

Product information



Stormwater management: between reaction and prevention

Powerful rainwater retention with XXL channels from Richard Brink

Schloss Holte-Stukenbrock, 04 November 2025:

The term “sponge city” has emerged from within expert circles to describe a future concept and response to the consequences of climate change.

Manufacturers from the construction industry have also reacted to the new challenges with appropriate products and solutions. With its RigoMax gravel-filled drainage channels and FerroMax water collection channels, Richard Brink GmbH & Co. KG provides XXL products for effective stormwater management.

Extreme weather events, generally in the form of heavy rainfall, are now seen in every part of Germany year after year. Solutions are therefore needed to counter this ever worsening problem. Richard Brink, a trusted partner in the field of drainage and dewatering, provides two solutions developed in-house: on the one hand, the RigoMax infiltration channel; on the other, the FerroMax dewatering channel that connects to the sewer system.

Adapted to all site conditions

Both channels are produced in stainless steel or hot-dip galvanised steel. Three standard variants are available, each measuring 1,000mm long with differing heights and corresponding widths. A width of 388mm makes for a holding capacity of around 100 litres, a width of 588mm equates to a capacity of over 250 litres, and the maximum width of 1,088mm results in a total volume of between 900 and 1,000 litres per metre. The metal products manufacturer from Eastern Westphalia can also adapt all dimensions on request to create bespoke products. The robust construction, for example with 4mm-thick frames as a grating support, is designed for a wheel load of up to 10 tonnes. Anchor tabs along either side allow the channel to be set in a

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concrete foundation for increased stability. A range of grating designs are available that also beautifully round off the channel.

If retention channels are to be installed in an area that does not have a permeable substrate, or if the channels are to be connected directly to the sewer system, the FerroMax is the ideal solution. Depending on the nominal dimension that can be connected on site, the channel is fitted with a drain nozzle during production that measures between DN 50 and DN 200. The channel body of the FerroMax thus provides temporary storage, holding rainwater before gradually releasing it into the sewer system. Base feet on the outside of the channel strengthen the channel body while making the product easier to handle during installation.

We recommend using the RigoMax gravel-filled drainage channel in areas with a permeable substrate. Thanks to its open base, held stable through the use of connection braces, water flowing into the channel is drained straight into the gravel layer that sits underneath. The RigoMax can also be fitted with an additional drain nozzle, which then acts as an emergency overflow. While the channel already features a filter to hold back coarse dirt, a second filter insert will be available in future as an optional extra which draws on a special granulate to bind dissolved substances such as heavy metals. This is a promising and in some cases already mandatory addition, especially when channels are used in areas exposed to traffic, where waste water may also be contaminated with oil residues or other harmful substances. The company Richard Brink therefore has an appropriate solution for potential heavy rain events, regardless of on-site circumstances.

Conflicting priorities of modern urban planning

The XXL channels produced by Richard Brink come with a key advantage: their huge potential to store water below the smallest of surface areas. This is a major challenge particularly in urban areas and industrial settings as sealed

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surfaces restrict the ground's ability to store water and allow it to seep into the ground water. It is often not possible to completely unseal the surfaces in these areas because, as residential or commercial areas, they do not lend themselves well to all-encompassing measures, meaning sealed surfaces will remain prevalent. Moreover, municipalities are faced with the pressing task of creating new living space while also ensuring there are enough retention areas. Retention channels present a profitable addition here and sometimes even an alternative to unsealing when the area's natural infiltration potential or sewer system is reaching its limits. Especially in the XXL model, the channels are able to temporarily store enormous amounts of rainwater under the smallest of surface areas.

(approx. 4,610 characters)

Richard Brink is a medium-sized family-run company from Eastern Westphalia, now managed by the second generation. Over its 45-year history, the company has established itself on the market as an expert in metalware production. From product development and construction through manufacturing right up to advice and sales, the company manages and takes ownership of all processes in-house.

The product range comprises drainage and dewatering solutions, planting systems along with solutions for roof and wall areas, industrial applications, bathrooms and kitchens. Made-to-measure and custom-made products round off the comprehensive standard product range from the metal products manufacturer. Find more information at www.richard-brink.de.

Its sister company, Brink Systembau GmbH, is specialised in the trade fair and exhibition business and sells for instance flexible modular construction systems produced by Richard Brink GmbH & Co. KG. Additional products include fully back-lit LED illuminated walls or parcel lockers as a secure drop-off location for personal and commercial goods deliveries.

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