



MEA® DRAIN Supreme

For maximum performance

Accepts heavy loads

Pioneering design

Multiple installation options

Z SERIES
S SERIES
ACCESS SERIES
C SERIES



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A PRODUCT FOR EVERY PROJECT

Hydro Construction Products has been providing world class water management products and solutions to Australia and New Zealand since 2003. We are proud to be the exclusive supplier in Australia and New Zealand for the German-based MEA Group (Drainage). MEA's drainage division is one of the world's leading manufacturers and suppliers of linear drainage systems and has been used in a number of noteworthy projects including Formula One circuits, Air Force airbases, vehicle test tracks, international airports and several hundred petrol stations worldwide.

Hydro's drainage division HydroDrain also supplied MEA products to high profile projects in Australia including Adelaide Oval, AAMI Park, Melbourne Exhibition Centre plus ports, rail and service station redevelopments.

HydroDrain has the unique advantage of being able to supply drainage channels made of polymer concrete and GRP to match our customers' specific application requirements. Our products are all specified to AS3996 and come in a variety of widths, depths, lengths and load ratings with grates and assorted accessories to suit.

EXCLUSIVE
SUPPLIER OF

MEA

Our MEA® range comprises:



Our exclusive range of MEA products enables HydroDrain to provide our customers with drainage solutions for all applications including infrastructure & traffic, environment & agriculture, garden & landscaping, urban architecture, industry & trade and home & garden.

Our product range also extends to:



We have offices/warehouses in Melbourne, Brisbane and Sydney complemented by our network of sales representatives and distributors across Australia and New Zealand.

Visit www.hydrocp.com.au or call 1300 GO HYDRO to find out more.



HYDRO CONSTRUCTION PRODUCTS



MEA® 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 is remarkable for its outstanding physical and chemical properties. This makes 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 – is particularly robust and has an extremely high flexural tensile strength and compressive strength. Another impressive feature of drainage channels in polymer concrete is that they are significantly lighter than conventional concrete channels, making them considerably easier to install.

Because they are particularly resistant to liquid chemicals, MEA® polymer concrete channels are the product of choice when it comes to eco-friendly drainage solutions and the protection of groundwater. The numerous benefits of MEA®'s specially developed polymer concrete are what make this material the successful basis for the MEA®DRAIN Supreme channel system.

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	up to 75 % lighter than conventional concrete channels
Material structure	Highly resistant to liquid chemicals (pH range 3 to 9)
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





MEA® DRAIN Supreme Z and S

General purpose channels

When it comes to the drainage of pedestrian zones, parks and car parks, MEA®DRAIN Supreme Z and S Series are the ideal solution in terms of functionality and visual appeal. MEA®DRAIN Supreme also satisfies every whim when it comes to aesthetics and, thanks to its slender edge rails, a perfect joint with adjoining slatted and paved surfaces is guaranteed.

Available in 100, 200 or 300mm clear opening widths and multiple depth options.

What about the channel grate? They come in various designs and feature the innovative MEA®DRAIN CLIPFIX or bolted grating securement system. Be it functionality, safety or design MEA®DRAIN Supreme is simply unsurpassable.

System versions:

Z/S 1000 Channels:

- > Constant depth
- > Pre-sloped fall
- > Stepped fall

Z/S 2000 Channels:

- > Constant depth

AC/AS 3000 Channels:

- > Constant depth

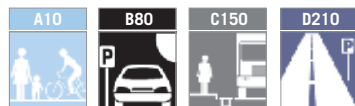
Key features:

- > Integrated Galvanised or Stainless Steel edge rail
- > Wide range of grate options
- > Various depth options

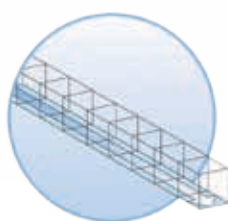
Application types:

- > Carparks
- > Shopping Centres
- > Schools
- > Public Areas

Particularly suitable for loading classes:

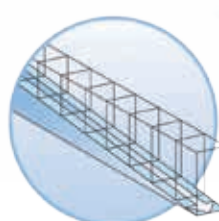


AS3996



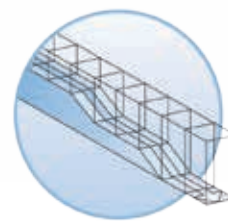
Constant depth

A constant-depth channel run, where no gradient is required or the natural gradient is sufficient.



Pre-sloped fall

Channel runs with an integrated pre-sloped gradient and a constant gradient of 0.5%. Lengths of up to 20m are possible as standard for channel runs. Channel runs of up to 30m on request.



Stepped fall

Channel runs for cost-effective, efficient and uniform drainage are constructed by combining channel elements of different heights with one another.





MEA® DRAIN Supreme C

Heavy-load applications

Next to appearance and the type of fall, the expected maximum load is the decisive criterion in the selection of a drainage system. MEA®DRAIN Supreme C series has virtually been created specifically for applications where extremely high wheel loads are present – classes E400 and G900 (AS3996). The channel system transfers the advantages of polymer concrete in a unique manner to heavy-load applications.

System versions

C 1000 Channels:

- > Constant depth

C 2000 Channels:

- > Constant depth

C 3000 Channels:

- > Constant depth

Key features:

- > Integrated Cast Iron Steel edge rail
- > Cast Iron grate options
- > 8 point bolt locking system

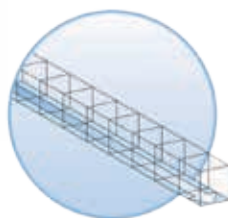
Application types:

- > Airports
- > Docks
- > Loading Bays
- > Petrol Stations
- > Roads
- > Train Stations

Particularly suitable for loading classes:



AS3996



Constant depth

A constant-depth channel run, where no gradient is required or the natural gradient is sufficient.



Ultra secure with 8 point, high tensile bolts

Prevent theft, rattling and safety concern by utilising our secure 8 point bolt system.



MEA® DRAIN Supreme Top channel grates

Intelligently designed and efficient



MEA®DRAIN Top channel grates serve to complement the MEA®DRAIN system. Available in loading classes C150 through to G900, a range of different channel grates is on offer.

A choice of three securement options exists, depending on the channel type and clear width:

Two innovative bolt-free locking solutions are provided for MEA®DRAIN PROFIX and MEA® CLIPFIX; the additional option of bolted securement exists for selected gratings. Opt for MEA®DRAIN Top and bag a series of further advantages on top of everything else:

- > Fast, cost-effective installation
- > Optimised water uptake
- > Extended service life
- > No rattling with vehicular traffic
- > TÜV-tested

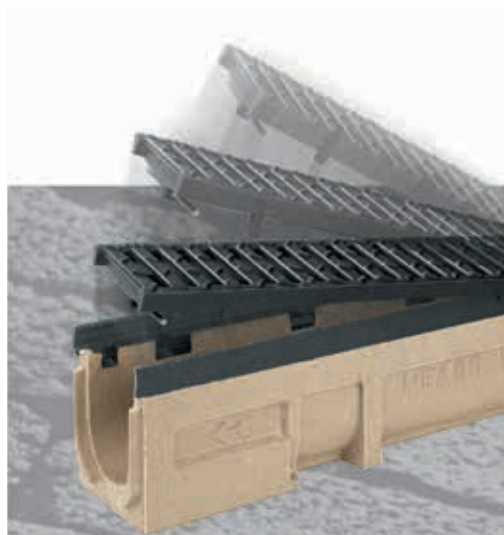
PROFIX rapid locking for C channels

For everyone who likes easy, fast and convenient installation. PROFIX – it's the choice of professionals! And it's so easy: Place the grating in the channel body – press in – finished. The grating locks into position by itself through its 4-point spring-steel locking system. But what about removal? Professionals simply resort to a screwdriver and lever the grating out. Be it for a first installation or for channel cleaning: Compared with conventional securement methods, PROFIX saves you the tiresome task of screwing gratings down or using a complicated locking mechanism. This securement method for professionals is available for all non-bolted heavy-duty drainage channels.

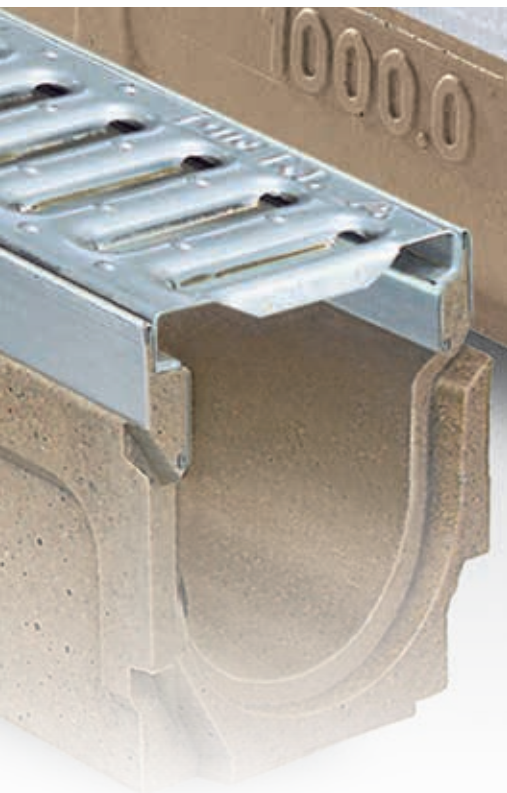
PROFIX has no moving parts and also guarantees long-term functionality under extreme conditions. The grating has been designed to snap securely into the edge of the channel. What's more, integral lugs prevent any lengthwise movement of the grating.



Detailed view – PROFIX locking system.



TUV tested and
AS3996 tested.



MEA® DRAIN Supreme Top channel grates

CLIPFIX rapid locking for Z/S channels

Be it an attractive contrast or a harmonious transition to the adjoining slabbed or paved surface. MEA®DRAIN Top avails you of every option when it comes to design. And a securement method that allows every step to be completed in a flash when it comes to grating insertion and removal: MEA®DRAIN CLIPFIX, the innovative alternate to grating securement using bolts. Simply place the grating in the channel body, step on the grating, finished. Special MEA®DRAIN CLIPFIX indents in the side rails guarantee a secure hold! The result is nothing less than compelling: the CLIPFIX locking system saves time and money, facilitates optimal water discharge and will last reliably for decades.

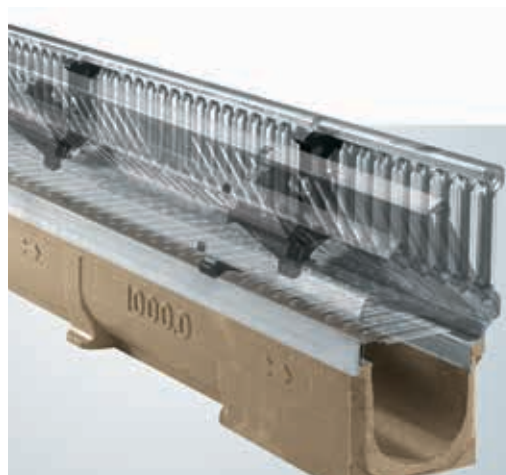
Operation of the MEA® CLIPFIX rapid locking system

The only thing that snaps into position with MEA®DRAIN CLIPFIX is the channel grate – into the MEA®DRAIN CLIPFIX® indents on the side rails. And this is how MEA®DRAIN CLIPFIX® works: Place the grating in the channel body, step on the grating, finished. It's not only installation that's a breeze, thanks to this innovative grating securement system. MEA®DRAIN CLIPFIX® also pays handsome dividends when it comes to channel cleaning. Because the grating removes to reveal an entirely unobstructed channel cross section that can be cleaned without the hindrance of cross members.

Grating removal can be as simple as this:

All you will need are work gloves and the MEA® grating hook. Use this to lever out the first grating from a channel run. All the remaining gratings can now be removed conveniently by hand.

Special indents integrated in the edge rails are the secret behind MEA®DRAIN CLIPFIX. They ensure the grating locks into position reliably and securely, but similarly facilitate removal in a matter of seconds.



MEA® DRAIN Supreme Channels

Z/S 1000



Clear width: 100 mm
Depth options: from 60 to 300 mm

- Constant depth, pre-sloped (0.5%) & stepped fall (2.5%)
- Includes integrated outlet connector
- Loading class up to D210 (AS3996)

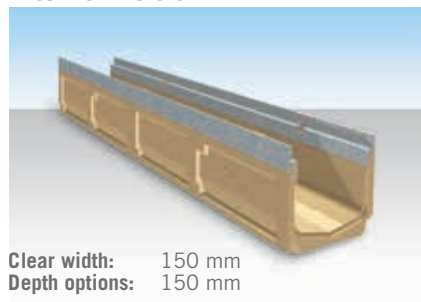
Z/S 2000



Clear width: 200 mm
Depth options: 280/330/380 mm

- Constant depth
- Includes integrated outlet connector
- Loading class up to D210 (AS3996)

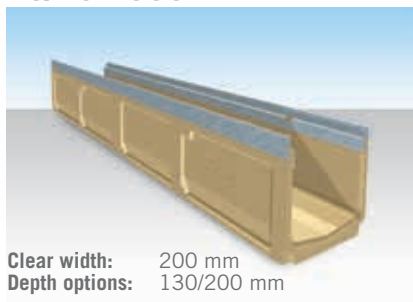
AC/AS 1500¹



Clear width: 150 mm
Depth options: 150 mm

- Constant depth
- Includes integrated outlet connector
- Loading class up to D210 (AS3996)

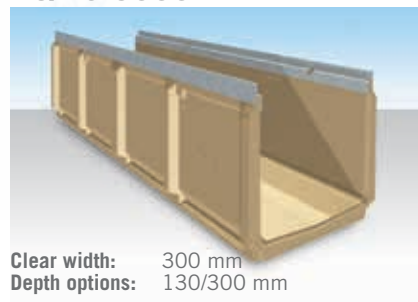
AC/AS 2000



Clear width: 200 mm
Depth options: 130/200 mm

- Constant depth
- Includes integrated outlet connector
- Loading class up to D210 (AS3996)

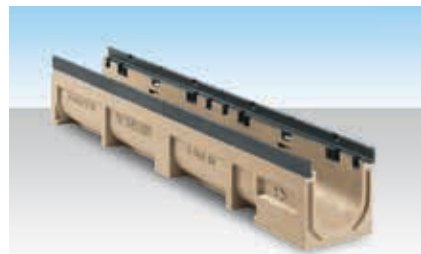
AC/AS 3000



Clear width: 300 mm
Depth options: 130/300 mm

- Constant depth
- Includes integrated outlet connector
- Loading class up to D210 (AS3996)

C 1000



Clear width: 100 mm
Depth options: 150/175/200/225/300 mm

- Constant depth
- Includes integrated outlet connector
- Loading class up to G900 (AS3996)

C 2000



Clear width: 200 mm
Depth options: 100/220/280/330/380 mm

- Constant depth
- Includes integrated outlet connector
- Loading class up to G900 (AS3996)

C 3000



Clear width: 300 mm
Depth options: 330/390/490 mm

- Constant depth
- Includes integrated outlet connector
- Loading class up to G900 (AS3996)

¹ Special Order Only.

HYDRO CHANNEL GRATES & COVERS

Options

HYDRO CHANNEL SYSTEM GRATES & COVERS							HYDRO CHANNEL SYSTEM OPTIONS										
							GRATE SPECIFICATIONS			GAL EDGE			STAINLESS STEEL EDGE			CAST IRON EDGE	
Options	DESIGNS	LENGTH	LOAD CLASS				LZ/Z 1000	AC/Z 2000	AC 3000	LS/S 1000	LS/S/AS 2000	LS/AS 3000	C 1000	LC/C 2000	C 3000		
		GALVANISED															
			Slotted Grate	1000	A D	• •	• •		• •								
			Mesh Grate	1000	D	•	•		•	•	•						
			Heelguard Grate	500	D	•	•	•	•	•	•						
	Premium Heelguard Grate	1000	A C	• •	• •	• •	• •	• •	• •								
DUCTILE IRON																	
	Wave Grate	500	D					•									
	Hi-Flow Grate	500	D											•	•		
	Slotted Grate	500	E G	• •	• •								n.a •	• •	• •		
	Longitudinal Heelguard Grate	500	D E	• •	• •	• •	• n.a	• n.a	• n.a				n.a •	n.a •	n.a •		
STAINLESS STEEL																	
	Slotted Grate²	1000	A D	• •	• •					• •							
	Mesh Grate²	1000	D	•	•					•							
	Suregrip Premium Heelguard Grate¹ (5mm wire/7mm gap)	1000	A B	• •	• •	• •				• •	• •	• •					
	Suregrip Premium PLUS Heelguard Grate¹ (5mm wire/5mm gap)	1000	A B C D	• • • •	• • • •	• • • •				• • • •	• • • •	• • • •					
COMPOSITE																	
	Slotted Heelguard Grate	500	D	•	•	•	•			•							
	Longitudinal Heelguard Grate⁴	500	D	•	•	•	•			•							
APPLICATION SPECIFIC COVERS³																	
Galvanised Steel Topslot Covers		1000	A				•	•	•								
Stainless Steel Topslot Covers		1000	A							•	•	•					
Galvanised Steel Sports Slotted Covers		1000	A				•	•	•								
Stainless Steel Sports Slotted Covers		1000	A							•	•	•					
Cable Ducting Ductile Iron Covers		500	D										•	•	•		

¹ Stainless Steel Suregrip Grates are grade #304. Grade #316 grades also available on request.

² Stainless Steel Mesh and Slotted Grates are special order only.

³ Application Specific Covers are special order only.

⁴ Composite Longitudinal Heelguard Grates are on special order only.



MEA[®] DRAIN Supreme Accessories

**8 Point Bolt Locking Mechanism
for C Channel System**

8 per pack



Swing Toogle Locking Mechanism



Stainless HG Locking Mechanism



End Caps



Inline Sump



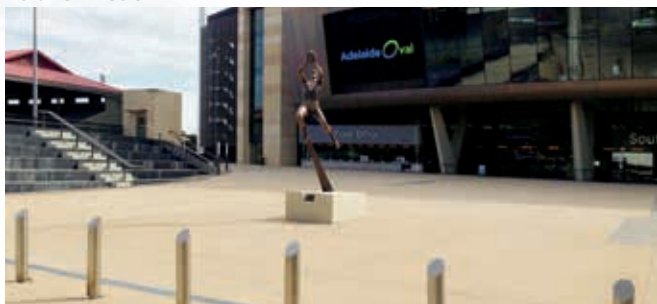
**Long and Short Gully Options for
C Channel System**



MEA[®] DRAIN Supreme

Solutions in practice

Public Areas



Commercial Areas



Storage and Logistics Areas



Dock-side Facilities



City and Inner-city Areas



Railway Stations



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