TECHNICAL DATA SHEET

MEADRAIN DM 1500

A 15, B 125, C 250, D 400, E 600, F 900 nominal width 150

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 2-layer drainage asphalt.

DESIGN

- Length 500 and 1000 mm
- 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
- Constructive height 280 and 480 mm for all elements

ACCESSORIES

- Inspection element
- Sediment bucket top part
- Sediment bucket intermediate part
- Sediment bucket bottom part with drain socket Ø 160mm
- Sediment bucket bottom part with drain socket Ø 200mm
- sediment bucket
- Grates for inspection element und sediment bucket
- End cap closed

TECHNICAL DATA SHEET

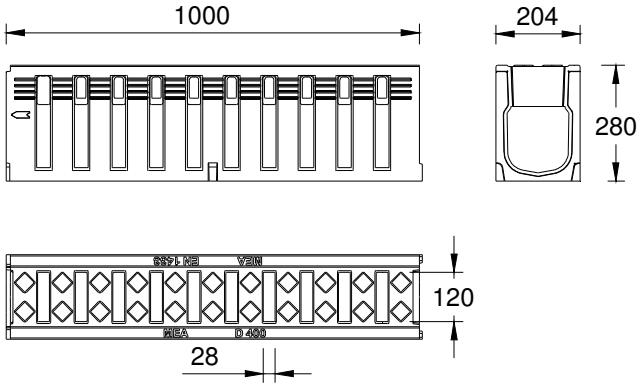
MEADRAIN DM 1500

A 15, B 125, C 250, D 400, E 600, F 900 nominal width 150

BUILDING SUCCESS

MONOLITHIC POLYMER CONCRETE DRAINAGE CHANNEL MEADRAIN DM 1500 WITH SEALING JOINT ACCORDING TO EN 1433

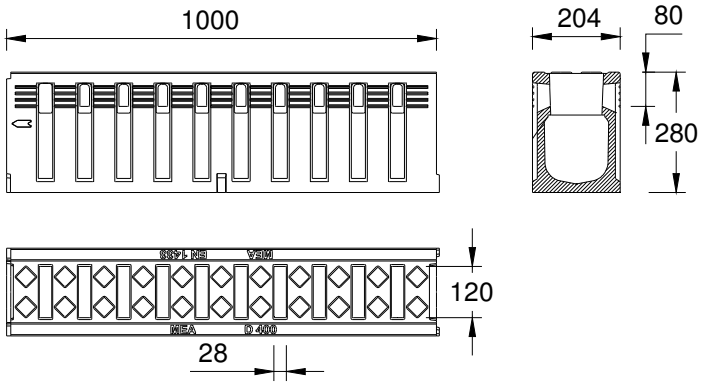
Monolithic drainage channels made of polymer concrete. Clear width 150mm, constructive width 204mm. For the realization of water level slopes. Loading classes A 15 to F 900 according to DIN EN 1433. Class D 400 also suitable for the cross drainage of expressways and motorways. Channel body with lateral inlet slots DAL/DAR II up to load class D 400, suitable for the drainage of 2-layer drainage asphalt. Load capacity according to specification, when installed according to the MEA installation information.



DM 1500.0

MEADRAIN DM 1500 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 1500.0	712938	1000	280	377	63.00
MEADRAIN DM 1500.1	712940	500	280	377	32.00



DM 1500.0 DAL/DAR

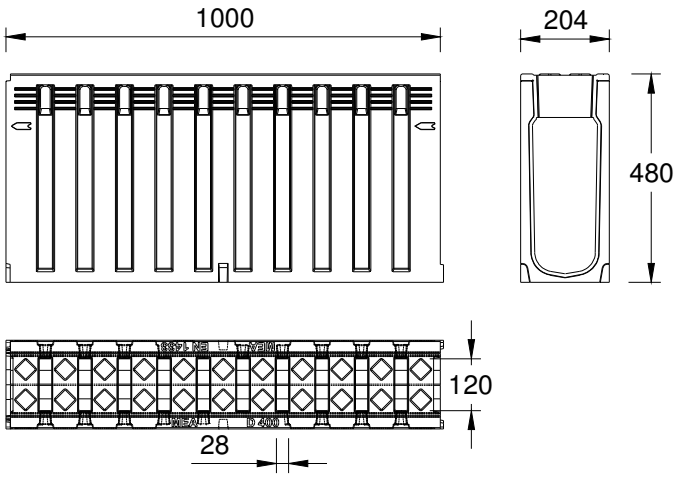
MEADRAIN DM 1500 DAL II AND DAR II, MONOLITHIC DRAINAGE CHANNEL BODY MADE OF POLYMER CONCRETE, LOADING CLASS D 400 ACCORDING TO EN 1433

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 1500.0 DAL II	712956	1000	280	116	377	62.00
MEADRAIN DM 1500.1 DAL II	712958	500	280	116	377	31.50
MEADRAIN DM 1500.0 DAR II	712946	1000	280	116	377	62.00
MEADRAIN DM 1500.1 DAR II	712948	500	280	116	377	31.50

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

MEADRAIN DM 1500

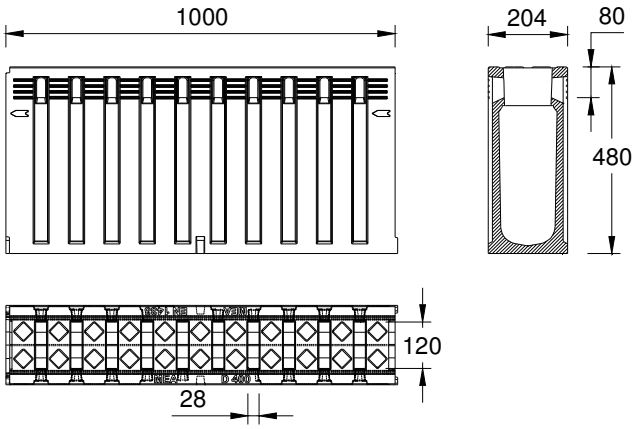
A 15, B 125, C 250, D 400, E 600, F 900 nominal width 150



DM 1540.0

MEADRAIN DM 1540 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 1540.0	712902	1000	480	377	86.50
MEADRAIN DM 1540.1	712904	500	480	377	43.00



DM 1540.0 DAL/DAR

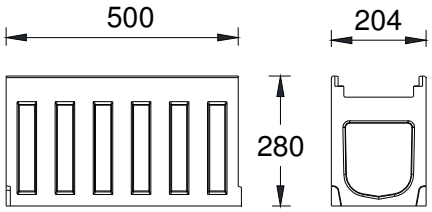
MEADRAIN DM 1540 DAL II AND DAR II, MONOLITHIC DRAINAGE CHANNEL BODY MADE OF POLYMER CONCRETE, LOADING CLASS D 400 ACCORDING TO EN 1433

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 1540.0 DAL II	712906	1000	480	116	377	85.50
MEADRAIN DM 1540.1 DAL II	712908	500	480	116	377	43.00
MEADRAIN DM 1540.0 DAR II	712910	1000	480	116	377	85.50
MEADRAIN DM 1540.1 DAR II	712912	500	480	116	377	43.00

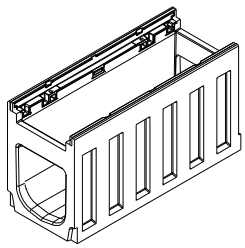
DAL II = side inlets in the line of sight upstream left for two-layered drainage asphalt
DAL II = side inlets in the line of sight upstream right for two-layered drainage asphalt

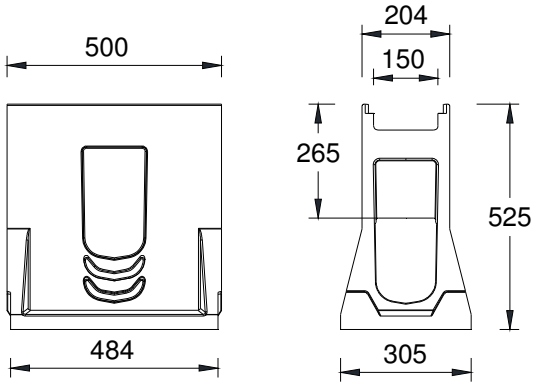
MEADRAIN DM 1500

A 15, B 125, C 250, D 400, E 600, F 900 nominal width 150

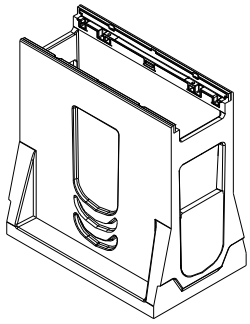


DM 1500.0 R



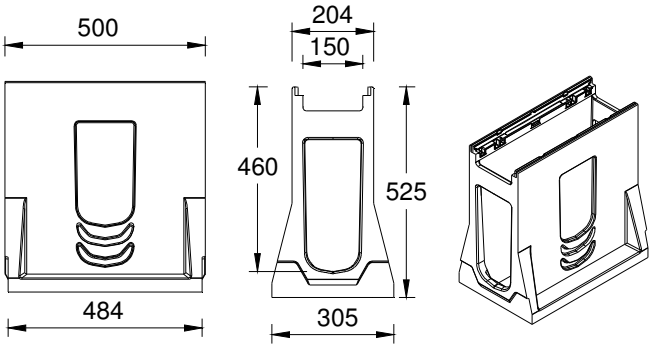


DM 1500.0 SK-OT

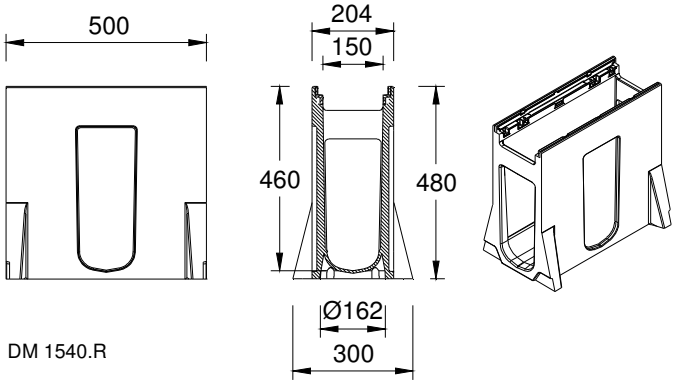


INSPECTION ELEMENT AND SEDIMENT BUCKET FOR MEADRAIN DM 1500

Description	Order No. 010…	Length in mm	Constructive height in mm	kg per piece
MEADRAIN DM 1500.R inspection element [1)]	712950	500	280	20.70
MEADRAIN DM 1500.SK-OT sediment bucket upper part [1)]	712952	500	525	43.50



DM 1540.0 SK-OT



DM 1540.R

MEADRAIN DM 1500

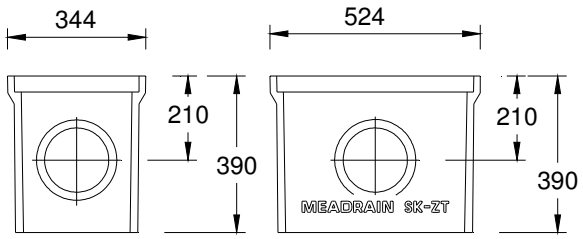
A 15, B 125, C 250, D 400, E 600, F 900 nominal width 150

BUILDING SUCCESS

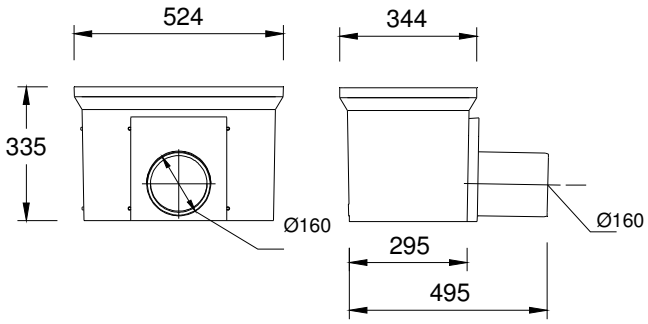
INSPECTION ELEMENT AND SEDIMENT BUCKET FOR MEADRAIN DM 1540

Description	Order No. 010…	Length in mm	Constructive height in mm	kg per piece
MEADRAIN DM 1540.R inspection element [1)]	712914	500	480	36.50
MEADRAIN DM 1540.SK-OT sediment bucket upper part [1)]	712916	500	525	41.50

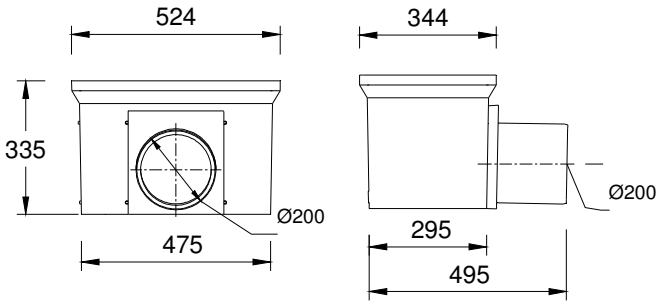
1) Inlet box and inspection element not suitable for use within in dynamically loaded areas.



SK-ZT



SK-UT Ø 160



SK-UT Ø 200

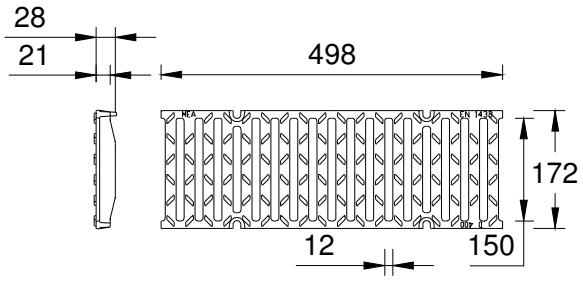
MEADRAIN DM 1500

A 15, B 125, C 250, D 400, E 600, F 900 nominal width 150

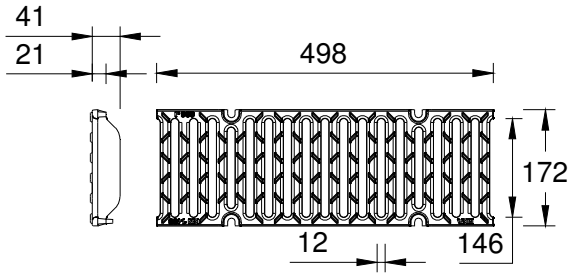
BUILDING SUCCESS

SEDIMENT BUCKET FOR MEADRAIN DM 1500 AND DM 1540

Description	Order No. 010…	Length in mm	Constructive height in mm	kg per piece
MEADRAIN SK-ZT intermediate part for overall build height extension	154709	524	390	22.00
MEADRAIN SK-UT short sediment bucket bottom part short with an integrated drain socket Ø 160mm	154726	524	350	25.60
MEADRAIN SK-UT short sediment bucket bottom part short with an integrated drain socket Ø 200mm	154728	524	350	25.70
MEADRAIN Sediment bucket made of galvanised steel for sediment bucket MEADRAIN DM 1500 and DM 1540	151846	-	-	3.10



010151173



010151169

GRATING COVER FOR MEADRAIN DM 1500 AND DM 1540 INLET BOX AND INSPECTION ELEMENT, LOADING CLASSES D 400 AND 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 12/150 Loading class D 400	151173	Die-cast GGG	630	500	6.50
Cast iron slotted grating 12/134 Loading class F 900	151169	Die-cast GGG	523	500	8.20

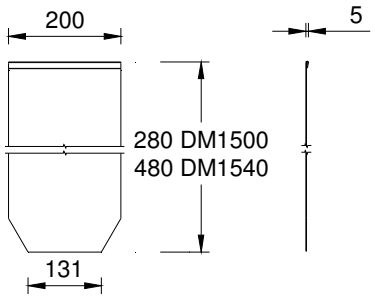
GRATING PROTECTION

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

The surface coating of castings only has a temporary, cosmetic function. Cast iron is virtually impervious to environmental influences through surface oxidation (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.

MEADRAIN DM 1500

A 15, B 125, C 250, D 400, E 600, F 900 nominal width 150



DM 1500.SE
DM 1540.SE

END CAP FOR MEADRAIN DM 1500

Description	Order No. 010…	Material	kg per piece
MEADRAIN DM 1500.SE End cap for the beginning and end of channels	712954	Galvanized steel	0.65

END CAP FOR MEADRAIN DM 1540

Description	Order No. 010…	Material	kg per piece
MEADRAIN DM 1540.SE End cap for the beginning and end of channels	712918	Galvanized steel	1.15

This edition of the technical data sheet shall be valid from February 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/de/water-management .

MEA Bautechnik GmbH
Business Unit MEA Water Management
Sudetenstraße 1
86551 Aichach
Tel.: +49 (0) 82 51. 91 0
Fax: +49 (0) 82 51. 91 13 06
E-Mail: info@mea-group.com
www.mea-group.com