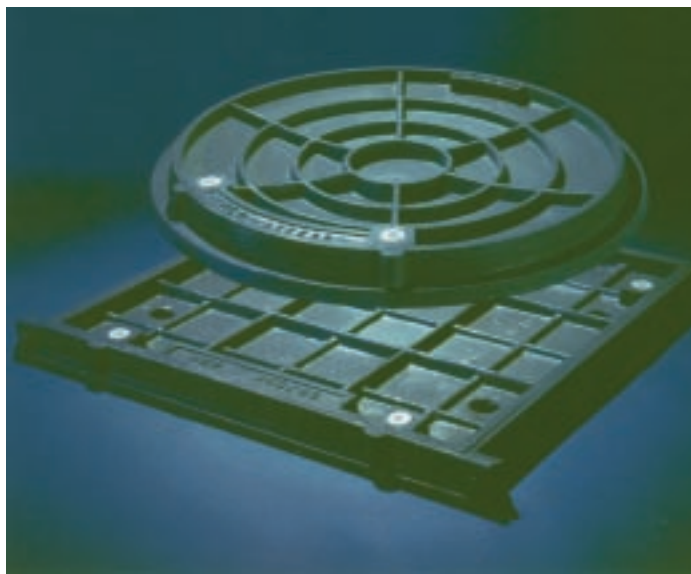


Ductile Iron Access Covers

ACO Polycrete has now expanded its market-leading, galvanised steel, recessed, access cover range to include products manufactured from ductile iron. This range now offers customers the widest range of access covers available in Australia.



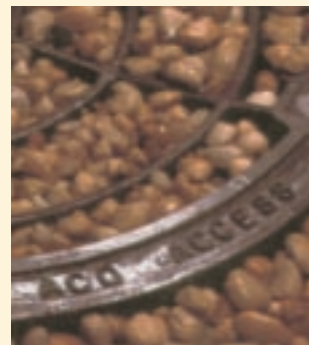
The **ACO Ductile Iron** range consists of two main components - cover and frame. Manufactured from ductile iron, the covers have been designed and tested to Australian Standard AS3996-1992. They are machined on both horizontal and vertical surfaces to ensure a watertight seal.

The covers are manufactured with a special rib design which offers maximum load strength and reduces the overall weight. Standard keyholes are protected with plastic plugs.

Sales have been made in single to three and four part configurations from ACO locations.

Cover and frame installations will satisfy loads of up to 210kN.

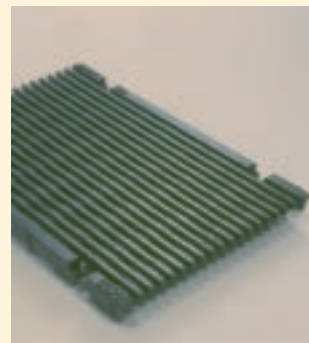
NEW PRODUCTS



Ductile Iron Access Covers
See adjacent story



Composite 'Heelguard' Grate
See rear cover



'Heelguard' 200mm , 300mm
See adjacent story

More than just a STANDARD grate

**Australian Standard
AS1428.2-1992
ACCESS AND MOBILITY**

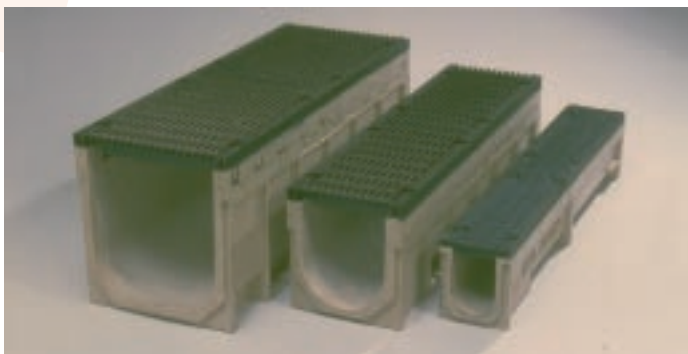
"9 GROUND AND FLOOR SURFACES

Ground and floor surfaces shall comply with the requirements for floor surfaces in AS1428.1, and with the following:

(c) Gratings If gratings are located in a walking surface, they shall have spaces not more than 13mm wide and not more than 150mm long. If gratings have elongated openings, they shall be placed so that the long dimension is transverse to the dominant direction of travel"

reference: Australian Standard ®

To date, the availability of wide, heavy duty grating that satisfies Australian Standard AS1428.2-1992 (Access and Mobility), load class and performs its drainage function, has been relatively limited.



The addition of **ACO S Channel 'Heelguard' grating** in 200mm and 300mm widths provides a wider range of options for specifiers. The **S200 and S300 channel systems** with the new **ductile iron 'Heelguard' grating** caters for loads up to Class E and satisfies AS1428.2 - 1992. The wider channel systems offer greater water intake and dispersal.



Quality
Endorsed
Company
ISO 9002 Lic 1883
Standards Australia

For further product information, or, CAD specification disks for installations, contact your nearest sales office.

Myer Music Bowl Upgrade

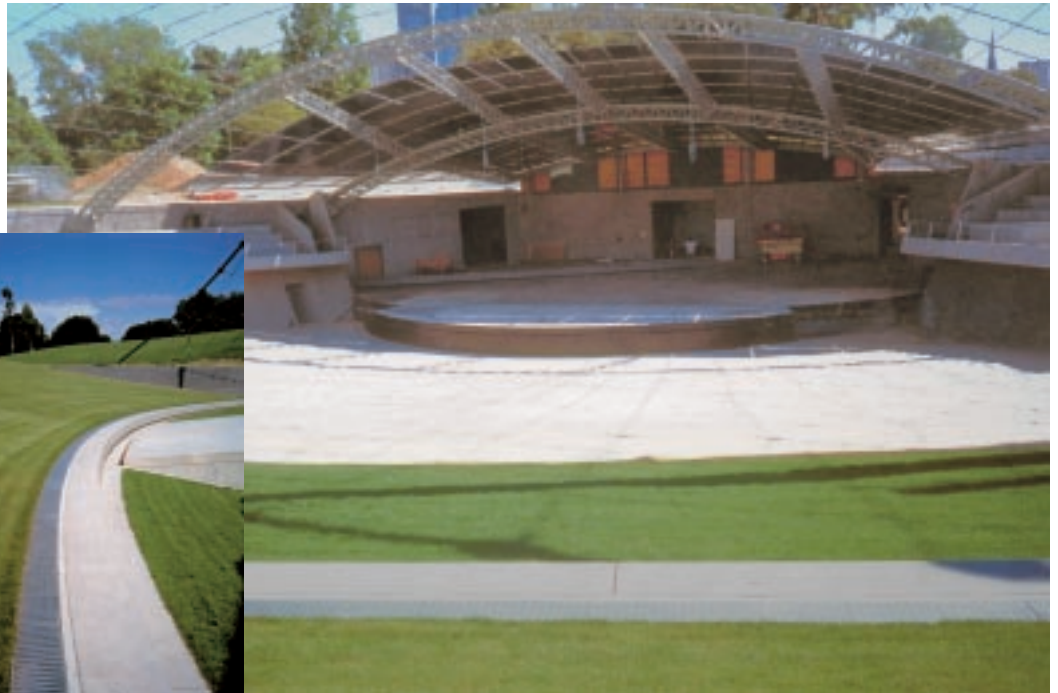
Home to 'Carols by Candlelight' and one of Melbourne's key outdoor entertainment venues, the Sidney Myer Music Bowl has undergone a major refurbishment.

As part of the refurbishment, the drainage system was redesigned with the assistance of **ACO's Design Services** team.

The project posed a number of challenges, from large catchment areas to periods of high volume, heavy duty traffic by forklifts loaded with sound and electrical equipment. Pedestrian safety also factored into the equation, requiring a heel proof, narrow slot.



Add to these essential elements the need to install the channel and grating on a radius to suit the aesthetics of the grounds.



ACO's Design Services team determined that 200mm and 300mm width, heavy duty 'S' channel systems were required for the drainage system.

Heavy duty grating was required to accommodate the vehicular traffic, however **ACO's** standard slotted grating was not suitable for the pedestrian volume.

ACO designed a new, **heavy duty, ductile iron 'Heelguard' grating** to suit the 'S' channel system and has now included the grating in the product range.

Installation of the grating then required angle cuts to minimise the gap between grate sections. Finally, the grating was then galvanised to effect a non-rusting, aesthetic finish.

ACO support provides solution

ACO was recently approached by Garde Constructions to manufacture a lightweight, cable support beam.

Originally constructed from Portland cement, the beams are required to support high voltage, underground cables in a wine rack configuration. The original beams weigh approximately thirty-five (35) kilograms each and require two (2) installers per beam for handling.

Garde Construction required a product that:

- met the critical dimensions,
- satisfied load bearings, and
- reduced product weight to allow for handling and installation by a single installer per beam.

Using the characteristics of polymer concrete, **ACO** were able to produce beams that met the critical requirements of load and dimension.

The new product, at six (6) kilograms per beam, weighs less than 20% of the predecessor, maximising ease of handling and installation.

Polymer concrete is such a diverse material with a virtually limitless ability to be cast to individual specifications. It is ideal for applications requiring excellent chemical resistance, high vibration absorption and good strength to weight ratios. Garde Construction and their client Energy Australia were very happy with the results of the new beams.

"The new product, at six (6) kilograms per beam, weighs less than 20% of the predecessor, maximising ease of handling and installation."



ACO pitch for GABBA

Refurbishment of the GABBA surrounds to offer greater pedestrian safety posed a number of challenges to the contractors.



Vulture Street, on the southern boundary of the GABBA is a busy thoroughfare for both vehicular and pedestrian traffic. The narrow footpath was extended into Vulture Street to cope with the enormous volume of pedestrian traffic during sporting events. Problems began to occur during construction, due to the varying contours of the street surface, requiring a drainage system to be installed to capture surface water.

“This was compounded by depth restrictions on the drainage system due to existing underground services”

This was compounded by depth restrictions on the drainage system due to existing underground services, as well as restriction on the number of outlets required.

ACO recommended the use of **two adjacent, 75 metre runs of K100 constant depth channels** to efficiently manage the surface drainage without interrupting the underground services.

‘Heelguard’ ductile iron grating was installed to satisfy both pedestrian safety and vehicular wheel loads.

The channel was installed using an epoxy based mortar to provide support against lateral and vertical forces of the pavement surrounds.

Branded, locked & secure

Telecommunications company AAPT selected ACO CABLEMATE polymer concrete pits for ongoing pit refurbishment in Perth. The pits were covered with AAPT branded, chequer plate, lockable covers.

The inclusion of AAPT identification plaques, enabling pit differentiation from other major carriers, was most beneficial to the customer. All engineering requirements were met, ensuring future maintenance was minimised.

The **ACO CABLEMATE** range of polymer concrete pits offer excellent dielectric properties, high mechanical strengths, chemical resistance and zero water absorption.

The **ACO CABLEMATE** range offered AAPT a number of benefits, including:

- highly aesthetic, secure, lockable covers,
- very durable and easy to handle pits,
- ease of installation,
- cost-effectiveness, and
- nation-wide delivery.



Composite 'Heelguard' Stainless Steel Alternative

The new ACO DRAIN Composite 'Heelguard' grating has an 8mm slot width providing both efficient hydraulic intake and satisfying Australian Standard 1428.2-1992 for access and mobility.

This new addition to the **ACO** range possesses a wide range of aesthetic and material benefits including high chemical resistance.

Designed in basic black, the clean, simple lines of the **Composite 'Heelguard' Grating** make it ideal for applications such as pedestrian malls, across entrances, indoor areas and light vehicular traffic areas.

Perhaps the major benefit of the **Composite 'Heelguard' Grating** is the cost-effective, aesthetic alternative to stainless steel.



"the Composite 'Heelguard' Grating is the cost-effective, aesthetic alternative to stainless steel."

Aesthetic Benefits:-

- cost-effective alternative to stainless steel
- no surface discolouration

Material Benefits:-

- 8mm slot width satisfies AS1428.2-1992
- corrosion resistant
- trafficable (C Class)
- UV stable
- lightweight
- non-rusting
- excellent resistance to a wide range of chemicals
- reduced maintenance costs
- 500mm lengths

For further information, visit our website:

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

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New face for Werribee

Located approximately 30 minutes from central Melbourne, the City Of Werribee is well known for its Open Range Zoo, Veterinary Science University and farming district. During 2000, Werribee underwent a \$3.5 million upgrade of the central business district over a six month period including the installation of a new drainage system.

Using **ACO K100** channel with ductile iron 'Heelguard' grating the drainage system consisted of many runs, including some on a radius and others mitred at 45 degrees.

The **K100** channel used has an integrally cast edge rail that allows pavers to be laid up to the edge of the drainage system in an aesthetic and unobtrusive fashion.

