



GRASPOINTNER
Sustainable innovation.



The best things
are made from
the same mould.

BG-FILCOTEN[®]
one urban

The monolithic
drainage system

FILCOTEN[®] HPC:

Just like concrete, only better.

The 100% mineral high-performance concrete FILCOTEN[®] HPC is an enhanced form of traditional concrete. Its engineering and ecological properties are achieved without the use of any styrenes, synthetic fibres or polymers. The optimised high-density structure of HPC makes it possible to construct highly stable lightweight drainage channels – but it's the idea behind it that makes it unique.



Minimal weight

- FILCOTEN[®] HPC enables lightweight construction
- Quick and easy to install
- Dimensionally stable, robust concrete elements



Perfect hold in the concrete bed

- Ideal expansion coefficient, identical to that of the surrounding concrete



High drainage performance

- Low water absorption and penetration
- Smooth channel surface for high drainage performance and optimal self-cleaning effect



Resistant to extreme temperatures and UV light

- Maximum resistance to frost and de-icing salt
- UV resistant



Fireproof

- Non-combustible building material – Class A1
- Therefore emits no toxic smoke



Maximum robustness

- Unsurpassed stability and durability
- High pressure resistance, clearly exceeding the requirements of EN 1433 for concrete channels





EPD (environmental product declaration)

- Verified ecological transparency
- In acc. with ISO 14025 and EN 15804:A2
- Ideal for sustainable construction projects



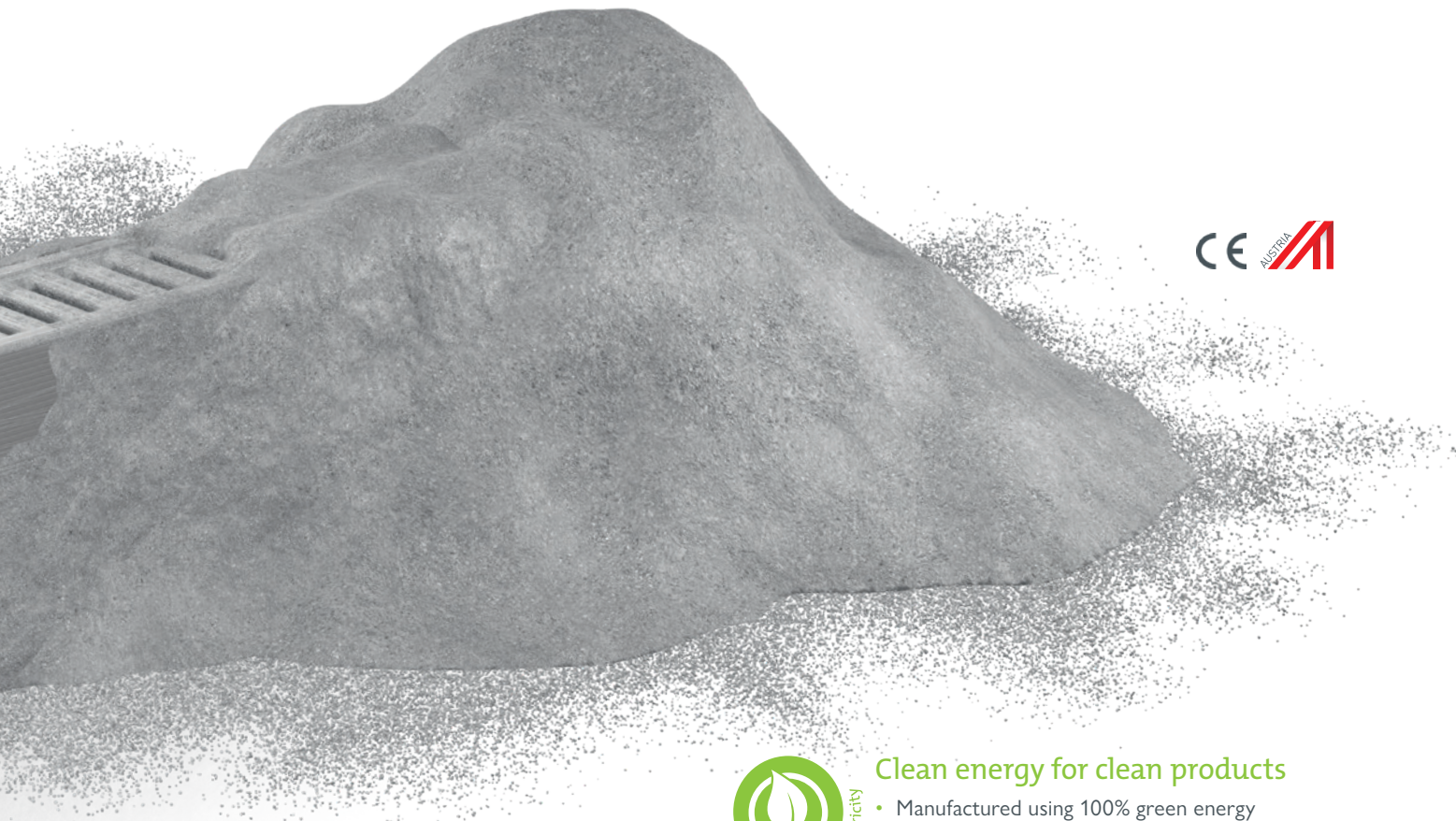
Resource efficiency

- 100% recyclable, certified
- Quality class U-A ³⁾



Sustainable production

- Resource-efficient manufacturing process
- Up to 70%⁴⁾ less sand and gravel
- Up to 55%⁴⁾ less cement
- Up to 51%⁴⁾ less water



Clean energy for clean products

- Manufactured using 100% green energy
- Approx. 18% from in-house photovoltaic plant
- No fossil fuels used whatsoever



Certified for sustainability and tested for hazardous substances

- Certified environmental and energy management to ISO 14001 or 50001 standards at the location in Oberwang/AT
- Certified biologically sound construction material that meets the stringent testing criteria of the IBR, the Institut für Baubiologie Rosenheim GmbH, for heavy metals, VOCs, biocides and radioactivity; styrene-free ¹⁾
- Certified ²⁾ in acc. too KIWA BRL 5070

¹⁾ Free of synthetic resins. ²⁾ KIWA certificate no. NL BSB® K43940.

³⁾ Certified by the Salzburg Institute for Construction Engineering Research (bvfs)

⁴⁾ Compared to a comparable product made of concrete. | As of 27.02.2025



Goodbye greenwashing, hello full transparency.

Today, many companies claim sustainability credentials¹⁾, but the key question is: how much of this environmental protection is just a green facade?

Full transparency – nature deserves it.

BG-FILCOTEN® drainage systems undergo a **verified life cycle assessment¹⁾ (LCA)** in compliance with **ISO 14040 & ISO 14044**, which comprehensively evaluates the entire product life cycle — from raw material extraction to production and disposal. The **environmental impacts** determined in the process, such as carbon footprint, energy consumption and resource efficiency, are documented transparently in **EPDs¹⁾ (Environmental Product Declarations)** in accordance with EN 15804:A2 and verified by independent experts. This enables **objective comparability** with other products and supports sustainable construction, using clear, fact-based environmental information.



Product life cycle

Phases A1-A4



A1 Raw material sourcing

Extraction and purchase of resources or raw materials.

GWP ²⁾ = 71.21 %



A2 Transportation

Delivery of resources and raw materials from the supplier to the manufacturer.

GWP ²⁾ = 4.67 %



A3 Production

Production of the product by the manufacturer.

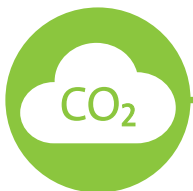
GWP ²⁾ = 5.84 %



A4 Transportation

Delivery of the product from the manufacturer to the customer.

GWP ²⁾ = 18.29 %



Total GWP ²⁾ (Global Warming Potential)

Total global warming potential of phases A1 – A4.

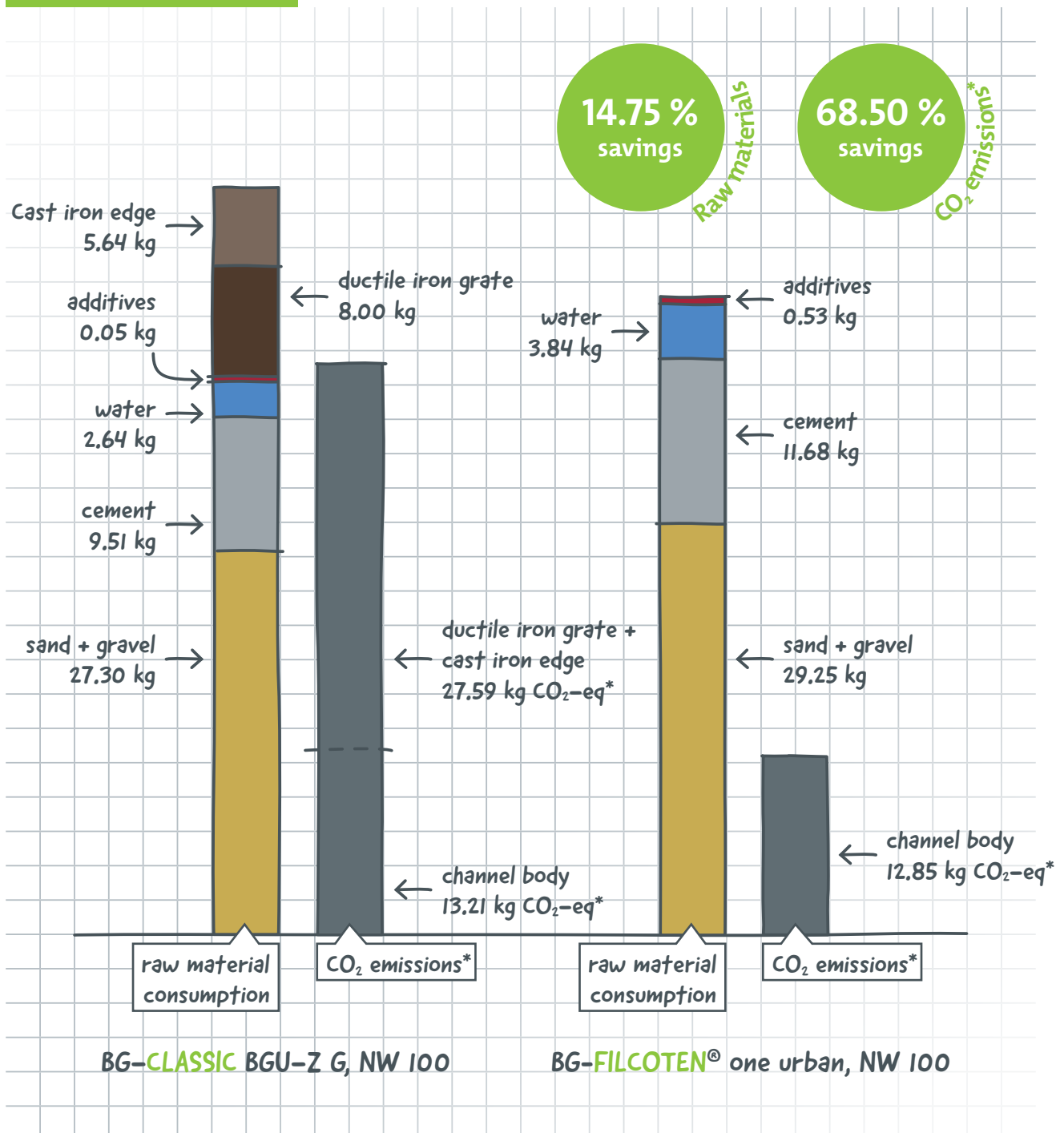
100 % = 12.85 kg CO₂-eq

²⁾ The GWP values are based on a meter of the BG-FILCOTEN® one urban NW 100. | As of 27.02.2025

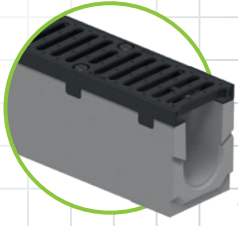

Less raw material consumption fewer CO₂ emissions.

Because sustainability and climate protection start with the material...

A comparison of FILCOTEN® HPC with conventional concrete shows how resources in construction projects can be saved while also having the capacity to significantly reduce CO₂ emissions.



Simply effective and sustainable: The FILCOTEN® HPC formula ...

	NW 100	Global warming potential A1 – A4 (500 km Transport)	Total global warming potential for A1 – A4 500 m of channel run***
	BG-CLASSIC BGU-Z G	40.80 kg CO ₂ -eq*	20,400 kg CO ₂ -eq*
	BG-FILCOTEN® one urban	12.85 kg CO ₂ -eq*	– 6,425 kg CO ₂ -eq*
			<u><u>= 13,975 kg CO₂-eq</u></u>

A saving of **13,975 kg CO₂** equivalent equals...



..... 56,215 km

...approx. 56,215 km journey of a diesel passenger car (248.6 g/km CO₂-eq)**



..... 12,983 km

...approx. 12,983 km journey of a 40 tonne semitrailer truck (1,076.4 g/km CO₂-eq)**

*) Value basis: Modules A1-A4 from the respective product-specific EPD of BG-Graspointner (A4 = 500 km transport scenario), declared unit corresponds to one meter of channel, calculated in accordance with EN 15804:A2, provided by EPD generator EMIDAT GmbH – www.emidat.com

**) Source: Emission figures of the Austrian Federal Environment Agency, database 2021. Figures used consider total emissions, including statistically average occupancy rates.

**) Assuming a distance of 500 km to the construction site. | As of 27.02.2025

Monolithic, versatile, unique.



BG-FILCOTEN[®] one urban

The BG-FILCOTEN[®] one family has a new addition. And, just like any other family, the BG-FILCOTEN[®] one urban is a totally novel, new arrival on the market. With manifold innovations and a D 400 load class all rolled into one, it offers up a ton of useful features – making it the perfect all-rounder for urban spaces.

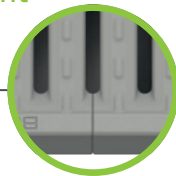
Areas of application:

- | | |
|-------------------------------------|----------------------|
| • Garden and landscape construction | • bicycle paths |
| • sports facility | • parking area (car) |
| • pedestrian zones | • inner-city streets |

Class D 400

Inflow opening in the channel joint

Inlet opening in the joint with standard slot width for ideal water drainage



Tenon system for non-directional installation

- non-directional channel joint for easy and fast installation
- Interlocking tenon system for snug, truly-aligned positioning of elements
- predefined distance in the joint for optimum function of the insertable sealing profile

A sealing system¹⁾ which is easy to use

- preformed groove on the front/end sides for easy insertion of the sealing profile
- permanently sealed joints, guided by the tenon system
- requirements according to EN 1433



High-performance

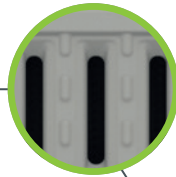
High, large-capacity channel body for enhanced drainage performance



GRASPOINTNER
Sustainable innovation.

Cyclist- and pedestrian-friendly

- grippy, anti-skid pimple surface for pedestrian zones
- safe driving over and walking on due to optimised slot widths: NW 100 = 10 mm, NW 150 = 12 mm, NW 200 = 15 mm
- slot widths according to EN 1433



Integrates fully with the surrounding environment

Surface in characteristic concrete colour

Optimised inlet surface

Recessed inflow openings and pimple surface for enhanced water collection performance and winter road services

Monolithic structure

- element made entirely of FILCOTEN® HPC
- extremely robust and wear resistant
- ideal for dynamic exposure in road traffic

Verified LCA (life cycle assessment)

- low greenhouse gas emission levels
- manufactured with 100% green power
- resource-efficient manufacturing process

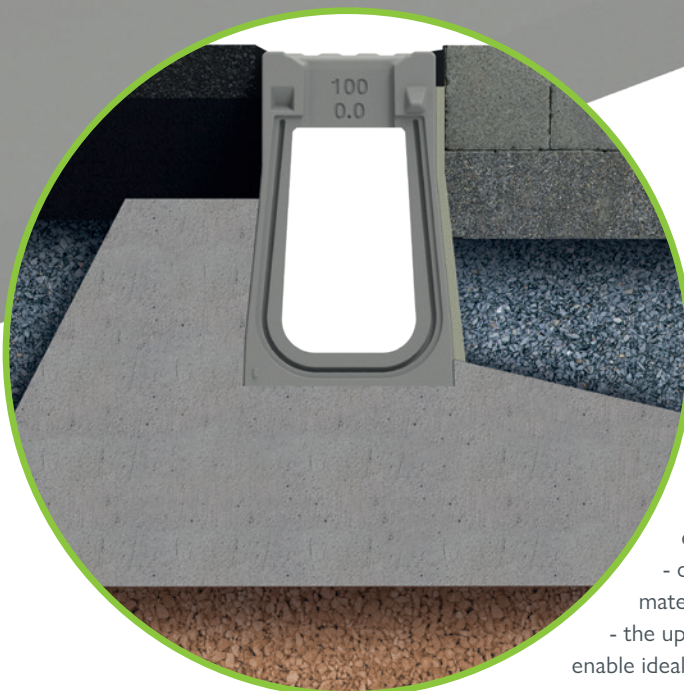
Multiple certifications

- 100% recyclable, certified quality class U-A⁴⁾
- certified organic material that meets the strict testing criteria of the Institute for Biologically Sound Construction Rosenheim (IBR) with regard to heavy metals, VOCs, biocides and radioactivity, styrene-free²⁾
- certified³⁾ in acc. with KIWA BRL 5070



Re-designed; multiple benefits: The trapezoidal shape

- enhanced anchoring performance in levelling concrete
- optimised structural safety; can be installed as Type I – with so-called Type I installation, no concrete casings are required
- wide channel foot for solid positioning of the gutter, even during installation
- due to its very construction, the required grouting joint automatically materialises when installing in curb stone areas or upright areas
- the upper 90 mm of the channel wall are vertical in order to enable ideal working with pavement covering



¹⁾ Optional sealing profile.

²⁾ No use of synthetic resins.

³⁾ KIWA certificate number: NL BSB® K43940.

⁴⁾ Quality class U-A (certified by the Bautechnische Versuchs- und Forschungsanstalt Salzburg (bvfs)).

Well thought-out elements make an outstanding system.

Class D 400

What is a good drainage system all about? Quite simply, it must be more than the sum of its parts. When developing BG-FILCOTEN® one urban, from the start, we always focused on the entire system, not just on the individual single parts.

Intelligent solutions for your requirements

The result is a vast number of intelligent solutions that provide greater efficiency, performance and, above all, easy and safe handling – from its initial installation, to daily use, all the way through to routine maintenance.

One grating – one design

- continuation of the slotted grating design for the cast iron grating
- edge and grating, cathodic dip-coated
- fiX-locking as well as 4 pointbolted possible
- class D 400

Sump unit, one part

- suspended silt bucket for sump unit
- total length 500 mm
- closed base
- outlet NW 100 / 150 with DN 150; NW 200 with DN 200 (pipe coupling)
- left/right rotation
- maintenance access in the style of the channel run

Outlet unit

- outlet unit NW 100 with DN 100; NW 150 with DN 150 and NW 200 available with DN 200 opening.
- the drainpipe can be serviced/cleaned through the removable grating

Revision element

- maintenance access in the style of the channel run
- T-piece with knock-out section (optional)
- total length 1,000 mm
- closed base



Sump unit, upper part

- simple cleaning of the outlet unit
- large outlet opening in the channel bottom
- suspended sediment bucket for sump unit
- T-piece with knock-out section (optional)
- total length 1,000 mm

Front cap

- interlocking
- closure of the channel run

End cap with outlet

- interlocking
- closure of the run with socket (pipe coupling)
NW 100: DN 100; NW 150: DN 150;
NW 200: DN 200

Basic channel

- NW 100, NW 150 or NW 200
- standard construction height no. 0
- total length 1,000 mm

Sump unit, bottom part

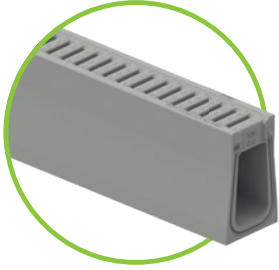
- socket (pipe coupling)
NW 100 / 150: DN 150;
NW 200: DN 200
- left/right rotation

Sustainability in action:

FILCOTEN® HPC (High Performance Concrete)

- cement-bound, mineral material
- extremely durable, stable and UV-resistant
- extremely resistant to frost, de-icing salt, oil, gasoline
- 100 % recyclable, certified ¹⁾
- certified environmental and energy management according to ISO 14001 or 50001 at the location of Oberwang/AT
- tested by the IBR ²⁾, safe in terms of sustainable building

¹⁾ According to the guidelines of the Austrian Construction Material Recycling Association. ²⁾ Institute of IBR Rosenheim.



BG-FILCOTEN® one urban, NW 100

Monolithic channel made of FILCOTEN® HPC (High Performance Concrete) up to class D

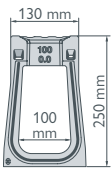
Item no.	Monolithic channel body up to class D – no slope	Cl. acc. EN 1433	Weight	Pcs./Pallet
15110100	one urban NW 100, no. 0, L = 1000 mm, SW 10/70 mm	D 400	44.0 kg	15

BG-FILCOTEN® one urban, NW 100: Inlet cross-section 195 cm²/m | Discharge cross-section 100/0: 155 cm²/m

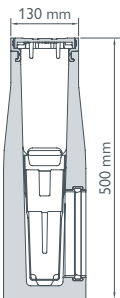
Accessories

for BG-FILCOTEN® one urban, NW 100

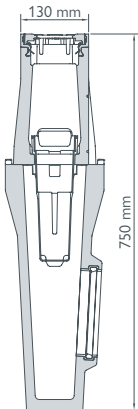
Item no.	Accessories	Cl. acc. EN 1433	Weight
15110000	Corner element, variable, NW 100	D 400	36.3 kg
15110180	Maintenance unit NW 100, no. 0, L = 1000 mm incl. ductile iron grating ¹⁾	D 400	41.8 kg
15110190	Outlet element NW 101, no. 0, L = 1000 mm incl. ductile iron grating, with DN 100 drill hole ¹⁾	D 400	41.6 kg
15110170	Sump unit, one-piece, NW 100, no. 0, L = 500 mm incl. ductile iron grating, silt bucket, DN 150 outlet ¹⁾	D 400	43.8 kg
15110175	Sump unit upper section NW 101, no. 0, L = 1000 mm incl. ductile iron grating ¹⁾	D 400	40.0 kg
19110095	Sump unit bottom section, NW 101, DN 150 outlet		30.0 kg
19110100	Front cap, NW 100, no. 0, without outlet		1.8 kg
19110110	End cap NW 100, no. 0, with DN 100 outlet		1.4 kg
19110900	Lifting hook (consisting of 2 pcs.) NW 100, painted blue		0.4 kg
19000707	Sealing profile one urban, NW 100		0.1 kg
32103	pro bolting material for ductile iron gratings class D (1 pc. bolt, 1 pc. nut – 4 pcs. required per m)		
32109	pro bolting material stainless steel, for ductile iron grating class D (1 pc. bolt, 1 pc. nut – 4 pcs. required per m)		



Sump unit one part



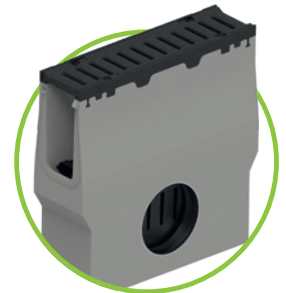
Sump unit Two-piece



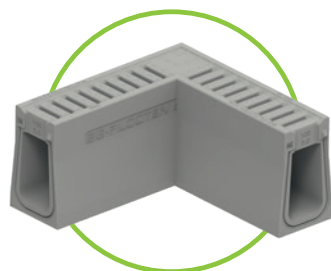
Maintenance unit or outlet element incl. ductile iron grating



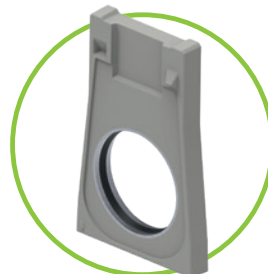
Sump unit upper and lower sections DN 150



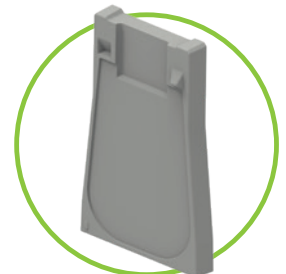
Sump unit, one-piece, incl. ductile iron grating, sediment bucket, outlet DN 150



Corner element, variable



End cap with outlet



Front cap closed

References

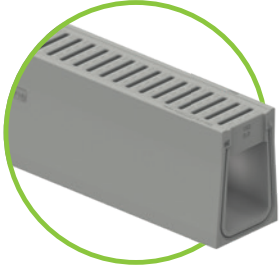


Lifting hook, painted blue
for NW 100, 2 pcs. per set



Is a joint sealing profile required?
Please say so with your order.





BG-FILCOTEN® one urban, NW 150

Monolithic channel made of FILCOTEN® HPC (High Performance Concrete) up to class D

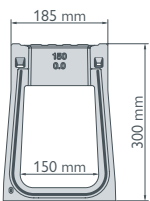
Item no.	Monolithic channel body up to class D – no slope	Cl. acc. EN 1433	Weight	Pcs./Pallet
15115100	one urban NW 150, no. 0, L = 1000 mm, SW 12/120 mm	D 400	65.7 kg	9

BG-FILCOTEN® one urban, NW 150: Inlet cross-section 320 cm²/m | Discharge cross-section 150/0: 312 cm²/m

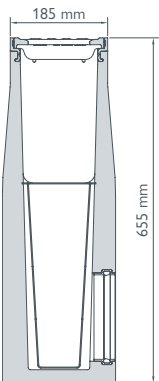
Accessories

for BG-FILCOTEN® one urban, NW 150

Item no.	Accessories	Cl. acc. EN 1433	Weight
15115000	Corner element, variable, NW 150	D 400	53.2 kg
15115180	Maintenance unit NW 150, no. 0, L = 1000 mm incl. ductile iron grating ¹⁾	D 400	60.7 kg
15115190	Outlet element NW 151, no. 0, L = 1000 mm incl. ductile iron grating, with DN 150 drill hole ¹⁾	D 400	59.8 kg
15115170	Sump unit, one-piece, NW 150, no. 0, L = 500 mm incl. ductile iron grating, silt bucket, DN 150 outlet ¹⁾	D 400	65.0 kg
15115175	Sump unit upper section NW 151, no. 0, L = 1000 mm incl. ductile iron grating ¹⁾	D 400	58.9 kg
19115095	Sump unit bottom section, NW 151, DN 150 outlet		33.8 kg
19115101	Front cap, NW 150, no. 0, without outlet		7.3 kg
19115111	End cap NW 150, no. 0, with DN 150 outlet		5.0 kg
19115902	Lifting hook (consisting of 2 pcs.) NW 150, painted red		0.5 kg
19000708	Sealing profile one urban, NW 150		0.1 kg
32103	pro bolting material for ductile iron gratings class D (1 pc. bolt, 1 pc. nut – 4 pcs. required per m)		
32109	pro bolting material stainless steel, for ductile iron grating class D (1 pc. bolt, 1 pc. nut – 4 pcs. required per m)		



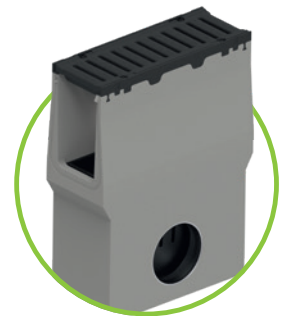
Sump unit, one part



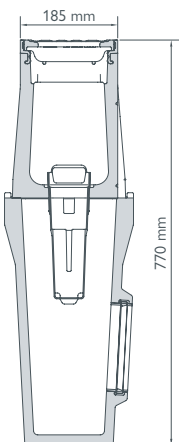
Maintenance unit or outlet element incl. ductile iron grating



Sump unit upper and lower sections
DN 150 for NW 150
DN 200 for NW 200



Sump unit, one-piece, incl. ductile iron grating, sediment bucket
outlet DN 150 for NW 150
outlet DN 200 for NW 200



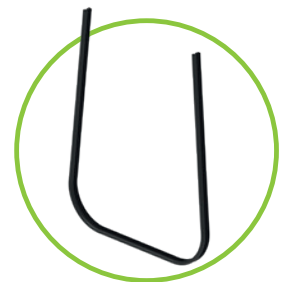
Sump unit, two-piece



Lifting hook, painted red for NW 150, 2 pcs. per set



Lifting hook, painted yellow for NW 200, 2 pcs. per set



Is a joint sealing profile required? Please say so with your order.

BG-FILCOTEN® one urban, NW 200

Monolithic channel made of FILCOTEN® HPC (High Performance Concrete) up to class D

Item no.	Monolithic channel body up to class D – no slope	Cl. acc. EN 1433	Weight	Pcs./Pallet
15120100	one urban NW 200, no. 0, L = 1000 mm, SW 15/170 mm	D 400	94.2 kg	9

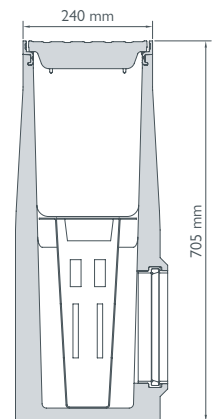
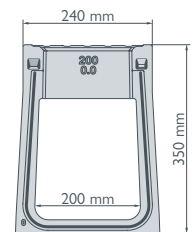
BG-FILCOTEN® one urban, NW 200: Inlet cross-section 460 cm²/m | Discharge cross-section 200/0: 410 cm²/m



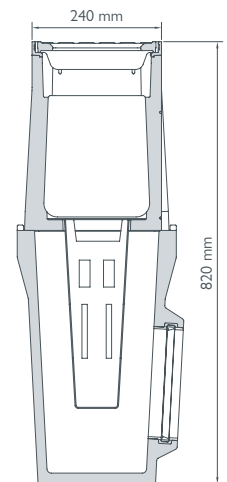
Accessories

for BG-FILCOTEN® one urban, NW 200

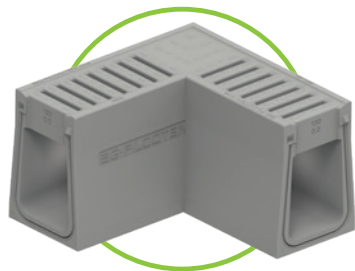
Item no.	Accessories	Cl. acc. EN 1433	Weight
15120000	Corner element, variable, NW 200	D 400	69.7 kg
15120180	Maintenance unit NW 200, no. 0, L = 1000 mm incl. ductile iron grating ¹⁾	D 400	82.5 kg
15120190	Outlet element NW 201, no. 0, L = 1000 mm incl. ductile iron grating, with DN 200 drill hole ¹⁾	D 400	80.0 kg
15120170	Sump unit, one-piece, NW 200, no. 0, L = 500 mm incl. ductile iron grating, silt bucket, DN 200 outlet ¹⁾	D 400	75.0 kg
15120175	Sump unit upper section NW 201, no. 0, L = 1000 mm, incl. ductile iron grating ¹⁾	D 400	78.8 kg
19120095	Sump unit bottom section, NW 201, DN 200 outlet		36.6 kg
19120101	Front cap, NW 200, no. 0, without outlet		11.4 kg
19120111	End cap NW 200, no. 0, with DN 200 outlet		7.4 kg
19120902	Lifting hook (consisting of 2 pcs.) NW 200, painted yellow		0.7 kg
19000709	Sealing profile one urban, NW 200		0.1 kg
32103	pro bolting material for ductile iron gratings class D (1 pc. bolt, 1 pc. nut – 4 pcs. required per m)		
32109	pro bolting material stainless steel, for ductile iron grating class D (1 pc. bolt, 1 pc. nut – 4 pcs. required per m)		



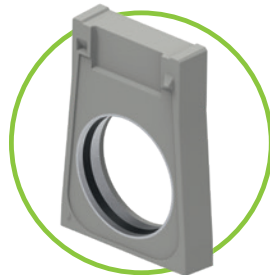
Sump unit, one part



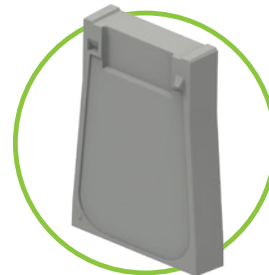
Sump unit, two-piece



Corner element, variable



End cap with outlet



Front cap closed



When environmental protection is part of the DNA ...

Sustainability

is one of the most important components of our corporate culture. This becomes obvious from our materials, manufacturing processes and energy sources. After all, we are a member of the **Climate Alliance Austria**, the country's largest climate protection network, for a reason.

Our view of entrepreneurship is not to look at the profit alone.

The company's success and development will always be closely connected to its responsibility for the community – and for the environment. After all, what good is a huge profit if you can't bare to look at yourself in the mirror at the end of the day?

Lived sustainability in all its facets.

For this reason, the sustainable use of our environment is a central element of our corporate culture. BG-Graspöckner attaches great importance to transparency.

Certified environmentally friendly production.

In the production process, we focus on maximum environmental protection, whether in the selection of raw materials or in the avoidance of unnecessary waste. With this in mind, we have implemented a certified environmental and energy management system in accordance with ISO 14001 and 50001 at our location in Oberwang, Austria.

High-performance products: with a view to protecting people and nature.

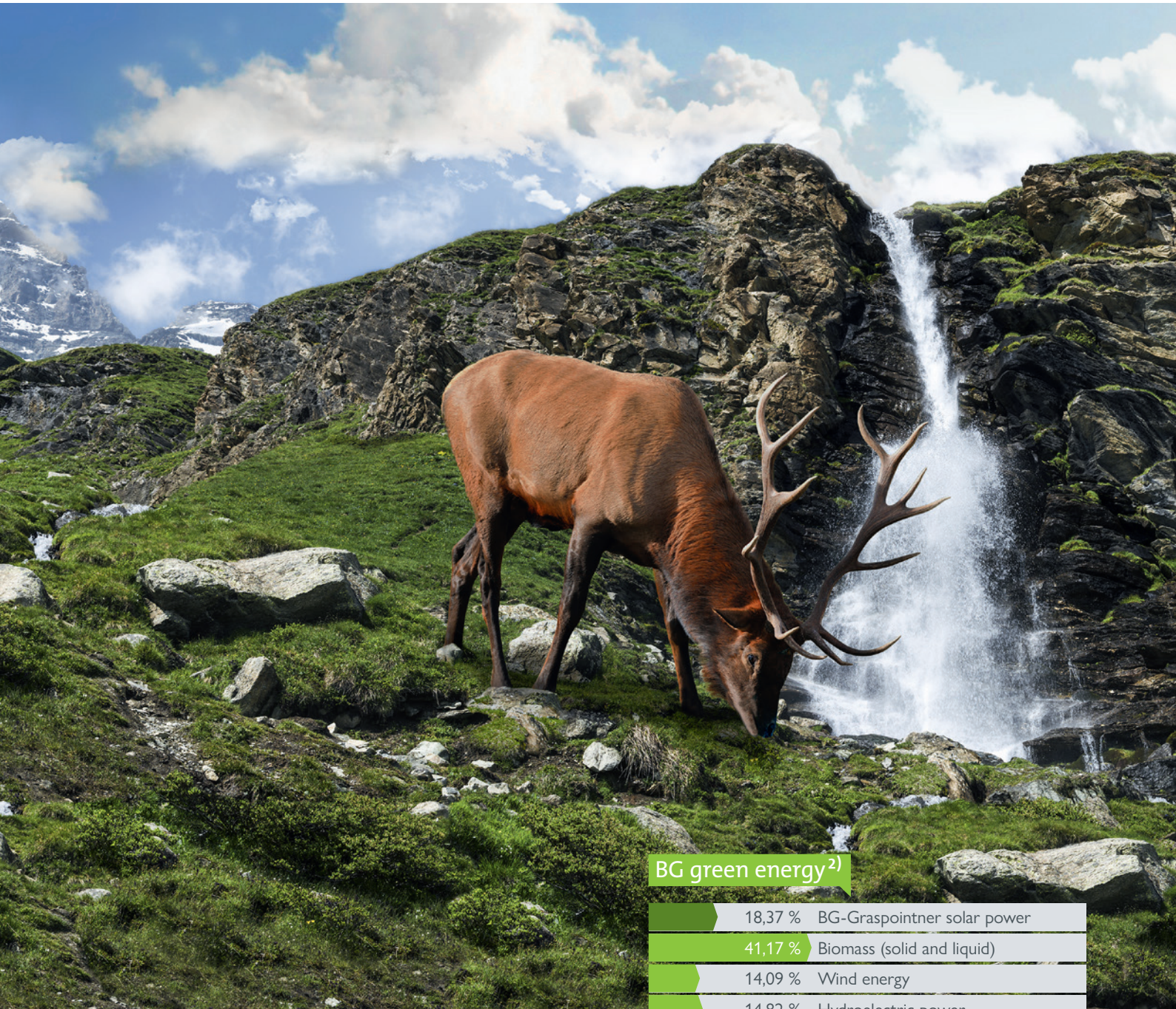
We develop our products with the aim of making them as efficient as possible. And by efficiency, we also understand that these products protect people and the environment as much as possible.

FILCOTEN® HPC as an example: environmental compatibility guaranteed.

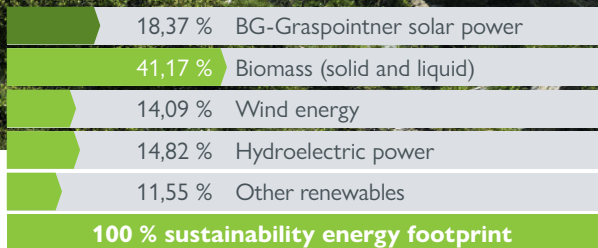
Our most innovative material, FILCOTEN® HPC, is tested for harmful substances ¹⁾ – guaranteed environmentally compatible and IBR-certified, KIWA BRL 5070 certified, 100 % recyclable, and the economical use of raw materials make FILCOTEN® HPC unique in terms of its environmental performance.



¹⁾ No use of synthetic resins.
²⁾ At the location of Oberwang/AT.



BG green energy²⁾



- Yield from own PV-system in 2023
- Data external electricity mix 2023

Sustainable to the end: We use recyclable raw materials.

Most of our products are made of mineral raw materials or metal. They are therefore 100 % recyclable and can be assigned to quality class U-A according to the certification by the Salzburg Institute for Construction Engineering Research (bvfs), a state accredited test and research facility for building constructions and building materials.

Clean energy for clean products.

We rely on the use of green energy. With our BG-FILCOTEN® channels we even use 100 % renewable energies and completely renounce fossil fuels.



General information

The following installation guidelines and installation examples are intended for standard applications. The load class and the installation location in acc. with the EN 1433 standard will need to be adapted to the local conditions by the planner. The technical rules and regulations generally recognised in expert circles must be observed during installation. In special cases, contact the BG applications engineering department.

BG-FILCOTEN® one urban

1. BG-FILCOTEN® channels are designed to be installed on a concrete foundation in line with EN 206-1 or in permeable concrete in line with RVS 08.18.01. A mortar bed (at least 2 cm thick) is imperative if the internal bottom surface of the channel is cured. Depending on the structural requirements, support concrete wedges on each side of the channel or concrete stretchers with steel reinforcement are required – see table and sectional views for details.

2. Begin by setting up the channel run at the outlet unit, ensuring that the lower part of the outlet unit is at the right height

and position to connect with the sewer pipe and the channel run. If there are several outlet units in one channel run, the lower parts of the outlet units must be installed particularly carefully at the right height and position.

3. The two front sides of a downstream channel element can be connected to the upstream element as the tongue and groove system allows for any flow direction. Which is why there is no flow direction arrow on the channels.

4. We recommend using the plug-in sealing profile on the channel element butt joints. When laying the channels, the channel joints can also be sealed with conventional sealing materials (e.g. 1-component PU-based sealing materials), the BG application engineering department will provide you with a description of the materials and determine the quantities required.

5. Before the surface layer is laid, the channel run should be protected to avoid concrete spills on the surface, e.g. with protective plastic sheeting. Avoid damaging the channels while compacting the superstructure and the pavement (asphalt, paving, concrete).

6. In the event of horizontal forces (e.g. areas of concrete, slopes, etc.), it is necessary to provide a sufficiently sized expansion joint in the area of the carriageway edge at a distance of 30 – 150 cm to the channel run (Exception: monolithic channels used in urban areas up to class D 400). Care must be taken to ensure that no forces whatsoever that may result from a temperature expansion (concrete and/or paved surfaces) can impact the channel walls. Expansion joints must be provided and installed accordingly. The same applies to cement-stabilised base layers in the superstructure. The selected joint fillers must be made of a suitable material. Expansion joints running transversely to the channel run are to be arranged in the adjacent concrete surfaces so that they run through a channel joint.

7. To prevent uncontrolled stress cracks in a concrete stretcher along a channel run, preformed crack and/or expansion joints must be added at regular intervals (in line with recognised technical rules) or as specified by a static calculation. These joints should be added at right

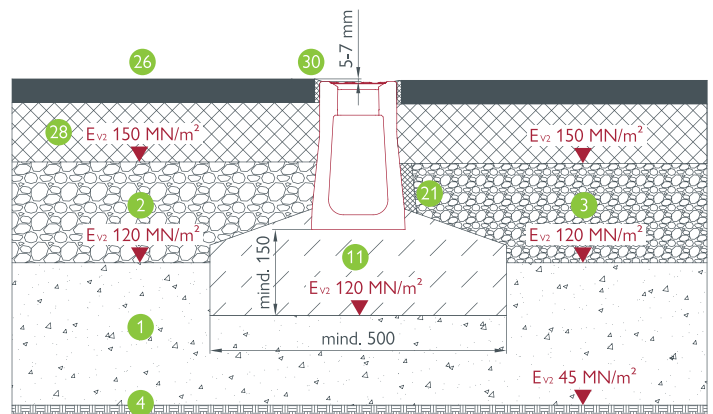
angles (along the channel section) to the channel element joints. The number of joints and their spacing also depend, for example, on the concrete quality used as well as the ambient temperatures that exist when pouring the concrete, and also on the concrete curing, and should be carried out accordingly.

8. Paved surfaces with a potential to be subject to shear forces must be force-locked to the backrest. This can be accomplished by setting the first three rows of paving slabs (along the channel run) in a mortar bed. The joints must be backfilled with mineral materials. Shear forces from the paving must not act directly on the channel walls (e.g. thermal expansion, braking forces, etc.). The respective technical guidelines for the creation of paved surfaces in bound or unbound construction must be observed accordingly.

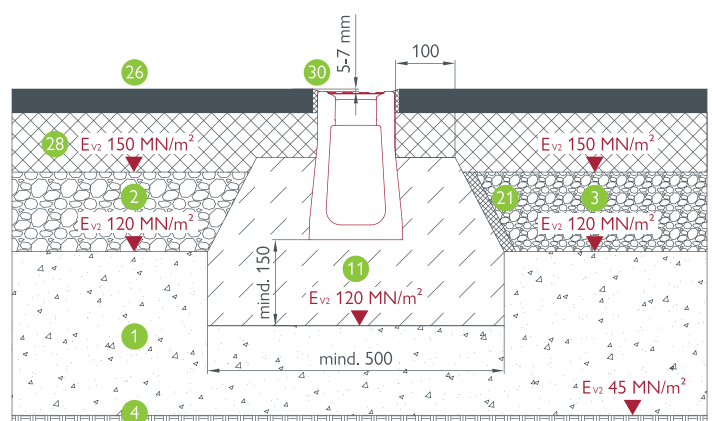
9. All adjacent surfaces should always be 3 – 5 mm higher than the surface of the channel/grating to avoid mechanical damage occurring in the channel elements (e.g. snow clearing) and to guarantee the drainage of water.

10. The same installation guidelines apply accordingly to inspection and outlet units (incl. upper/lower parts).

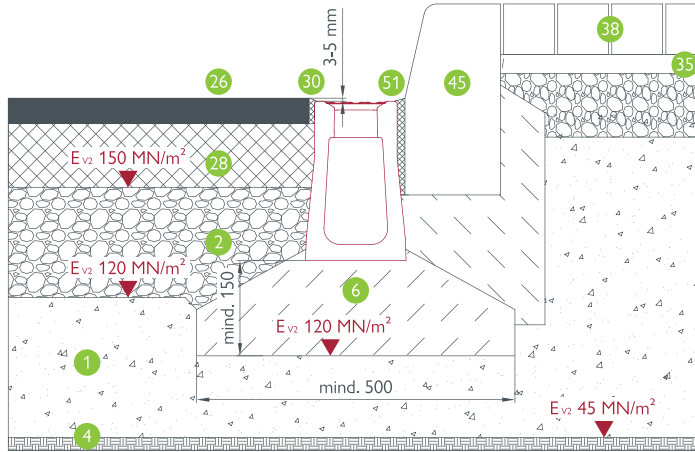
11. The channel system must be checked regularly (at least once a year) to ensure that it is free from dirt and functioning correctly and, if necessary, cleaned – especially the outlet unit, incl. silt bucket.



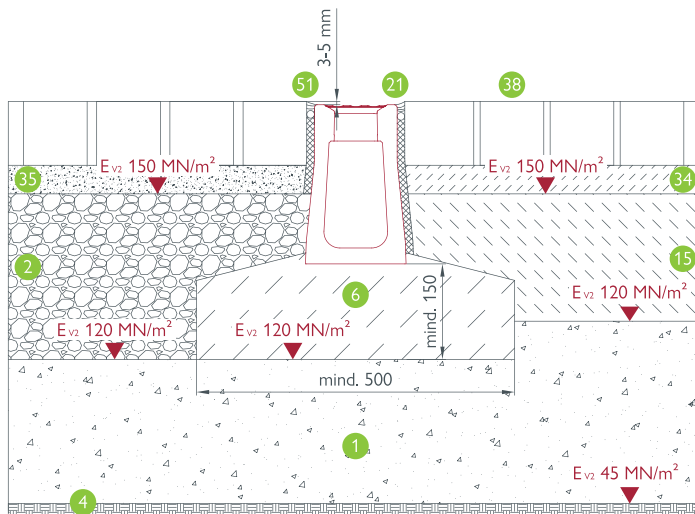
BG-FILCOTEN® one urban, NW 100: Asphalt – asphalt, class A – C



BG-FILCOTEN® one urban, NW 100: Asphalt – Asphalt, class A – D, urban area, medium wheel loads



BG-FILCOTEN® one urban, NW 100: Asphalt – kerbstone, class A – C



BG-FILCOTEN® one urban, NW 100: pavement – pavement, class A – D, urban area, medium wheel loads

Key

- 1 Frost protection layer
- 2 load-bearing gravel layer
- 3 cement-stab. gravel layer
- 4 Subgrade level
- 6 concrete bed
- 11 concrete foundation acc. to static calculations
- 15 drainage concrete
- 16 concrete pavement
- 19 working joint
- 21 expansion joint
- 26 surface course
- 28 bitumen layer
- 30 bituminous sealing tape
- 34 mortar bed
- 35 grit bed
- 38 paving stones
- 45 kerbstone
- 51 cavity-free joint sealing



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