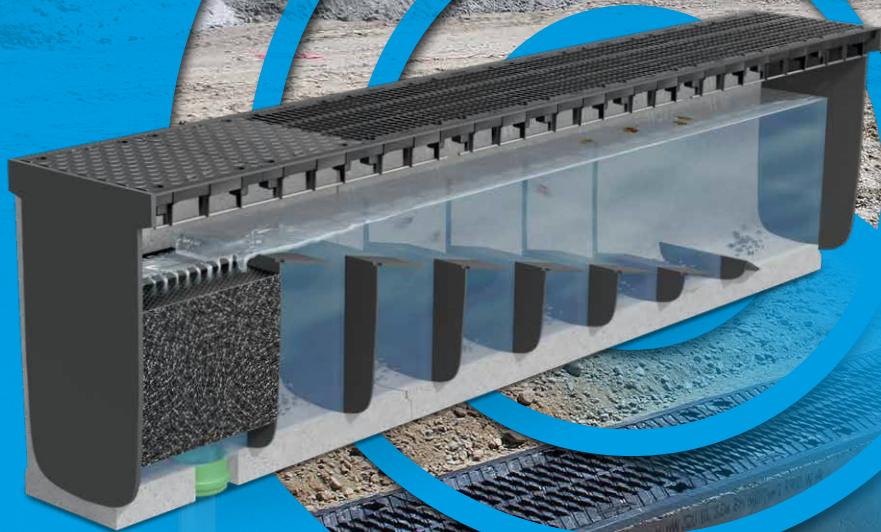


BIRCOprime[®] evo

The 2-in-1 rainwater treatment system



BECAUSE WATER
IS PRECIOUS.



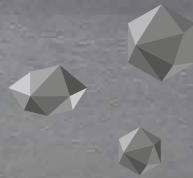
FIRST SEDIMENTATION. THEN FILTRATION.

Ideal for category III surfaces in accordance with DWA-A 102

Rainwater can be contaminated with pollutants that should not enter our reservoirs and groundwater. Many of these pollutants are bound to particles and are present as filterable substances in sizes below 63 micrometres, which can no longer be separated by conventional sedimentation.

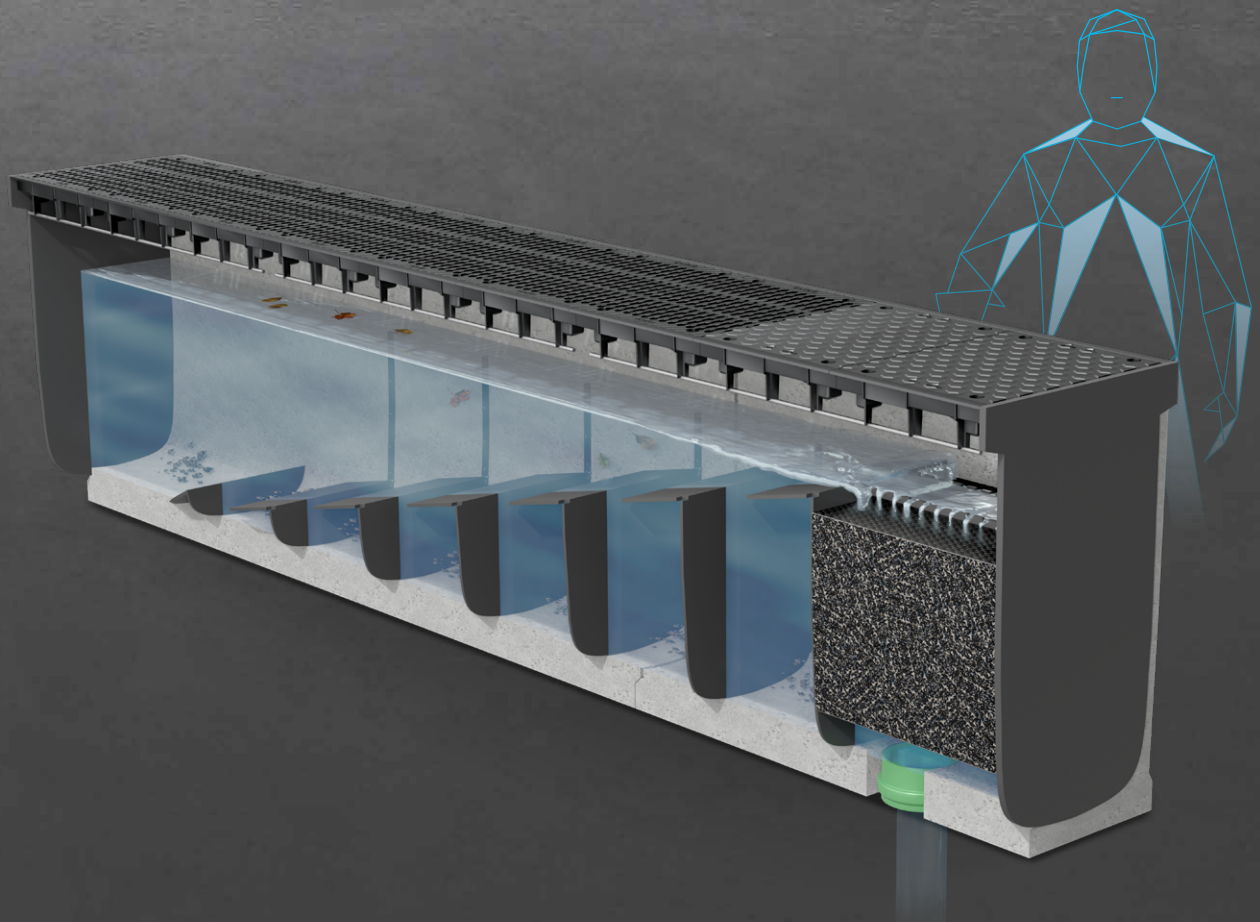
BIRCOprime[®] evo CLEANS THE RAIN-
WATER AND REMOVES THE FOLLOWING
SUBSTANCES:

- + Filterable substances (up to AFS63)
- + Tyre abrasion
- + Microplastics
- + Mineral oil hydrocarbons (MKW)
- + Polycyclic aromatic hydrocarbons (PAHs)
- + Heavy metals (e.g. zinc, copper)



APPLICATION AREAS

- + Heavily frequented roads and industrial areas
- + Heavily frequented car parks
- + Logistics centres
- + Construction and commercial areas
- + Suitable for treatment of areas according to cat. III (DWA-A 102)
- + Suitable for connection areas categorised in D11/D12 in accordance with DWA-M 153

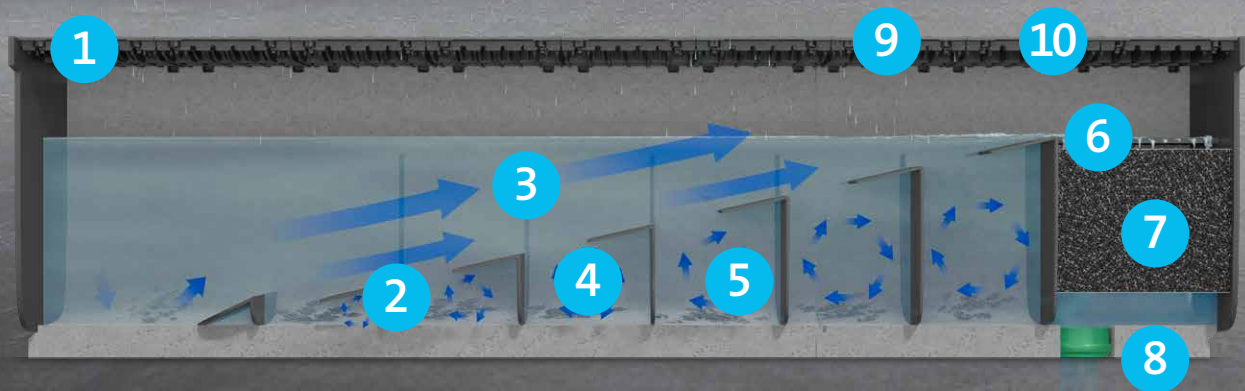


BIRCOprime® evo

First-class sedimentation and filtration, all along the drainage

Maximum retention, maximum sedimentation: With BIRCOprime® evo, BIRCO introduces a rainwater treatment system that cleans the water while it flows off. First, the particle sedimentation takes place invisibly directly inside the drainage channel system. This is because sedimentation in BIRCOprime® takes place via a weir system that is integrated into the channel – without any chemical or biological treatment at all. Immediately afterwards, the system also filters out non-sedimentable pollutants, which ensures thorough purification.

And this is how BIRCOprime® evo works: The water is channelled over rising weirs. In the process, sediments settle between the weir elements in the sedimentation chambers and are effectively retained. The rainwater that has been freed of solids is then channelled through the filter granulate. Adsorption and precipitation remove dissolved organic and inorganic pollutants from the water. Another advantage of BIRCOprime® evo is its low-maintenance design. Depending on the connection area and the level of surface contamination, maintenance is only necessary every 5 years and is very easy to carry out.



1 DECENTRALISED OR SEMI-CENTRALISED INLET

2 WEIR 1-6 (BASE WEIRS)

3 LAMINAR FLOW

4 MIN. TURBULENT FLOW

5 SEDIMENTATION CHAMBER

6 OVERFLOW WEIR

7 FILTER SUBSTRATE

8 OUTLET

9 SLOTTED DI GRATINGS

10 SOLID DI GRATINGS

EFFECTIVE TREATMENT

Clear arguments & convincing benefits

- + Solids (AFS 63) and particulate-bound pollutants are removed
- + Sedimentation chambers with overflow weirs (designed as „1“ shape) effectively retain solids. Only minimal remobilisation even during heavy rainfall events
- + The rainwater that has been freed of solids is channelled through the filter granulate. Adsorption and precipitation remove dissolved organic and inorganic pollutants from the water
- + The purified water can now be used as process water, discharged into flowing waters or infiltrated into the ground
- + Simple inspection and maintenance (maintenance intervals of up to 5 years, depending on pollutant loads/connected area)
- + Operator-friendly maintenance and cleaning due to modular system design and access directly from the surface
- + Quick installation, factory assembly and installation to EN1433 Type I standard

Wherever the water comes from, it is purified

Decentralised rainwater treatment

The rainwater flows into the rainwater treatment system on site via the slotted gratings and is then cleaned.



Semicentralised rainwater treatment

The rainwater that has already been collected is fed into the rainwater treatment system via a pipe or channel and then cleaned.



Vertical outlet

The cleaned rainwater is discharged vertically via a pipe.

**TECHNICAL DATA**

INLET	OUTLET	LENGTH	WIDTH AT TOP/ AT BOTTOM	HEIGHT AT TONGUE/ AT GROOVE	LOAD CLASS EN 1433*	ART. NO.
Via gratings	vertical	4500 mm	701/740 mm	1200/1200 mm	A 15 – E 600	070030
Via channel	vertical	4500 mm	701/740 mm	1200/1200 mm	A 15 – E 600	070031
Via pipe	vertical	4500 mm	701/740 mm	1200/1200 mm	A 15 – E 600	070032

* Also available in F 900 class on demand

BIRCOprime® evo | PRODUCT INFORMATION

<https://www.birco.com/rainwater-management/treatment/bircoprime-evo/>



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BIRCOprime® evo



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instagram.com/birco_drainage

Deutsches
Institut
für
Bautechnik

DIBt



Mitglied der
DGNB

Deutsche Gesellschaft für Nachhaltiges Bauen
German Sustainable Building Council

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