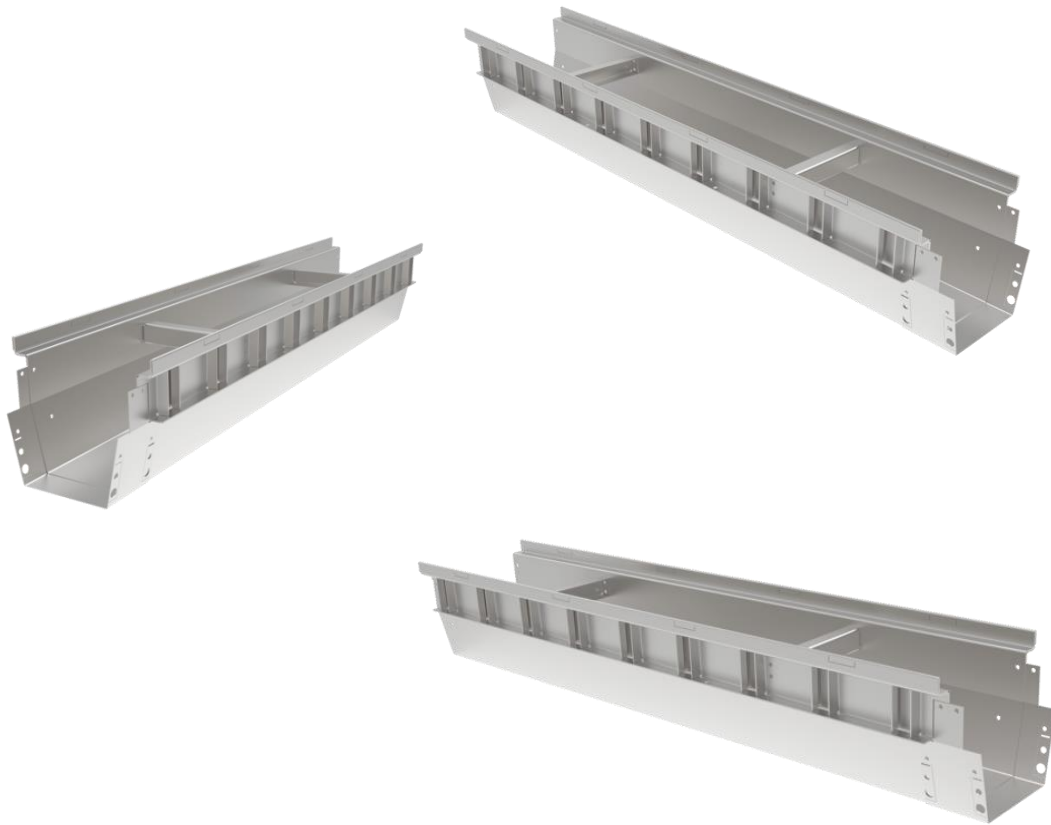




Technical Datasheet

Ferro Magna



Manufacturer

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Metal goods manufacture and distribution
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Product description

Yard areas, access ramps and garage entrances are exposed to high loads on a daily basis, which also affect the drainage channels. In our Ferro Magna, special support profiles, which are combined with matching formwork trays, ensure that vertical and horizontal forces are safely and permanently dissipated. Thanks to their robust design, the profiles safely absorb traffic-related, static and dynamic loads. Butt connectors ensure quick installation and extension of the channel section.

Installation is carried out in a concrete foundation, as with conventional channel bodies. The support profiles also act as concrete anchors and the butt connectors are also fitted with concrete anchor lugs in the lower area. When it comes to handling on the construction site, the Ferro Magna is particularly impressive due to its significantly lower weight compared to other heavy-duty channels in our range. Despite the low amount of material used, the channel meets the requirements of load class D 400.

The drainage channels are used for linear drainage of paved surfaces. As a rule, the surfaces to be drained must slope evenly towards the drainage channel. The rainwater thus flows towards the drainage channel and is absorbed by it. In the closed channel body of the drainage channel, the water is then fed into the sewer. Depending on the length of the drainage line, this is done via one or more connection pieces attached to the channel body or via drainage boxes.

Dimensions

Widths: 156 mm (DN 100) and 206 mm (DN 150)

Heights: 80 mm / 120 mm / 170 mm / 220 mm

Delivery length: 1000 mm

On customer request, all dimensions can be modified and supplied as custom-made products.

Materials used

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



Drainage coefficient

The calculation of the required channel cross-section is carried out according to the basic data (rainwater drainage / drainage area / channel length / position of the supports)

Larger inlet and outlet cross-sections are available on request.

Materials used

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

Material specification of channel body

Hot-dip galvanized sheet steel (DX 51 D+ZM 310 MAC) or stainless steel V2A (1.4301)

Material thickness: 2.0 mm for load class D400 (based on)

Accessories

End pieces

Important notes

The drainage channel must be completely encased in concrete.

Installation must be permanently 2-3 mm below the road surface.

Our installation instructions apply.

Processing and care instructions

If necessary, the drainage channels should also be laid in accordance with the waterproofing manufacturer's instructions (e.g. bitumen manufacturer, foil manufacturer, etc.); if necessary, precautionary measures such as building protection mats should be laid.



The drainage channels can be cut to size, but care must be taken to ensure that the cutting medium (e.g. saw blade, cutting disc, etc.) is absolutely clean or does not contain any components of other metals, as otherwise corrosion may occur. All interfaces (hot-dip galvanized steel) must be cold galvanized. We generally recommend custom-made products ex works, as these are properly galvanized afterwards.

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.

If the gutter is used under canopies or roofs, it should be checked regularly for soiling and flushed as required, as only a small amount of water is drained away and more deposits will form.

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>