



Technical data sheet

Infiltration channel RigoMax



Manufacturer

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Product description

Thanks to its bottomless design, the infiltration channel is suitable for the rapid absorption and drainage of large amounts of precipitation on traffic areas and all other sealed surfaces in urban areas where there is no connection to the sewerage system.

It has an integrated filter insert, the first of which retains coarse dirt such as sand and leaves as well as filtering out substances such as tyre abrasion and microplastics. The second filter, which can be fitted as an option, is able to filter out substances bound in the water, such as heavy metals. This filter is often mandatory in public areas.

Due to the large capacity of the channels and their bottomless design, rainwater can initially be temporarily stored and continuously drained by the gravelled base layers of the subsoil.

They gain additional stability thanks to integrated connecting struts and anchor lugs on the outer walls that can be set in concrete. Depending on the grate cover, these infiltration channels can withstand a wheel load of between 5 and 10 tonnes.

In addition to our standard dimensions, this system is customised to the respective construction projects and their requirements. The cover (*grating*) can be designed either as a mesh grating, longitudinal bar grating or cross bar grating. Suitable gratings can be found in our range.

Load class

Depending on the grate, the channel can withstand a wheel load of 5 - 10 tonnes.

Materials used

We only use European materials from Germany, Sweden, France and Italy for our channels.

Material specification for channel body and grating

Stainless steel V2A (1.4301) and hot-dip galvanised steel

Material thickness: 4.0 mm (*channel*)



Dimensions

The channel is supplied in these standard dimensions.

Total widths (*nominal widths*): 388 mm (*DN 300*), 588 mm (*DN 500*), 1,088 mm (*DN 1,000*)

Heights: 350 mm to 1,050 mm or customised height on request

Standard length: 1,000 mm (*customised lengths possible*)

Storage volume: 90 to 970 litres (*larger storage volumes on request*)

The channel and gratings are made of stainless steel (V2A) and hot-dip galvanised steel. The material thickness of the channel body is 4.0 mm. The insert is made of stainless steel (V2A).

Processing and care instructions

The infiltration trench channel is set in concrete with lateral back supports up to below the grating support, giving it its actual stability. The usual paved areas can be built up to the sides.

It rests on a layer of gravel so that the surface water can seep away. When installed on a drainable substrate, an additional gravel bed can be laid on a fleece underneath the channel to create additional storage space. No gravel is filled into the actual channel body.

Dust particles of other metals or general cutting of components with flying sparks on the product should generally be avoided. If dust particles or soiling from other metals are present, these must be removed immediately using appropriate cleaning agents.

The gutters must not be cleaned with strong acids or alkalis, but by hand with a broom or, if necessary, with a high-pressure cleaner. Regular cleaning is recommended.

Further installation and usage instructions as well as information on the material can be found at: <https://www.richard-brink.de/en/downloads/overview.html>