



The best of everything

ACO drainage for heaviest loads

ACO DRAIN® Powerblock



# Drainage under maximum load

In addition to maximum point loads, drainage systems are exposed to extremely high dynamic forces.

Europe`s freight traffic is constantly increasing. But the more transport, the more transshipment – whether at industrial yards, in seaports or container depots. Heavyweights of up to 100 tons are constantly operated and roll over the areas with increasing frequency. This is a stress test for every drainage system. Accelerating, steering, braking – all of this constantly affects the frames, covers and sidewalls of the systems. Horizontal thrust loads that arise, for example, from thermal expansion of the connected surfaces, also represent a load. The weather conditions – especially the harsh sea climate in ports, contribute their share of load as well.

If drainage systems in the heavy-duty sector are not designed accordingly, there is a risk of material damage, high costs due to failures, and expensive and complex repairs. This leads to economic damage due to malfunctions during operations.

**The ACO solution:** A new type of channel system that combines the positive properties of our heavy-duty channels ACO PowerDrain and ACO Monoblock – especially for applications in class F 900 and beyond. ACO is setting new standards in the area of heaviest loads.



## ACO DRAIN® Powerblock, fit for use in applications with maximum load and highest requirements

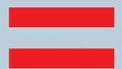
- made for extremely high point loads: durable safe in all heavy-duty applications
- withstands high dynamic forces: maximum stability thanks to monolithic construction
- maximum durability of the channel surface
  - no damage, thanks to a solid cast iron cover
- large inlet cross section
  - high hydraulic performance even in heavy rain
- cost-effective installation
  - economical thanks to the minimised amount of bedding concrete required and the direct installation of the surface



PowerDrain



Monoblock



A 15



B 125



C 250



D 400



E 600



F 900

The best of everything

## ACO DRAIN® Powerblock

### ACO Product Benefits

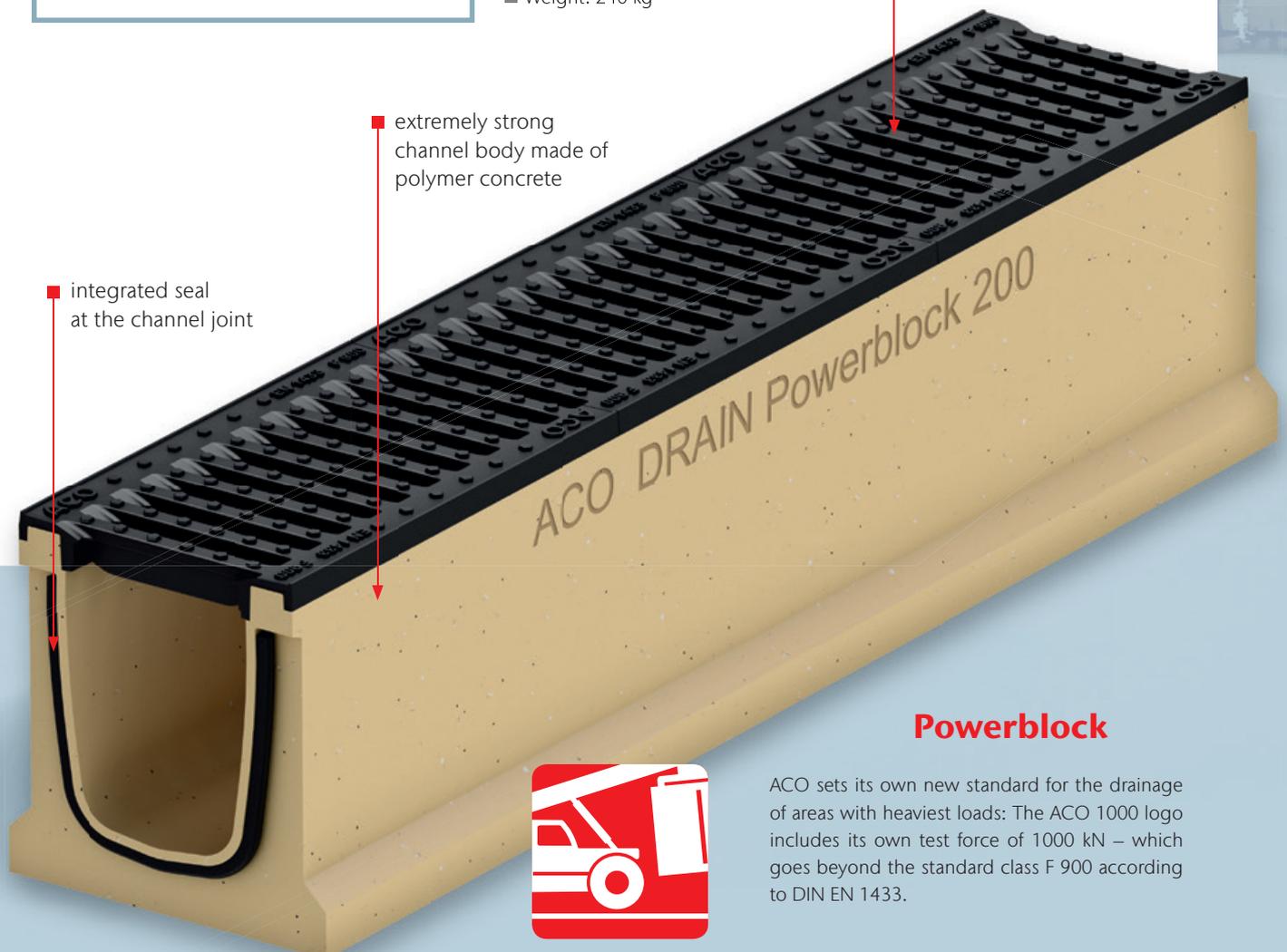
- integrated cast iron grate
- load beyond class F 900
- installation TYPE I, without lateral support
- with integrated seal
- large inlet cross section

- Height: 365 mm
- Length: 1500 mm
- Width: Top 300 mm
- Width: Bottom 350 mm
- Nominal width: 200 mm
- Inlet cross section: 900 cm<sup>2</sup>/m
- Weight: 240 kg



**NEW**

- monolithic design with an integrated cast-in cast iron grating



- integrated seal at the channel joint

- extremely strong channel body made of polymer concrete

### Powerblock



ACO 1000

ACO sets its own new standard for the drainage of areas with heaviest loads: The ACO 1000 logo includes its own test force of 1000 kN – which goes beyond the standard class F 900 according to DIN EN 1433.

# ACO. we care for water

Intelligent drainage systems from ACO increasingly use smart technology to ensure that rainwater and wastewater are drained, or temporarily stored. With innovative separation and filter technology, we prevent water contamination. We accept the challenge of reusing water, and thus establishing a resource-saving cycle.

ACO Ahlmann SE & Co. KG

P.O. Box 320  
24755 Rendsburg  
Am Ahlmannkai  
24782 Büdelsdorf  
Germany  
[info@aco-international.com](mailto:info@aco-international.com)  
[www.aco.com](http://www.aco.com)

