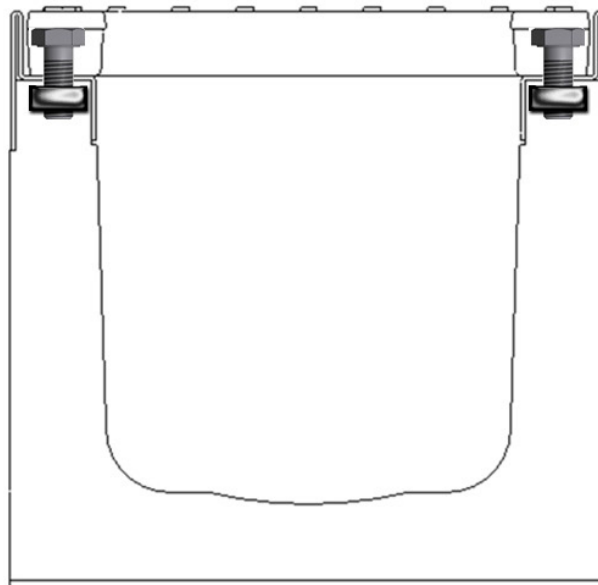


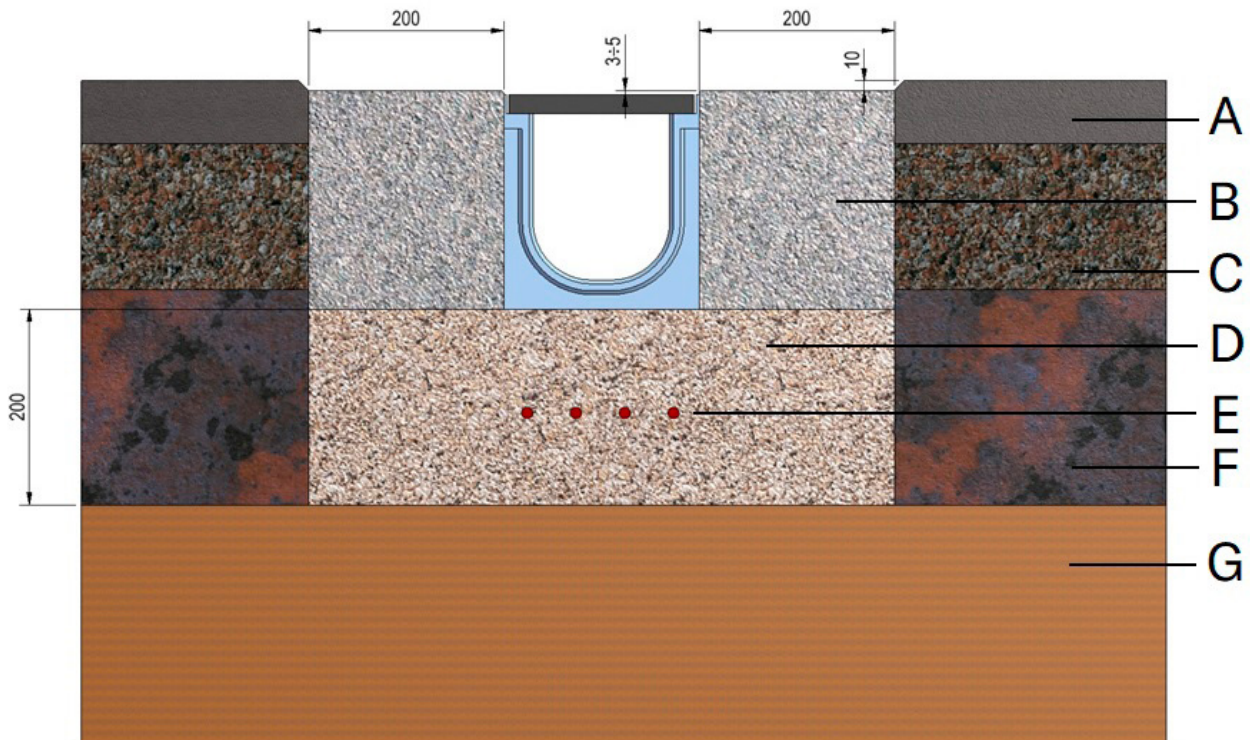
USAGE E MAINTENANCE

Code	Model	Product line	Description
4RG3SGE	Type "R"	Drainage channel type "M"	Vibro-compressed concrete channel MOD. R265, with galvanized protective edge rails, c/w n. 2 x GJS500-7 ductile iron gratings dim. 265x500 H30 mm, installed and locked, painted. Channel runoff section sqcm. 376. Load class E600 according to EN 1433:2008 Norm, if installed following manufacturer instructions.

INSTALLATION



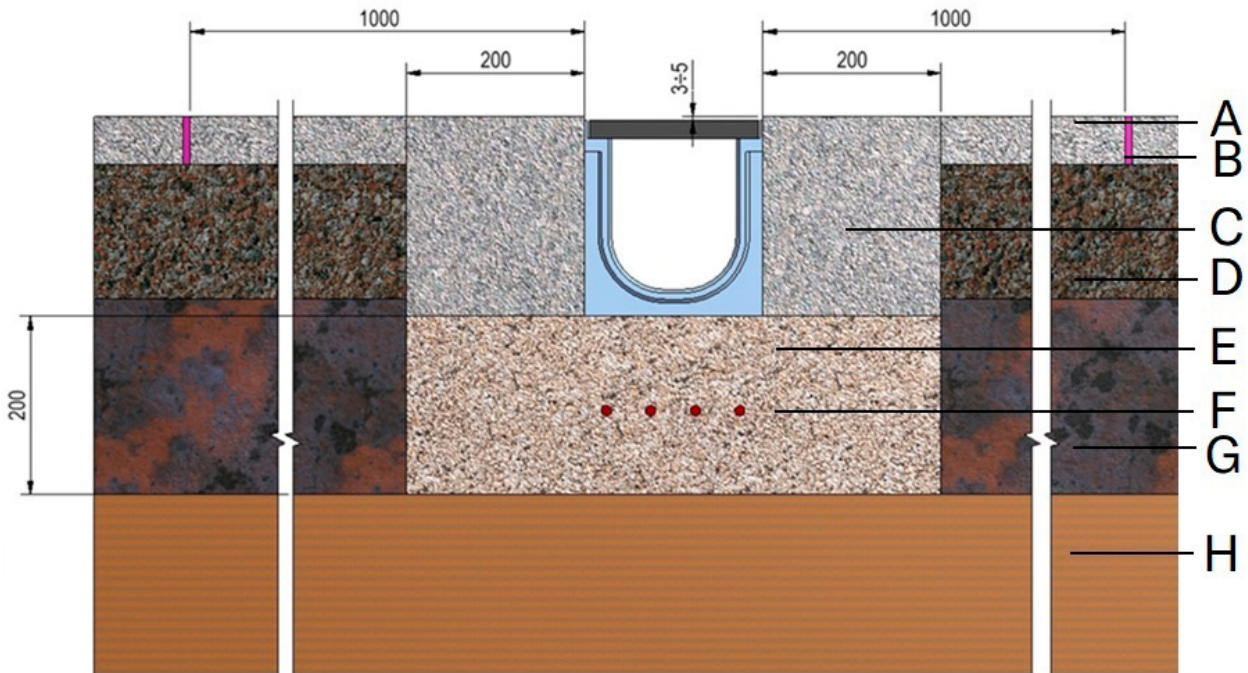
ASPHALT PAVING



KEY

KEY	
A	Asphalt paving
B	Concrete reinforcement
C	Filler
D	Concrete substrate
E	Steel wire reinforcement
F	Ballast
G	Ground

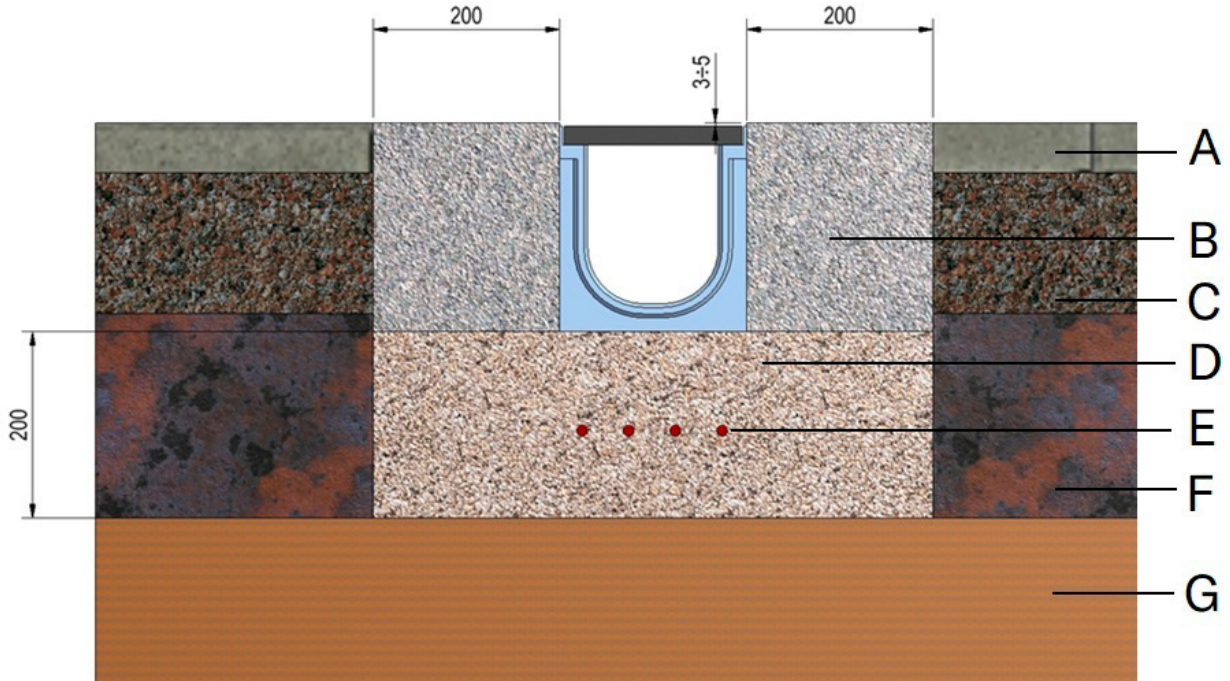
CONCRETE PAVING



KEY

A	Concrete paving
B	Expansion joint
C	Concrete reinforcement
D	Filler
E	Concrete substrate
F	Steel wire reinforcement
G	Ballast
H	Ground

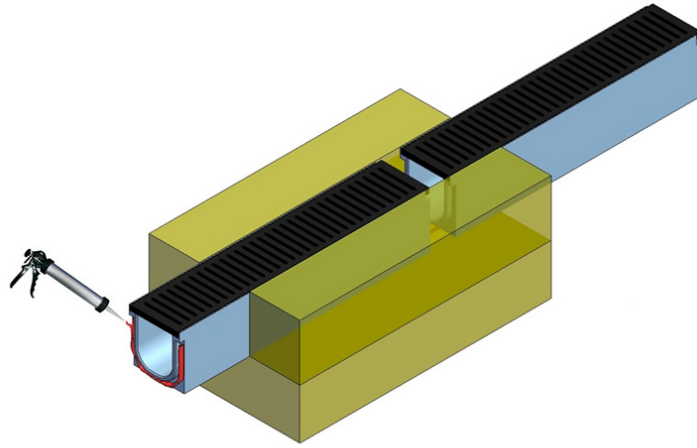
COBBLESTONES PAVING



KEY

A	Cobblestones paving
B	Concrete reinforcement
C	Filler
D	Concrete substrate
E	Steel wire reinforcement
F	Ballast
G	Ground

SEALING THE JOINT



INSTRUCTIONS

Installation must be carried out by competent personnel and equipped with suitable equipment for lifting heavy loads. The UNI EN 1433:2008 standard stipulates that the load-bearing capacity of the channel depends on the grating, the channel and correct installation, so the following operations must be carried out with great care.

- Dig out a trench of suitable dimensions for housing the chosen channel.
- Cast a concrete base having the appropriate thickness and inclination, then lay the channels.
- The channels must be laid and linked to each other using the relevant male-female joint, while checking their alignment and measurements.
- In the case of 'M'-type channels, fill the sides of the channels with concrete.

ADVICES

To make the base and fill the sides, use the following types of concrete:

C25/30 XF2

C28/35 XF4 in case of temperatures $\leq 0^{\circ}\text{C}$

- Lay the channels starting from the drainage point (sump unit).
- The channels are equipped with male-female joints at the ends, where sealant must be applied.
- It is advisable to use silicone sealant with neutral cross-linkage, which guarantees perfect adhesion and permanent elasticity.
- Drill the channels using a size 8-10 drill bit: first mark the hole then make a pilot hole using a chisel.
- Always keep the finished paving 3-5 mm above the channel, or 10 mm in the case of asphalt paving.
- Insert the gratings in their housings prior to filling the sides of the channel; to keep them clean during laying operations, simply protect them with a PVC film.

WARNINGS

- Strictly observe all the manufacturers instructions described in this document.
- Do not use the product in ways other than those for which it was intended.
- Do not in any way tamper with the channel or any of its constituent parts.
- Make sure that the product has no structural defects; if it does, immediately notify the supplier.
- Make sure that the type of item matches that requested by the designer.
- Allow the concrete to dry according to the times indicated by the producer before applying any loads.

For galvanised steel profiles and/or covers:

- It is important to verify the characteristics of the adhesives used for paving, in particular that their pH value falls between 6 and 11; if not, the metal surfaces should be protected in advance with silicone spray.
- Use quick-setting adhesives, or adhesives that dry fully within 7 days.
- Be careful not to damage the surface treatment of the steel product or any of its components.
- Do not use aggressive cleaning products, in particular check that their pH value falls between 6 and 11.

MAINTENANCE

- Clean the housing of the bolt that fastens the grating, if present.
- Replace any rusted nuts and bolts, some types of channel also allows for replacing the fastening nut.
- Remove the grating using a tool having an insert suited to the type of fastening.
- Clean the grating containment profiles with the aid of a trowel.
- Clean the inside of the channel by removing any debris, leaves, stones, gravel, etc.
- Perform a visual inspection to check whether there are any cracks larger than 0.3 mm and, if there are, repair them using a non-shrink cementitious mortar.
- Before assembling the gratings again, lubricate the threads lining the bolt slots.

DISPOSAL

Regarding disposal, consult the applicable regulations for recovering any materials compatibly with the environment, and observe all local regulations.

Moreover, we recommend contacting a specialised waste disposal company.