WATER MANAGEMENT

MEA

BUILDING SUCCESS

MEADRAIN TRAFFIC PROFESSIONAL DRAINAGE SYSTEMS FOR ROAD AND HIGHWAY CONSTRUCTION

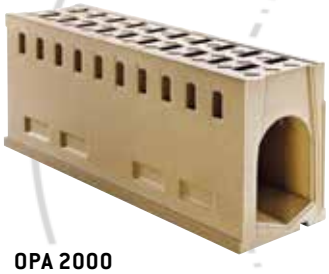
HIGH QUALITY POLYMER CONCRETE DRAINAGE SYSTEMS

PROFESSIONAL DRAINAGE SOLUTIONS FOR ROAD AND TRAFFIC APPLICATIONS

MEADRAIN OPA / DM / MEAKERB / RAIL

DM 1000
Clear width: 100 mm
Total width: 154 mm
Total height: 265 mm

- Channel section without fall
- Monolithic construction
- Loading class A 15 to F 900 for standard variant
- Loading class A 15 to D 400 with side inlets for use in open porous asphalt



OPA 2000
Clear width: 200 mm
Total width: 300 mm
Total height: 420 mm

- Special channel with side inlets for single and 2 layer open porous asphalt
- Without fall
- Inverted monolithically bonded construction
- Loading class A 15 to D 400

MEAKERB
Clear width: 100 mm
Total width: 154 mm
Total heights: from 195 to 375 mm

- Monolithic drainage system with top kerb profile, without fall
- Monolithic construction
- Loading class A 15 to D 400

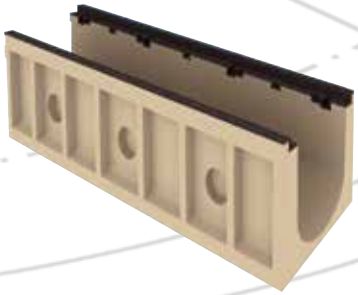
MEADRAIN TRAFFIC SYSTEM OVERVIEW

DM 1500
Clear width: 150 mm
Total width: 204 mm
Total heights: from 280 to 480 mm

- Channel section without fall
- Monolithic construction
- Loading class A 15 to F 900 for standard variant
- Loading class A 15 to D 400 with side inlets for single and 2 layer open porous asphalt

MEADRAIN DM 2000
Clear width: 200 mm
Total width: 254 mm
Total heights:
320 / 420 / 520 / 570 mm

- Channel section without fall
- Monolithic construction
- Loading class A 15 to F 900 for standard variant
- Loading class A 15 to D 400 with side inlets for use in open porous asphalt



MEADRAIN RAIL SOLUTION
Clear width: 200 mm
Total width: 294 mm
Total height: 330 mm

- Channel section without fall
- Also available with integral outlet connection
- Loading class A 15 to D 400

MEADRAIN TRAFFIC
PIONEERING DRAINAGE SOLUTIONS FOR MOTORWAYS AND CITIES

MEADRAIN TRAFFIC

MEA offers you pioneering solutions for the reliable and cost-effective drainage of all the world's roads. Our product range contains clearly designed and innovative solutions made of polymer concrete.

No matter which channel system you use for the task in hand, MEADRAIN TRAFFIC delivers decades of MEA expertise in professional surface drainage for every conceivable application. Optimize your planning with flexibility through innovative modular systems, a free technical support and advisory service and the outstanding physical and chemical properties of polymer concrete. Work with less weight, do away with heavy lifting equipment for installation and benefit from the durability and reliability of our products.

MEADRAIN DM
- For the drainage of motorways and Highways

MEADRAIN OPA
- Channel system for open porous asphalt

MEAKERB
- Combines a channel and kerb profile in a single element for the drainage of roads, car parks and the streetscaping of urban areas

MEA RAIL SOLUTION
- For the complex and varying requirements associated with tramways

Suitable for use in highway construction: resistant to aggressive abrasion, premature ageing and de-icing salt. Completely frost-proof and very hardwearing.

100% traffic safe: no loose components such as bolts or metal parts

Made from high compressive- and tensile-strength polymer concrete

Eco- and climate-friendly, as the material used contains approximately 90% mineral aggregates.

MEADRAIN TRAFFIC DM

THE HIGH-END MONOLITHIC DRAINAGE SOLUTION FOR ROAD AND MOTORWAY DRAINAGE

MONOLITHIC POLYMER CONCRETE DRAINAGE CHANNEL MEADRAIN DM

The monolithic high performance MEADRAIN DM has been designed to resist perfectly and on the long run to maximum traffic load.
Fields of application:

- Motorways
- Highways
- Airports (operating surfaces)

The monolithic construction of the MEADRAIN DM guarantees:

- Maximum acceptance and transfer of high dynamic loads
- Total compliance with safety and security standards
- Best possible value for money

System versions

- **DM 1000**
- **DM 1500**
- **DM 2000**

Particularly suitable for loading classes

- D 400
- E 600
- F 900

MEADRAIN TRAFFIC OPA

THE DRAINAGE SOLUTION FOR OPEN POROUS ASPHALT

MEADRAIN TRAFFIC OPA FOR USE IN OPEN POROUS ASPHALT

The channel MEADRAIN OPA has been specifically developped for one purpose: draining water safely from roads in combination with open porous asphalt.

- Inverted construction and reinforced sidewalls for maximum stability
- Lower lateral inlet openings designed to be used with single or two layered asphalt
- Polymer concrete material for maximum sturdiness and lightness
- Perfect resistance to chemicals and heavy traffic loads

System versions

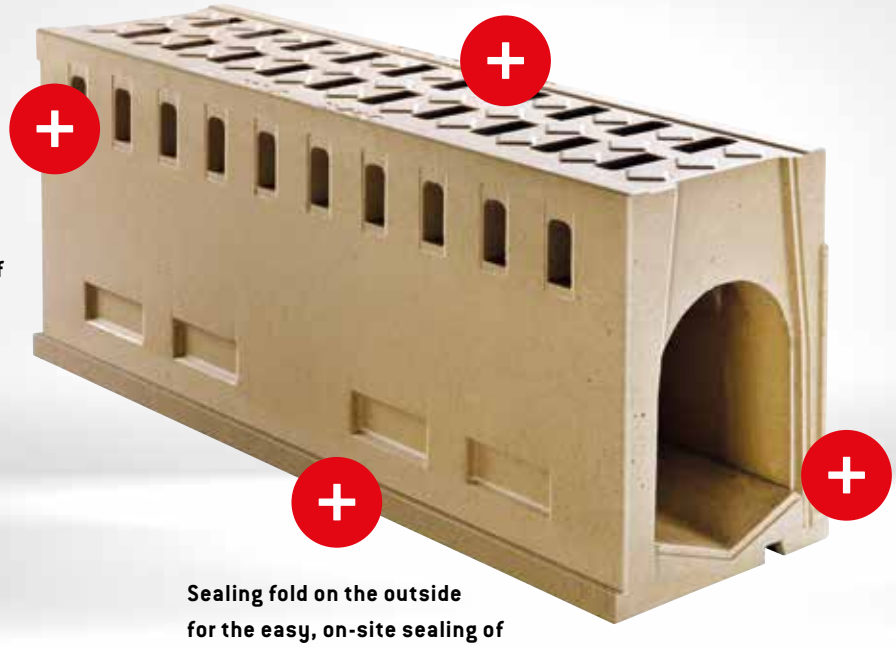
- **OPA 2000**

Particularly suitable for loading class

- D 400

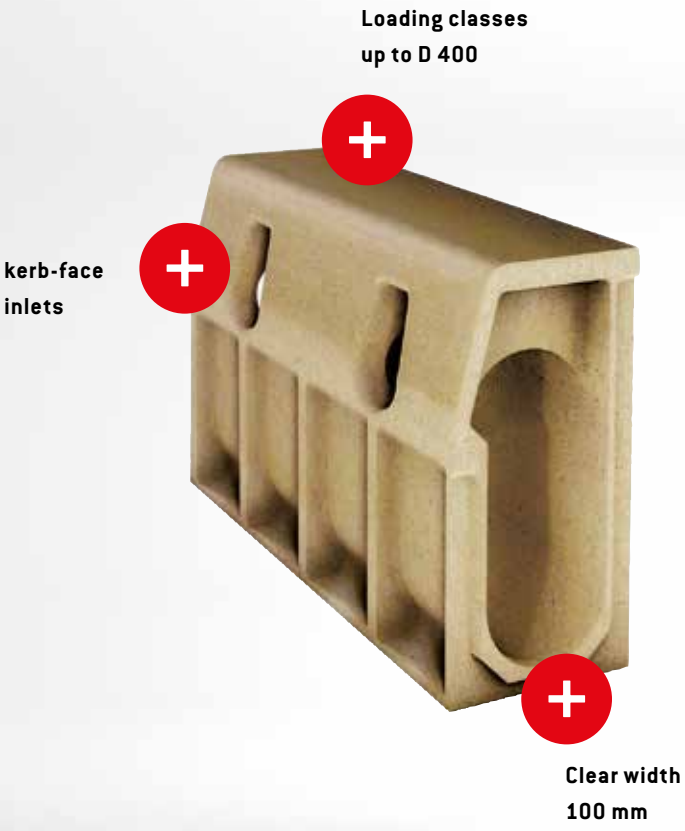
Very safe for traffic: thanks to the monolithically bonded, inverse design, no loose components such as bolts or metal parts can end up on the road

Lowered side inlets: specially designed for use with single- or double-layer open porous asphalt, optimum water run-off



Clear width 200 mm

Sealing fold on the outside for the easy, on-site sealing of the drainage channel joints



MEAKERB

THE KERB WITH INTEGRATED WATER DRAINAGE FACILITY

MEADRAIN TRAFFIC MEAKERB

The new MEAKERB generation benefits from the profound knowledge of our engineering department and is now available in a monolithic construction making it not only sturdier but also more economical. The MEAKERB has been designed for following applications:

- Major highways
- Rural and urban roads
- Roundabouts
- Property access roads
- Flyovers
- Car parks
- Lay-bys
- Bus stations

Drop-kerb and centre stone units for access roads, plus a complete range of accessories make the MEAKERB module in conjunction with the MEA Planning Service a perfect all in one solution for fast and professional installation.

Last but not least: If a single kerbstone becomes damaged, it can be replaced individually – without costly groundwork operations.

DIMENSIONS

	Total height	Length
Bus stop kerb unit	375 mm	500 mm
Standard kerb unit	320 mm	500 mm
Centre stone unit	235 mm	500 mm
Road level compensation	195 mm	500 mm

System versions

- **MEAKERB 1000**

Particularly suitable for loading class

- D 400

MEA RAIL SOLUTION

CUSTOM MADE SOLUTIONS FOR RAIL PROJECTS

MEA RAIL SOLUTION

Efficient and flexible solutions for tramway projects.

- Customised and professional solutions for your specific applications
- MEADRAIN EN 2010 and MEARIN EXPERT 200 channels and cover gratings in special lengths designed to be installed across tramways
- Comprehensive project support by experienced MEA technicians
- MEA is the specialist for all TRAM projects whatever the power supply system used (over the ground (APS), or over headlines)

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.

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 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^2
Water ingression 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)

MOTORWAYS AND HIGHWAYS

MEADRAIN TRAFFIC APPLICATION AREAS

BUS STATIONS AND ROAD CROSSINGS

HIGH-SPEED MOTOR RACING AND TEST CIRCUITS

ROADS AND FLYOVERS

AIRPORTS

TRAMWAYS

DISCOVER THE RANGE OF MEA DRAINAGE SOLUTIONS

MEADRAIN PG
Drainage system for multi-storey car parks

MEATEC
Professional drainage system for façades and terraces

MEARIN
Professional lightweight drainage system made of GRP

MEADRAIN
Professional drainage systems for challenging projects

BUILDING SUCCESS

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