



## ShowerDrain launched at Malbex, 2007



ShowerDrain system with  
Linéaire grate

Wet areas provide one of the most visible environments for drainage systems, requiring designers to select quality products for optimum performance, aesthetics and safety.

ACO, innovator and manufacturer of the world's most established range of high performance building drainage systems is exhibiting at Malbex, Kuala Lumpur. New to its range is **ShowerDrain**, compact bathroom drainage floor troughs complete with the industry's broadest selection of highly aesthetic grates. Manufactured from stainless steel and available in 900mm, 1200mm or built to custom lengths, **ShowerDrain** can easily be secured into the topping screed making it ideal for existing (retrofit) or new bathrooms.

Five grate options are available including **Linéaire™**. This is a unique patented grate designed with anti slip features to ensure surfaces are safer to walk on when wet for areas requiring enhanced slip resistance. For efficient drainage, 50% of the grate's surface area is open leaving wet areas free from hazardous water build up.

**ShowerDrain** is fully accredited to the strictest regulatory requirements and can be installed adjacent to walls, shower hobs and even in hobless applications for uninterrupted safety of passage.



Flag



Linéaire



Pearl



Quadrato



Wave



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[www.acoaus.com.au](http://www.acoaus.com.au)

# HVAC grates satisfy form and function

Innovation is something every new building design aspires to. Be it through cutting-edge design or facilities, architects and developers are continually challenging the established norms.

The Millennium Arts project is no different. With a strong emphasis on reducing the buildings' environmental impact, the project incorporates a number of pioneering systems.

ACO was approached by Bovis Lend Lease to manufacture **stainless steel floor grates** for ventilation of the gallery's ducted air-conditioning system.

A number of exigencies needed to be addressed before the product would be considered suitable for use in this application. The grates needed to meet the slip resistance requirements of the various floor finishes within the galleries. They also needed to meet a 5kN load rating in line with the structural floor slab, as well as being heelproof to prevent the penetration of stiletto heels while allowing enough of an air flow into the gallery areas.

To meet the load rating requirements and expected point loads of the lifting equipment used in the gallery, ACO re-engineered the grate to provide greater reinforcement, especially for the wider sections.

Manufactured from stainless steel, and in widths up to 700mm, more than 500 lineal metres of grate now complements the overall industrial aesthetic of the gallery space.



Gallery of Modern Art, QLD

**Aussie  
made  
perimeter  
drain keeps  
hitting  
boundaries.**

MCG, VIC



The Melbourne sports precinct, dominated by the Melbourne Cricket Ground (MCG) has the distinction of being one of the largest sporting districts with such close proximity to a CBD. Due to the upgrade in preparation for the Commonwealth games, the MCG now seats almost 100,000 spectators.

Part of the refurbishment was the most significant surface works performed at the ground in its 150 years. This involved careful coordination of the arena renovation and ground works with the construction of the running track. In preparation for the laying of the track base, the crown was completely removed and prior to the reinstatement of the centre wicket slab and portable pitches, a new irrigation and drainage system was installed.

600 metres of perimeter drain, supplied by ACO Polycrete was installed along the boundary fence and beneath the advertising awnings. **KlassikDrain** (100mm wide) trench drain, complete with durable, UV stable polypropylene grates and robust ductile iron grates for areas of vehicular access was selected. **KlassikDrain** is a grated trench drain complete with QuickLok, ACO's patented boltless locking system allowing for quick access to trenches for maintenance.

Nominated by the project's track manufacturer MONDO, a further 600 metres of ACO's specialised sports drain system, **Sport 3000**, was installed for the drainage of the running track, as well as the long jump and presentation areas. ACO's sports systems have been installed in major sporting stadiums (including the Sydney Olympic Stadium) for over 30 years.

## ACO attends Hagemeyer's Connections Conference

In April 2007, the Hagemeyer Electrical Group held its Connections Conference in Kuala Lumpur, Malaysia.

Andrew Squire and Gary Wray represented ACO at the conference where the management, staff and customers of Lawrence and Hanson and Auslec were introduced to ACO's access covers, including popular systems as Rhinocast, Urbanfil and Pavermate. These systems complement ACO's cable pit and ducting range.

Designers and contractors now have enormous scope for selection for their project requirements. ACO also has an established technical department

staffed with qualified engineers to support its products. The service is offered free of charge and without obligation to Lawrence and Hanson, Auslec branches and their customers.

With advances in distribution techniques, ACO now has the capability to deliver goods to stores or construction sites, regardless of the size of the consignment anywhere within Australia. The company has enjoyed a successful association with Lawrence and Hanson and Auslec stores for over ten years. Its attendance at the Connections Conference marks the start of an enduring reciprocal relationship for all parties.



Connections Conference, MALAYSIA

# Malaysian Drainage Shipshape - 8 years on!



Port Johor, MALAYSIA

In 1999, the Malaysian Government embarked on the development of some new container docks at Tanjung Pelepas Port (Port Johor), located at the southern tip of Malaysia. This was an initiative for a strategically positioned port location to actively compete with other established south-east Asian ports, particularly Singapore and Hong Kong.

As part of the pavement design for the new facility, engineers required a high performance trench drainage system that would satisfy three main requirements: to keep the overall pavement geometry flat, free from unsafe complex falls; restrain the brick pavers and allow trafficability of heavy loads to F900KN (EN1433).

The ACO DRAIN S System (an earlier model to PowerDrain, ACO's current heavy duty trench drain) met all three requisites. A total of 1,000 metres was installed in the project and the system will continue to perform to its design requirements for many years to come.

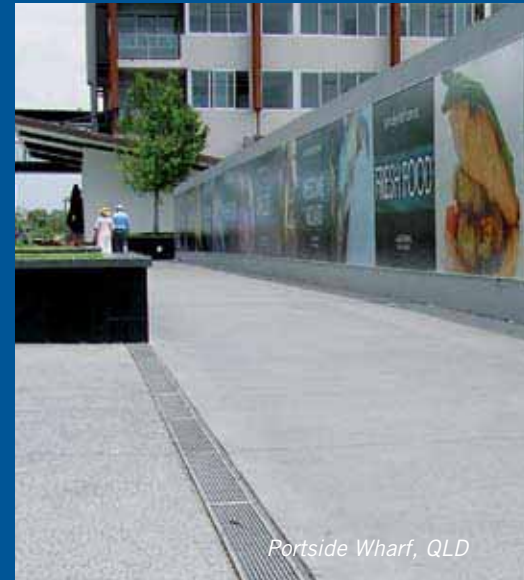
Commercial Wharves & Docks provide the most punishing environments for drainage systems. Busy maritime operations involve the movement of very heavy vehicles as they load and unload containers. The repetitive nature of heavy wheel loads imposes severe stresses on apron areas, whilst the corrosive nature of the marine air environment requires only proven, reliable, quality products to be used.

***A total of 1,000 metres was installed in the project and the system will continue to perform to its design requirements for many years to come.***

As an ISO 9001 registered company, ACO has supplied a variety of durable products including heavy duty access covers and trench drains to container and passenger wharves and docks worldwide for over 30 years. ACO also manufactures high performance stainless steel drainage grated troughs, floor gullies and modular pipe systems ideal for use in terminals and other quayside buildings.



## Slick grates on the Waterfront



Portside Wharf, QLD

Brisbane's Portside Wharf was opened on August 29, 2006, a world class passenger terminal, catering for ships of various types and sizes. It has become the gateway to Brisbane and its beach resorts. The hinterland regions of the Gold Coast and Sunshine Coast are also a short drive away.

The expansive riverfront location is the beginning of Brisbane's largest urban renewal project. Hamilton Northshore comprises restaurants, fresh produce markets, cinemas and a premium function centre all set along a public plaza and vibrant wharf. Portside Wharf, on the Waterfront at Hamilton contains Brisbane's exclusive riverfront residences with over 150 apartments overlooking the Brisbane River

During storms, to keep the numerous flat walkways and access paths free from hazardous surface water build up, designers had decided on hundreds of metres of trench drainage. In highly (foot) trafficked areas at close proximity to the waterfront, Grade 316 stainless steel Heelguard Antislip™ grates were selected to ensure safety of passage for the thousands of people that visit each week. Manufactured by ACO Polycrete, these grates are locked into ACO Drain modular precast channels made from durable polymer concrete with integrally cast stainless steel edge rails. This gives the trench drain a highly polished aesthetic appearance as well as superior corrosion resistance.

Heelguard Antislip™ grates are only available from ACO Polycrete and are rated to R10 – AS/ NZS 4586:2004 Slip resistance classification. The grates come in 3 standard widths up to 300mm and are locked into the ACO Drain **KlassikDrain** system, ACO's general purpose modular trench drain range. Channels in the **KlassikDrain** range can be assembled to produce sloped runs for efficient drainage, ideal for flat pavements.

To cater for service and public vehicles, ACO's heavy duty trench drain, **PowerDrain** was also installed across the Riverfront's numerous access roads.

# Fully accredited building *drainage systems*



Boags, TAS



Heelguard Antislip™  
Patent No.635425



ACO are established world leaders in the manufacture of high performance stainless steel building drainage solutions.

Its purpose built **line drainage systems**, including over 10 grate options, are now fully accredited to WaterMark Licence Level 2. WaterMark is granted to products that comply with MP52 or AS/NZS 3500 and certified in accordance with ISO/IEC 67.2004, System 1b. This allows designers and installers to select any system from ACO's range with confidence.

The offering includes a variety of stainless steel trough and grate systems manufactured in either grade 304 or 316 for hygiene and aesthetic applications. A choice of edge profiles and grates are available to suit most load, security requirements and surrounding floor finishes.

The comprehensive range is ideal for commercial, industrial and residential applications.

## ACO's Export Business keeps expanding.

So far in 2007, ACO Polycrete has sold and supplied products to many different countries. These include New Zealand, Fiji, Singapore, Solomon Islands, Vanuatu, Philippines, Malaysia and UAE.

The products supplied range from cable pits and covers for the new Intercontinental Hotel in Fiji, sports track drainage products to Malaysia,

grease separators for Changi (Terminal) 3 Airport in Singapore and multipart access covers, manufactured to EN124 Standards, to Dubai

ACO is a Global Company and is able to provide excellent customer service to support its truly diverse product range throughout the world.

## ACO Access Website - the definitive guide

ACO Polycrete has upgraded its website to include a new section detailing its range of access covers, the widest range of cover and frame systems in Australia.

The website provides useful information to assist specifiers in selecting the right product for the project application so that potential problems are eliminated such as failures during service. A number of key factors to consider are explored in detail.

Over 100 product thumbnails can be downloaded for specification as well as over 70 installation drawings incorporating all systems for various load classes and pavement types. For installers, a comprehensive installation guide is available.

During recent years, the ACO Group has expanded its access cover business to become a world leader. As part of its growth, ACO has placed particular emphasis in the area of single and multiple manhole covers and recessed steel covers. This is supported by its Sydney based Technical Services Department with many years experience advising on access covers.

*"Over 100 product thumbnails can be downloaded for specification as well as over 70 installation drawings"*

A request sheet is available online for customers requesting a custom design. ACO's engineers will design an optimal multipart solution based on specific design criteria. This is a free service offered without obligation.



Visit: <http://www.acoaus.com.au/access>

**For further information,  
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