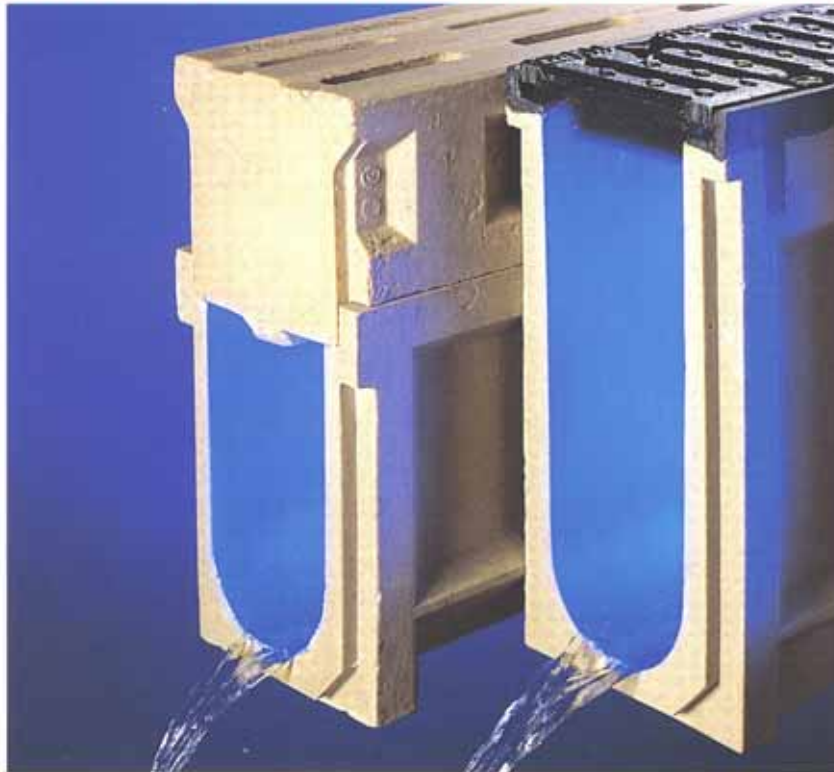


The newsletter of  
**ACO Polycrete Pty Ltd**



## EXTENSION TO FREE HYDRAULIC DESIGN SERVICES

For some time **ACO Polycrete** has offered its clients a free, without obligation, hydraulic design service to ensure that the channel system will perform to the specifications required. The results of the grating intake test now enable **ACO's** design services

*"ACO can now confirm the water intake capacity of any ACODRAIN grating"*

department to confirm that the grating chosen will allow the water intake capacity specified and, if not, which alternative grating should be used.

# ACODRAIN GRATING INTAKE TESTING

Fifteen years ago **ACO** was the first company to empirically test its channel drain systems in laboratory conditions. These experiments led to the development of the **ACO 'Hydro'** software system which offers specifiers and installers information about the channels' performance under a variety of design conditions, as well as peak flow conditions.

**ACO Polycrete** recently commissioned a leading Australian University to carry out a series of independent tests on

10 different types of grating used in the world leading **ACODRAIN** modular drainage systems. These tests included measuring the effect of a variation of ground slope on the intake capacity and varying the flow rate to the grating. The test gave conclusive proof that the unique diamond antislip surface on **ACO** gratings has a beneficial effect in deflecting water into the slots.

**ACO** tested gratings from its 100mm, 200mm and 300mm wide **ACODRAIN**

systems including a variety of grating types from mesh to perforated and from longitudinal to transverse slots.



# TYPE 5 PIT LAUNCHED



**ACO Polycrete** continues its policy of offering the most comprehensive range of cable jointing pits, with the introduction of the **Type 5** high density polyethylene pit to complement the existing Type 3 and Type 4 pits.

The new **PCP5 pit** has the same unique body design as the other HDPE pits in the **ACO CABLEMATE** range, which gives the pit structural rigidity and allows the best possible keying into the surrounding backfill, whether it is Portland cement concrete or 'soft' materials such as earth

and sand. The **PCPS** complies fully with the type P5 specification as used by many public authorities and communication companies and is available with a variety of lids.

As with the other HDPE pits in the **ACO CABLEMATE** range, further product innovations have been introduced on the **PCP5**. A new seating for the cover has been introduced which gives better integrity of the pit lip, allows loads to be transmitted more evenly into the pit structure and surrounding backfill. The new seating design also allows a squarer profile to the pit edge which increases the aesthetics once installed.



*"Seating Innovations are introduced on the PCP5"*

The **PCP5** is available with a Portland cement cover, galvanised steel cover, or the new lockable steel covers which have recently been introduced to the range of HDPE pits as well as the rigid '**Polycrete**' polymer concrete electric pits. All covers can be supplied marked 'Electricity', 'Communications', or blank.



## AUSTRALIAN GRAND PRIX DRAINAGE

In excess of 400m of **ACODRAIN K1005** pre-cast polymer concrete, modular drainage system was installed around the Grand Prix circuit in Albert Park, Melbourne prior to this year's Australian Grand Prix.

*"ACODRAIN has been used on motor racing circuits world wide"*

## IMPROVEMENTS TO ACCESS COVER RANGE

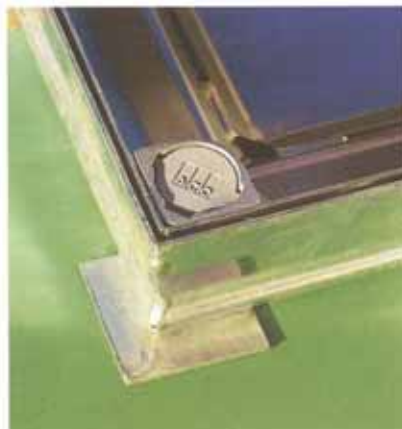
Recent improvements have been introduced to the successful range of **ACO Access** aesthetic, steel, recessed access covers. The **ACO Access** product range is manufactured in single, double, triple and multiple units allowing any size of pit to be covered. The accuracy of manufacture and the positive neoprene seal give a much better, water resistant, air tight solution than cast iron units which rely on grease for a seal which dries out and has a tendency not to seal again once the cover is removed.

*"Keying flange plates introduced to the successful ACO Access cover range"*

A recent improvement to the range has been the additional 'keying in' flange plates located at the corners of the frame on the larger single units and all multiple units.

Although not required in light duty applications, the flange plates give additional 'keying in' to the surrounding floor material at the cover lifting points.

All **ACO Access** covers are available with brass edging for highly aesthetic locations such as hotels and shopping malls.



The recent addition of spectator mounds for better viewing by the public gave the potential problem of surface water running down the mound and onto the track in the event of a rainstorm. To provide a barrier to this run off water, strips of **ACODRAIN K1005**, fitted with locking cast iron Heelguard gratings, were installed between the race track and the spectator areas. The unique one metre pre-sloped modular **ACODRAIN K1005** units available in 60 different depths, allow the base of the channel run to have a continuous built in fall whilst allowing the surface to stay level with the surrounding race track and run off areas.

**ACO** have also supplied **ACODRAIN** in the pit area of the Albert Park circuit as well as to a number of other motor racing circuits in Australia and the rest of the world.

# STREETSCAPE IN MELBOURNE USES ACODRAIN

The Whitehorse City Council recently carried out a streetscape project at Carrington Street, Box Hill, Melbourne, Victoria. The objective of the upgrade was to create a mall type atmosphere as the road has many restaurants and shops located along it.

To create this impression, Aspect Landscape Consultants limited the traffic area to one lane rather than two lanes and eliminated all kerbs to provide an obstruction free access across the road for pedestrians. The new pavement areas are brick paved in contrasting colours and landscaping with street furniture has been added.

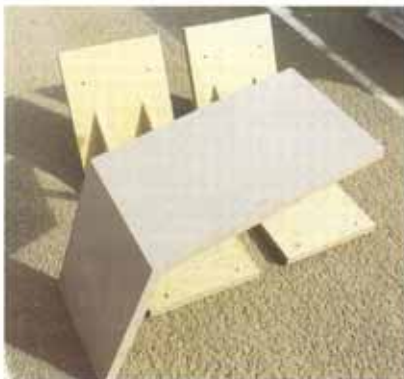
*"To ensure pedestrian safe drainage"*

To ensure pedestrian safe drainage and keep the underground drainage to a minimum, Aspect specified **ACO DRAIN K1005** with Heelguard gratings. **ACO's** Design Services were able to recommend **ACO DRAIN** layouts which provided the correct hydraulic performance and allowed discharge into the existing side entry pipework. The runs of **K1005** replaced the old concrete kerbs and allowed a visual delineation between pedestrian and trafficked areas as well as providing the complete drainage for the entire street.



## 'POLYCRETE' POLYMER CONCRETE BRIDGES THE GAP

During the construction of the western link road in Melbourne, Boulderstone Hornibrook contractors approached **ACO** to manufacture



small panels which could be bolted over the recess in the bridge deck where the fixings to the supporting structure were located.

*"An ideal material solution"*

The use of '**Polycrete**' polymer concrete was ideal as these panels needed to be corrosion resistant, accurate and easy to fit. Each panel was produced in the appropriate colour to match the concrete and **ACO** also supplied the aluminium support brackets.





## ACO ACQUIRES GREASE TRAP COMPANY

The **ACO** Group recently purchased the AWK group of companies in Germany. As part of the AWK group **ACO** has now acquired the company of **SIGNUM**, one of Germany's foremost designers and manufacturers of grease interceptors and separators. The strict regulations in Germany prevent concrete and mild steel being used for grease trap bodies and all interceptors must be non biological (ie not use enzymes). The result of these regulations is interceptors that are manufactured from either stainless steel or Polyethylene and have the facility to be easily cleaned by hand or by suction.

*"ACO Group recently purchased the AWK group of companies in Germany"*

The rise in Australian environmental standards has led to greater interest in grease interceptors recently. **ACO Polycrete** is carrying out an extensive study of the **SIGNUM** range to consider the viability of manufacture and supply to the Australian and New Zealand market.



# LOCKABLE COVERS INTRODUCED FOR CABLEMATE ELECTRICAL PITS

With the consistent need for greater security on electrical pits, **ACO** has introduced a range of lockable chequer plate steel covers that can be fitted to any Cablemate pit, either '**Polycrete**' polymer concrete or HDPE plastic. The steel covers will take heavy duty 5 tonne wheel loading as standard but upon request **ACO Polycrete** will make special extra heavy duty covers.

The new system comprises a removable galvanised steel locking bar which engages on two brackets connected to the pit wall and a choice of either a bolted cover, where the bolt fits through the cover and screws into a thread on the locking bar, or **ACO's** specially developed 'military' type of locking cover. The removable locking bar allows uninterrupted access to the electrical pit.

*"The military style of cover was specifically designed by ACO Polycrete in conjunction with specifiers for Army and Air Force"*

The 'military' style of cover was specifically designed by **ACO Polycrete** in conjunction with specifiers for Army and Air Force bases where authorised access to the pit could only be obtained by the removal of a key padlock. Unlike the bolted cover the removable locking bar has an upstand with a hole to take the padlock. This upstand fits through a slot in the steel cover. To avoid the padlock being an obstruction to pedestrians and vehicles the padlock is protected in a recess which is covered with an easily removable small circular cover.



An alternative means to covering electrical pits in highly aesthetic locations is to use one of the range of **ACO ACCESS** galvanised steel recessed access covers. These products are ideal in areas where the pit needs to be as discreet as possible - such as brick paved areas, shopping malls etc. The recessed cover allows the cover to be filled with the same material as the surrounding floor area.



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