

Drainage & dewatering systems

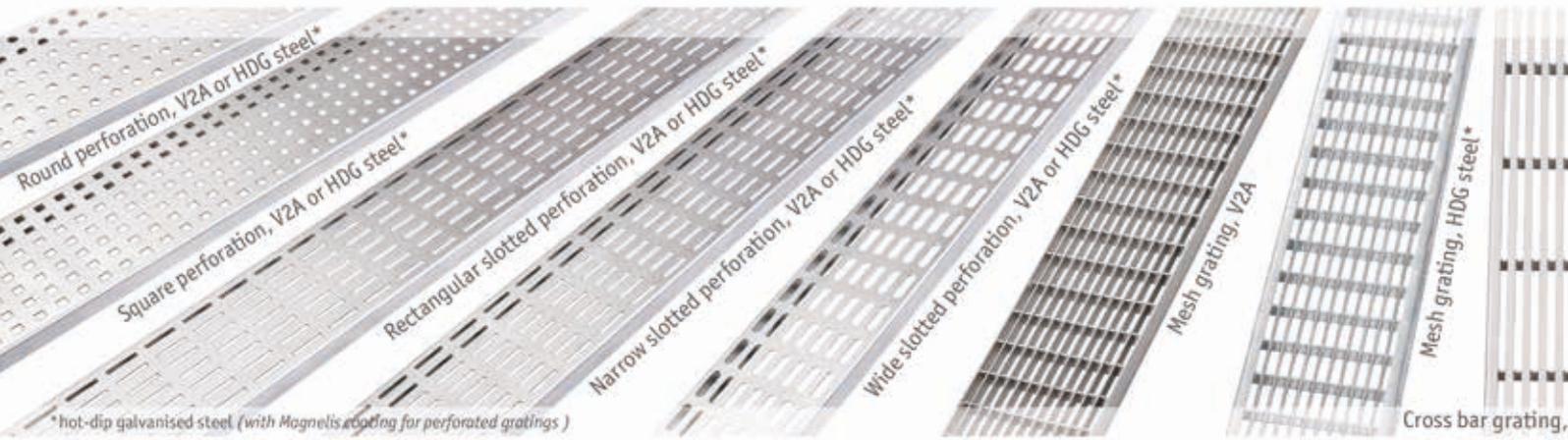
We love water when it's right where it belongs!



Ihre Experten für
Garten & Landschaft

Partner des
Verbandes Garten-,
Landschafts- und Sportplatzbau
Nordrhein-Westfalen e. V.





Our gratings underscore the character of your building project.



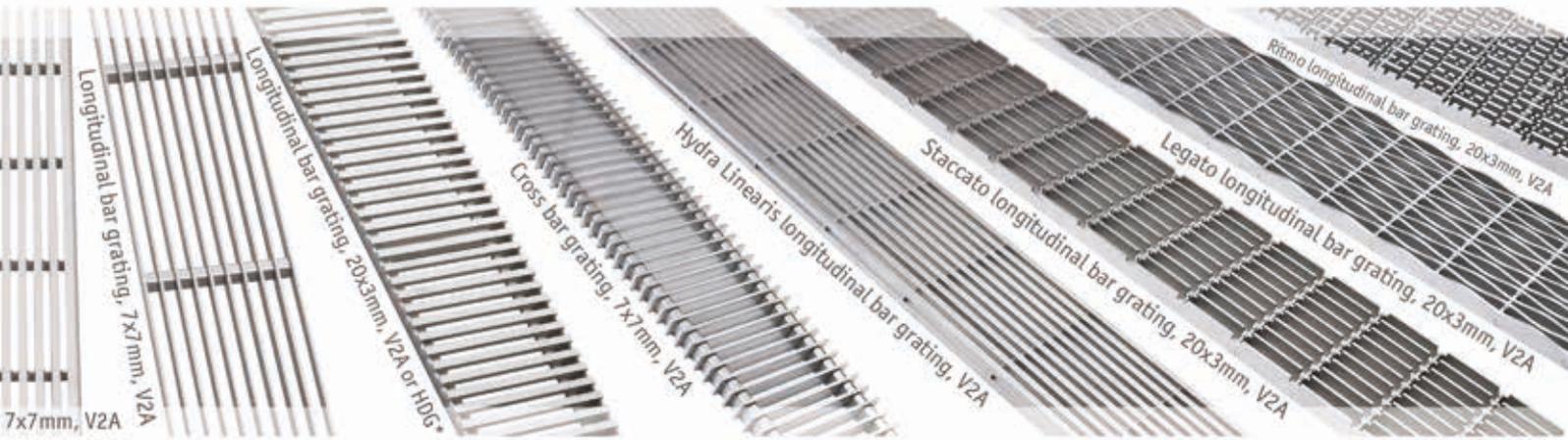
reddot award 2015
best of the best

Gemini grating

Whether minimalistic, practical or as an elegant focal point –

we have designer gratings

to suit every design concept. Alongside the standard models, they can also be made to measure in line with customer requirements, just like our range of drainage and dewatering channels.



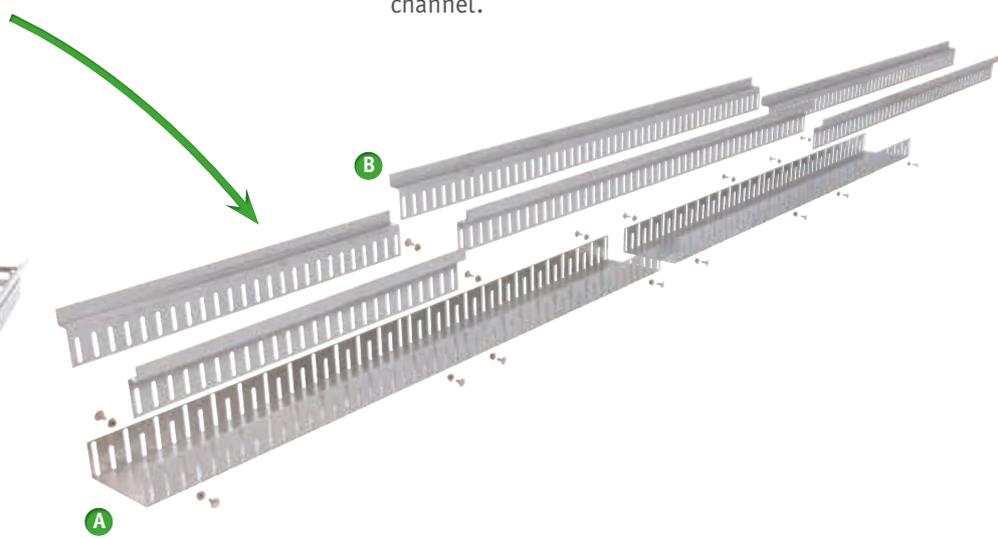
reddot design award
honourable mention 2010
Hydra Linearis grating



Our height-adjustable drainage channels can be set at the ideal elevation on site. To help do this, the channel feature either adjustable side panels, as found in the Hydra channels, or stilt supports, as seen in the Fultura channels.

Height-adjustable drainage channels

For on-site levelling



The side panels in the Hydra channel are directly screwed to the base. The continuous drainage slots along both the channel body **A** and the side panels **B** make it very easy to adjust the height of the system via the screw connection and also to extend the system as needed by offsetting the alignment of the side panels with the channel.

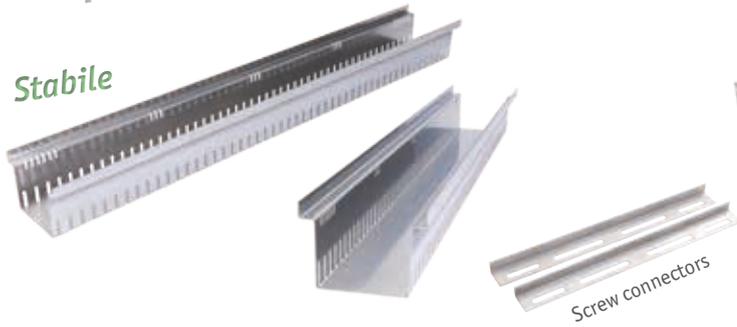
The height of the Hydra Express and Fultura channels can be adjusted using screwable stilt supports. Of the two, the adjustable plastic feet make the Fultura especially well suited to roof terraces, balconies and any other areas that are dewatered via waterproof sheeting.

Drainage channels

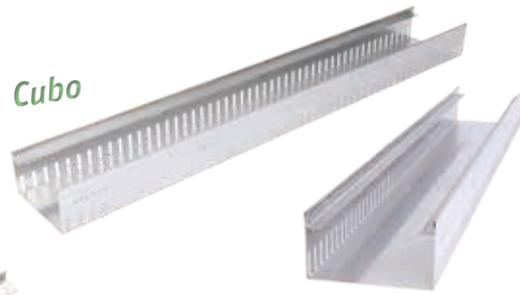
For draining into the substrate



Stabile



Cubo



Stabile Air



The connectors are integrated into the Stabile Air

Alongside our standard models, each of our drainage and dewatering channels can be made to measure. The possibilities are endless, from precisely-fitting channels for window and door reveals to custom lengths that avoid installers having to cut sections on site. Channels are a maximum 3,000mm long. Connectors allow a line of channels to be further extended to a given length.

Dewatering channels

for draining into the sewer system

Stabile

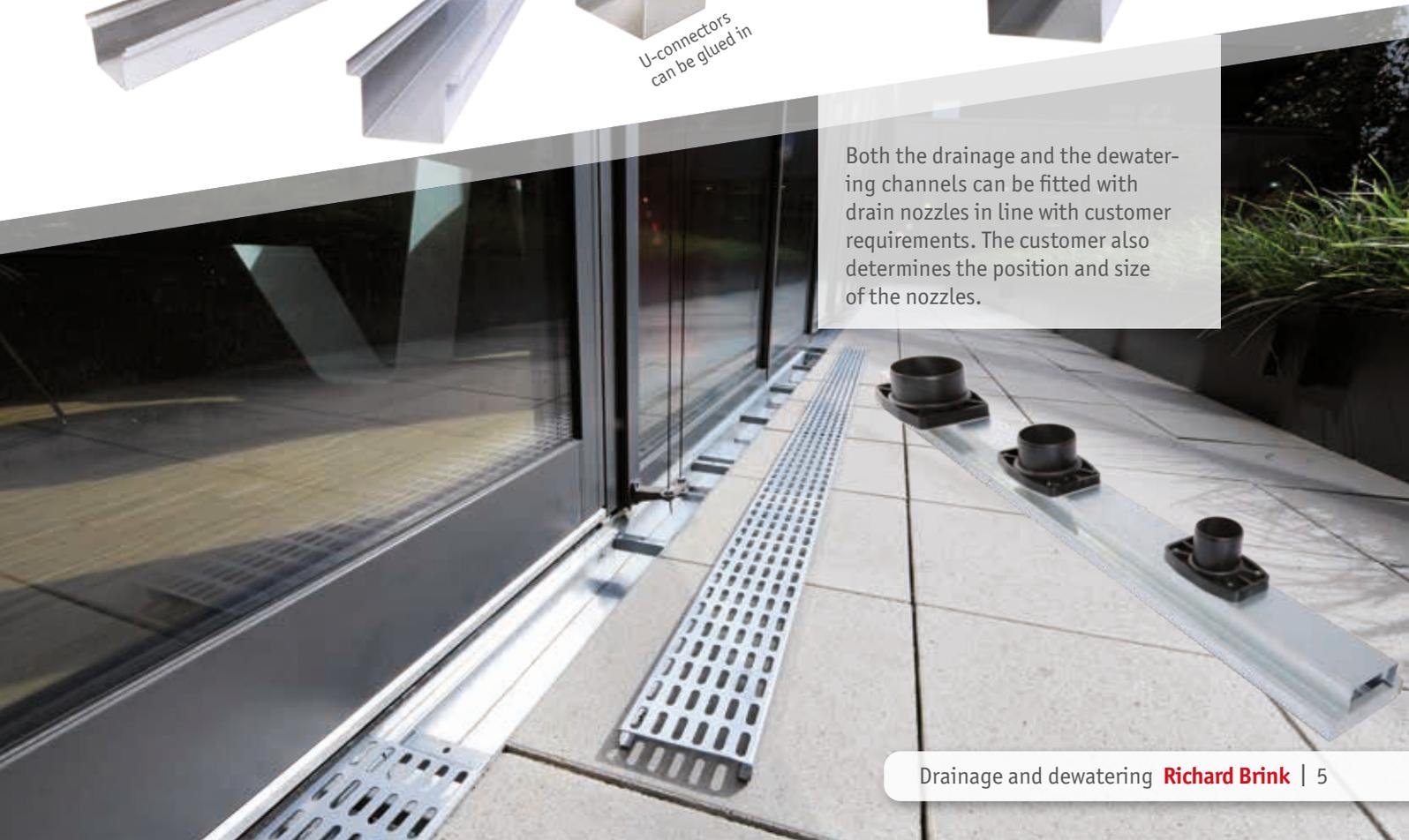


Cubo



U-connectors can be glued in

Both the drainage and the dewatering channels can be fitted with drain nozzles in line with customer requirements. The customer also determines the position and size of the nozzles.



Our concrete and polymer concrete channels can also be fitted with heavy-duty slotted attachments for areas exposed to vehicle traffic. They are designed to meet load classes C 250 or D 400.



Slotted channels - for subtle dewatering

Whether used as linear drainage or to frame dry-deck fountains, slotted channels are very versatile in their

application, found in everything from dewatering to water circulation solutions. Flush boxes and drainage units make the slotted channels easy to clean.

Paved inlays, which are used to seal the boxes and units, can be filled with the same slab material that is used in the surrounding flooring, making for a uniform finish.







The Fortis concrete channels impress by offering maximum stability despite their low weight. The channels' structure is designed in such a way that they can withstand load class D 400 once embedded in a standard concrete foundation. The same applies to the drainage and point drainage units.



Aesthetically pleasing in concrete the choice

Robust, stable and aesthetically pleasing: this sums up the two channel models **Fortis** (concrete) and **Poly-Fortis** (polymer concrete). Both versions are available with frames made from hot-dip galvanised steel, stainless steel or cast iron, and with the inlet widths **DN 100** (155mm) and **DN 150** (206mm).

We have expanded our range of heavy-duty metal gratings to include two cast gratings: the **Prisma** grating, which was honoured with the **reddot** design award, and the **Zippa** grating.





The high-quality resins that are added to the quartz sand make the polymer concrete extremely watertight. The channels and drainage units also impress with their low weight, despite being hugely resilient and able to withstand the impact of chemicals thanks to the material's plastic content.

Zippa grating

Poly-Fortis polymer concrete channel

Concrete, polymer concrete & cast iron -
is yours!





For load classes
**A 15 to
E 600**

These two pages provide an overview of the most important product design details relevant to our concrete and polymer concrete channels.



Rubber seals

A nut and groove system with integrated rubber seals allows for quick installation with no additional sealing required.



Cast iron or steel frames

The cast iron frames are finished with a high-quality CDP coating (**cathode dip painting**). Frames made from hot-dip galvanised steel or stainless steel complete our range of channels.

The latching systems used in the channels with stainless steel frames also double as mounting handles (see image).

Channels with cast iron and hot-dip galvanised steel frames can also be modified accordingly: on request, carry handles can be integrated under the clips that form part of the locking system within the frames, making installation easier.



Run-off nozzles

The Fortis drainage units are fitted with plastic run-off nozzles for nominal widths of **DN 100** or **DN 150**. Half and full metre concrete channels are also available with run-off nozzles.



Cast iron gratings with high-quality design

The Prisma and Zippa gratings bring a whole new aesthetic to dewatering systems and are finished with a high-quality CDP coating (cathode dip painting).



Excellent flow properties

The leak-tight surface texture of the concrete channels ensures optimal flow with no resistance.



V2A dirt trap

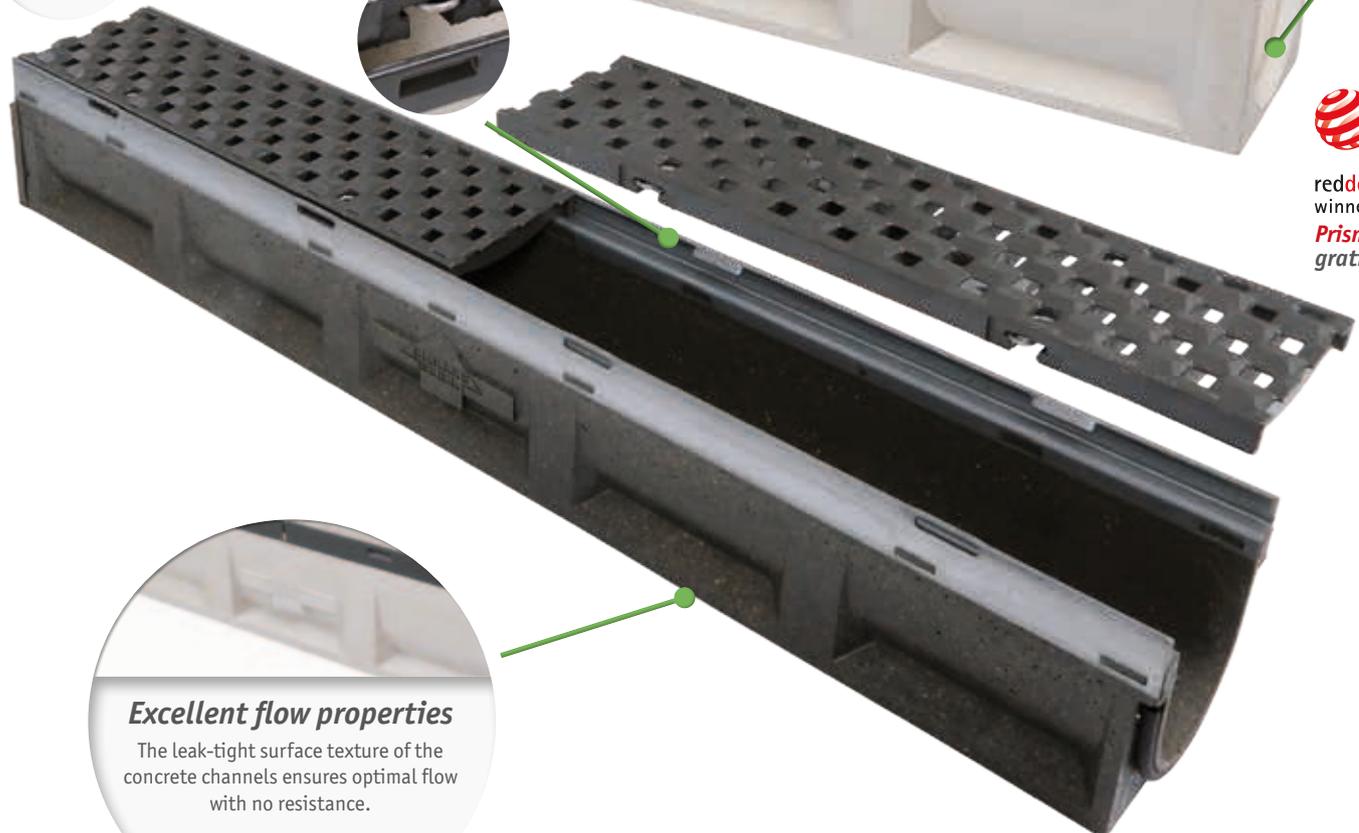
Stainless steel dirt traps are durable and enable quick, convenient cleaning of the drainage units.



The channels are easy to lock in place thanks to the clip system



reddot award 2019
winner urban design
Prisma cast iron
grating

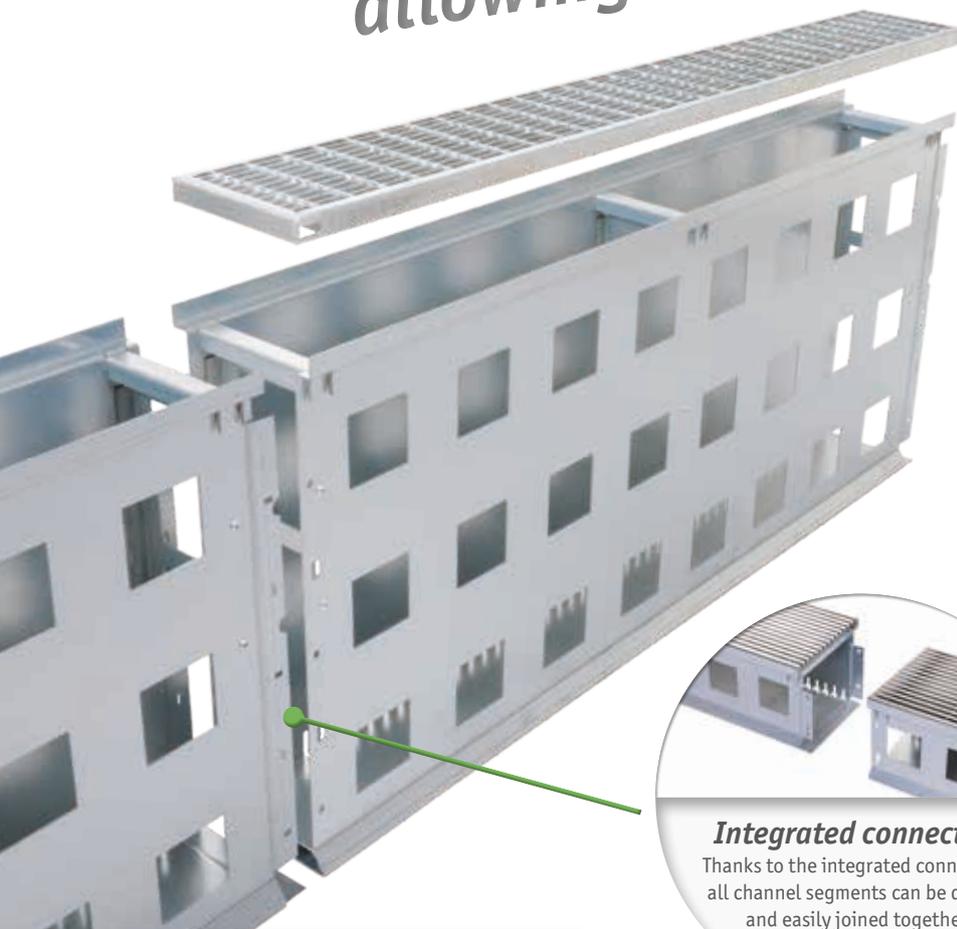


Excellent flow properties

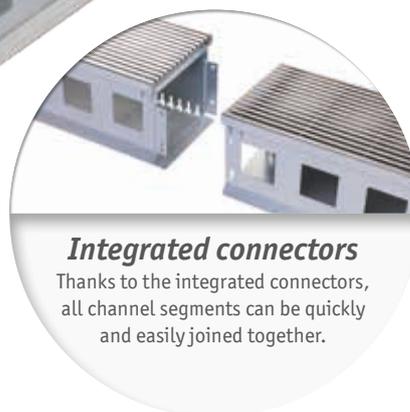
The leak-tight surface texture of the concrete channels ensures optimal flow with no resistance.



Stabile Air façade channels - allowing the base to breathe.



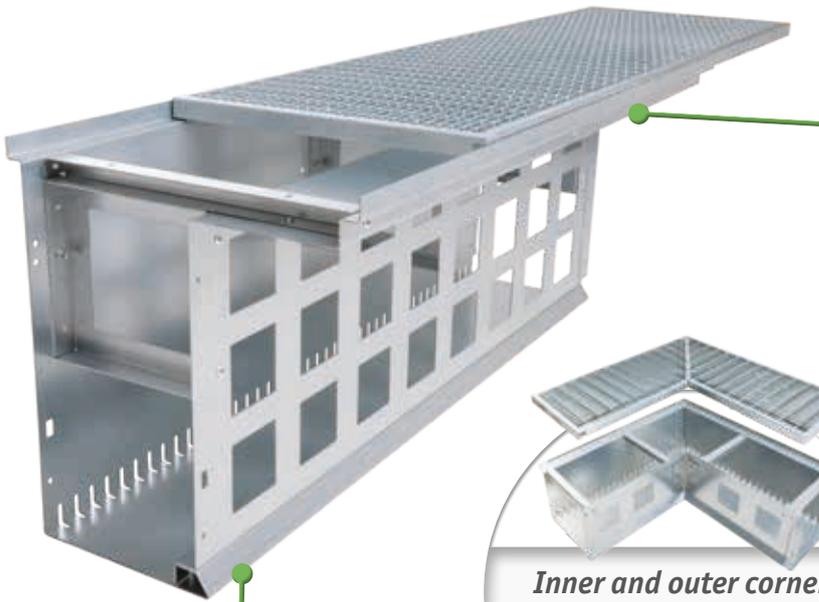
Our Stabile Air façade channel was specially developed to aerate and ventilate insulated and wooden façades. Large slots in the side section facing the façade keeps the base section well aired. In addition to the standard channels in our product range, we also manufacture custom solutions to meet your exact specifications. Inlet widths and heights can be varied as required. On request, we can also equip the channels with concrete anchors that can be bent outwards on the side of the channel opposite the façade.



Integrated connectors

Thanks to the integrated connectors, all channel segments can be quickly and easily joined together.





Projecting elements for reveals

We offer projecting elements that perfectly fit your building project's window and door reveals. This avoids having to piece cuts together and makes for a uniform overall look.



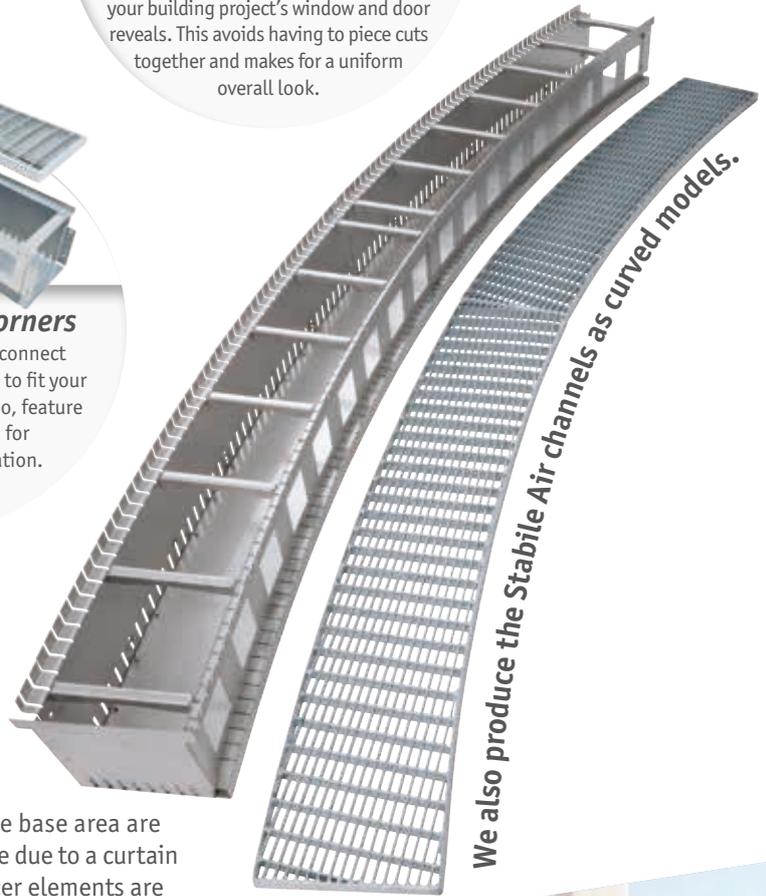
Inner and outer corners

ensure all façade sections connect seamlessly and are produced to fit your exact requirements. They, too, feature integrated connectors for straightforward installation.



Spacer profiles

These profiles ensure enough space is left between the channel and the façade, which stops water from pooling by preventing capillary forces.



We also produce the *Stabile Air* channels as curved models.



Where gaps in the base area are wider, for example due to a curtain wall, façade spacer elements are also provided with the delivery.





FerroMax – heavy-duty water collection channels in XXL

The FerroMax water collection channels are suitable for the quick collection of large quantities of precipitation in areas exposed to traffic and also for use with any other sealed surfaces found in urban areas. They can be adjusted in size to meet the needs of the respective projects.

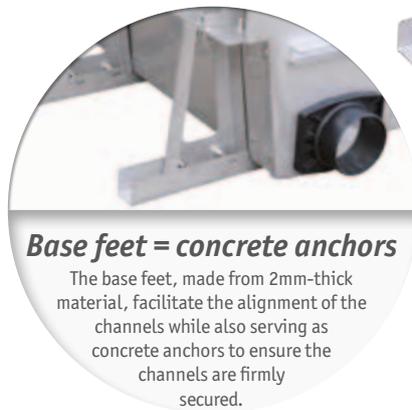
Thanks to the channels' large holding capacity, accumulating rainwater can be stored temporarily before passing through the connection to the sewer system in a continual, controlled manner. Example for DN 1,000: 900 litres of immediate storage per running metre. They therefore avoid overloading the downstream sewer system.

As the channel bodies themselves are used as a kind of permanent formwork, they are made of a thinner walled material, just 1.5mm thick. This type of channel offers a choice of two materials: hot-dip galvanised steel or stainless steel.

The frames, which also act as grating supports, are made from 4mm-thick material.



Connection braces between the frames provide additional stability.



Base feet = concrete anchors

The base feet, made from 2mm-thick material, facilitate the alignment of the channels while also serving as concrete anchors to ensure the channels are firmly secured.



Depending on the concrete foundation and grating, the channel system satisfies the requirements of load classes D 400 to E 600. The gratings withstand wheel loads of 5 to 10 tons.

RigoMax - heavy-duty infiltration channels in XXL

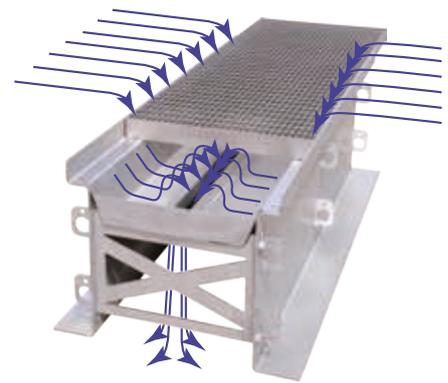


Thanks to its bottomless construction, the RigoMax infiltration channel is suitable for the quick collection and drainage of large quantities of precipitation in areas exposed to traffic and also for use with any other sealed surfaces found in urban areas where there is no existing connection to the sewer system. Alongside our standard dimensions, this system can be individually adapted to meet your project's needs.

The channels are made from 4mm-thick hot-dip galvanised steel or stainless steel as standard. Integrated connection braces and anchor tabs fixed to the outside walls, which are then set in concrete, increase the channel's stability.

Depending on the grating cover, these infiltration channels withstand a **wheel load of between 5 and 10 tons.**

They feature integrated filter inserts. The first **a** is able to hold back coarse dirt such as sand and leaves while also filtering substances such as tyre wear particles and microplastics. The second filter **b** can be optionally inserted and is able to filter out substances contained in the water such as heavy metals. This filter is often mandatory in public sector systems.



Thanks to the channels' large holding capacity and bottomless structure, accumulating rainwater can first be temporarily stored before being continually drained through the substrate's gravelled base layers.



Mono-Fortis polymer concrete channel

The new **Mono-Fortis** heavy-duty channel is made from polymer concrete and unites channel and grating in one. The channel's eponymous, monolithic construction ensures its stability up to load class E 600. The channels are produced in lengths of one metre, with an inlet width of 206mm (DN 150) and a height of 250mm.

A flush box for this type of channel can be created by connecting half a metre of the **Poly-Fortis** channel with the Zippa cast grating. This system also withstands the same loads as the Mono-Fortis channel.

The **Poly-Fortis flush boxes** that can be connected to the sewer system round off this solution.



Poly-Fortis channel



Poly-Fortis drainage unit

Mono-Fortis - heavy-duty polymer concrete channel



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