TECHNICAL DATA SHEET

MEADRAIN DM 1000

A 15, B 125, C 250, D 400, E 600, F 900 nominal width 100

BUILDING SUCCESS

MATERIAL CHARACTERISTICS

POLYMER CONCRETE	on a Polyester resin basis, with mineral fillers, additives
COMPRESSIVE STRENGTH	≥ 90 N/mm²
BENDING STRENGTH	≥ 22 N/mm²
ELASTICITY MODULE	25,000 – 35,000 N/mm²
DENSITY	2,1 – 2,3 kg/dm³
COEFFICIENT OF LINEAR EXPANSION	Approx. 1.45 x 10^{-5} 1/K
HEAT RESISTANCE	100°C continuous load, up to 200°C with a load duration up to 5 min.
FROST RESISTANCE	- 50 °C
WATER PENETRATION LEVEL	0 mm
WATER ABSORPTION	< 0.05%
MATERIAL STRUCTURE	Capillary free

PURPOSE OF USE

Component for the line drainage of surfaces in order to collect, transport and discharge rain water from adjacent fixed surfaces. Particularly suitable for use on roads and motorways. DAL and DAR versions for use with 1 or 2-layer drainage asphalt.

DESIGN

- Length 500 and 1000 mm
- Length 500 und 1000 mm, DAL I with side inlets in the line of sight upstream left, for 1-layered drainage asphalt
- Length 500 und 1000 mm, DAR I with side inlets in the line of sight upstream right, for 1-layered drainage asphalt
- Length 500 und 1000 mm, DAL II with side inlets in the line of sight upstream left, for two-layered drainage asphalt
- Length 500 und 1000 mm, DAL II with side inlets in the line of sight upstream right, for two-layered drainage asphalt

ACCESSORIES

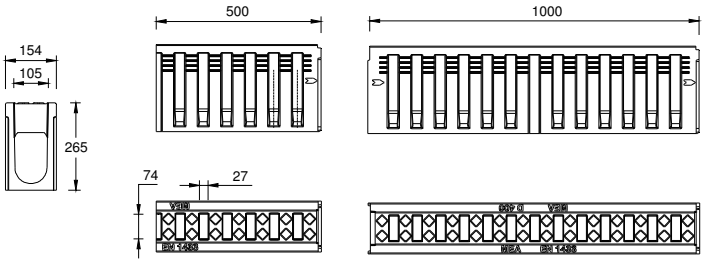
- Inspection element
- Inlet box
- Sludge bucket for inlet box
- Grate for inspection element und inlet box
- End cap closed

MEADRAIN DM 1000

A 15, B 125, C 250, D 400, E 600, F 900 nominal width 100

MONOLITHIC POLYMER CONCRETE DRAINAGE CHANNEL MEADRAIN DM 1010 WITH SEALING JOINT ACCORDING TO EN 1433

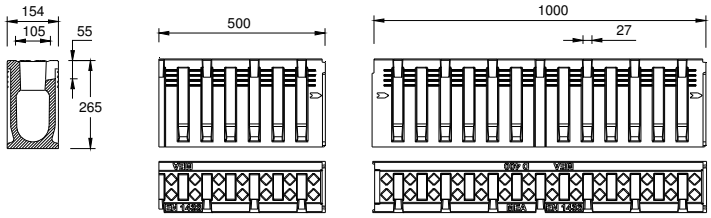
Monolithic drainage channels made of polymer concrete. Clear width 100mm, constructive width 154mm. For the realization of water level slopes. Loading classes A 15 to F 900 according to DIN EN 1433. Class D 400 also suitable for the cross drainage of expressways and motorways. Channel body with lateral inlet slots DAL/DAR I and II up to load class D 400, suitable for the drainage of 1 or 2-layer drainage asphalt. Load capacity according to specification, when installed according to the MEA installation information.



DM 1010

MEADRAIN DM 1010 MONOLITHIC DRAINAGE CHANNEL BODY MADE OF POLYMER CONCRETE, LOADING CLASS F 900 ACCORDING TO EN 1433

Description	Order No. 010…	Length in mm	Constructive height in mm	In-feed Ø in cm²	kg per piece
MEADRAIN DM 1010.0	712884	1000	265	260	47.00
MEADRAIN DM 1010.1	712886	500	265	260	23.50

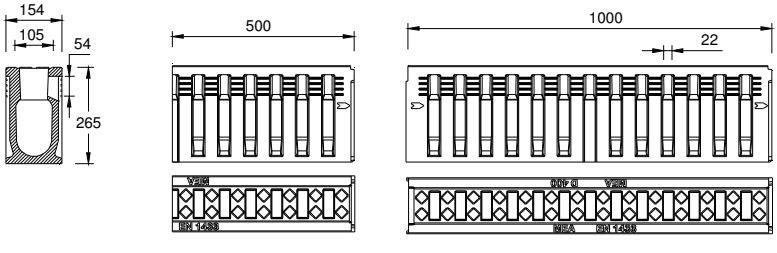


DM 1010 DAL

MEADRAIN DM 1010 DAL I AND DAR I, MONOLITHIC DRAINAGE CHANNEL BODY MADE OF POLYMER CONCRETE, LOADING CLASS D 400 ACCORDING TO EN 1433

Description	Order No. 010…	Length in mm	Constructive height in mm	In-feed in cm²/m laterally	In-feed in cm²/m above	kg per piece
MEADRAIN DM 1010.0 DAL I	712889	1000	265	91	260	46.30
MEADRAIN DM 1010.1 DAL I	712891	500	265	91	260	23.20
MEADRAIN DM 1010.0 DAR I	712893	1000	265	91	260	46.30
MEADRAIN DM 1010.1 DAR I	712895	500	265	91	260	23.20

DAL I = side inlets in the line of sight upstream left, for 1-layered drainage asphalt
DAR I = side inlets in the line of sight upstream right, for 1-layered drainage asphalt



DM 1010 DAL

TECHNICAL DATA SHEET

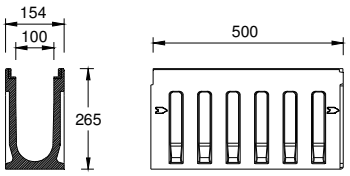
MEADRAIN DM 1000

A 15, B 125, C 250, D 400, E 600, F 900 nominal width 100

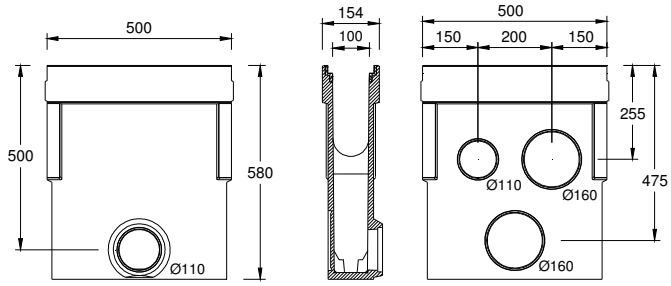
MEADRAIN DM 1010 DAL II AND DAR II, MONOLITHIC DRAINAGE CHANNEL BODY MADE OF POLYMER CONCRETE, LOADING CLASS D 400 ACCORDING TO EN 1433

Description	Order No. 010…	Length in mm	Constructive height in mm	In-feed in cm²/m laterally	In-feed in cm²/m above	kg per piece
MEADRAIN DM 1010.0 DAL II	712888	1000	265	156	260	45.60
MEADRAIN DM 1010.1 DAL II	712890	500	265	156	260	22.80
MEADRAIN DM 1010.0 DAR II	712892	1000	265	156	260	45.60
MEADRAIN DM 1010.1 DAR II	712894	500	265	156	260	22.80

DAL II = side inlets in the line of sight upstream left for two-layered drainage asphalt
DAL II = side inlets in the line of sight upstream right for two-layered drainage asphalt



DM 1010.R

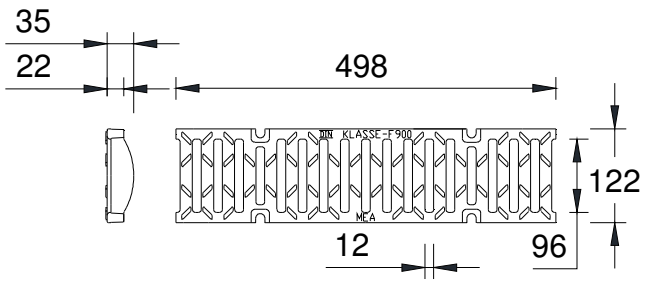


DM 1010.EK

INSPECTION ELEMENT AND INLET BOX FOR MEADRAIN DM 1010

Description	Order No. 010…	Length in mm	Constructive height in mm	kg per piece
MEADRAIN DM 1010.R inspection element made of polymer concrete with cast iron edge [1)]	712896	500	265	17.70
MEADRAIN DM 1010.EK inlet box made of polymer concrete with cast iron edge without sludge bucket [1)]	712898	500	580	25.50
MEADRAIN sludge bucket made of plastic for MEADRAIN DM 1010.EK	710065	440	264	0.39

1) Inlet box and inspection element not suitable for use within in dynamically loaded areas.



GRATING COVER FOR MEADRAIN DM 1010 INLET BOX AND INSPECTION ELEMENT, LOADING CLASS F 900 ACCORDING TO EN 1433, SCREWABLE 4-FOLD

Description	Order No. 010…	Material	In-feed Ø cm²/m	Length in mm	kg per piece
Cast iron slotted grating 12/100 Loading class F 900	153094	Die-cast GGG	368	500	4.85

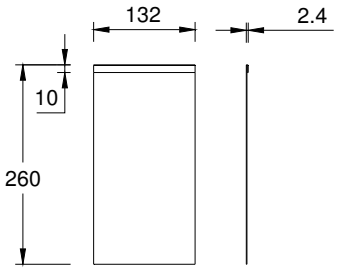
MEADRAIN DM 1000

A 15, B 125, C 250, D 400, E 600, F 900 nominal width 100

BUILDING SUCCESS

GRATING PROTECTION

Description	Order No. 010…	Material	kg per piece
Grating protection for 4-way screwable grates 4 items per grate are required Tightening torque 20NM	153096	Black galvanized	0.02
Grating protection for 4-way screwable grates 4 items per grate are required Tightening torque 20NM	153098	Stainless steel	0.02



DM 1010.SE

END CAP FOR MEADRAIN DM 1010

Description	Order No. 010…	Material	kg per piece
MEADRAIN DM 1010.SE End cap for the beginning and end of channels	712900	Galvanized steel	0.30

The surface coating of castings only has a temporary, cosmetic function.
Through surface oxidation, cast iron is virtually impervious to
environmental influences (e.g. thawing salt). Superficial rust does not constitute a product defect.
It goes without saying that even the absence of surface coating complies
with the relevant standards.

This edition of the technical data sheet shall be valid from January 2018 until a revised version is published, and replaces any previous publications. The respectively current version is available for download at www.mea-group.com.

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