WATER MANAGEMENT



MEADRAIN S PROFESSIONAL ALL-ROUND TALENT-MADE OF POLYMERE CONCRETE



DRAINAGE SYSTEM MADE OF HIGH-QUALITY POLYMER CONCRETE

PROFESSIONAL DRAINAGE SOLUTIONS UP TO LOADING CLASS E 600 MEADRAIN SV / SVF / SE / SEF / SG / SGF MEADRAIN SVS / SES / SGS

MEADRAIN S UNIVERSAL RAIN WATER DRAINAGE SYSTEM







MEADRAIN SV/SE/SG SYSTEM OVERVIEW

MEADRAIN SV/SE 1000	Clear width: 100mm Total width: 133mm Total heights: from 150 up to 305mm	 Drainage channel body for linear fall (0.5%), stepped fall with transition piece and without fall Also with integrated drain connection Loading classes A 15 to E 600* Edge made of glavanised steel (SV) or stainless steel (SE)
MEADRAIN SV/SE 1500	Clear width: 150mm Total width: 183mm Total heights: from 220 up to 320mm	 Drainage channel body for linear fall (0.5%), stepped fall with transition piece and without fall Also with integrated drain connection Loading classes A 15 to E 600* Edge made of glavanised steel (SV) or stainless steel (SE)
MEADRAIN SV/SE 2000	Clear width: 200mm Total width: 233mm Total heights: from 280 up to380mm	 Drainage channel body for linear fall (0.5%), stepped fall with transition piece and without fall Also with integrated drain connection Loading classes A 15 to E 600* Edge made of glavanised steel (SV) or stainless steel (SE)
MEADRAIN SG 1000	Clear width: 100mm Total width: 133mm Total heights: from 150 up to 305mm	 Drainage channel body for linear fall (0.5%), stepped fall with transition piece and without fall Also with integrated drain connection Loading classes A 15 to E 600* Edge made of ductile iron
MEADRAIN SG 1500	Clear width: 150mm Total width: 183mm Total heights: from 220 up to 320mm	 Drainage channel body for linear fall (0.5%), stepped fall with transition piece and without fall Also with integrated drain connection Loading classes A 15 to E 600* Edge made of ductile iron
MEADRAIN SG 2000	Clear width: 200mm Total width: 233mm Total heights: from 280 up to 380mm	 Drainage channel body without fall Also with integrated drain connection Loading classes A 15 to E 600* Edge made of ductile iron

 * From loading class D 400 not suitable for cross drainage of high speed roads and motorways.

MEADRAIN FLAT CANNELS SVF/SEF/SGF SYSTEM OVERVIEW



* From loading class D 400 not suitable for cross drainage of high speed roads and motorways.





MEADRAIN SVS/SES/SGS SYSTEM OVERVIEW



MEADRAIN SVS/SES 3000

Clear width: 300 mm Total width: 333 mm Total height: 300 mm

- / Drainage channel body without fall
- Also with integrated drain connection
- Loading classes A 15 to E 600*
- Edge made of glavanised steel (SVS) or stainless steel (SES)



MEADRAIN SGS 3000

Clear width: 300 mm Total width: 333 mm Total height: 300 mm

- / Drainage channel body without fall
- Also with integrated drain connection
- Loading classes A 15 to E 600*
- Edge made of ductile iron

 * From loading class D 400 not suitable for cross drainage of high speed roads and motorways.

MEADRAIN S DRAINAGE SYSTEMS UNIVERSAL DRAINAGE SYSTEM

MEA Water Management is one of the market leaders in the field of rain water harvesting (collecting, retaining, treating and reusing rainwater), providing solid and intelligent solutions for all possible fields of applications.

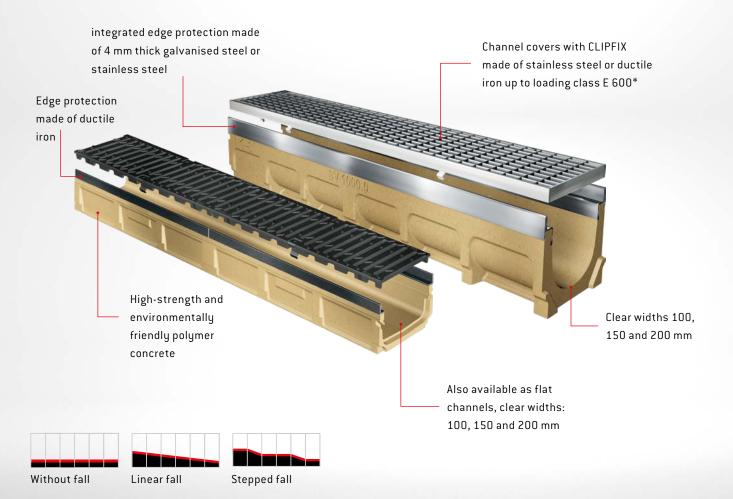
Our MEADRAIN S channel product portfolio has been designed to provide a maximum of flexibility in using rain water drainage channel for loading classes up to E 600. Our "universal" drainage channel made of polymer concrete cover all possible application fields, from landscaping to industrial areas with maximum traffic and charges. The MEADRAIN S drainage channels are available with edges made of gavanised and stainless steel as well as of ductile iron, providing a solution for every typ of project. The system is available in 4 differents widths (100, 150, 200 and 300 mm) and various heights (from flat to high capacity channels).

The package is completed with a large choice of gratings in different designs and materials.

MEADRAIN SV/SVF/SE/SEF/SG/SGF and MEADRAIN SVS/ SES/SGS: Our drainage channel system for all applications

MEADRAIN S

- The universal drainage system made of polymer concrete
- Loading classes A 15 to E 600*



MEADRAIN SV/SE/SG AND SVF/SEF/SGF FOR MAXIMUM FLEXIBILITY

The MEADRAIN SV/SE/SG and SVF/SEF/SGF drainage channels made of polymer concrete are the perfect allrounder of the MEA product portfolio:

Made for:

- / Landscaping
- Cities, roads and parking areas
- Industrial and logistic areas

The MEADRAIN SV/SE/SG, SVF/SGF/SEF drainage channels with 4 mm edges made of galvanised steel, stainless steel and duc-

tile iron have been designed for maximum stability and easy installation. Loading class up to E 600*.

- ADA die-cast gratings for a handicapped accessible construction
- Die-cast grating heelguard for a safe access with high heels
- High-quality die-cast grating
- Mesh and slotted gratings with a longitudinal shift protection
- Slotted grating made of galvanised steel or PAG
- Longitudinal bar grating

* From loading class D 400 not suitable for cross drainage of high speed roads and motorways.

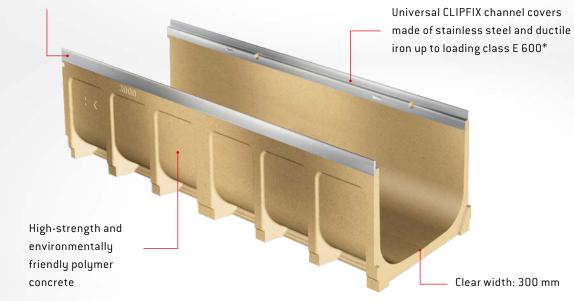
MEADRAIN SVS/SES/SGS BEST POSSIBLE VALUE FOR MONEY

The polymer concrete drainage channels MEADRAIN SVS/ SES/SGS are making the difference in offering the best price/performance ration for projects with loading class up to E 600*.

The channels are available with edges made of galvanised steel (MEADRAIN SVS), stainless steel (MEADRAIN SES) and ductile iron (MEADRAIN SGS). Available in 300 mm width the channel product program is completed with a large choice of gratings and accessories. MEADRAIN SVS/SES/SGS combines high quality with long lasting lifecycle.

- / Drainage channel made of high quality polymer concrete
- Excellent value for money
- Loading class E 600*
- Easy to install

integrated edge protection made of 4 mm thick galvanised steel, stainless steel or ductile iron







Slotted grating made of galvanised steel

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Mesh grating made of stainless steel

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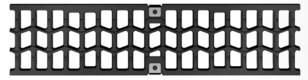
Longitudinal bar grating



Plastic slotted grating



Ductile iron slotted grating



Ductile iron grating "WAVE"

CLIPFIX UNIVERSAL CHANNEL COVERS

MEA offers a wide range of covers for MEARIN channels systems that are not just functional, but also especially set accents in the field of product design.

From efficient mesh grates to classic slotted grates, MEA stands for quality, innovation and creativity.

Slotted grating made of galvanised steel or PAG:

- The intelligent slot/grating design is a visual alternative to mesh grates. Particularly stable and weather resistant
- Loading classes A 15 to C 250

Mesh gratings:

- / Gratings made of galavanised or stainless steel
- Loading classes A 15 to D 400

Longitudinal bar gratings:

- The aesthetic solution made of galvanised steel, stainless steel or ductile iron
- Loading classes from A 15 up to E 600

Ductile iron slotted gratings and ductile iron WAVE:

- Especially suitable for extreme loads and heavily frequented areas.
- Loading classes C 250 to E 600

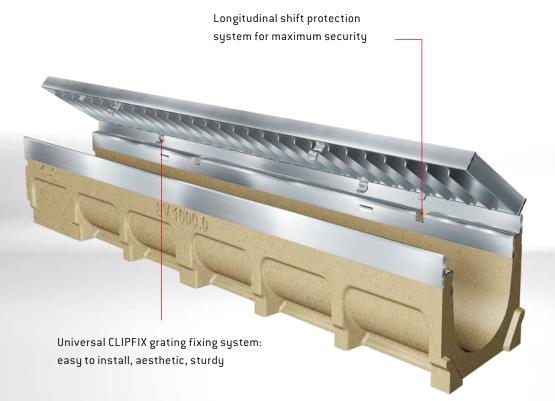
CLIPFIX UNIVERSAL GRATING FIXING MECHANISM

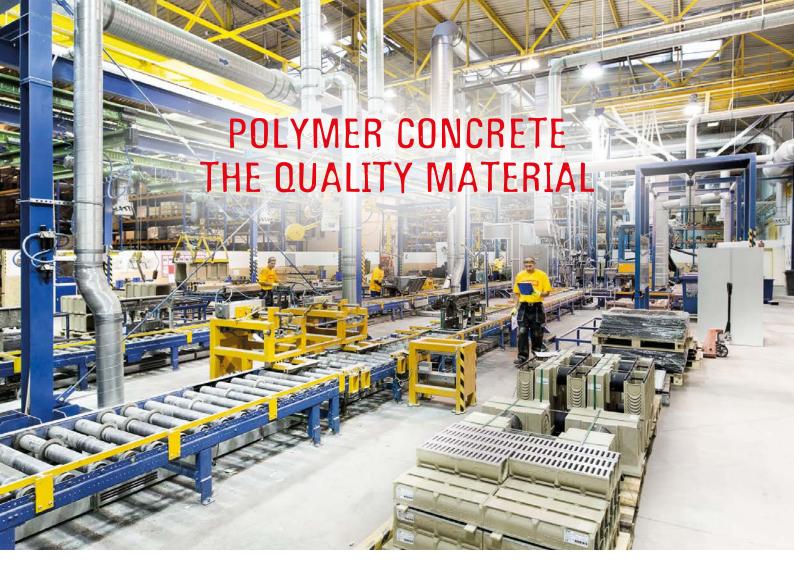


The MEADRAIN S channels have been designed and optimised for our universal CLIPFIX grating fixing mechanism with longitudinal shift protection. The advantage: a large choice of gratings and an easy to understand product program.



Thanks to the CLIPFIX system, the channel and the grating offer an aestheticly pleasing solution when mounted, because no locking devices or screws are appearant on the outside.





MEA POLYMER CONCRETE

The special polymer concrete from MEA is remarkable for its outstanding physical and chemical properties. These make it an extremely reliable and versatile material in even the toughest conditions.

MEA polymer concrete channels are particularly eco-friendly. Mostly made out of minerals, polymer concrete channels are easy to recycle. Because of the quality material channels have a particularly long lifetime, saving future investments and unnecessary new building sites. Polymer concrete channels are the more extremely resistant to liquid chemicals and acids, making them the perfect protection devices for the environment and ground waters.

Last but not least, polymer concrete channels are significantly lighter than comparable concrete channels, making them considerably easier to install.

MATERIAL CHARACTERISTICS

> 90 N/mm ²		
> 22 N/mm ²		
Below 0.05%		
25-35 kN/mm ²		
2.1 - 2.3 kg/dm²		
0 mm ²		
Capillary-free — ideal for		
the rapid discharge of water		
and dirt particles		
Significantly lighter than		
conventional concrete		
channels		
Suitable for grinding disks,		
rock drills and chisels		
Eco-friendly building		
material with mineral		
admixtures		
Entirely frost proof,		
wear-resilient, and		
maintenance-free.		
Highly resistant to liquid		

THE ADDITIONAL PRODUCT PORTFOLIO OF MEA WATER MANAGEMENT



MEARIN PG EVO Drainage system for multi-storey car parks



MEATEC Professional drainage system for façades and terraces



MEARIN Professional lightweight drainage system made of GRP



MEADRAIN TRAFFIC Professional drainage systems for high speed roads and motorways

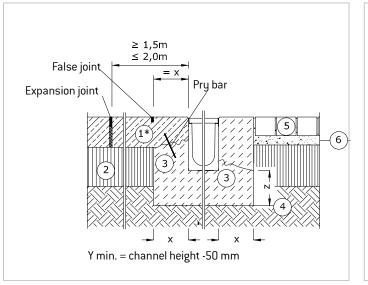
INSTALLATION INSTRUCTIONS

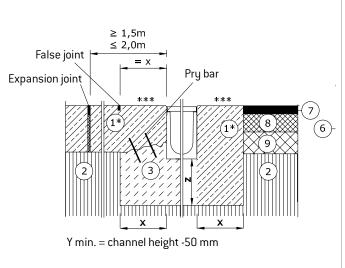
Floor channel area and untraveled road shoulders and similar. (Test force 250 kN)



Lanes of roadways (also pedestrian roads), shoulders of roads and parking areas approved for all types of road vehicles. (Test force 400 kN)

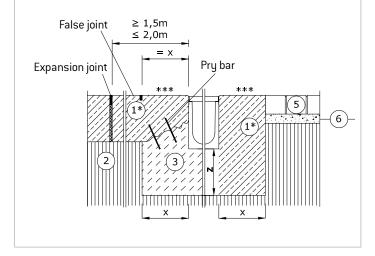






Areas that are driven upon by high wheel loads, e.g. harbours and dock facilities. (Test force 600 kN)





- ② Base course according to Rst0
 ③ Concrete coating
 ④ Grown soil
 ⑤ Pavement
- Pavement base
 Bituminous base cover
 Binder layer
 Bituminous base layer
 Mortar bed

***Drainage of highly dynamically loaded surfaces, e.g. cross drainage of highways, motorways and railway crossings, exclusively when installing our DM drainage channel systems and after consultation with our application technology. Inspection parts and inlet boxes must always be positioned outside dynamically loaded surfaces.

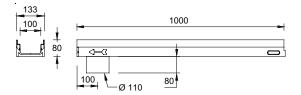
Settlement-free, frost-resistant base layers must be laid in accordance with RSt0.

****Cross drainage of pedestrian streets, entrances to parking areas and comparably paved areas.

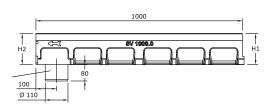
Settlement-free, frost-resistant base layers must be laid in accordance with RSt0.

The adjacent covering must be designed in such a way that no horizontal forces act on the channel elements. After the installation, the drainage channel bodies must be fitted with covers to achieve the stiffening.

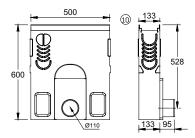
TECHNICAL DETAILS



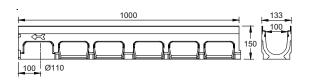
MEADRAIN SVF 1000.0 A/80 8)



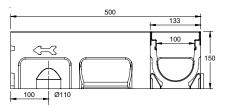
MEADRAIN SV 1000.0/A channel with vertical outlet 0 110 mm $^{\rm 8)}$



MEADRAIN SV 1000.EK 110 silt box



MEADRAIN SV 1000.0 channel ^{4]}



MEADRAIN SV 1000.1 channel ^{4] 14]}

> REMARK 4)Connection option for the vertical discharge 0 110 mm; End cap with connector or gully
 8)With tight formed-in drain socket 0 110 mm
 14)Connection possibility for corner, T- and crossing element

FOUNDATIONS

Loading classes according to EN 1433	A 15 kN	B 125 kN	C 250 kN	D 400 kN	E 600 kN
Foundation dimension X (mm)	> 80	> 100	> 150	> 200	> 200
Foundation dimension Z (mm)	> 80	> 100	> 150	> 200	> 200
Reinforcement of the concrete casing (3) as specified by the responsible planner	no	no	no	yes	yes
Concrete quality DIN EN 206-1/DIN 1045-2 for road concrete (1) \geq C 30/37 with reinforcement	≥ C 12/15	≥ C 20/25	≥ C 20/25	≥ C 25/30	≥ C 25/30

The adjacent covering must be designed in such a way that no horizontal forces act on the channel elements. After the installation, the drainage channel bodies must be fitted with covers to achieve the stiffening.



HARBOURS AND CONTAINER TERMINALS

MEADRAIN S AREAS OF APPLICATION





URBAN INFRASTRUCTURE

HIGH SPEED ROADS AND MOTORWAYS



ENVIRONMENT AND AGRICULTURE



HOME AND GARDEN





INDUSTRY

