TECHNICAL DATA SHEET

MEADRAIN DM 2000

A 15, B 125, C 250, D 400, E 600, F 900 nominal width 200

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 320, 420, 520 and 570 mm

ACCESSORIES

- Inspection element
- Inspection element with PE-HD connection piece Ø 200 mm
- 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

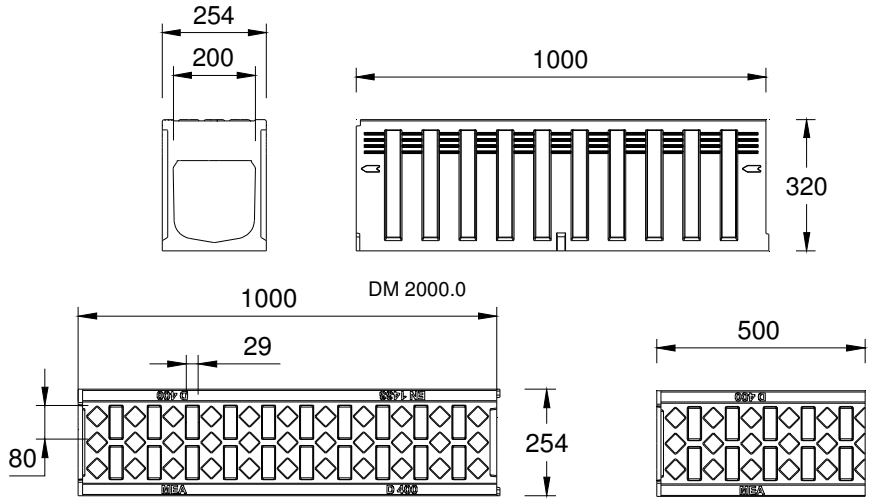
MEADRAIN DM 2000

A 15, B 125, C 250, D 400, E 600, F 900 nominal width 200

BUILDING SUCCESS

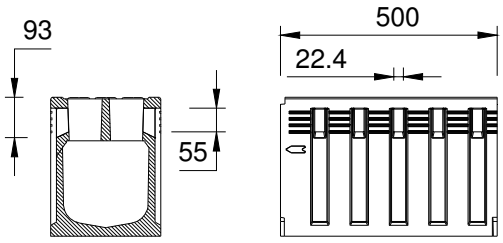
MONOLITHIC POLYMER CONCRETE DRAINAGE CHANNEL MEADRAIN DM 2000 WITH SEALING JOINT ACCORDING TO EN 1433

Monolithic drainage channels made of polymer concrete. Clear width 200mm, constructive width 254mm. For the realization of water level slopes. Loading classes A 15 to E 600 and F 900 according to 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.



MEADRAIN DM 2000 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 in cm²/m	kg per piece
MEADRAIN DM 2000.0	712357	1000	320	560	77.00
MEADRAIN DM 2000.1	712359	500	320	560	38.00



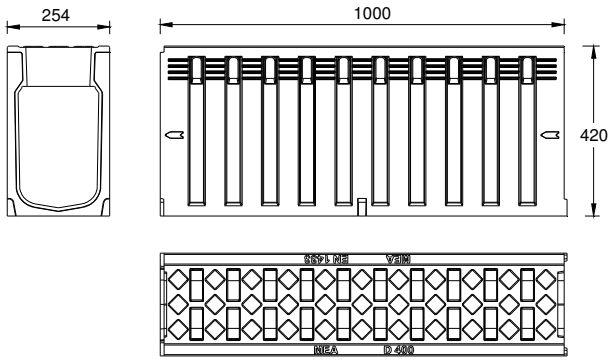
MEADRAIN DM 2000 DAL II AND DAR II, MONOLITHIC DRAINAGE CHANNEL BODY MADE OF POLYMER CONCRETE, LOADING CLASS D 400 ACCORDING TO EN 1433

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 2000.0 DAL II	712387	1000	320	125	560	76.00
MEADRAIN DM 2000.1 DAL II	712388	500	320	125	560	38.00
MEADRAIN DM 2000.0 DAR II	712393	1000	320	125	560	76.00
MEADRAIN DM 2000.1 DAR II	712394	500	320	125	560	38.00

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 2000

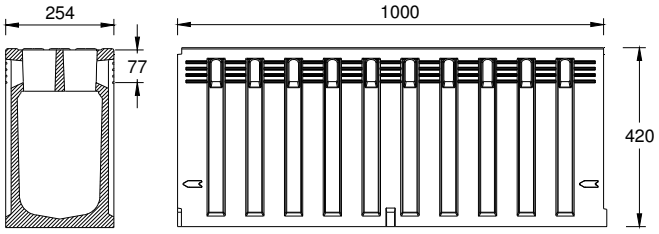
A 15, B 125, C 250, D 400, E 600, F 900 nominal width 200



DM 2020.0

MEADRAIN DM 2020 MONOLITHIC DRAINAGE CHANNEL BODY MADE OF POLYMER CONCRETE, LOADING CLASS E 600 ACCORDING TO EN 1433

Description	Order No. 010…	Length in mm	Constructive height in mm	In-feed in cm²/m	kg per piece
MEADRAIN DM 2020.0	712804	1000	420	560	90.00
MEADRAIN DM 2020.1	712806	500	420	560	45.00



DM 2020.0 DAL/DAR

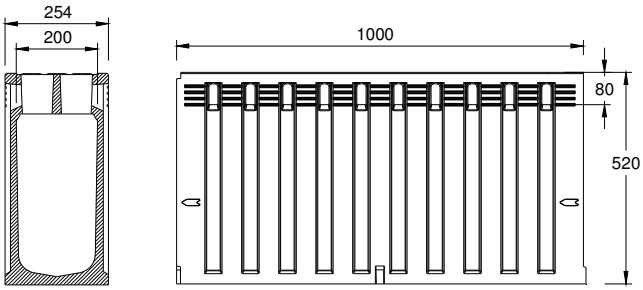
MEADRAIN DM 2020 DAL II AND DAR II, MONOLITHIC DRAINAGE CHANNEL BODY MADE OF POLYMER CONCRETE, LOADING CLASS D 400 ACCORDING TO EN 1433

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 2020.0 DAL II	712808	1000	420	125	560	89.00
MEADRAIN DM 2020.1 DAL II	712810	500	420	125	560	44.50
MEADRAIN DM 2020.0 DAR II	712812	1000	420	125	560	89.00
MEADRAIN DM 2020.1 DAR II	712814	500	420	125	560	44.50

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 2000

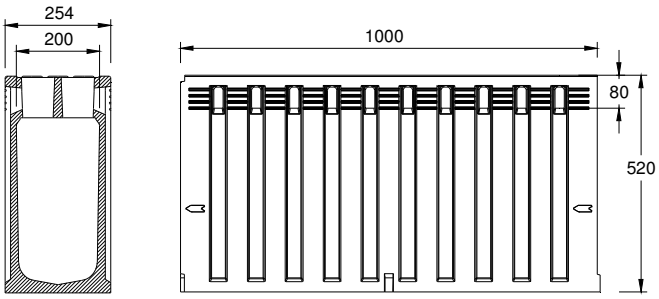
A 15, B 125, C 250, D 400, E 600, F 900 nominal width 200



DM 2040.0

MEADRAIN DM 2040 MONOLITHIC DRAINAGE CHANNEL BODY MADE OF POLYMER CONCRETE, LOADING CLASS E 600 ACCORDING TO EN 1433

Description	Order No. 010…	Length in mm	Constructive height in mm	In-feed in cm²/m	kg per piece
MEADRAIN DM 2040.0	712782	1000	520	560	102.00
MEADRAIN DM 2040.1	712784	500	520	560	51.00



DM 2040.0 DAL/DAR

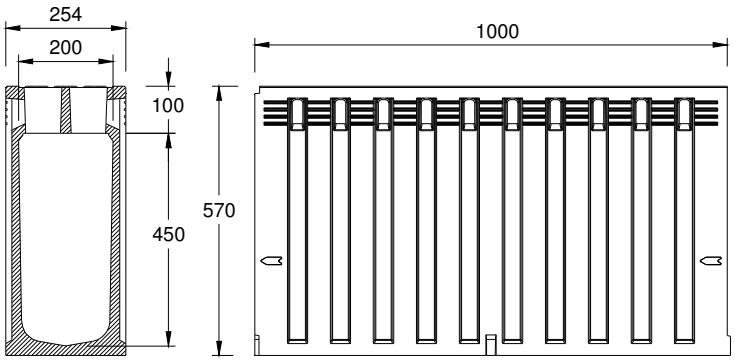
MEADRAIN DM 2040 DAL II AND DAR II, MONOLITHIC DRAINAGE CHANNEL BODY MADE OF POLYMER CONCRETE, LOADING CLASS D 400 ACCORDING TO EN 1433

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 2040.0 DAL II	712920	1000	520	125	560	101.00
MEADRAIN DM 2040.1 DAL II	712922	500	520	125	560	50.50
MEADRAIN DM 2040.0 DAR II	712924	1000	520	125	560	101.00
MEADRAIN DM 2040.1 DAR II	712926	500	520	125	560	50.50

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 2000

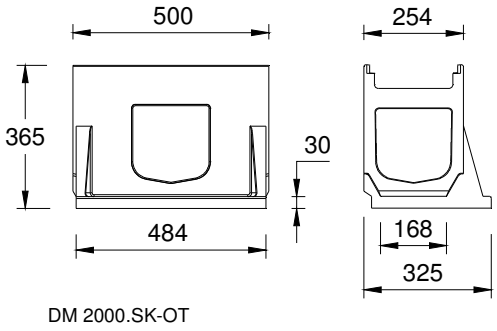
A 15, B 125, C 250, D 400, E 600, F 900 nominal width 200



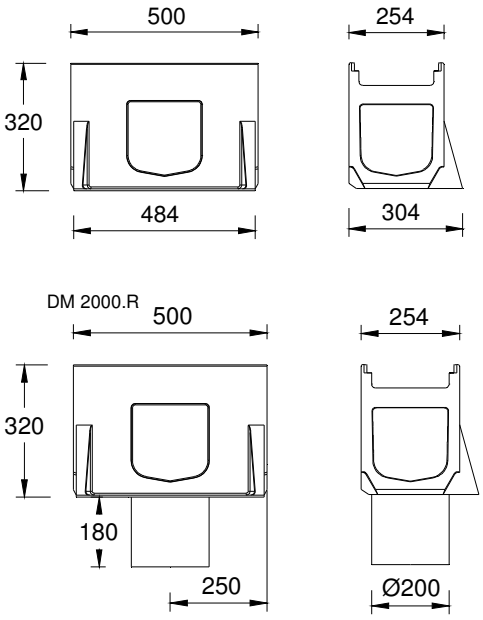
DM 2050.0

MEADRAIN DM 2050 MONOLITHIC DRAINAGE CHANNEL BODY MADE OF POLYMER CONCRETE, LOADING CLASS E 600 ACCORDING TO EN 1433

Description	Order No. 010…	Length in mm	Constructive height in mm	In-feed in cm²/m	kg per piece
MEADRAIN DM 2050.0	712762	1000	570	560	109.00
MEADRAIN DM 2050.1	712764	500	570	560	54.10



DM 2000.SK-OT



DM 2000.R/A

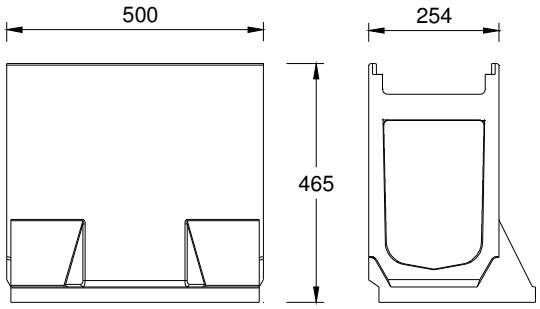
INSPECTION ELEMENT AND SEDIMENT BUCKET FOR MEADRAIN DM 2000

Description	Order No. 010…	Length in mm	Constructive height in mm	kg per piece
MEADRAIN DM 2000.R inspection element [1)]	712381	500	320	25.50
MEADRAIN DM 2000.R/A Inspection element with PE-HD connection piece Ø 200 mm [1)]	712382	500	320	26.00
MEADRAIN DM 2000.SK-OT sediment bucket upper part [1)]	712369	500	365	25.00

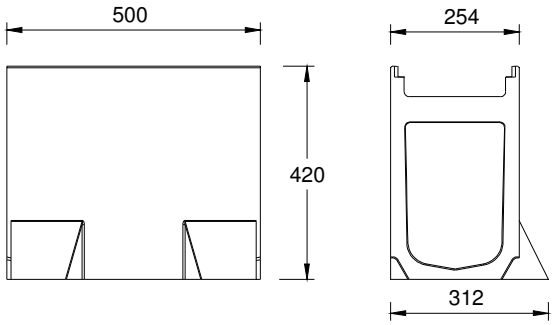
1) Inlet box and inspection element not suitable for use within in dynamically loaded areas.

MEADRAIN DM 2000

A 15, B 125, C 250, D 400, E 600, F 900 nominal width 200



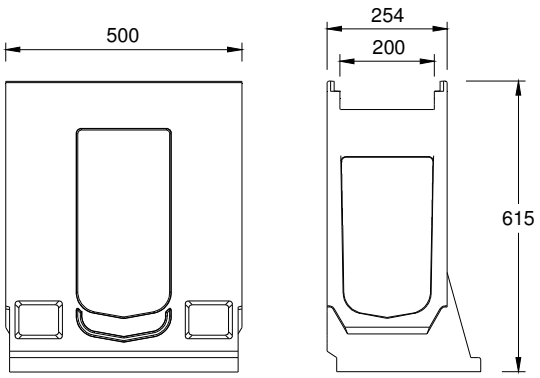
DM 2020.0 SK-OT



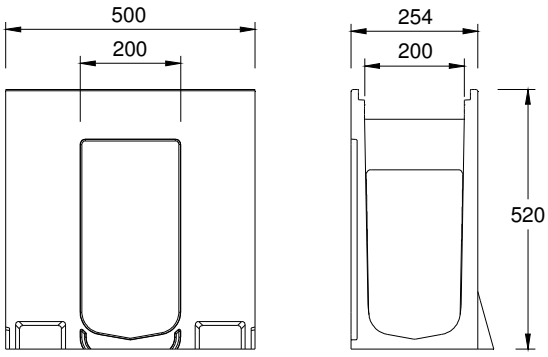
DM 2020.0 R

INSPECTION ELEMENT AND SEDIMENT BUCKET FOR MEADRAIN DM 2020

Description	Order No. 010…	Length in mm	Constructive height in mm	kg per piece
MEADRAIN DM 2020.R inspection element [1)]	712818	500	420	35.00
MEADRAIN DM 2020.R/A Inspection element with PE-HD connection piece Ø 200 mm [1)]	712820	500	420	35.50
MEADRAIN DM 2020.SK-OT sediment bucket upper part [1)]	712816	500	465	36.00



DM 2040.SK-OT



DM 2040.R

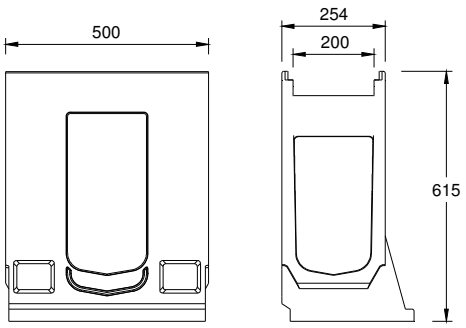
INSPECTION ELEMENT AND SEDIMENT BUCKET FOR MEADRAIN DM 2040

Description	Order No. 010…	Length in mm	Constructive height in mm	kg per piece
MEADRAIN DM 2040.R inspection element [1)]	712786	500	520	41.20
MEADRAIN DM 2040.SK-OT sediment bucket upper part [1)]	712798	500	615	46.00

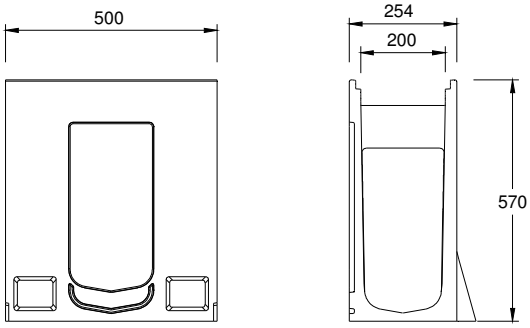
1) Inlet box and inspection element not suitable for use within in dynamically loaded areas.

MEADRAIN DM 2000

A 15, B 125, C 250, D 400, E 600, F 900 nominal width 200



DM 2050.SK-OT



DM 2050.R

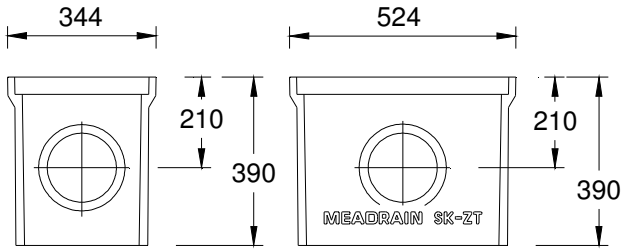
INSPECTION ELEMENT AND SEDIMENT BUCKET FOR MEADRAIN DM 2050

Description	Order No. 010…	Length in mm	Constructive height in mm	kg per piece
MEADRAIN DM 2050.R inspection element [1)]	712766	500	570	45.20
MEADRAIN DM 2050.R/A Inspection element with PE-HD connection piece Ø 200 mm [1)]	712768	500	570	45.50
MEADRAIN DM 2050.SK-OT sediment bucket upper part [1)]	712778	500	615	45.50

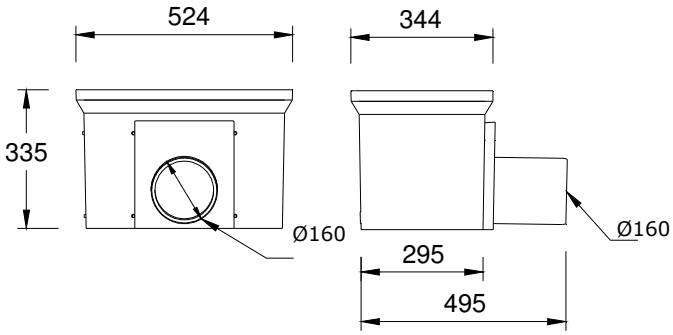
1) Inlet box and inspection element not suitable for use within in dynamically loaded areas.

MEADRAIN DM 2000

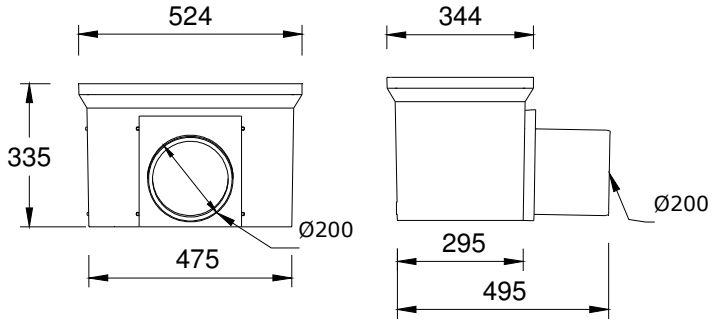
A 15, B 125, C 250, D 400, E 600, F 900 nominal width 200



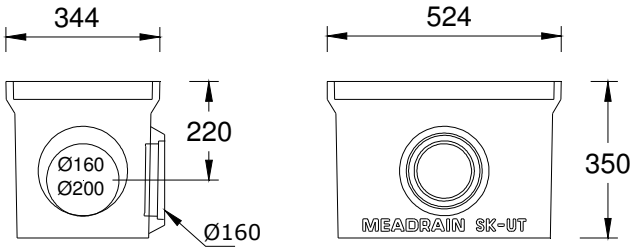
SK-ZT



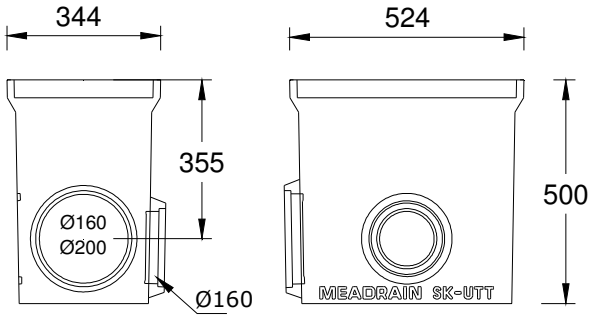
SK-UT 160



SK-UT 200



SK-UT short



SK-UT long

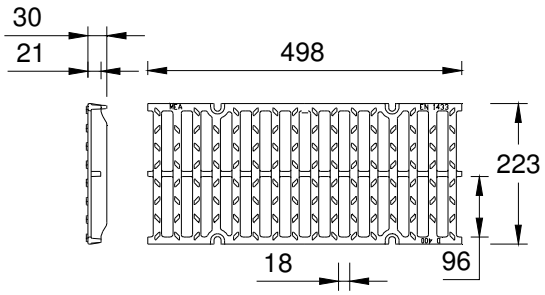
SEDIMENT BUCKET ACCESSORIES FÜR ALLE CONSTRUCTIVE HEIGHTS MEADRAIN DM 2000 TO DM 2050

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 moulded insert for drains Ø 160 / 200 mm 2)	154711	524	350	24.00
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 SK-UT deep sediment bucket bottom part deep with moulded insert for drains Ø 160 / 200 mm 2)	154719	524	500	33.60
MEADRAIN Sediment bucket made of galvanised steel for sediment bucket MEADRAIN DM 2000 to DM 2050	154717	500	320	3.50

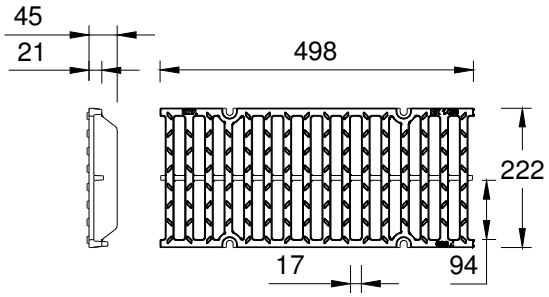
2) Liquid-tight connection with lip seal possible, lip seal not included in scope of delivery.

MEADRAIN DM 2000

A 15, B 125, C 250, D 400, E 600, F 900 nominal width 200



010154236



010154237

GRATING COVER FOR MEADRAIN DM 2000 AND DM 2050 SEDIMENT BUCKET 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 18/96 Loading class D 400	154236	Die-cast GGG	962	500	7.40
Cast iron slotted grating 17/94 Loading class F 900	154237	Die-cast GGG	960	500	11.60

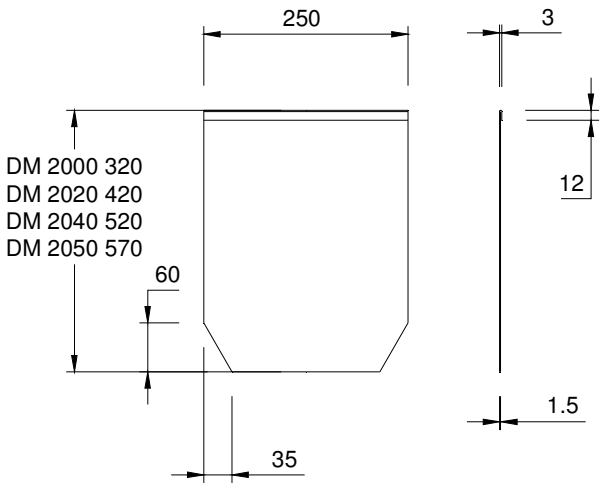
GRATING PROTECTION

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 2000

A 15, B 125, C 250, D 400, E 600, F 900 nominal width 200



END CAP FOR SEDIMENT BUCKET MEADRAIN DM 2000 TO DM 2050

Description	Order No. 010…	Material	kg per piece
MEADRAIN DM 2000.SE End cap for the beginning and end of channels	7123754	Galvanized steel	0.60
MEADRAIN DM 2020. SE End cap for the beginning and end of channels	712822	Galvanized steel	0.80
MEADRAIN DM 2040. SE End cap for the beginning and end of channels	712800	Galvanized steel	0.90
MEADRAIN DM 2050. SE End cap for the beginning and end of channels	712780	Galvanized steel	1.00

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.

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