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MEA[®]DRAIN Line Drainage

Keeping the world's air traffic flowing freely



Auckland International Airport
(Photo: Auckland International Airport Ltd)

Many airports around the world
have one thing in common:
they also rely on the successful
MEA®DRAIN drainage system.



Dresden Airport (Photo: Flughafen Dresden GmbH / Weimer)





Christchurch International Airport (Photo: Christchurch International Airport Ltd)

MEA®DRAIN heavy-duty drainage channels For extreme demands on air- and landside

A MEA speciality: airport drainage

Abu Dhabi, Alghero, Auckland, Dresden, Rotterdam, Vienna, Warsaw and many other major airports – airport operators around the world depend on MEA and its professional approach to line drainage.

MEA®DRAIN high-quality and durable channel systems can reliably cope with all the special requirements in an airport environment and are held in great esteem. Our comprehensive range extends from special channels for airside installations, specifically developed for areas in the F 900 load class, to sturdy standard channels for landside applications.

Conditions are tough on the runway

Only the most robust drainage systems are equipped to cope when used long-term in the challenging environment of an airport. Especially airside, on the apron, taxiways, take-off and landing runways, including the hangars, the load on drainage systems is enormous: immense forces are applied by the movements of aircraft, plus there may be climatic extremes due to geography and the seasons, or tremendous downpours of rain, water from melting snow or fire-fighting, and the risk of aviation fuel spillages during refuelling.

MEA®DRAIN heavy-duty drainage channels made of polymer concrete and concrete can take on the challenges in civil engineering.

MEA®DRAIN drainage

Installed at numerous airports around the world

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Austria:

Linz Airport
Graz Airport
Vienna Airport
Salzburg W.A. Mozart Airport

Bahrain:

Sakhir Airport

Bulgaria:

Burgas Airport

Canada:

Ontario, CFB ASU Petawawa
Ontario, 8 Wing Trenton Astra

Estonia:

Tallinn Airport
Amari Military NATO Air Base

Iceland:

Keflavik Airport, Reykjavik

India:

Port Blair Airport

Ireland:

Shannon Airport

Italy:

Napoli Capodichino Airport
Aviano, NATO Air Base
Reggio Calabria Airport
Alghero Airport
Catania Airport

Germany:

Spangdahlem Air Base
Dresden Airport
Neuburg Helicopter Airport
Niederrhein Weeze Airport
Hamburg Daimler-Benz Aerospace
Berlin Schönefeld Airport
Frankfurt Airport
Donauwörth, Eurocopter

Luxembourg:

Luxembourg Airport

Netherlands:

Amsterdam Schiphol Airport
Rotterdam Airport Zestienhoven
Gilze-Rijen Dutch Royal Military Airbase

New Zealand:

Christchurch International Airport
Auckland International Airport

Poland:

Warsaw Okecie Airport
Bydgoszcz Military Airport
Krzesiny Poznan Military Airport
Ciechanow Military Airport
Krakow Balice Airport

Russia:

Moscow Vnukovo Airport
Moscow Sheremetyevo Airport
Moscow Domodedovo Airport

Gelendzjik Airport

Saint Petersburg Pulkovo Airport
Krasnoyarsk Yemilano Airport
Chabarovsk Airport
Norilsk Airport

Spain:

Madrid Barajas International Airport

Sweden:

Stockholm Linköping Military Airport
Kalmar Airport

United Arab Emirates:

Abu Dhabi Airport

United Kingdom:

London Heathrow Airport
Wattisham Air Base
Manchester Airport
Suffolk RAF Wattisham Air Base



Rotterdam Zestienhoven Airport

The advantages of polymer concrete components:

- 1 metre units
- quick and easy to install by hand
- chemical-resistant material

Special Airport Force Heavy-duty drainage channels in polymer concrete

The strong candidates in the MEA®DRAIN Supreme product range

Lightweight, robust, resistant – these are the strengths of our polymer concrete product range. **MEA®DRAIN Supreme** systems can reliably withstand the strain of heavy loads, for example aircraft repeatedly taxiing over them, containers being transported and special vehicles manoeuvred. This is thanks to the combination of two components: the cast iron edges set in ultra-strong polymer

concrete, and the inflow gratings made of ductile iron. The smooth inner surfaces of the channel play an important part in the outstanding discharge capacity of MEA systems, enabling sealed surfaces to drain extremely efficiently. The high resistance of polymer concrete to liquid chemicals, and the fact that channel runs, including accessories, can be completely sealed serve as a sound basis for groundwater protection.



MEA®DRAIN Supreme EN 2000/3000

- Opening:** 200/300 mm
- Total width:** 240/354 mm
- Total height:** 280/490 mm
- Length:** 500 and 1000 mm
- Total weight:** ±59-113 kg/running m
- Gratings:** ductile iron
- Grating fixings:** PROFIX®/bolted
- Load class:** F900, Type M

MEA®DRAIN Supreme EN 3070

- Opening:** 300 mm
- Total width:** 394 mm
- Total height:** 760 mm
- Length:** 500 and 1000 mm
- Anchoring:** MEAGRIP
- Total weight:** ±163 kg/running m
- Gratings:** ductile iron
- Grating fixings:** bolted (x8)
- Load class:** F900, Type M

MEA®DRAIN Supreme EN 4000

- Opening:** 400 mm
- Total width:** 494 mm
- Total height:** 465 mm
- Length:** 500 and 1000 mm
- Total weight:** ±161 kg/running m
- Gratings:** ductile iron
- Grating fixings:** bolted (x8)
- Load class:** F900, Type M



Graz Airport

The advantages of concrete components:

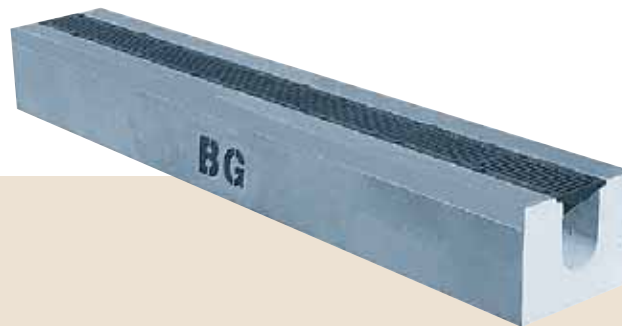
- 1.0/2.5 metre lengths
- self-supporting components with solid, steel-reinforced concrete sides
- no need for additional cladding of sides with a surface layer of concrete

Heavy-duty drainage channels in concrete

MEA®DRAIN Classic. Safety experts with experience

The **BG safety channel** in concrete has been specially designed for use on operational airport areas. This robust drainage system, with a **built-in seamless, sheet-steel frame** for high-quality edge protection,

is equally resistant to the accelerating and braking forces of an aircraft, as it is to baking heat and arctic temperatures. This means that **BG safety channels** pass the tests of everyday life in the demanding airside environment with flying colours.



MEA®DRAIN Classic BG safety channel

Opening:	100 mm	200 mm	300 mm
Total width:	500 mm	600 mm	700 mm
Total height:	485 mm	485 mm	485 mm
Length:	1000 and 2500 mm	1000 and 2500 mm	1000 and 2500 mm
Total weight:	±542 kg/running m	±584 kg/running m	±768 kg/running m
Gratings:	ductile iron	ductile iron	ductile iron
Grating fixings:	bolted (x8)	bolted (x8)	bolted (x8)
Load class:	F900 as per EN 1433, Type I	F900 as per EN 1433, Type I	F900 as per EN 1433, Type I



Salzburg W. A. MOZART Airport (Photo: Salzburg Airport Archives)

MEA®DRAIN heavy-duty drainage channels On the safe side, airside

Unbeatable advantages

Durable stability

These channel systems are able to withstand weights of many tonnes – whether as a result of aircraft, special vehicle or container movements. **MEAGRIP** ensures that, even with particularly high side walls, channel components are always anchored perfectly in the concrete haunch (EN 3070).

High and reliable discharge capacity

Smooth inverts and an excellent self-cleaning effect optimise drainage performance.

Durable products

Both polymer concrete and concrete are resistant to weathering, frost and de-icing salt, are largely wear-resistant and have proved themselves time and again over decades.

High resistance to hazardous substances

The high resistance of channel materials to liquid chemicals provides active and reliable groundwater protection. In addition, thanks to our close cooperation with partners in the sealants industry, we can supply suitable and highly effective materials to ensure perfect installation results.

For all applications

Specific solutions can be provided for special airside areas as well as adjacent applications landside.

System solutions with a complete range of accessories

In addition to the choice of materials between polymer concrete and concrete, there is also a range of nominal widths, ductile iron gratings as well as silt boxes, gullies and end caps.

Amsterdam Schiphol Airport



(Photo: Raport AG)



MEA®DRAIN drainage The professional and versatile system

The airport, with its airside and landside zones, is one of the specific fields we have expertise in – but there are many more. The **MEA®DRAIN** system, in the four product ranges – Supreme, Classic, Solution and Traffic – combined with an innovative and broad range of gratings, ensures that we can plan a successful solution for every type of application. Whether here, in the very special setting of an international airport, or in fact anywhere where there is a need for professional line drainage that is impressive both functionally and visually: **MEA has the solution.**

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|---------------------------|--|
| MEA®DRAIN Supreme | Drainage systems in polymer concrete |
| MEA®DRAIN Classic | Drainage systems in concrete |
| MEA®DRAIN Solution | Solutions for special situations |
| MEA®DRAIN Traffic | Polymer concrete drainage channels for roads |
| MEA®DRAIN Top | Gratings with innovative securing systems for the complete range of MEA®DRAIN drainage channels |
| MEA®TEC | Roof and facade drainage in galvanised steel and stainless steel |

