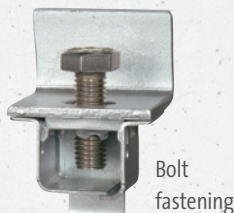
The high quality of our materials, coupled with the sophisticated design of BIRCO channel systems, guarantees optimum operating conditions on any construction site and promises efficient, cost-effective installation. Our solutions not only stand for the highest safety standards and long-term investment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



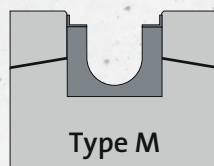
1/4 turn Easylock  
fastening

## 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

- + Channel system: NW 100, 150 and 200 AS with and without inbuilt falls
- + Shallow channels: NW 100, 150 and 200 AS
- + Lengths: 0.5 and 1.0 metre
- + Channels equipped with anchoring system (AS): NW 200 AS
- + Blind guide system gratings (guide stripes and attention fields) for the NW 200 AS (certified DIN compliance)
- + Broad range of gratings
- + Outfall units NW 100, 150 and 200 AS with outstanding drainage performance
- + Environmental Product Declaration (EPD) for the BIRCOsir® NW 200 AS
- + CE/UKCA-compliant
- + Load classes: A 15 – F 900

## AREAS OF APPLICATION

- + Urban development, industrial construction
  - + Heavy traffic areas
  - + Parking lots also used by lorries (supermarkets, freighting companies, etc.)
  - + Properties with high architectural requirements due to the broad range of gratings available
- 
- + For the drainage of heavy-duty surfaces, also with high demands on flexibility and architecture



A 15 to F 900

### 1 EDGE/CORROSION PROTECTION

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

### 2 HIGH-QUALITY MATERIALS

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

### 3 TRAFFIC SAFETY

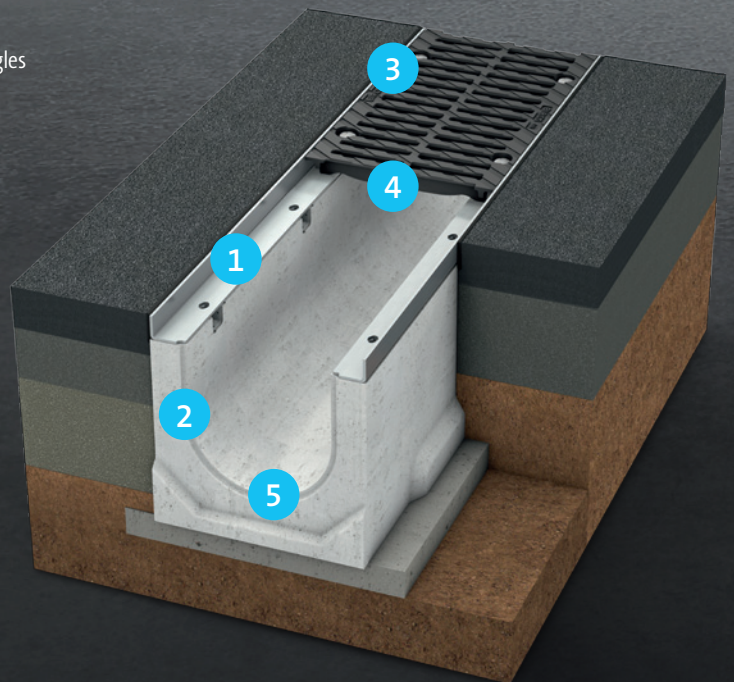
- + DI gratings with 4 or 8 bolts per meter
- + Fastening bracket: Easylock or bolts, individually selectable

### 4 ATTRACTIVE DESIGN

- + Best architectural design possibilities thanks to the broad range of gratings

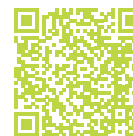
### 5 EN 1433

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



# BIRCOsir® | NW 100

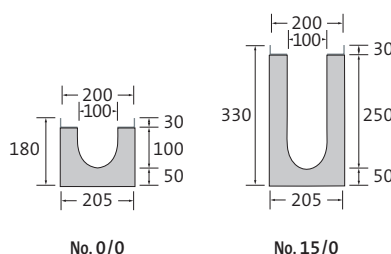
Stability and diversity



## CHANNEL ELEMENTS | WITHOUT INBUILT FALL

AQUA\*

- + High-quality C 40/50 concrete
- + Hot-dipped galvanised solid steel angles for combi-fastening system
- + Reservation for sealing joint
- + Type I installation up to D 400



| DESIGNATION                        | LENGTH  | HEIGHT AT TONGUE/GROOVE | WEIGHT  | LOAD CLASS ACC. TO EN 1433 | PALLET   | ARTICLE NO. |
|------------------------------------|---------|-------------------------|---------|----------------------------|----------|-------------|
| Channel No. 0/0                    | 500 mm  | 180/180 mm              | 26.5 kg | A 15 – F 900               | 24 units | 020031 •    |
| Channel No. 0/0                    | 1000 mm | 180/180 mm              | 52.2 kg | A 15 – F 900               | 20 units | 020026 •    |
| Channel No. 0/0 with outlet DN 110 | 1000 mm | 180/180 mm              | 50.5 kg | A 15 – F 900               | 20 units | 020025 •    |
| Channel No. 5/0                    | 1000 mm | 230/230 mm              | 65.0 kg | A 15 – F 900               | 16 units | 020027 •    |
| Channel No. 10/0                   | 1000 mm | 280/280 mm              | 80.0 kg | A 15 – F 900               | 12 units | 020028 •    |
| Channel No. 15/0                   | 1000 mm | 330/330 mm              | 95.0 kg | A 15 – F 900               | 8 units  | 020029 •    |

As special solution also with stainless steel angles (V2A, combi-fastening system not in V2A). Price on request.

## CHANNEL ELEMENTS | 1% INBUILT FALL

AQUA\*

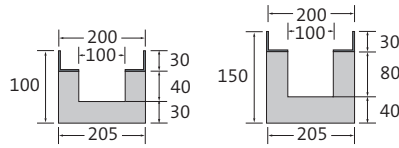
- + High-quality C 40/50 concrete
- + Hot-dipped galvanised solid steel angles for combi-fastening system
- + Reservation for sealing joint
- + Type I installation up to D 400

| DESIGNATION    | LENGTH  | HEIGHT AT TONGUE/GROOVE | WEIGHT  | LOAD CLASS ACC. TO EN 1433 | PALLET   | ARTICLE NO. |
|----------------|---------|-------------------------|---------|----------------------------|----------|-------------|
| Channel No. 1  | 1000 mm | 180/190 mm              | 55.0 kg | A 15 – F 900               | 16 units | 020001 •    |
| Channel No. 2  | 1000 mm | 190/200 mm              | 57.5 kg | A 15 – F 900               | 16 units | 020002 •    |
| Channel No. 3  | 1000 mm | 200/210 mm              | 58.0 kg | A 15 – F 900               | 16 units | 020003 •    |
| Channel No. 4  | 1000 mm | 210/220 mm              | 61.0 kg | A 15 – F 900               | 16 units | 020004 •    |
| Channel No. 5  | 1000 mm | 220/230 mm              | 65.0 kg | A 15 – F 900               | 16 units | 020005 •    |
| Channel No. 6  | 1000 mm | 230/240 mm              | 67.0 kg | A 15 – F 900               | 12 units | 020006 •    |
| Channel No. 7  | 1000 mm | 240/250 mm              | 68.0 kg | A 15 – F 900               | 12 units | 020007 •    |
| Channel No. 8  | 1000 mm | 250/260 mm              | 71.0 kg | A 15 – F 900               | 12 units | 020008 •    |
| Channel No. 9  | 1000 mm | 260/270 mm              | 73.0 kg | A 15 – F 900               | 12 units | 020009 •    |
| Channel No. 10 | 1000 mm | 270/280 mm              | 77.0 kg | A 15 – F 900               | 12 units | 020010 •    |

## SHALLOW CHANNELS | WITHOUT INBUILT FALL

AQUA\*

- + High-quality C 40/50 concrete
- + Hot-dipped galvanised solid steel angles for combi-fastening system
- + Reservation for sealing joint
- + Type I installation up to D 400

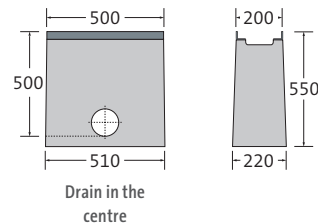


| DESIGNATION                | LENGTH  | HEIGHT AT TONGUE/GROOVE | WEIGHT  | LOAD CLASS ACC. TO EN 1433 | PALLET   | ARTICLE NO. |
|----------------------------|---------|-------------------------|---------|----------------------------|----------|-------------|
| Shallow channel height 100 | 1000 mm | 100/100 mm              | 32.4 kg | A 15 – E 600               | 24 units | 030027 •    |
| Shallow channel height 150 | 1000 mm | 150/150 mm              | 52.4 kg | A 15 – E 600               | 24 units | 030029 •    |

## OUTFALL UNITS | 1-PIECE

AQUA\*

- + High-quality C 40/50 concrete
- + 1 or 2-sided channel connection up to No. 15/0
- + Internal odour trap DN 110 for pipe connection
- + PP silt bucket
- + Integrated socket for DN 110 pipe connection
- + Hot-dipped galvanised solid steel angles
- + Pre-cut sides for channel connection
- + Type I installation up to D 400



| DESIGNATION   | LENGTH | HEIGHT | WEIGHT  | LOAD CLASS   | PALLET   | ARTICLE NO. |
|---------------|--------|--------|---------|--------------|----------|-------------|
| Outfall units | 500 mm | 550 mm | 85.0 kg | A 15 – F 900 | 10 units | 0200351 •   |

As special solution also with stainless steel angles (V2A, combi-fastening system not in V2A). Price on request.

## DOUBLE-SLOTTED GRATING | DI

AQUA\*

- + Black dip-painted
- + 8 M12/A2 bolts per meter
- + 8 Easylock fasteners per meter (alternatively)
- + Anti-slip classification R11/V10 (except 0200721/0200721e)



| LENGTH | WIDTH  | HEIGHT | WEIGHT | INLET OPENING  | INLET CROSS SECTION    | LOAD CLASS ACC. TO EN 1433 | PALLET    | ARTICLE NO. BOLT FASTENING | ARTICLE NO. EASYLOCK |
|--------|--------|--------|--------|----------------|------------------------|----------------------------|-----------|----------------------------|----------------------|
| 500 mm | 187 mm | 30 mm  | 3.9 kg | 2x SW 60/18 mm | 585 cm <sup>2</sup> /m | A 15 – C 250               | 100 units | 0200721 •                  | 0200721e •           |
| 500 mm | 187 mm | 30 mm  | 4.8 kg | 2x SW 60/18 mm | 585 cm <sup>2</sup> /m | A 15 – D 400               | 100 units | 020074 •                   | 020074e •            |
| 500 mm | 187 mm | 30 mm  | 6.0 kg | 2x SW 60/18 mm | 585 cm <sup>2</sup> /m | A 15 – E 600               | 100 units | 0200751 •                  | 0200751e •           |
| 500 mm | 187 mm | 30 mm  | 6.3 kg | 2x SW 60/18 mm | 586 cm <sup>2</sup> /m | A 15 – F 900               | 100 units | 0200781 •                  | –                    |

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

## HEELSURE SLOTTED GRATING | DI

AQUA\*

- + Black dip-painted
- + 8 M12/A2 bolts per meter



| LENGTH | WIDTH  | HEIGHT | WEIGHT | INLET<br>OPENING | INLET<br>CROSS SECTION | LOAD CLASS<br>ACC. TO EN 1433 | PALLET    | ARTICLE NO.<br>BOLT FASTENING | ARTICLE NO.<br>EASYLOCK |
|--------|--------|--------|--------|------------------|------------------------|-------------------------------|-----------|-------------------------------|-------------------------|
| 500 mm | 187 mm | 30 mm  | 7.7 kg | SW<br>100/6 mm   | 260 cm <sup>2</sup> /m | A 15 – E 600                  | 100 units | 020073 •                      | –                       |

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

## MESH GRATING | DI

AQUA\*

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



| LENGTH | WIDTH  | HEIGHT | WEIGHT | INLET<br>OPENING | INLET<br>CROSS SECTION | LOAD CLASS<br>ACC. TO EN 1433 | PALLET    | ARTICLE NO.<br>BOLT FASTENING | ARTICLE NO.<br>EASYLOCK |
|--------|--------|--------|--------|------------------|------------------------|-------------------------------|-----------|-------------------------------|-------------------------|
| 500 mm | 187 mm | 30 mm  | 7.3 kg | MW<br>20/30 mm   | 876 cm <sup>2</sup> /m | A 15 – E 600                  | 100 units | 020086 •                      | 020086e •               |

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

## HONEYCOMB GRATING | DI

AQUA\*

- + Black dip-painted
- + 8 M12 inbus black screws per metre



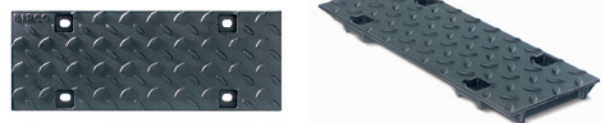
| LENGTH | WIDTH  | HEIGHT | WEIGHT | INLET<br>OPENING | INLET<br>CROSS SECTION | LOAD CLASS<br>ACC. TO EN 1433 | PALLET    | ARTICLE NO.<br>BOLT FASTENING | ARTICLE NO.<br>EASYLOCK |
|--------|--------|--------|--------|------------------|------------------------|-------------------------------|-----------|-------------------------------|-------------------------|
| 500 mm | 187 mm | 30 mm  | 6.4 kg | MW<br>18/50 mm   | 962 cm <sup>2</sup> /m | A 15 – E 600                  | 100 units | 020079                        | –                       |

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

## SOLID COVER | DI

AQUA\*

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



| LENGTH | WIDTH  | HEIGHT | WEIGHT | LOAD CLASS<br>ACC. TO EN 1433 | PALLET    | ARTICLE NO.<br>BOLT FASTENING | ARTICLE NO.<br>EASYLOCK |
|--------|--------|--------|--------|-------------------------------|-----------|-------------------------------|-------------------------|
| 500 mm | 187 mm | 30 mm  | 7.5 kg | A 15 – E 600                  | 100 units | 102076                        | 102076e                 |

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

## MESH GRATING | HOT-DIP GALVANISED STEEL

AQUA\*

- + 4 M12/A2 bolts per grating
- + 4 Easylock fasteners per meter (alternatively)



| LENGTH  | WIDTH  | HEIGHT | WEIGHT | INLET<br>OPENING | INLET<br>CROSS SECTION  | LOAD CLASS<br>ACC. TO EN 1433 | PALLET   | ARTICLE NO.<br>BOLT FASTENING | ARTICLE NO.<br>EASYLOCK |
|---------|--------|--------|--------|------------------|-------------------------|-------------------------------|----------|-------------------------------|-------------------------|
| 500 mm  | 187 mm | 30 mm  | 3.5 kg | MW<br>30/12 mm   | 1154 cm <sup>2</sup> /m | A 15 – C 250                  | 50 units | 020063 •                      | 020063e •               |
| 1000 mm | 187 mm | 30 mm  | 6.3 kg | MW<br>30/12 mm   | 1154 cm <sup>2</sup> /m | A 15 – C 250                  | 50 units | 020053 •                      | 020053e •               |
| 500 mm  | 187 mm | 30 mm  | 5.1 kg | MW<br>20/30 mm   | 1140 cm <sup>2</sup> /m | A 15 – E 600                  | 50 units | 020064 •                      | 020064e •               |
| 1000 mm | 187 mm | 30 mm  | 9.5 kg | MW<br>20/30 mm   | 1140 cm <sup>2</sup> /m | A 15 – E 600                  | 50 units | 020054 •                      | 020054e •               |

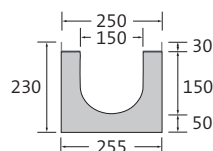
Also available in stainless steel (V2A, without Easylock) on request.



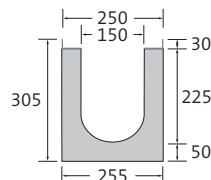
## CHANNEL ELEMENTS | WITHOUT INBUILT FALL

AQUA\*

- + High-quality C 40/50 concrete
- + Hot-dipped galvanised solid steel angles for combi-fastening system
- + Reservation for sealing joint
- + Type I installation up to D 400



No. 0/0



No. 15/0



| DESIGNATION                        | LENGTH  | HEIGHT AT TONGUE/GROOVE | WEIGHT  | LOAD CLASS ACC. TO EN 1433 | PALLET   | ARTICLE NO. |
|------------------------------------|---------|-------------------------|---------|----------------------------|----------|-------------|
| Channel No. 0/0                    | 500 mm  | 230/230 mm              | 37.5 kg | A 15 – F 900               | 24 units | 020131 •    |
| Channel No. 0/0                    | 1000 mm | 230/230 mm              | 72.0 kg | A 15 – F 900               | 12 units | 020126 •    |
| Channel No. 0/0 with outlet DN 160 | 1000 mm | 230/230 mm              | 70.0 kg | A 15 – F 900               | 12 units | 020125 •    |
| Channel No. 5/0                    | 1000 mm | 255/255 mm              | 83.4 kg | A 15 – F 900               | 12 units | 020127 •    |
| Channel No. 10/0                   | 1000 mm | 280/280 mm              | 88.4 kg | A 15 – F 900               | 9 units  | 020128 •    |
| Channel No. 15/0                   | 1000 mm | 305/305 mm              | 93.4 kg | A 15 – F 900               | 9 units  | 020129 •    |

Channel No. 0/0 1000 mm as special solution also with stainless steel angles (V2A, combi-fastening system not in V2A). Price on request.

## CHANNEL ELEMENTS | 0.5 % INBUILT FALL

AQUA\*

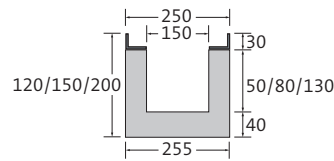
- + High-quality C 40/50 concrete
- + Hot-dipped galvanised solid steel angles
- + Reservation for sealing joint
- + Type I installation up to D 400

| DESIGNATION    | LENGTH  | HEIGHT AT TONGUE/GROOVE | WEIGHT  | LOAD CLASS ACC. TO EN 1433 | PALLET   | ARTICLE NO. |
|----------------|---------|-------------------------|---------|----------------------------|----------|-------------|
| Channel No. 1  | 1000 mm | 230/235 mm              | 75.0 kg | A 15 – F 900               | 12 units | 020101 •    |
| Channel No. 2  | 1000 mm | 235/240 mm              | 75.5 kg | A 15 – F 900               | 12 units | 020102 •    |
| Channel No. 3  | 1000 mm | 240/245 mm              | 76.0 kg | A 15 – F 900               | 12 units | 020103 •    |
| Channel No. 4  | 1000 mm | 245/250 mm              | 78.0 kg | A 15 – F 900               | 12 units | 020104 •    |
| Channel No. 5  | 1000 mm | 250/255 mm              | 79.0 kg | A 15 – F 900               | 12 units | 020105 •    |
| Channel No. 6  | 1000 mm | 255/260 mm              | 80.0 kg | A 15 – F 900               | 9 units  | 020106 •    |
| Channel No. 7  | 1000 mm | 260/265 mm              | 81.0 kg | A 15 – F 900               | 9 units  | 020107 •    |
| Channel No. 8  | 1000 mm | 265/270 mm              | 83.0 kg | A 15 – F 900               | 9 units  | 020108 •    |
| Channel No. 9  | 1000 mm | 270/275 mm              | 84.0 kg | A 15 – F 900               | 9 units  | 020109 •    |
| Channel No. 10 | 1000 mm | 275/280 mm              | 86.0 kg | A 15 – F 900               | 9 units  | 020110 •    |

## SHALLOW CHANNELS | WITHOUT INBUILT FALL

AQUA\*

- + High-quality C 40/50 concrete
- + Hot-dipped galvanised solid steel angles
- + Reservation for sealing joint
- + Type I installation up to D 400

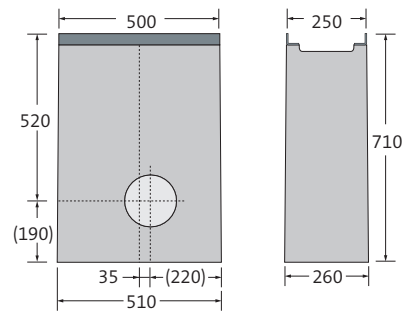


| DESIGNATION                | LENGTH  | HEIGHT AT TONGUE/GROOVE | WEIGHT  | LOAD CLASS ACC. TO EN 1433 | PALLET   | ARTICLE NO. |
|----------------------------|---------|-------------------------|---------|----------------------------|----------|-------------|
| Shallow channel height 120 | 1000 mm | 120/120 mm              | 53.4 kg | A 15 – E 600               | 15 units | 030126 •    |
| Shallow channel height 150 | 1000 mm | 150/150 mm              | 56.4 kg | A 15 – E 600               | 12 units | 030127 •    |
| Shallow channel height 200 | 1000 mm | 200/200 mm              | 63.0 kg | A 15 – E 600               | 12 units | 030128 •    |

## OUTFALL UNITS | 1-PIECE

AQUA\*

- + High-quality C 40/50 concrete
- + 1 or 2-sided channel connection up to No. 15
- + PP silt bucket
- + 1 integrated socket for DN 160 pipe connection (without odour trap)
- + Hot-dipped galvanised solid steel angles
- + Type I installation up to D 400



| DESIGNATION   | LENGTH | HEIGHT | WEIGHT   | LOAD CLASS   | PALLET  | ARTICLE NO. |
|---------------|--------|--------|----------|--------------|---------|-------------|
| Outfall units | 500 mm | 710 mm | 120.5 kg | A 15 – F 900 | 8 units | 020135 •    |

As special solution also with stainless steel angles (V2A, combi-fastening system not in V2A). Price on request.

## DOUBLE-SLOTTED GRATING | DI

AQUA\*

- + Black dip-painted
- + 8 M12/A2 bolts per meter
- + 8 Easylock fasteners per meter (alternatively)
- + Anti-slip classification R11/V10



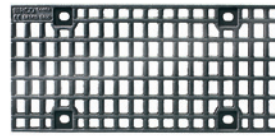
| LENGTH | WIDTH  | HEIGHT | WEIGHT | INLET OPENING  | INLET CROSS SECTION    | LOAD CLASS ACC. TO EN 1433 | PALLET   | ARTICLE NO. BOLT FASTENING | ARTICLE NO. EASYLOCK |
|--------|--------|--------|--------|----------------|------------------------|----------------------------|----------|----------------------------|----------------------|
| 500 mm | 237 mm | 30 mm  | 5.4 kg | 2x SW 85/18 mm | 845 cm <sup>2</sup> /m | A 15 – C 250               | 98 units | 0201721 •                  | 0201721e •           |
| 500 mm | 237 mm | 30 mm  | 7,1 kg | 2x SW 85/18 mm | 845 cm <sup>2</sup> /m | A 15 – D 400               | 98 units | 0201741 •                  | 0201741e •           |
| 500 mm | 237 mm | 30 mm  | 8.0 kg | 2x SW 85/18 mm | 845 cm <sup>2</sup> /m | A 15 – E 600               | 98 units | 0201751 •                  | 0201751e •           |
| 500 mm | 237 mm | 30 mm  | 9.3 kg | 2x SW 85/18 mm | 855 cm <sup>2</sup> /m | A 15 – F 900               | 98 units | 0201781 •                  | –                    |

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

## MESH GRATING | DI

AQUA\*

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



| LENGTH | WIDTH  | HEIGHT | WEIGHT  | INLET<br>OPENING | INLET<br>CROSS SECTION  | LOAD CLASS<br>ACC. TO EN 1433 | PALLET   | ARTICLE NO.<br>BOLT FASTENING | ARTICLE NO.<br>EASYLOCK |
|--------|--------|--------|---------|------------------|-------------------------|-------------------------------|----------|-------------------------------|-------------------------|
| 500 mm | 237 mm | 30 mm  | 10.7 kg | MW<br>20/30 mm   | 1110 cm <sup>2</sup> /m | A 15 – E 600                  | 98 units | 020186 •                      | 020186e •               |

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

## SOLID COVER | DI

AQUA\*

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



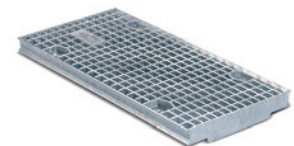
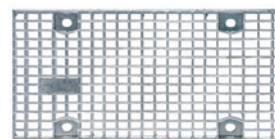
| LENGTH | WIDTH  | HEIGHT | WEIGHT  | LOAD CLASS<br>ACC. TO EN 1433 | PALLET | ARTICLE NO.<br>BOLT FASTENING | ARTICLE NO.<br>EASYLOCK |
|--------|--------|--------|---------|-------------------------------|--------|-------------------------------|-------------------------|
| 500 mm | 237 mm | 30 mm  | 10,5 kg | A15 – E 600                   | 98 St. | 102176                        | 102176e                 |

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

## MESH GRATING | HOT-DIP GALVANISED STEEL

AQUA\*

- + 4 M12/A2 bolts per grating
- + 4 Easylock fastenings per grating (alternatively)
- + Anti-slip classification R10/V10 (article No. 020163/e, 020153/e)



| LENGTH  | WIDTH  | HEIGHT | WEIGHT  | INLET<br>OPENING | INLET<br>CROSS SECTION  | LOAD CLASS<br>ACC. TO EN 1433 | PALLET   | ARTICLE NO.<br>BOLT FASTENING | ARTICLE NO.<br>EASYLOCK |
|---------|--------|--------|---------|------------------|-------------------------|-------------------------------|----------|-------------------------------|-------------------------|
| 500 mm  | 237 mm | 30 mm  | 4.4 kg  | MW<br>30/15 mm   | 1185 cm <sup>2</sup> /m | A 15 – C 250                  | 50 units | 020163 •                      | 020163e •               |
| 1000 mm | 237 mm | 30 mm  | 8.3 kg  | MW<br>30/15 mm   | 1185 cm <sup>2</sup> /m | A 15 – C 250                  | 60 units | 020153 •                      | 020153e •               |
| 500 mm  | 237 mm | 30 mm  | 7.6 kg  | MW<br>20/30 mm   | 1088 cm <sup>2</sup> /m | A 15 – E 600                  | 50 units | 020164 •                      | 020164e •               |
| 1000 mm | 237 mm | 30 mm  | 14.5 kg | MW<br>20/30 mm   | 1088 cm <sup>2</sup> /m | A 15 – E 600                  | 60 units | 020154 •                      | 020154e •               |

020164/ and 020154/e also available in stainless steel (V2A, without Easylock) on request.

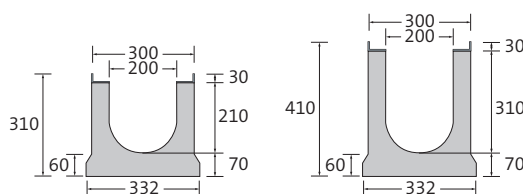


### CHANNEL ELEMENTS WITH ANCHORING SYSTEM

### WITHOUT INBUILT FALL

AQUA\*

- + High-quality C 40/50 concrete
- + With hot-dipped galvanised solid steel angles
- + Reservation for sealing joint
- + Type I installation up to D 400



Nr. 0/0

Nr. 20/0



| DESIGNATION                        | LENGTH  | HEIGHT AT TONGUE/GROOVE | WEIGHT   | LOAD CLASS ACC. TO EN 1433 | PALLET   | ARTICLE NO. |
|------------------------------------|---------|-------------------------|----------|----------------------------|----------|-------------|
| Channel No. 0/0                    | 500 mm  | 310/310 mm              | 57.0 kg  | A 15 – F 900               | 18 units | 0020231 •   |
| Channel No. 0/0                    | 1000 mm | 310/310 mm              | 116.0 kg | A 15 – F 900               | 9 units  | 0020226 •   |
| Channel No. 0/0 with outlet DN 200 | 1000 mm | 310/310 mm              | 115.4 kg | A 15 – F 600               | 6 units  | 0020233 •   |
| Channel No. 5/0                    | 1000 mm | 335/335 mm              | 119.0 kg | A 15 – F 900               | 6 units  | 0020227 •   |
| Channel No. 10/0                   | 1000 mm | 360/360 mm              | 125.0 kg | A 15 – F 900               | 6 units  | 0020228 •   |
| Channel No. 20/0                   | 1000 mm | 410/410 mm              | 137.0 kg | A 15 – F 900               | 6 units  | 0020232 •   |

Channel 0/0 1000 mm also available as special solution with stainless steel angles (V2A, combi-fastening system not in V2A). Price on request.

### CHANNEL ELEMENTS WITH ANCHORING SYSTEM

### 0.5 % INBUILT FALL

AQUA\*

- + High-quality C 40/50 concrete
- + With hot-dipped galvanised solid steel angles
- + Reservation for sealing joint
- + Type I installation up to D 400

| DESIGNATION    | LENGTH  | HEIGHT AT TONGUE/GROOVE | WEIGHT   | LOAD CLASS ACC. TO EN 1433 | PALLET  | ARTICLE NO. |
|----------------|---------|-------------------------|----------|----------------------------|---------|-------------|
| Channel No. 1  | 1000 mm | 310/315 mm              | 117.0 kg | A 15 – F 900               | 6 units | 0020201 •   |
| Channel No. 2  | 1000 mm | 315/320 mm              | 118.0 kg | A 15 – F 900               | 6 units | 0020202 •   |
| Channel No. 3  | 1000 mm | 320/325 mm              | 119.0 kg | A 15 – F 900               | 6 units | 0020203 •   |
| Channel No. 4  | 1000 mm | 325/330 mm              | 120.0 kg | A 15 – F 900               | 6 units | 0020204 •   |
| Channel No. 5  | 1000 mm | 330/335 mm              | 121.0 kg | A 15 – F 900               | 6 units | 0020205 •   |
| Channel No. 6  | 1000 mm | 335/340 mm              | 122.0 kg | A 15 – F 900               | 6 units | 0020206 •   |
| Channel No. 7  | 1000 mm | 340/345 mm              | 123.0 kg | A 15 – F 900               | 6 units | 0020207 •   |
| Channel No. 8  | 1000 mm | 345/350 mm              | 124.0 kg | A 15 – F 900               | 6 units | 0020208 •   |
| Channel No. 9  | 1000 mm | 350/355 mm              | 125.0 kg | A 15 – F 900               | 6 units | 0020209 •   |
| Channel No. 10 | 1000 mm | 355/360 mm              | 126.0 kg | A 15 – F 900               | 6 units | 0020210 •   |



#### Anchoring system | Firmly embedded in the ground

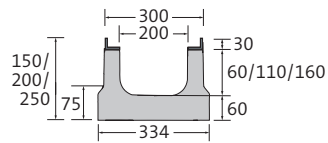
- + The anchoring system of the BIRCO AS product family bonds the drainage channel to the adjacent ground. This virtually eliminates the possibility of rocking or loosening from the ground – provided it is properly installed.

## SHALLOW CHANNELS WITH ANCHORING SYSTEM

## WITHOUT INBUILT FALL

AQUA\*

- + High-quality C 40/50 concrete
- + Hot-dipped galvanised solid steel angles
- + Reservation for sealing joint
- + Type I installation up to D 400



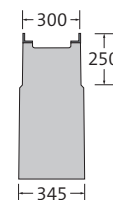
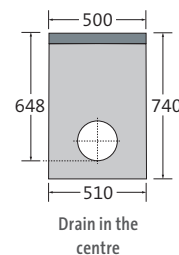
| DESIGNATION                | LENGTH  | HEIGHT AT TONGUE/GROOVE | WEIGHT  | LOAD CLASS ACC. TO EN 1433 | PALLET  | ARTICLE NO. |
|----------------------------|---------|-------------------------|---------|----------------------------|---------|-------------|
| Shallow channel height 150 | 1000 mm | 150/150 mm              | 64.0 kg | A 15 – E 600               | 9 units | 0030226 •   |
| Shallow channel height 200 | 1000 mm | 200/200 mm              | 74.0 kg | A 15 – E 600               | 6 units | 0030227 •   |
| Shallow channel height 250 | 1000 mm | 250/250 mm              | 90.5 kg | A 15 – E 600               | 6 units | 0030228 •   |

## OUTFALL UNITS WITH ANCHORING SYSTEM

## 1-PIECE

AQUA\*

- + High-quality C 40/50 concrete
- + 1 or 2-sided channel connection up to No. 20/0
- + Galvanised silt bucket
- + Integrated socket for DN 200 pipe connection
- + Without odour trap
- + Hot-dipped galvanised solid steel angles
- + Type I installation up to D 400



| DESIGNATION   | LENGTH | HEIGHT | WEIGHT   | LOAD CLASS   | PALLET  | ARTICLE NO. |
|---------------|--------|--------|----------|--------------|---------|-------------|
| Outfall units | 500 mm | 740 mm | 142.0 kg | A 15 – F 900 | 6 units | 0020237 •   |

As special solution also with stainless steel angles (V2A, combi-fastening system not in V2A). Price on request.

## DOUBLE-SLOTTED GRATING

## DI

AQUA\*

- + Black dip-painted
- + 8 M12/A2 bolts per meter
- + 8 Easylock fasteners per meter (alternatively)
- + Anti-slip classification R11/V10



| LENGTH | WIDTH  | HEIGHT | WEIGHT  | INLET OPENING   | INLET CROSS SECTION     | LOAD CLASS ACC. TO EN 1433 | PALLET   | ARTICLE NO. BOLT FASTENING | ARTICLE NO. EASYLOCK |
|--------|--------|--------|---------|-----------------|-------------------------|----------------------------|----------|----------------------------|----------------------|
| 500 mm | 287 mm | 30 mm  | 8.4 kg  | 2x SW 110/18 mm | 1114 cm <sup>2</sup> /m | A 15 – D 400               | 60 units | 0020274 •                  | 0020274e •           |
| 500 mm | 287 mm | 30 mm  | 9.1 kg  | 2x SW 110/18 mm | 1105 cm <sup>2</sup> /m | A 15 – E 600               | 60 units | 00202751 •                 | 00202751e •          |
| 500 mm | 287 mm | 30 mm  | 12.3 kg | 2x SW 110/18 mm | 1104 cm <sup>2</sup> /m | A 15 – F 900               | 60 units | 00202781 •                 | –                    |

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

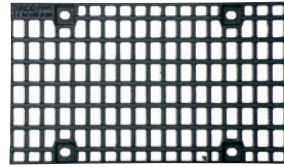
• On stock, \* BIRCO product group, SW = slot width | Exception up to D 400: Not for use across the carriageway of highways or motorways.

Dimensions and weights may vary slightly.

## MESH GRATING | DI

AQUA\*

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



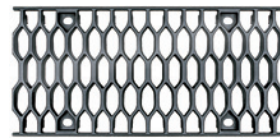
| LENGTH | WIDTH  | HEIGHT | WEIGHT  | INLET<br>OPENING | INLET<br>CROSS SECTION  | LOAD CLASS<br>ACC. TO EN 1433 | PALLET   | ARTICLE NO.<br>BOLT FASTENING | ARTICLE NO.<br>EASYLOCK |
|--------|--------|--------|---------|------------------|-------------------------|-------------------------------|----------|-------------------------------|-------------------------|
| 500 mm | 287 mm | 30 mm  | 12.7 kg | MW<br>20/30 mm   | 1370 cm <sup>2</sup> /m | A 15 – E 600                  | 60 units | 0020286 •                     | 0020286e •              |

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

## HONEYCOMB GRATING | DI

AQUA\*

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



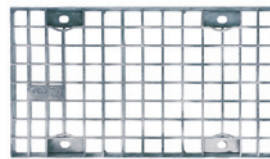
| LENGTH | WIDTH  | HEIGHT | WEIGHT  | INLET<br>OPENING | INLET<br>CROSS SECTION  | LOAD CLASS<br>ACC. TO EN 1433 | PALLET   | ARTICLE NO.<br>BOLT FASTENING | ARTICLE NO.<br>EASYLOCK |
|--------|--------|--------|---------|------------------|-------------------------|-------------------------------|----------|-------------------------------|-------------------------|
| 500 mm | 287 mm | 30 mm  | 11.1 kg | MW<br>24/72 mm   | 1995 cm <sup>2</sup> /m | A 15 – E 600                  | 60 units | 0020279 •                     | 0020279e •              |
| 500 mm | 287 mm | 30 mm  | 13.9 kg | MW<br>20/75 mm   | 1640 cm <sup>2</sup> /m | A 15 – F 900                  | 60 units | 0020280 •                     | –                       |

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

## MESH GRATING | HOT-DIP GALVANISED STEEL

AQUA\*

- + 4 M12/A2 bolts per grating
- + 4 Easylock fastenings per grating (alternatively)



| LENGTH  | WIDTH  | HEIGHT | WEIGHT  | INLET<br>OPENING | INLET<br>CROSS SECTION  | LOAD CLASS<br>ACC. TO EN 1433 | PALLET   | ARTICLE NO.<br>BOLT FASTENING | ARTICLE NO.<br>EASYLOCK |
|---------|--------|--------|---------|------------------|-------------------------|-------------------------------|----------|-------------------------------|-------------------------|
| 500 mm  | 287 mm | 30 mm  | 6.7 kg  | MW<br>30/30 mm   | 2046 cm <sup>2</sup> /m | A 15 – C 250                  | 50 units | 0020262 •                     | 0020262e •              |
| 1000 mm | 287 mm | 30 mm  | 12.8 kg | MW<br>30/30 mm   | 2046 cm <sup>2</sup> /m | A 15 – C 250                  | 50 units | 0020252 •                     | 0020252e •              |

## BLIND GUIDE SYSTEM GRATING | DI | GUIDING STRIPES SURFACE

AQUA\*

- + Black dip-painted
- + 8 M12 inbus bolts per meter
- + 8 Easylock fasteners per meter (alternatively)
- + Conforming to standards: DIN 32984 2020-12
- + Certified acc. to DIN 18040-3 and DIN 32975
- + Anti-slip classification R10/V10



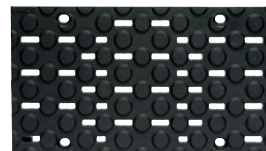
| LENGTH | WIDTH  | HEIGHT | WEIGHT  | INLET<br>OPENING | INLET<br>CROSS SECTION | LOAD CLASS<br>ACC. TO EN 1433 | PALLET   | ARTICLE NO.<br>BOLT FASTENING | ARTICLE NO.<br>EASYLOCK |
|--------|--------|--------|---------|------------------|------------------------|-------------------------------|----------|-------------------------------|-------------------------|
| 500 mm | 287 mm | 30 mm  | 12.8 kg | SW<br>46/10 mm   | 409 cm <sup>2</sup> /m | A 15 – D 400                  | 60 units | 0020283 •                     | 0020283e •              |

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

## BLIND GUIDE SYSTEM GRATING | DI | TACTILE SURFACE

AQUA\*

- + Black dip-painted
- + 8 M12/A2 bolts per meter
- + Conforming to standards: DIN 32984 2020-12
- + Certified acc. to DIN 18040-3 and DIN 32975



| LENGTH | WIDTH  | HEIGHT | WEIGHT  | INLET<br>OPENING | INLET<br>CROSS SECTION | LOAD CLASS<br>ACC. TO EN 1433 | PALLET   | ARTICLE NO.<br>BOLT FASTENING | ARTICLE NO.<br>EASYLOCK |
|--------|--------|--------|---------|------------------|------------------------|-------------------------------|----------|-------------------------------|-------------------------|
| 500 mm | 287 mm | 30 mm  | 13.4 kg | SW<br>34/10 mm   | 202 cm <sup>2</sup> /m | A 15 – D 400                  | 60 units | 0020284 •                     | –                       |

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

# BIRCOsir® Accessories

## NW 100 – 200 AS

Stability and diversity

### ENDS CAPS FOR NW 100 | GALVANISED STEEL

AQUA\*

| DESIGNATION                             | WIDTH  | FOR HEIGHT   | WEIGHT | ARTICLE NO. |
|-----------------------------------------|--------|--------------|--------|-------------|
| End cap, No. 0/0 – 2                    | 200 mm | 180 – 200 mm | 0.4 kg | 020090 •    |
| End cap, No. 3 – 4                      | 200 mm | 200 – 220 mm | 0.5 kg | 020091 •    |
| End cap, No. 5 – 6                      | 200 mm | 220 – 240 mm | 0.6 kg | 020092 •    |
| End cap, No. 7 – 8                      | 200 mm | 240 – 260 mm | 0.6 kg | 020093 •    |
| End cap, No. 9 – 10/0                   | 200 mm | 260 – 280 mm | 0.7 kg | 020094 •    |
| End cap, No. 15/0                       | 200 mm | 330 mm       | 0.9 kg | 020097 •    |
| End cap for shallow channel, height 100 | 200 mm | 100 mm       | 0.3 kg | 030040 •    |
| End cap for shallow channel, height 150 | 200 mm | 150 mm       | 0.4 kg | 030041 •    |
| End cap with outlet DN 110, No. 0/0     | 200 mm | 180 mm       | 0.8 kg | 020045 •    |
| End cap with outlet DN 110, No. 5/0     | 200 mm | 230 mm       | 0.9 kg | 020046 •    |
| End cap with outlet DN 110, No. 10/0    | 200 mm | 280 mm       | 1.1 kg | 020047 •    |
| End cap with outlet DN 110, No. 15/0    | 200 mm | 330 mm       | 1.4 kg | 020048 •    |

End cap No. 0/0 also available in stainless steel (V2A) on request. Prices on request.

### ENDS CAPS FOR NW 150 | GALVANISED STEEL

AQUA\*

| DESIGNATION                                   | WIDTH  | FOR HEIGHT   | WEIGHT | ARTICLE NO. |
|-----------------------------------------------|--------|--------------|--------|-------------|
| End cap, No. 0/0 – 5/0                        | 250 mm | 230 – 255 mm | 0.7 kg | 020190 •    |
| End cap, No. 6 – 10/0                         | 250 mm | 255 – 280 mm | 0.8 kg | 020191 •    |
| End cap, No. 15/0                             | 250 mm | 305 mm       | 0.9 kg | 020192 •    |
| End cap for shallow channel, height 120 – 150 | 250 mm | 120 – 150 mm | 0.5 kg | 030140 •    |
| End cap for shallow channel, height 200       | 250 mm | 200 mm       | 0.7 kg | 030141 •    |
| End cap with outlet DN 160, No. 0/0           | 250 mm | 230 mm       | 1.0 kg | 020145 •    |
| End cap with outlet DN 160, No. 5/0           | 250 mm | 255 mm       | 1.1 kg | 020146 •    |
| End cap with outlet DN 160, No. 10/0          | 250 mm | 280 mm       | 1.2 kg | 020147 •    |
| End cap with outlet DN 160, No. 15/0          | 250 mm | 305 mm       | 1.3 kg | 020148 •    |

End cap No. 0/0 also available in stainless steel (V2A) on request. Prices on request.

## ENDS CAPS FOR NW 200 AS | GALVANISED STEEL

AQUA\*

| DESIGNATION                             | WIDTH  | FOR HEIGHT   | WEIGHT | ARTICLE NO. |
|-----------------------------------------|--------|--------------|--------|-------------|
| End cap, No. 0/0 – 5/0                  | 300 mm | 310 – 335 mm | 1.2 kg | 0020240 •   |
| End cap, No. 6 – 10/0                   | 300 mm | 335 – 360 mm | 1.3 kg | 0020241 •   |
| End cap, No. 20/0                       | 300 mm | 410 mm       | 1.4 kg | 0020243 •   |
| End cap for shallow channel, height 150 | 300 mm | 150 mm       | 0.7 kg | 0030240 •   |
| End cap for shallow channel, height 200 | 300 mm | 200 mm       | 0.9 kg | 0030241 •   |
| End cap for shallow channel, height 250 | 300 mm | 250 mm       | 1.2 kg | 0030242 •   |
| End cap with outlet DN 200, No. 0/0     | 300 mm | 310 mm       | 1.8 kg | 0020245 •   |
| End cap with outlet DN 200, No. 5/0     | 300 mm | 335 mm       | 1.9 kg | 0020246 •   |
| End cap with outlet DN 200, No. 10/0    | 300 mm | 360 mm       | 2.0 kg | 0020247 •   |
| End cap with outlet DN 200, No. 20/0    | 300 mm | 410 mm       | 2.1 kg | 0020249 •   |

End cap 0/0 also available in stainless steel (V2A) on request. Prices on request.

## SILT BUCKET FOR DRAINAGE CHANNELS WITH VERTICAL DRILLING | GALVANISED STEEL

TEC\*

| DESIGNATION                            | ARTICLE NO. |
|----------------------------------------|-------------|
| Silt bucket DN 110                     | 603011 •    |
| Silt bucket DN 160                     | 603012 •    |
| Silt bucket DN 200                     | 603013 •    |
| Silt bucket for shallow channel DN 110 | 603014 •    |
| Silt bucket for shallow channel DN 160 | 603015 •    |
| Silt bucket for shallow channel DN 200 | 603021 •    |

Drilled hole on request

## ODOUR TRAP FOR OUTFALL UNITS WITH PVC PIPE SOCKET DN 110 OR 160 | PP

TEC\*

| DESIGNATION                                             | WEIGHT | ARTICLE NO. |
|---------------------------------------------------------|--------|-------------|
| Odour trap DN 110 suitable for pipe connection, 1-piece | 0.1 kg | 605013 •    |
| Odour trap DN 160 suitable for pipe connection, 1-piece | 0.2 kg | 605002 •    |

## BIRCOsir® NW 100 – 200 AS Drainage performance

The channel systems from BIRCO provide excellent drainage performance.

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

### BIRCOsir® NW 100

|          | DRAINAGE CAPACITY<br>AT THE CHANNEL END | CROSS-SECTIONAL AREA<br>AT THE CHANNEL END |
|----------|-----------------------------------------|--------------------------------------------|
| No. 0/0  | 4.9 l/sec                               | 89.0 cm <sup>2</sup>                       |
| No. 1    | 8.1 l/sec                               | 99.0 cm <sup>2</sup>                       |
| No. 2    | 9.2 l/sec                               | 109.0 cm <sup>2</sup>                      |
| No. 3    | 10.2 l/sec                              | 119.0 cm <sup>2</sup>                      |
| No. 4    | 11.3 l/sec                              | 129.0 cm <sup>2</sup>                      |
| No. 5    | 12.3 l/sec                              | 139.0 cm <sup>2</sup>                      |
| No. 5/0  | 7.7 l/sec                               | 139.0 cm <sup>2</sup>                      |
| No. 6    | 13.4 l/sec                              | 149.0 cm <sup>2</sup>                      |
| No. 7    | 14.4 l/sec                              | 159.0 cm <sup>2</sup>                      |
| No. 8    | 15.5 l/sec                              | 169.0 cm <sup>2</sup>                      |
| No. 9    | 16.6 l/sec                              | 179.0 cm <sup>2</sup>                      |
| No. 10   | 17.4 l/sec                              | 189.0 cm <sup>2</sup>                      |
| No. 10/0 | 10.5 l/sec                              | 189.0 cm <sup>2</sup>                      |
| No. 15/0 | 13.0 l/sec                              | 239.0 cm <sup>2</sup>                      |

### BIRCOsir® NW 150

|          | DRAINAGE CAPACITY<br>AT THE CHANNEL END | CROSS-SECTIONAL AREA<br>AT THE CHANNEL END |
|----------|-----------------------------------------|--------------------------------------------|
| No. 0/0  | 11.2 l/sec                              | 201.0 cm <sup>2</sup>                      |
| No. 1    | 15.9 l/sec                              | 208.5 cm <sup>2</sup>                      |
| No. 2    | 16.6 l/sec                              | 216.0 cm <sup>2</sup>                      |
| No. 3    | 17.3 l/sec                              | 223.5 cm <sup>2</sup>                      |
| No. 4    | 18.0 l/sec                              | 231.0 cm <sup>2</sup>                      |
| No. 5    | 18.8 l/sec                              | 238.5 cm <sup>2</sup>                      |
| No. 5/0  | 13.3 l/sec                              | 238.5 cm <sup>2</sup>                      |
| No. 6    | 19.5 l/sec                              | 246.0 cm <sup>2</sup>                      |
| No. 7    | 20.2 l/sec                              | 253.5 cm <sup>2</sup>                      |
| No. 8    | 20.9 l/sec                              | 261.0 cm <sup>2</sup>                      |
| No. 9    | 21.6 l/sec                              | 268.5 cm <sup>2</sup>                      |
| No. 10   | 22.4 l/sec                              | 276.0 cm <sup>2</sup>                      |
| No. 10/0 | 15.3 l/sec                              | 276.0 cm <sup>2</sup>                      |
| No. 15/0 | 17.0 l/sec                              | 313.5 cm <sup>2</sup>                      |

### BIRCOsir® NW 100 SHALLOW CHANNEL

| HEIGHT | DRAINAGE CAPACITY<br>AT THE CHANNEL END | CROSS-SECTIONAL AREA<br>AT THE CHANNEL END |
|--------|-----------------------------------------|--------------------------------------------|
| 100 mm | 1.9 l/sec                               | 33.6 cm <sup>2</sup>                       |
| 150 mm | 4.1 l/sec                               | 73.6 cm <sup>2</sup>                       |

### BIRCOsir® NW 150 SHALLOW CHANNEL

| HEIGHT | DRAINAGE CAPACITY<br>AT THE CHANNEL END | CROSS-SECTIONAL AREA<br>AT THE CHANNEL END |
|--------|-----------------------------------------|--------------------------------------------|
| 120 mm | 3.7 l/sec                               | 66.2 cm <sup>2</sup>                       |
| 150 mm | 6.2 l/sec                               | 111.2 cm <sup>2</sup>                      |
| 200 mm | 10.4 l/sec                              | 186.2 cm <sup>2</sup>                      |

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 which will provide you with a draft proposal.

## BIRCOsir® NW 200 AS

|          | DRAINAGE CAPACITY<br>AT THE CHANNEL END | CROSS-SECTIONAL AREA<br>AT THE CHANNEL END |
|----------|-----------------------------------------|--------------------------------------------|
| No. 0/0  | 20.4 l/sec                              | 367.0 cm <sup>2</sup>                      |
| No. 1    | 36.5 l/sec                              | 386.0 cm <sup>2</sup>                      |
| No. 2    | 37.7 l/sec                              | 396.0 cm <sup>2</sup>                      |
| No. 3    | 38.8 l/sec                              | 406.0 cm <sup>2</sup>                      |
| No. 4    | 40.0 l/sec                              | 416.0 cm <sup>2</sup>                      |
| No. 5    | 41.1 l/sec                              | 426.0 cm <sup>2</sup>                      |
| No. 5/0  | 23.2 l/sec                              | 426.0 cm <sup>2</sup>                      |
| No. 6    | 42.3 l/sec                              | 436.0 cm <sup>2</sup>                      |
| No. 7    | 43.5 l/sec                              | 446.0 cm <sup>2</sup>                      |
| No. 8    | 44.6 l/sec                              | 456.0 cm <sup>2</sup>                      |
| No. 9    | 45.8 l/sec                              | 466.0 cm <sup>2</sup>                      |
| No. 10   | 47.0 l/sec                              | 476.0 cm <sup>2</sup>                      |
| No. 10/0 | 26.0 l/sec                              | 476.0 cm <sup>2</sup>                      |
| No. 20/0 | 31.5 l/sec                              | 576.0 cm <sup>2</sup>                      |

## BIRCOsir® NW 200 AS SHALLOW CHANNEL

| HEIGHT | DRAINAGE CAPACITY<br>AT THE CHANNEL END | CROSS-SECTIONAL AREA<br>AT THE CHANNEL END |
|--------|-----------------------------------------|--------------------------------------------|
| 150 mm | 5.4 l/sec                               | 97.9 cm <sup>2</sup>                       |
| 200 mm | 11.7 l/sec                              | 211.0 cm <sup>2</sup>                      |
| 250 mm | 17.3 l/sec                              | 312.0 cm <sup>2</sup>                      |

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.