



Technical data sheet

ERFE "Ferro Magna" drainage channel



Manufacturer

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Product description

The ERFE "Ferro Magna" (*drainage channel with fixed installation height*) is a box channel for linear drainage for heavy-duty applications. The load is transferred via the channel body and the lateral plastic support elements. The plastic elements are embedded in the channel body to protect them from UV radiation. Channel stiffening elements are installed to absorb shear forces.

The cover (*grating*) is designed either as a mesh grating or longitudinal bar grating. A preparation for a grate interlock is provided (*M 8*).

Outer dimension

Total width: 151 mm (nominal dimension DN 100 / load class C250)

Total width: 156 mm (nominal dimension DN 100 / load class D400)

Total width: 201 mm (nominal dimension DN 150 / load class C250)

Total width: 206 mm (nominal dimension DN 150 / load class D400)

Total heights: 80 mm / 120 mm / 170 mm

Delivery length: 1000 mm

At the customer's request, all dimensions can be modified and supplied as custom-made products.

Discharge coefficient

The calculation of the necessary gutter cross-section is carried out after specifying framework data (rainwater yield / drainage area / gutter length / position of the spigots).

Larger inlet and outlet cross-sections are available by arrangement.

Inlet cross-sections of the grates

Mesh grating (MW 30x10 mm) / inlet width 151 or 156 mm:	884.47 cm ²
Mesh grating (MW 30x10 mm) / inlet width 201 or 206 mm:	788.00 cm ²
Mesh grating (MW 10x30 mm) / inlet width 151 or 156 mm:	1239.30 cm ²
Mesh grating (MW 10x30 mm) / inlet width 201 or 206 mm:	1157.30 cm ²



Longitudinal bar grating 20x3 mm / inlet width 151 or 156 mm:	1053.00 cm ²
Longitudinal bar grating 20x3 mm / inlet width 201 or 206 mm:	1313.60 cm ²
Longitudinal bar grating 7x7 mm / inlet width 151 or 156 mm:	483.00 cm ²
Longitudinal bar grating 7x7 mm / inlet width 201 or 206 mm:	613.60 cm ²

Materials used

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

Material specification channel body

Hot-dip galvanised sheet steel (*DX 51 D+ZM 310 MAC*) or stainless steel V2A (*1.4301*), other materials on request.

Material thickness: 2.0 mm for load class D400
 1.0 mm for load class C250

Material specifications Grates

We use hot-dip galvanised steel or stainless steel V2A (*1.4301*) for both the mesh gratings and the longitudinal bar gratings. The Hydra Linearis longitudinal bar grating is supplied exclusively in V2A.

Material specifications Plastic support element:

Material: PP Copo GF 30

Burden:

A15 / B125 / C 250 with a channel material thickness of 1.0 mm

A15 / B125 /C250 / D400 with a channel material thickness of 2.0 mm



Important notes

The drainage channel must be completely set in concrete.

The lateral plastic support elements are also to be laid completely in concrete.

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

Our installation instructions apply.

Accessories

The following accessories can be supplied (*both in hot-dip galvanised steel and in stainless steel V2A*):

- ends
- connector
- sealing profile problems

A connection piece for a connection line to a manhole or an existing duct can be provided at the factory (*e.g. as a PVC-KG connection piece*).

Processing and care instructions

If necessary, the drainage channels must also be laid in accordance with the specifications of the waterproofing manufacturers (e.g. bitumen manufacturers, foil manufacturers, etc.) , if necessary, precautionary measures e.g. construction protection mats must be laid.

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

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

Cleaning the gutters must not be done with strong acids or bases, but by hand with a broom or, if necessary, with a high-pressure cleaner.



If the gutter is used under canopies or roofing, it should be checked regularly for contamination and flushed as necessary, as only a little water is drained away and more deposits occur.

Further installation & usage instructions as well as information on the material can be found under:

<https://www.richard-brink.de/downloads/gesamtuebersicht.html>