MEADRAIN
PROFESSIONAL DRAINAGE SYSTEMS
FOR CHALLENGING PROJECTS

HIGH QUALITY POLYMER CONCRETE DRAINAGE SYSTEMS
PROFESSIONAL DRAINAGE SOLUTIONS FOR INDUSTRY AND INFRASTRUCTURE
MEADRAIN SV / EN / ENS
**MEADRIN 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

**MEADRIN 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

**MEADRIN 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 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
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.
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

* Not suitable for the cross drainage of high speed roads and motorways
MEADRRAIN EN
DRAINAGE SYSTEM FOR
HEAVY LOAD APPLICATIONS

MEADRRAIN EN

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

MEADRRAIN 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.

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

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

* Not suitable for the cross drainage of high speed roads and motorways
MEADRRAIN ENS
DRAINAGE SYSTEM FOR EXTREME ENVIRONMENTS

MEADRRAIN 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 MEADRRAIN ENS system is made for:
✓ Airports
✓ Container terminals
✓ Port-side areas
✓ Logistic centers with intense forklift and truck traffic

The MEADRRAIN 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

Z-shaped edge made from cast iron
Loading classes up to F 900
Clear widths 300 and 400 mm

System versions
✓ ENS 2000
✓ ENS 3000
✓ ENS 3070
✓ ENS 4000

Particularly suitable for loading classes
✓ E 600
✓ F 900
**MEADRAIN PROFIX CHANNEL COVERS**
**EASY, FAST AND SAFE**

**PROFIX RAPID GRATING LOCKING MECHANISM FOR MEADR IN 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 MEADR AIN 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 gratings 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
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 of 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

<table>
<thead>
<tr>
<th>Characteristic</th>
<th>Value</th>
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<tbody>
<tr>
<td>Compressive strength</td>
<td>&gt; 90 N/mm²</td>
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<tr>
<td>Flexural tensile strength</td>
<td>&gt; 22 N/mm²</td>
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<tr>
<td>Water adsorption</td>
<td>Below 0.05%</td>
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<tr>
<td>Modulus of elasticity</td>
<td>25-35 kN/mm²</td>
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<tr>
<td>Density</td>
<td>2.1 - 2.3 kg/dm³</td>
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<tr>
<td>Water ingress depth</td>
<td>0 mm²</td>
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<tr>
<td>Material structure</td>
<td>Capillary-free – ideal for the rapid discharge of water and dirt particles</td>
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<td>Channel body weight</td>
<td>Significantly lighter than conventional concrete channels</td>
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<tr>
<td>Workability</td>
<td>Suitable for grinding disks, rock drills and chisels</td>
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<tr>
<td>Environmental compatibility</td>
<td>Eco-friendly building material with mineral admixtures</td>
</tr>
<tr>
<td>Ageing resistance</td>
<td>Entirely frost proof, wear-resilient, and maintenance-free. Highly resistant to liquid chemicals (pH range 3 to 9)</td>
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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
MEADRAIN APPLICATION AREAS

HARBOURS AND CONTAINER TERMINALS

INDUSTRY AND TRADES

INFRASTRUCTURE AND TRAFFIC

URBAN AREAS

GARDENING AND LANDSCAPING

ENVIRONMENT AND AGRICULTURE
DISCOVER THE RANGE OF MEA DRAINAGE SOLUTIONS

MEADRAIN PG
Drainage system for Multi-storey car parks

MEARIN
Professional lightweight drainage system made of GRP

MEATEC
Professional drainage system for façades and terrasses

MEADRAIN TRAFFIC
Professional drainage systems for road and highway construction