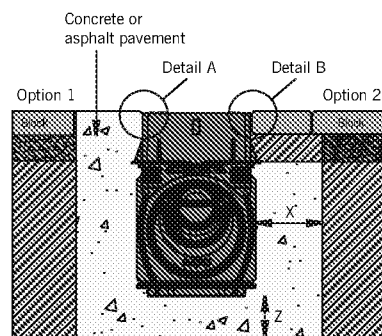
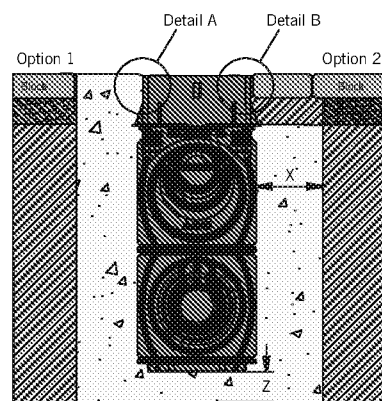


**ACO Qmax® 150, 225 & 350
access chamber with slotted
Q-Slot recessed cover**



**ACO Qmax® 150, 225 & 350
access, outlet/inlet chamber
with D 400 Q-Slot recessed
cover and frame**

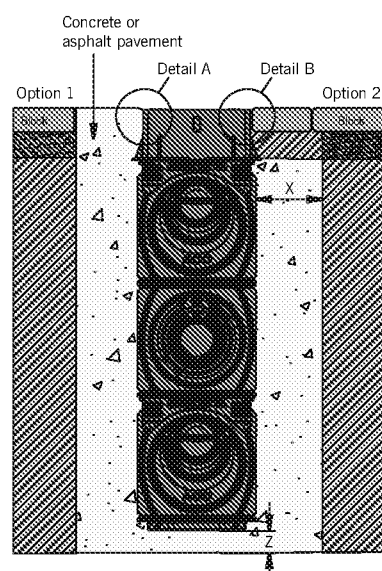


Installation guidance

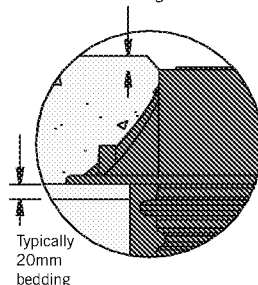
ACO can give guidance with respect to the most suitable methods of installation for the Qmax® range. ACO Qmax® should be installed using acceptable levels of workmanship and according to the National Code of Practice (UK: BS 8000: Part 14:1989) in keeping with BS EN 1433:2002 (Drainage channels for vehicular and pedestrian areas).

Detailed installation statements and methodologies will vary for all sites as each will have different aspects deserving particular consideration, consequently the relevant approvals should be sought from the consulting engineer and/or the installer.

**ACO Qmax® 150, 225 & 350
access, outlet/inlet and silt
chamber with slotted Q-Slot
recessed cover and frame**



Detail A 3-5mm above
frame edge



**Offloading, handling and
storage instructions**

In all operations, do not stack product on spigot (Male) end.

ACO Qmax® 150, 225 and 350 Channels

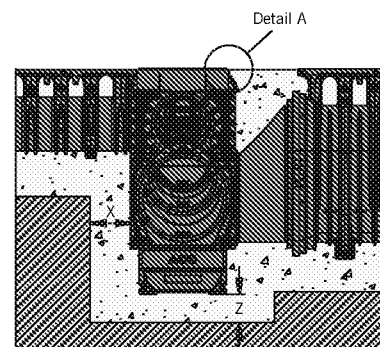
Offload channels from delivery vehicle using forks. Do not throw channels off the vehicle. Products may have moved in transit. Ensure that stack is stable before removing pallet wrap. To avoid product falling during unpacking, ACO recommend that this is a 2 man job.

Always lift stack via pallet. Do not lift from any part of channel.

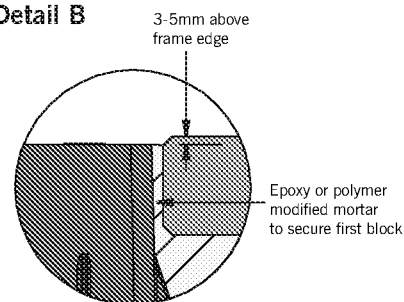
ACO Qmax® 550, 700 and 900 Channels

Offload channels from delivery vehicle using long forks or slings as appropriate. Do not throw channels off the vehicle. If craned, do not support from waterway inlet – use arches under the inlet slots. ACO Qmax® may be stored vertically, single stacked on socket (female) end or horizontally in a single layer.

**ACO Qmax® 550, 700 & 900
access chamber with D 400
slotted/solid cover and frame
oval to round connection detail**



Detail B



Storage instructions

ACO advises that products are stored in their original packaging until required to ensure protection of the product and to aid manoeuvre on site. Pallets of product must not be stacked on site to prevent damage and must be stored in a single layer only. All unwrapped products must be stored horizontally in a single layer.

When long term storage is envisaged (Greater than 6 weeks), the ACO Qmax® channels must be protected from direct sunlight, if protection cannot be provided, consideration must be given to the effects of daily exposure to direct sunlight. Protect from prolonged sub-zero temperatures. Do not allow heavy materials to be stacked on or against channels.

Chemical resistance chart

ACO Qmax® is manufactured from PE and has a high resistance to dilute acids, alkalis, and is unaffected by road salt, fuel, oil, deicing agents and other commonly encountered chemicals. Further details of the chemical resistance can be obtained from the ACO Water Management Design Services Team or for particular chemicals, samples of PE can be supplied to customers for their own testing. The chemical resistance will also depend on the temperature of the effluent.

The resistance of the gratings and edge rails should also be considered.

This chemical resistance chart refers to chemical at ambient temperatures (20°C) and the results are for general guidance only.

Important considerations for chemical environments.

When reviewing potential applications for ACO Qmax® in chemical environments, the following issues should be considered:

- › Type(s) & mixture of chemical(s)
- › Concentration percentages
- › Contact time with drainage system
- › Temperatures of chemicals flowing into the drainage system (80°C max)
- › Flushing system employed to clear chemicals from the drainage system
- › Cleaning agents should be checked for compatibility with channel materials
- › ACO material samples can be used for final determination of chemical resistance
- › Edge rails, seals, access and silt chamber materials should be checked for chemical resistance

Chemical medium	% conc	Resistance Polyethylene
Acetic acid, glacial	Greater than 96%	YES
Acetic acid	10% - 100%	YES
Acetic anhydride	100%	YES
Acetone	100%	YES
Alum	SOL	YES
Aluminium Sulphate	SAT SOL	YES
Ammonium Chloride	SAT SOL	YES
Ammonium Nitrate	SAT SOL	YES
Ammonium Phosphate	SAT SOL	YES
Ammonium Sulphate	SAT SOL	YES
Aniline (aminobenzene)	100%	YES
Barium Chloride	SAT SOL	YES
Benzaldehyde	100%	YES
Benzene	100%	Limited
Benzyl Alcohol	100%	YES
Borax	SAT SOL	YES
Boric Acid	SAT SOL	YES
Bromine	100%	NO
Bromine Water	100%	NO
Butyl Acetate	100%	YES
Butyric acid	100%	YES
Calcium Carbonate	SAT SOL	YES
Calcium Chloride	SAT SOL	YES
Calcium Hydroxide	SAT SOL	YES
Calcium Nitrate	SAT SOL	YES
Carbon Disulphide	100%	Limited
Carbon Tetrachloride	100%	Limited
Castor Oil	SOL	YES
Chlorine Gas, wet	100%	Limited
Chlorine Water	2% SAT SOL	YES
Chlorobenzene	100%	NO
Chloroform	100%	NO
Chromic Acid	50%	YES
Citric Acid	SAT SOL	YES
Citric Acid	20%	YES
Citric Acid	50%	YES
Copper Chloride	SAT SOL	YES
Copper Nitrate	SAT SOL	YES
Diesel (DERV)	100%	YES
Dimethyl Formamide	100%	YES
Dicetyl Phthalate	100%	YES
Ethanol	40%	YES
Ethanol	96%	YES
Ethyl Acetate	100%	YES
Ethylene Glycol	100%	YES
Ferric Chloride	SAT SOL	YES
Ferrous Chloride	SAT SOL	YES
Ferrous Sulphate	SAT SOL	YES
Formaldehyde	40%	YES
Formic Acid	40%	YES
Fuel Oil	100%	YES
Glycerine	100%	YES
Hydrobromic Acid	100%	YES
Hydrochloric Acid	Concentrate	YES

Chemical medium	% conc	Resistance Polyethylene
Hydrofluoric Acid	Concentrate	YES
Hydrogen Peroxide	30-90%	YES
Lactic Acid	100%	YES
Lead Acetate	SAT SOL	YES
Magnesium Chloride	SAT SOL	YES
Magnesium Sulphate	SAT SOL	YES
Maleic Acid	Concentrate	YES
Motor Oil	100%	YES
Nickel Chloride	SAT SOL	YES
Nickel Sulphate	SAT SOL	YES
Nitric Acid	25%	YES
Nitrobenzene	100%	NO
Oleic Acid	100%	YES
Oxalic Acid	100%	YES
Phosphoric Acid	98%	YES
Phosphorous Trichloride	100%	YES
Petrol	100%	Limited
Potassium Carbonate	SAT SOL	YES
Potassium Chloride	SAT SOL	YES
Potassium Dichromate	SAT SOL	YES
Potassium Hydroxide	10%	YES
Potassium Nitrate	SAT SOL	YES
Potassium Permanganate	20%	YES
Potassium Sulphate	SAT SOL	YES
Pyridine	100%	YES
Sodium Acetate	SAT SOL	NO
Sodium Bromide	SAT SOL	YES
Sodium Carbonate	SAT SOL	YES
Sodium Chlorate	SAT SOL	YES
Sodium Chloride	SAT SOL	YES
Sodium Hydroxide (Caustic Soda)	Concentrate	YES
Sodium Hypochlorite	15%	YES
Sodium Nitrate	SAT SOL	YES
Sodium Nitrite	SAT SOL	YES
Sodium Phosphate	SAT SOL	YES
Sodium Sulphate	SAT SOL	YES
Sodium Sulphide	SAT SOL	YES
Stearic Acid	SAT SOL	YES
Styrene	SOL	Limited
Sulphuric Acid	10%	YES
Sulphuric Acid	50%	YES
Sulphuric Acid	70%	YES
Sulphuric Acid	80%	YES
Sulphuric Acid	98%	YES
Sulphuric Acid	FUMING	NO
Tetrachloroethylene	100%	NO
Thionyl Chloride	100%	NO
Toluene	100%	Limited
Turpentine	100%	Limited
Water	100%	YES
Xylene	100%	Limited
Zinc Sulphate	SAT SOL	YES

Model specification clause

The channel drainage system shall be ACO Qmax® supplied by ACO Technologies plc. All materials and components within the scope of the system shall be supplied by this manufacturer. The channel units shall be fully compliant with BS EN 1433:2002 with Initial Type Test certification issued by a notified body independent of the manufacturer.

All units shall be of one piece manufacture in recycled Polyethylene (PE), with metal edge rails attached to the top of the channels.

The standard units shall be installed with the manufacturer's components as required for the scheme. The system shall be installed in accordance with the manufacturer's printed recommendations, and the works carried out as specified on drawings* and in accordance with recognised good practice. Standards of workmanship shall generally be as specified in BS EN 752 and BS 8000:Part 14:1989.

NBS Specification

ACO Qmax® should be specified in NBS Section Q10:170. Assistance in completing this clause can be found in ACO Technologies product entries in NBS Plus or a model specification can be downloaded from www.aco.co.uk. For further assistance, contact the ACO Water Management Design Services Team.

Recycled content

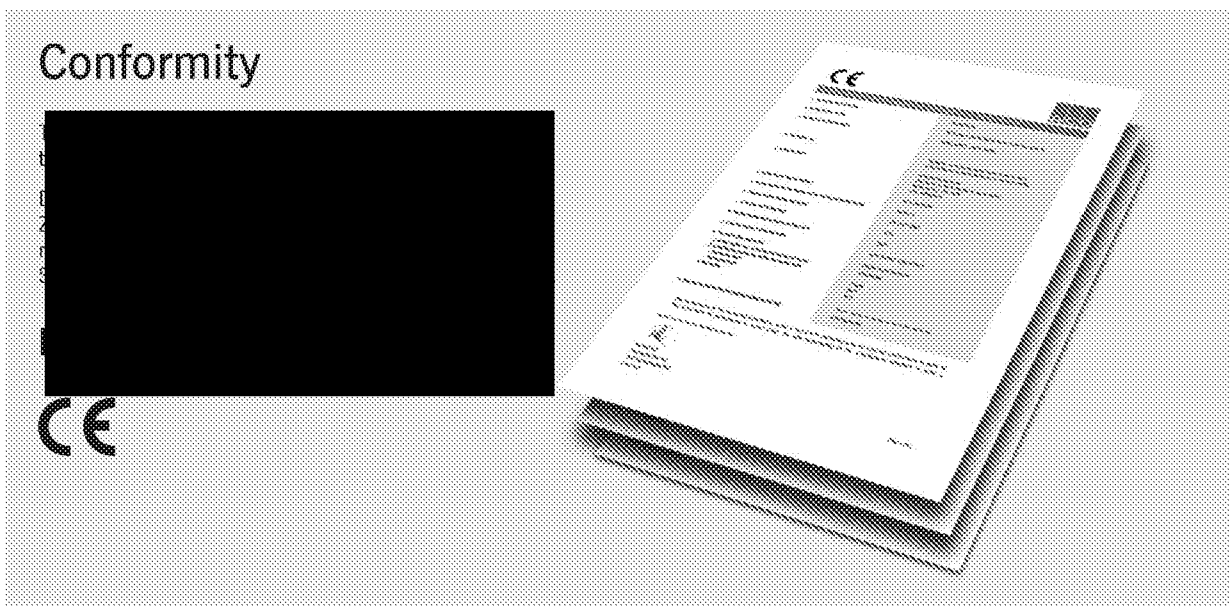
ACO Technologies aim to incorporate as much recycled material or waste material as is practicable in their manufactured products without compromising performance. Typically Polyethylene (PE) materials contain a minimum of 20% recycled plastic, ductile iron materials contain 40% to 90% recycled iron and steel products contain 25% to 33% recycled steel.



The total recycled content of each product in the ACO Qmax® system will vary as the proportion of different material varies due to the channel size and edge rail material and type. As an example, ACO Qmax® 550 channels with Q-Guard ductile iron edges will contain a minimum of approximately 27% by weight recycled content.

The ACO Qmax® products are themselves intended for long life with low maintenance, to reduce the need to recycle, but when eventually they are no longer needed, their materials can be readily recycled with a very low risk of pollution to the environment.

*complete as appropriate



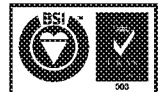
ACO Technologies plc

- ACO Water Management
Civils + Infrastructure
Urban + Landscape
- ACO Building Drainage
- ACO Sport
- ACO Wildlife

**ACO Water Management:
Civils + Infrastructure**

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SG17 5TE

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ISO 9001
FM 13502



ISO 14001
EMS 538781



OHSAS 18001
OHS 524145