## MEADRAIN S PROFESSIONAL ALL-ROUND TALENTMADE OF POLYMERE CONCRETE









# MEADRAIN SV/SE/SG SYSTEM OVERVIEW 



MEADRAIN SV/SE 1500


MEADRAIN SV/SE 2000

Clear width: 100 mm Total width: 133 mm Total heights: from 150 up to 305 mm

Clear width: 150 mm Total width: 183 mm Total heights: from 220 up to 320 mm

Clear width: 200 mm Total width: 233 mm Total heights: from 280 up to 380 mm
/ 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)

## / 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)
/ 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)


Clear width: 100 mm Total width: 133 mm Total heights: from 150 up to 305 mm
/ 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

Clear width: 150 mm Total width: 183 mm Total heights: from 220 up to 320 mm

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 E600*
/ Edge made of ductile iron


Clear width: 200 mm Total width: 233 mm Total heights: from 280 up to 380 mm
/ Drainage channel body without fall
/ Also with integrated drain connection
/ Loading classes A 15 to E 600*
/ Edge made of ductile iron

[^0]
## MEADRAIN FLAT CANNELS SVF/SEF/SGF SYSTEM OVERVIEW



MEADRAIN SVF/SEF 1000


MEADRAIN SVF/SEF 2000


MEADRAIN SGF 1000


MEADRAIN SGF 1500


MEADRAIN SGF 2000

Clear width: 100 mm Total width: 133 mm Total height: 80 mm

Clear width: 150 mm Total width: 183 mm Total height: 120 mm

Clear width: 200 mm Total width: 233 mm Total height: 100 mm
/ Drainage channel body without fall
/ Also with integrated drain connection
/ Loading classes A 15 to E 600*
/ Edge made of glavanised steel (SV) or stainless steel (SE)

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

Clear width: 100 mm Total width: 133 mm Total height: 80 mm

Clear width: 150 mm Total width: 183 mm Total height: 120 mm

Clear width: 200 mm Total width: 233 mm Total height: 100 mm
/ Loading classes A 15 to E 600*
/ Edge made of ductile iron

[^1]


## MEADRAIN SVS/SES/SGS SYSTEM OVERVIEW



MEADRAIN SVS/SES 3000

MEADRAIN SGS 3000

Clear width: 300 mm Total width: 333 mm Total height: 300 mm Totalheight:300mm
/ 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)


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

[^2]
## 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 E600*.
/ 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 E600*.

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
Universal CLIPFIX channel covers made of stainless steel and ductile iron up to loading class E 600*

High-strength and environmentally friendly polymer concrete



Slotted grating made of galvanised steel


Mesh grating made of stainless steel


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.

Longitudinal shift protection



## 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

| Compressive strength | $>90 \mathrm{~N} / \mathrm{mm}^{2}$ |
| :--- | :--- |
| Flexural tensile strength | $>22 \mathrm{~N} / \mathrm{mm}^{2}$ |
| Water adsorption | Below $0.05 \%$ |
| Modulus of elasticity | $25-35 \mathrm{kN} / \mathrm{mm}^{2}$ |
| Density | $2.1-2.3 \mathrm{~kg} / \mathrm{dm}^{2}$ |
| Water ingression depth | $0 \mathrm{~mm}^{2}$ |
| Material structure | Capillary-free - ideal for <br> the rapid discharge of water <br>  <br>  |

Channel body weight Significantly lighter than conventional concrete channels
Workability $\quad$ Suitable for grinding disks,

Environmental compatibility Eco-friendly building material with mineral admixtures

Ageing resistance

Entirely frost proof, wear-resilient, and maintenance-free.

Highly resistant to liquid chemicals ( pH range 3 to 9 )

## 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 )

$Y$ min. $=$ channel height -50 mm

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

| D 400 |
| :--- |
|  |


$Y$ min. $=$ channel height -50 mm

| (2) Base course according | (6) Pavement base |
| :--- | :--- |
| to Rst0 | (7) Bituminous base cover |
| (3) Concrete coating | (8) Binder layer |
| (4) Grown soil | (9) Bituminous base layer |
| (5) Pavement | (10) 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 RStO.
****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 $0110 \mathrm{~mm}^{8)}$


MEADRAIN SV 1000.0 channel ${ }^{4)}$


MEADRAIN SV 1000.1 channel ${ }^{414]}$


MEADRAIN SV 1000.EK 110 silt box
>REMARK 4)Connection option for the vertical discharge 0110 mm ; End cap with connector or gully
8) With tight formed-in drain socket 0110 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 | $\geq$ C 12/15 | $\geq$ C 20/25 | $\geq$ C 20/25 | $\geq$ C $25 / 30$ | $\geq$ 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.


## MEADRAIN S AREAS OF APPLICATION



URBAN INFRASTRUCTURE



## MEA

BUILDING SUCCESS

[^3]
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[^2]:    * From loading class D 400 not suitable for cross drainage of high speed roads and motorways.

[^3]:    MEA Water Management / Sudetenstraße 1 / D-86551 Aichach / www.mea-group.com Business Unit of MEA Bautechnik GmbH

