Uniclass L7315	April 2017
CI/SfB (52.5)	1 1

Drainage Systems

## **ACO Building Drainage**





Product catalogue

ACO DeckLine 125 Galvanised Steel Channel System



## ACO Building Drainage

Our built environment is becoming ever more complex. Applications are becoming more sophisticated, this increases the pressure of regulations and standards making achieving design, performance and financial goals ever tougher.

Our mission: to eliminate design risk, to reduce installation cost, and deliver long acting solutions and to deliver exceptional finish and performance in every product application.

Our global resources and manufacturing capacity make it possible for us to deliver the best value, both with our standard products and with our bespoke designs. Confidence is further assured with quality systems that are in accordance with ISO 9001-2008.

ACO Building Drainage is a division of ACO Technologies plc and part of the worldwide ACO Group. The Group has sales in excess of £700 million worldwide with production facilities in the UK, Germany, France, Switzerland, Denmark, Spain, Poland, Czech Republic, Australia and the USA. In total more than 4200 people are employed in over

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Tel: +44(0)1462 810400 Email: abdmarketing@aco.co.uk • A complete pricing service to stockists, contractors and clients.

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 Product availability, delivery lead times, and all other queries including collections, returns and product / service issues.

• Technical and installation advice.

- Detailed design and 'Value Engineering' advice.
- Hydraulic calculations and AutoCAD drawings.
- Advice on the suitability of ACO equivalent products.
- For all product brochures, imagery or mechandising material requests.

#### collect:

- Stainless Steel and Galvanised Steel Channels
- Stainless Steel Gullies
- Pipe Systems
- Roof / Balcony Drainage

ACO Building Drainage

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Lifting Stations

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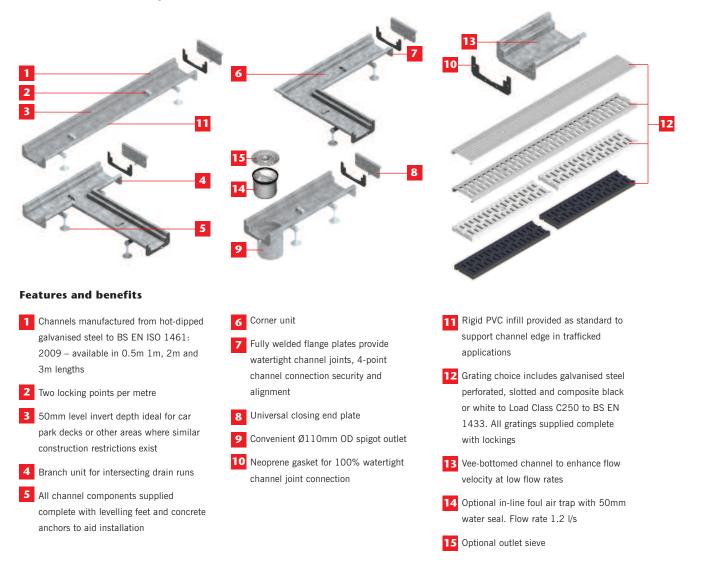




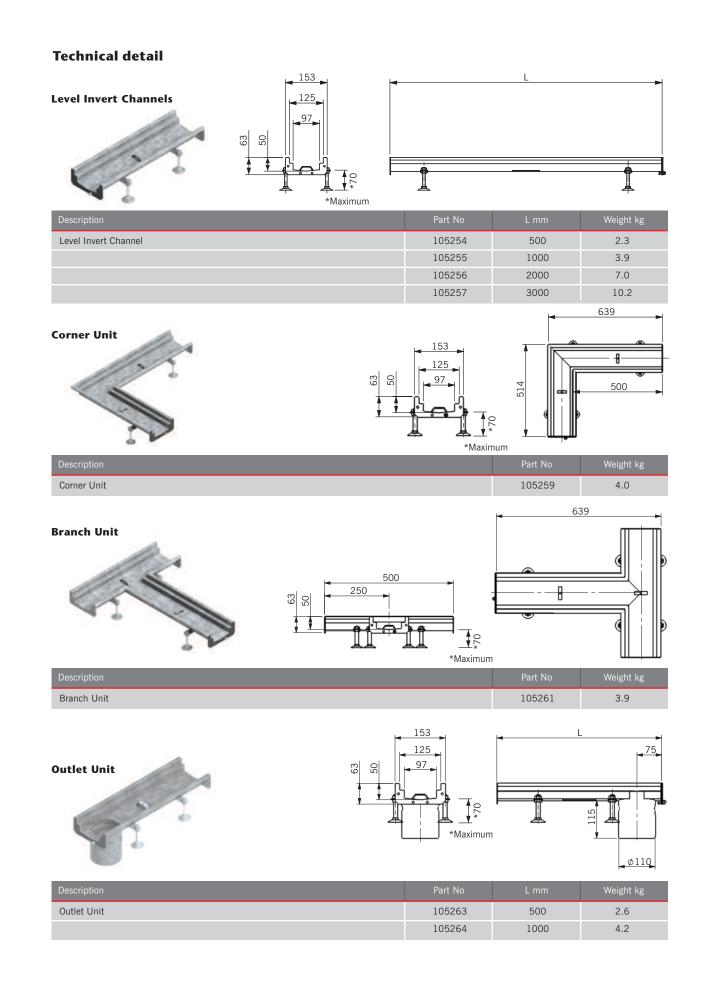
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## **ACO DeckLine 125 System Overview**



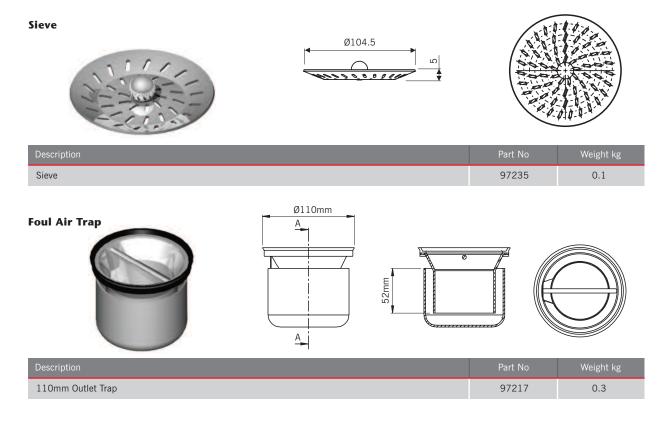




## **Technical detail**



## **Outlet Spigot Accessories**



## **Load Class Definitions**

# To BS EN 1433 - Drainage channels for vehicular and pedestrian areas.



Pedestrian and cycleways, domestic drives.



Pedestrian precincts, light vehicles, private car parks and drives.



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## Benefits of BS EN 1433 : 2002 – Linear Drainage Channels

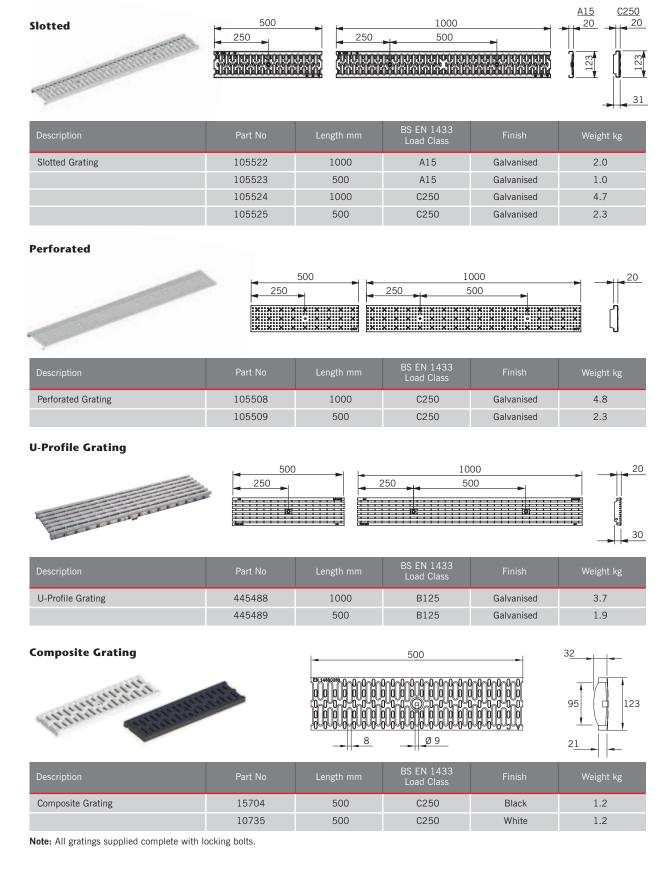
3rd party product assessment with CE marking to ensure products fulfil the Essential Requirements of BS EN 1433 for complete reliability, namely:

- Load bearing capacity guarantees performance of channels and gratings for the chosen application
- 100% watertight no contamination of drained fluids to surrounding installation/ground
- Durable for long, reliable life





## **Technical detail - gratings**



#### **NBS Specification Clause Reference**

For relevant NBS Specification, refer to NBS Section Q10 Kerbs/edgings/channels/ paving accessories.

## **General points**

#### **Ground Locations**

Excessive slab movement resulting in lateral loading on the channel must be avoided by the inclusion of longitudinal expansion joints.

If transverse joints are present in the slab these should cross the channel aligned with a bolted joint in the channel run.

#### Product

All components should be stored in a clean, dry level area prior to installation.

For chemically agressive applications, use ACO Modular 125 stainless steel channel drainage systems.

ACO DeckLine 125 is not suitable for swimming pools.

ACO DeckLine 125 is not suitable for carriageways of public roads or motorways.

### Installation

#### Step 1 Excavation

For shallow deck installations allow for a minimum of 30mm bedding material below the channel and approximately 100mm either side of the channel to allow access to levelling feet and joint flange plates.

#### **Step 2 Pipe Connections**

#### Spigot Outlet

Make the connection to the underground pipe with the spigot from the channel, being sure to position the channel correctly.

#### **Step 3 Positioning**

Position the channel and set to line and level using supplied levelling feet. Adjust the feet so the finished installation height is approximately 3mm below the finished floor level.

If the depth of the channel extends beyond the maximum depth of the support legs (70mm), ensure the legs are placed on a suitable material. For further information please contact our Enquiries team on 01462 810 421.

#### Step 4 Backfilling

To provide adequate clearance for grating installation, it may be necessary to use timber spacing struts which should be placed within the channel grating seat before concreting in to maintain the correct grating clearance of 2mm.

It may be necessary to weigh the channels down when filling the trench with concrete to prevent channels from lifting or floating.

The bed and surround must have sufficient strength to support the channel in service. A suitable mortar of minimum Strength Class of C30/37 should be used.

Remove any concrete or mortar spillages immediately from the surfaces of the channel.

#### Step 5 Grating Installation

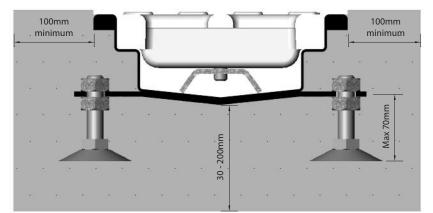
Wash and clean the channels taking care to remove any concrete or mortar splashes. Install the gratings and lock using the M8 hexagon bolts with a 13mm A/F wrench.

### **Operation and Maintenance**

Because of the nature of the channel system, care should be taken to maintain a clear waterway within the channel. Inspections should be made periodically to assess the extent of the debris build-up and maintenance schedule established to remove such debris.

#### **Cleaning Galvanised Steel**

Galvanised steel surfaces can be cleaned and rinsed with copious amounts of clean water. Stubborn stains are to be removed with a stiff bristled brush. Do not use a wire brush.



#### **Galvanised Steel Maintenance**

Heavy damage to the galvanised surface exposes the underlying metal to the atmosphere and corrosion will result if not treated. Any corrosion should be removed by light abrasion and the area treated with one of the many commercially available zinc sprays using the manufacturers' instructions.



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The ACO Group: A strong family you can depend on.

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