

# BG edge systems.

Flexible element heights - encased in concrete on site.



**BG steel edges for in-situ concrete channels.**



**Graspointner**  
Drainage systems



## BG steel edges for in-situ concrete channels

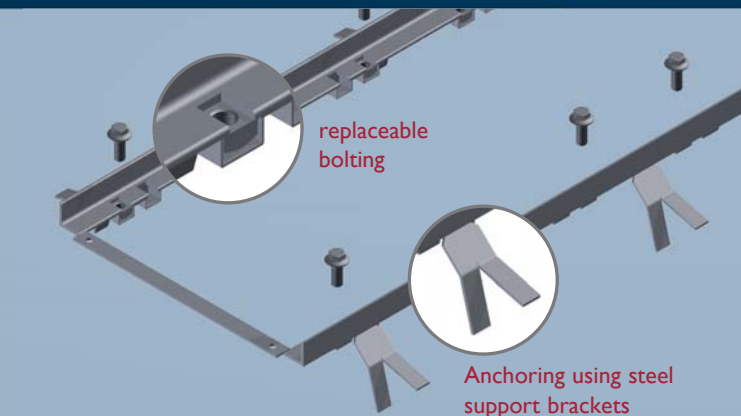
incl. steel support brackets for encasement in concrete

For some installation situations and localities it is not possible to install a drainage system made of prefabricated components, e.g. for special total heights, for huge slopes, with rough terrain, etc.

Thanks to the BG edge systems made of galvanised steel, channel elements can be produced locally and dependent on the area of application combined with relevant ductile iron gratings. Ductile iron gratings are 4-times screwable with replaceable bolting in cl. D, E or F.

The edge elements can be supplied in the lengths 1000 or 2000 mm in 6 nominal widths. The lateral components of the edges are equal, the nominal width results from the spacer located in between with a varying length.

System	BG steel edges for in-situ concrete channels
Total length	1000 or 2000 mm
Nominal width	100 / 150 / 200 / 300 / 400 / 500 mm
Dimensions	L / W: 30 x 30 mm
Material thickness	4 mm
Weight per set	4,2 kg for 1 m / 8,3 kg for 2 m



all dimensions in mm

## BG steel edges for in-situ concrete channels.

item no. BG steel edges for in-situ concrete channels - total lengths 1000 or 2000 mm

60161	BG steel edge for in-situ concrete channels - galvanised, replaceable bolting - 1000 mm
60162	BG steel edge for in-situ concrete channels - galvanised, replaceable bolting - 2000 mm

## Gratings.

item no.	gratings screwable	grating design	dimensions in mm	load class	slot/mesh-width in mm	weight/pc.	inlet cross-section
22702	ductile iron gratings 100	mesh grating	500/147/25	E 600 kN	MW 24/24	4,7 kg	725 cm <sup>2</sup> /m
22703		main bar grating	500/147/25	E 600 kN	MW 27/13	4,3 kg	520 cm <sup>2</sup> /m
22002		slotted grating	500/147/25	F 900 kN	SW 16/120	5,4 kg	517 cm <sup>2</sup> /m
22035	ductile iron gratings 150	cover	500/147/25	F 900 kN	cover	7,7 kg	0 cm <sup>2</sup> /m
22712		main bar grating	500/197/25	E 600 kN	MW 27/13	7,3 kg	720 cm <sup>2</sup> /m
22005		slotted grating	500/197/25	F 900 kN	SW 15/75	11,4 kg	704 cm <sup>2</sup> /m
22722	ductile iron gratings 200	main bar grating	500/247/25	E 600 kN	MW 27/13	9,1 kg	960 cm <sup>2</sup> /m
22008		slotted grating	500/247/25	F 900 kN	SW 16/220	11,1 kg	1045 cm <sup>2</sup> /m
22037		cover	500/247/25	F 900 kN	cover	16,8 kg	0 cm <sup>2</sup> /m
22732	ductile iron gratings 300	main bar grating	500/347/25	E 600 kN	MW 25/14	15,7 kg	1350 cm <sup>2</sup> /m
22016		slotted grating	500/347/25	F 900 kN	SW 16/148	30,9 kg	1400 cm <sup>2</sup> /m
22017		cover	500/347/25	F 900 kN	cover	33,4 kg	0 cm <sup>2</sup> /m
22041	ductile iron gratings 400	slotted grating	500/447/25	D 400 kN	SW 18/200	20,5 kg	1920 cm <sup>2</sup> /m
22045		main bar grating	500/447/25	E 600 kN	MW 25/14	27,0 kg	1795 cm <sup>2</sup> /m
22019		slotted grating	500/447/25	F 900 kN	SW 15/125	40,6 kg	1780 cm <sup>2</sup> /m
22042	ductile iron gratings 500	slotted grating	500/547/25	D 400 kN	SW 15/248	30,2 kg	2590 cm <sup>2</sup> /m
22015		slotted grating	500/547/25	E 600 kN	SW 15/164	31,0 kg	2350 cm <sup>2</sup> /m

## Bolting-material.

item no. bolting-material for BG steel edges for in-situ concrete channels

20750	bolting set for replaceable bolting connections (demand per 0,5 m: 4 pcs. screw+square nut)
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ductile iron mesh grating  
MW 24/24, cl. E  
for NW 100

ductile iron bar grating  
MW 27/13, 25/14,  
cl. E - for NW 100 to 400

ductile iron slotted grating  
SW 16/120, 16/220,  
cl. F - for NW 100 and 200

ductile iron cover  
cl. F - for NW 100,  
200 and 300

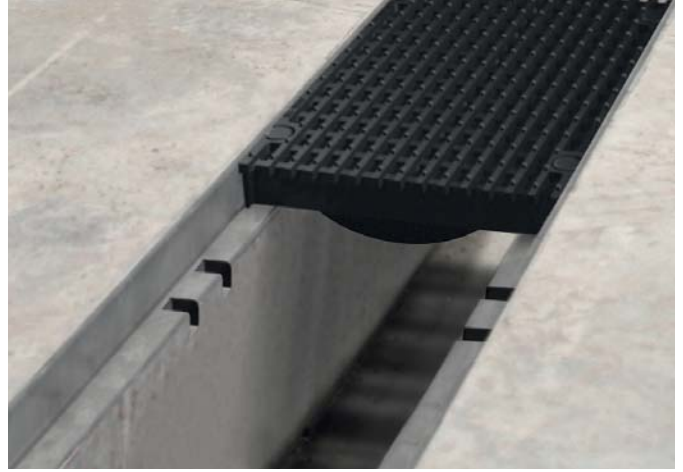
ductile iron slotted grating  
SW 15/75, cl. F - for NW 150  
SW 16/148, 18/200, 15/125,  
15/248, 15/164 - cl. D, E, F -  
for NW 300, 400, 500

Caution: tractive, braking and torsional forces must be considered separately. Heed installation instructions. Subject to technical modifications.

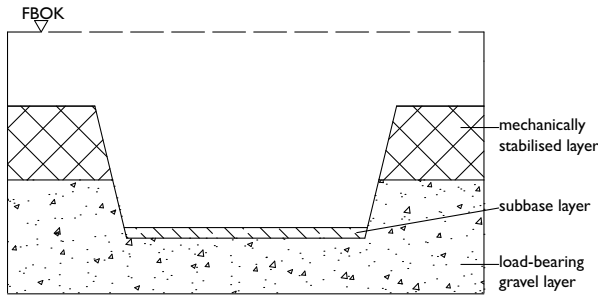


## Installation guidelines:

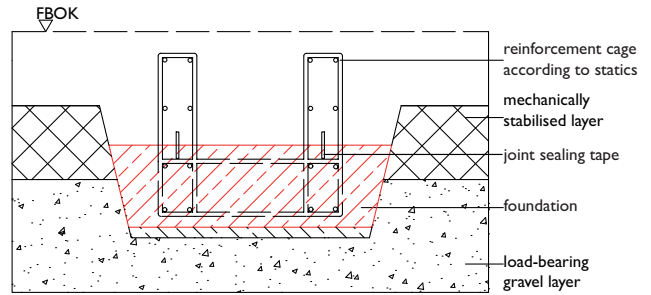
The installation guidelines and installation examples below are envisaged for standard applications. The load class and the installation site in accordance with EN1433 must be adapted to local specificities from the planning side. The technical regulations and guidelines generally known in specialist circles must be taken into account in the installation. Concrete dimensions and reinforcement dimensioning must be agreed on the basis of local requirements and ascertained by a structural engineer.



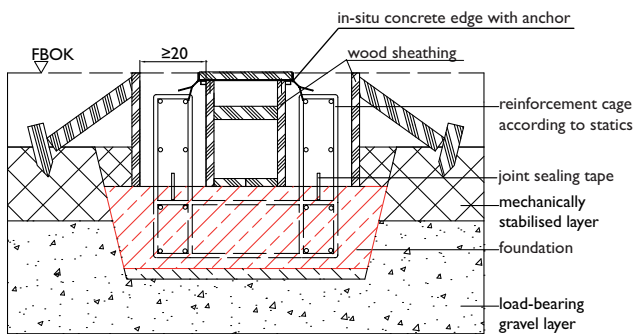
### 1 apply excavation / cleanliness layer



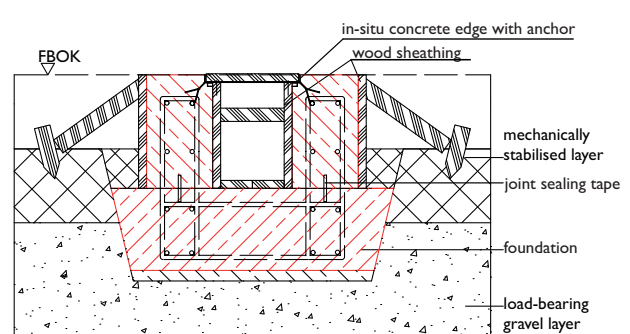
### 2 use reinforcement cage / encase foundation in concrete



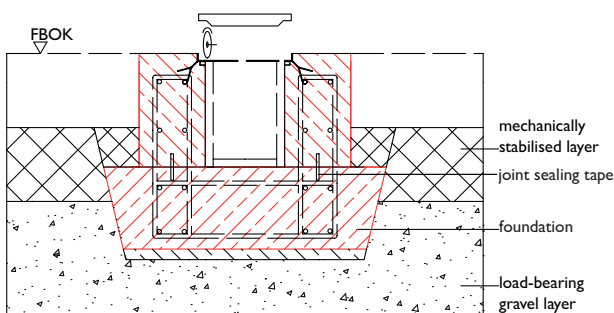
### 3 assemble formwork / fasten edges



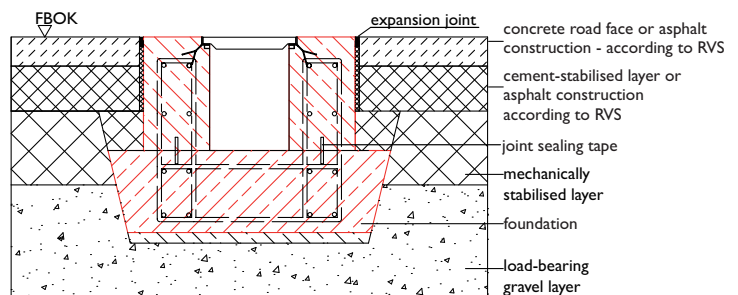
### 4 encase in concrete evenly



### 5 cut away spacer / stripping / insert gratings and screw together



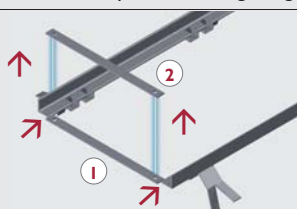
### 6 complete surrounding surfacing work



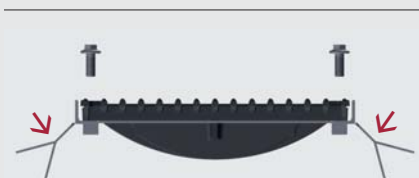
shuttering boards as spacers - prevention of compression of the edges during the concrete encasement process



spacers are firmly connected to the edges  
1. separate when concrete encasement is complete  
2. remove spacer - screw grating



anchoring brackets/steel support brackets ensure a firm hold in the concrete shell







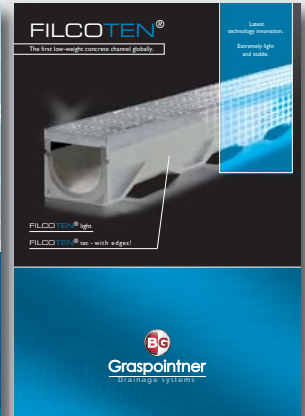
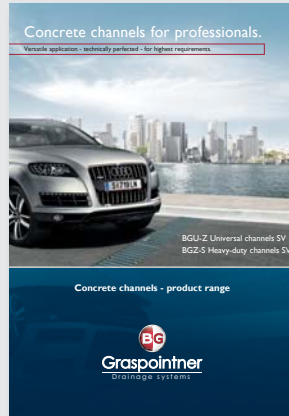
**BG-Graspointner is a full-range supplier** with a comprehensive product and service range for all areas of application. **Steel and concrete channels** from safe to walk on to safe to drive on for vehicles with a heavy load. BG-Graspointner systems are optimally compatible with one another.

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