

**MEADRAIN
PROFESSIONAL
DRAINAGE
SYSTEMS
FOR CHALLENGING
PROJECTS**



HIGH QUALITY POLYMER CONCRETE DRAINAGE SYSTEMS

PROFESSIONAL DRAINAGE SOLUTIONS FOR INDUSTRY AND INFRASTRUCTURE

MEADRAIN SV / EN / ENS



MEADRAIN EN 2000

Clear width: 200 mm

Total width: 240 mm

Total height: 220/280/330/380 mm

- ✓ Channel section for stepped fall (5%) and without fall
- ✓ Also available with integral outlet connection
- ✓ Loading class A 15 to F 900



MEADRAIN EN 1500

Clear width: 150 mm

Total width: 190 mm

Total height: 180/220/270/320 mm

- ✓ Channel section for stepped fall (5%) and without fall
- ✓ Also available with integral outlet connection
- ✓ Loading class A 15 to F 900



MEADRAIN EN 1000

Clear width: 100 mm

Total width: 140 mm

Total height: from 150 to 305 mm

- ✓ Channel section for linear fall (0.5%) and without fall
- ✓ Also available with integral outlet connection
- ✓ Loading class A 15 to F 900

MEADRAIN SYSTEM OVERVIEW



MEADRAIN ENS 3000

Clear width: 300 mm
Total width: 394 mm
Total height: 400 mm

- ✓ Channel section without fall
- ✓ Also available with integral outlet connection
- ✓ Loading class A 15 to F 900



MEADRAIN ENS 3070

Clear width: 300 mm
Total width: 394 mm
Total height: 760 mm

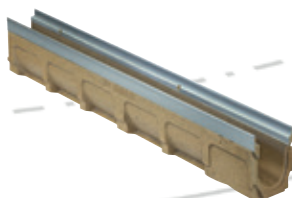
- ✓ Channel section without fall
- ✓ Also available with integral outlet connection
- ✓ Loading class A 15 to F 900



MEADRAIN ENS 4000

Clear width: 400 mm
Total width: 494 mm
Total height: 465 mm

- ✓ Channel section without fall
- ✓ Also available with integral outlet connection
- ✓ Loading class A 15 to F 900



MEADRAIN SV 1000

Clear width: 100 mm
Total width: 133 mm
Total height: from 150 to 305 mm

- ✓ Channel section for linear fall (0.5%), stepped fall with transition section and no fall
- ✓ Also available with integral outlet connection
- ✓ Loading class A 15 to E 600

MEADRAIN

PROFESSIONAL DRAINAGE SOLUTIONS FOR INDUSTRY AND INFRASTRUCTURE

MEA Water Management is one of the major players for drainage solutions in the world. We offer an extensive range of products, solutions, technical support and consulting for projects in all application fields.

Our MEADRAIN product portfolio is made of high quality polymer concrete and has been designed to respond all possible expectations for the construction of infrastructures such as airports, roads, terminals, logistic centers, industrial areas and much more.

Our philosophy: Building Success. We commit to help and facilitate the work of our customers at each possible level of the construction chain. Therefore we offer a perfectly adjusted and complete product range in polymer concrete that fits all expectation.

MEADRAIN SV / EN / ENS: our product range for your industrial and infrastructural projects.

MEADRAIN SV

- ✓ Drainage system for multiple usage

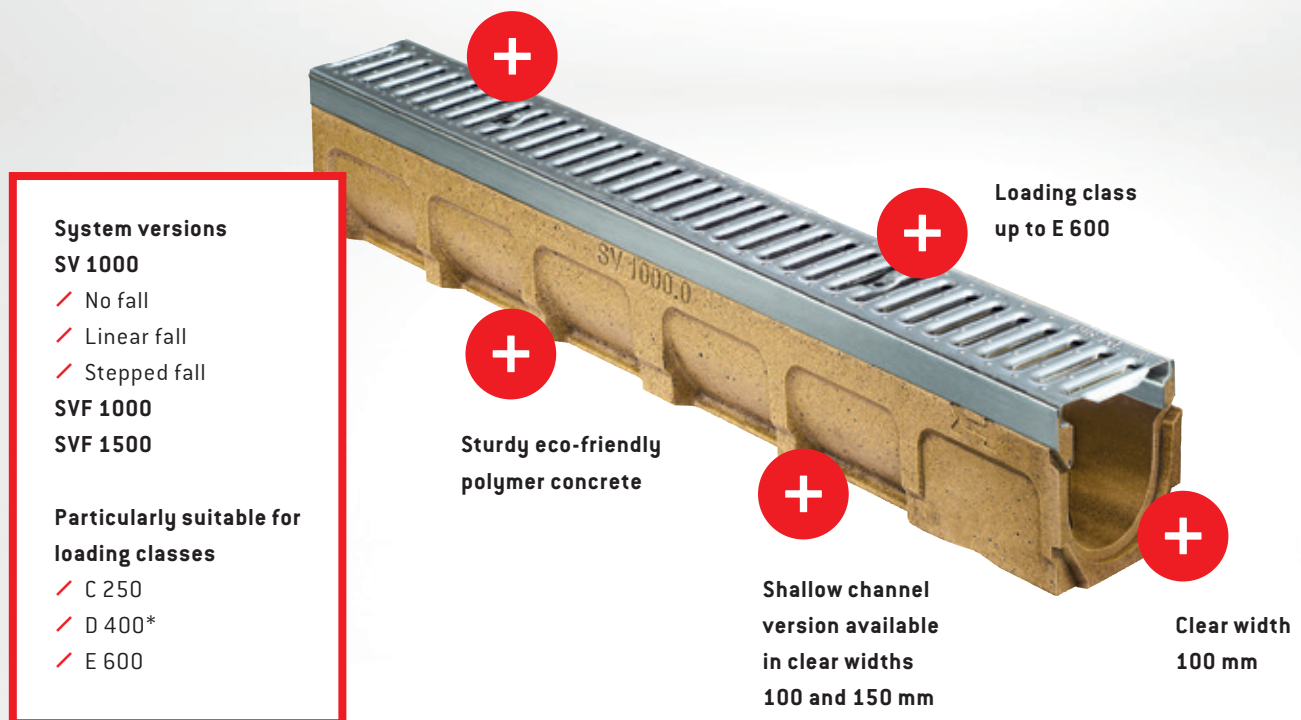
MEADRAIN EN

- ✓ Drainage system for heavy load applications

MEADRAIN ENS

- ✓ Drainage system for extreme environments





* Not suitable for the cross drainage of high speed roads and motorways

MEADRAIN SV

The polymer concrete MEADRAIN SV rain water drainage system is one of the most versatile in the MEA Water Management portfolio.

Made for:

- ✓ Pedestrian areas and inner cities
- ✓ Parks
- ✓ Car parks
- ✓ Industrial areas

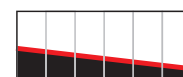
The MEADRAIN SV channels can bear loading classes up to E 600 thanks to its clever design and 4 mm thick galvanised steel rail edges.

- ✓ ADA gratings that are compatible for wheelchair passage
- ✓ Heelguard gratings for safe passage in cities
- ✓ High quality gratings made of cast iron
- ✓ Mesh and slotted gratings
- ✓ Longitudinal displacement security of the gratings
- ✓ Sturdiness and excellent long lasting performance
- ✓ Exceptional value for money

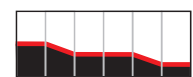
MEADRAIN SV DRAINAGE SYSTEM FOR MULTI PURPOSE APPLICATIONS



No Fall



Linear fall



Stepped fall

MEADRAIN EN

DRAINAGE SYSTEM FOR HEAVY LOAD APPLICATIONS

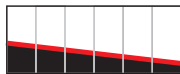
MEADRAIN EN

Next to appearance and the type of fall, the expected maximum load is the decisive criterion in the selection of a drainage system.

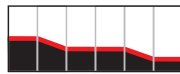
MEADRAIN channels have been designed to meet every expectation for all applications with extreme wheel loads such as logistic centers, harbours and areas with heavy duty traffic.



No Fall



Linear fall



Stepped fall

- ✓ Loading class E 600 and F 900 (according to DIN 19580 / EN 1433 standards)
- ✓ High quality polymer concrete for maximum resistance and reliability
- ✓ Almost wear and maintenance free
- ✓ Modular and lightweight construction
- ✓ Various fall possibilities
- ✓ Outstanding surface finish guarantees maximum discharge of water and dirt
- ✓ Recyclable material
- ✓ Large choice of grating designs
- ✓ Protects groundwater
- ✓ Chemical resistant

System versions

EN 1000

- ✓ No fall
- ✓ Linear fall
- ✓ Stepped fall

EN 1500

- ✓ No fall
- ✓ Stepped fall

EN 2000

- ✓ No fall
- ✓ Stepped fall

Particularly suitable for loading classes

- ✓ C 250
- ✓ D 400*
- ✓ E 600
- ✓ F 900

* Not suitable for the cross drainage of
high speed roads and motorways



L-shaped edge made
from cast iron

Loading classes
up to F 900

Various heights
available

MEADRAIN EN 2000

Clear widths
100, 150, 200
and 300 mm

System versions

- ✓ ENS 2000
- ✓ ENS 3000
- ✓ ENS 3070
- ✓ ENS 4000

Particularly suitable for loading classes

- ✓ E 600
- ✓ F 900

Various heights available

Z-shaped edge made from cast iron

Loading classes up to F 900

Clear widths 300 and 400 mm

MEADRAIN ENS DRAINAGE SYSTEM FOR EXTREME ENVIRONMENTS

MEADRAIN ENS

The MEADRAIN ENS drainage system has been designed to respond to the evolution of society and increasingly heavier vehicles, may it be aircrafts, trucks, forklifters or even cars.

The MEADRAIN ENS system is made for:

- ✓ Airports
- ✓ Container terminals
- ✓ Port-side areas
- ✓ Logistic centers with intense forklift and truck traffic

The MEADRAIN ENS combines all the advantages of the EN system yet offering exclusive advantages for paramount sturdiness:

- ✓ Z profile edge rails made of cast iron for maximum stability and solidity
- ✓ Heavy duty gratings for highest loading classes



No Fall



MEADRAIN PROFIX CHANNEL COVERS EASY, FAST AND SAFE

PROFIX RAPID GRATING LOCKING MECHANISM FOR MEADRAIN EN AND ENS CHANNELS

For all professionals who look for an easy, fast and convenient installation: MEADRAIN PROFIX locking mechanism.

Installation:

- ✓ Place the grating into the channel body
- ✓ Press in - it's done

Removal:

- ✓ Simply use a screwdriver
- ✓ Lever the grating - it's done

This professional fixing method is available for all non bolted heavy duty drainage channels

Advantages

- ✓ Fast, cost-effective installation
- ✓ Optimised water uptake
- ✓ Long lasting
- ✓ No rattling with vehicular traffic
- ✓ TÜV-tested
- ✓ No moving parts
- ✓ Long term functionality
(even under extreme conditions)
- ✓ Longitudinal displacement security
of the grating



MEADRAIN CLIPFIX CHANNEL COVERS SV CHANNEL RAPID LOCKING SYSTEM

CLIPFIX RAPID GRATING LOCKING MECHANISM FOR MEADRAIN Z/S/SV CHANNELS

For all professionals who look for an easy, fast and convenient installation: MEADRAIN CLIPFIX locking mechanism.

Installation:

- ✓ Place the grating into the channel body
- ✓ Step on it - it's done

Removal:

- ✓ Take the MEA Grating hook
- ✓ Remove the first grating from the channel line
- ✓ All the other grating can be removed by hand

Advantages

- ✓ Fast, cost-effective installation
- ✓ Optimised water uptake
- ✓ Long lasting
- ✓ No rattling with vehicular traffic
- ✓ Practical MEA grating hook for fast demounting of the gratings
- ✓ Easy to clean channel: ongoing completely unobstructed cross section
- ✓ Sturdy

POLYMER CONCRETE

THE QUALITY MATERIAL

The material at a glance

- ✓ Impermeable, virtually pore-free
- ✓ Highly resistant to chemicals, oils and other chemically aggressive substances
- ✓ Predominantly made of natural, mineral raw materials, like quartz, basalt and granite
- ✓ Significantly lighter than comparable concrete channels

MEA POLYMER CONCRETE

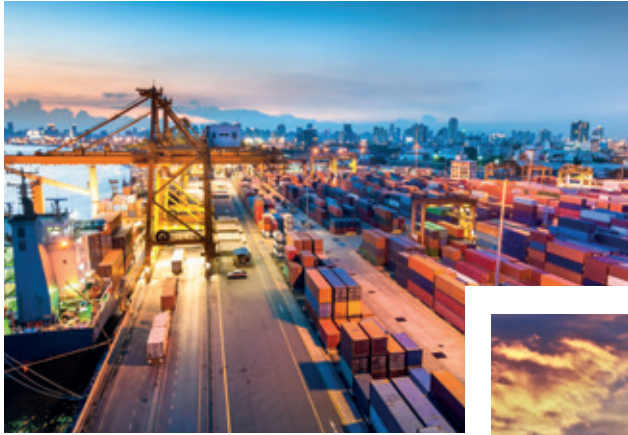
The special polymer concrete from MEA is remarkable for its outstanding physical and chemical properties. These make it an extremely reliable and versatile material in even the toughest conditions.

The material – natural mineral products like quartz, basalt and granite, bonded together with a resinous mixture – stands out because to its extremely high flexural tensile strength and compressive. Another particular advantage of drainage channels in polymer concrete is that they are significantly lighter than conventional concrete channels, making them considerably easier to install.

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.

MATERIAL CHARACTERISTICS

Compressive strength	> 90 N/mm ²
Flexural tensile strength	> 22 N/mm ²
Water adsorption	Below 0.05%
Modulus of elasticity	25-35 kN/mm ²
Density	2.1 - 2.3 kg/dm ³
Water ingress depth	0 mm ²
Material structure	Capillary-free – ideal for the rapid discharge of water and dirt particles
Channel body weight	Significantly lighter than conventional concrete channels
Workability	Suitable for grinding disks, rock drills and chisels
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)



HARBOURS AND CONTAINER TERMINALS



INDUSTRY AND TRADES



INFRASTRUCTURE AND TRAFFIC

MEADRAIN APPLICATION AREAS



URBAN AREAS



GARDENING AND LANDSCAPING



ENVIRONMENT AND AGRICULTURE

DISCOVER THE RANGE OF MEA DRAINAGE SOLUTIONS



MEADRAIN PG

Drainage system for
Multi-storey car parks



MEATEC

Professional drainage
system for façades and
terrasses



MEARIN

Professional lightweight
drainage system made
of GRP



MEADRAIN TRAFFIC

Professional drainage
systems for road and
highway construction



BUILDING SUCCESS

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