

**ACO**, one of the world's leading suppliers of electrical cable jointing pits and cable drawing pits, has introduced a new technical guide for pit and cover selection.

The **ACO CABLEMATE** range of products consists of pre-cast Polymer Concrete pits, risers and covers, moulded high density polyethylene pits and covers, and a range of modular surface ducting systems. All products are fully detailed in this all new 44 page, A4 size, full colour, product handbook.

**ACO** have addressed many issues in this new technical handbook to assist specifiers and installers to choose



## ***ELECTRICAL PIT GUIDE NOW AVAILABLE***

correct pit and cover combinations to ensure a long trouble free working life. The new handbook addresses issues such as cover loadings and the effect of vehicular traffic, ways of securing the cover into the pit, water tightness of the pit and cover combi-

nation, pit dividers, marking of covers and aesthetic considerations to ensure that pit and cover combinations blend into the surrounding environment.

The **ACO CABLEMATE** handbook deals with correct installation details, dependent on pavement areas or loading, and gives advice on where rigid pits should be used in comparison to flexible pits.

The new handbook gives many illustrations and photographs of pit and duct uses which will help specifiers and installers select the

right product. Each product is fully illustrated with all cover options available.

***Many issues have been addressed to help engineers and installers choose the right pit and cover combination.***

The new **ACO CABLEMATE** handbook provides specifiers and installers with the most comprehensive guide available to Australian made cable jointing pits and ducting systems.



## FULL RANGE OF SURFACE DUCTING ADDED TO CABLEMATE RANGE

As part of **ACO**'s new upgraded **ACO CABLEMATE** range a complete system of surface ducting has been introduced. For a number of years **ACO** have supplied modular surface drainage systems fitted with solid covers to provide continuous surface ducting.

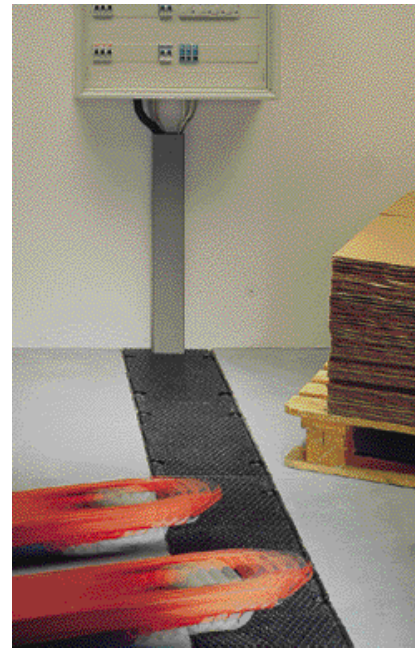
Modular surface ducting is used in many applications such as power stations, industrial sites, exhibition halls, railway yards, sports stadiums and telecommunications centres. Surface ducting is used in areas where continuous access to services are required - typically oil lines, compressed air, communications or power. By being able to remove all of the covers the services can be installed, removed, or connected to with little effort.



All **ACO CABLEMATE** systems are easily-handled one metre units in a variety of different widths and depths. Each unit is manufactured with a male and female joint to aid alignment during installation. The excellent di-electric properties of Polymer Concrete makes it ideal for products where insulation can be important such as ducting. Covers are available in Polymer Concrete,

### *Surface Ducting systems to suit any loading application*

mild steel or ductile iron to suit every application. The mild steel and ductile iron covers can be secured to the ducting bodies to prevent unauthorised entry. The **ACO CABLEMATE** ducting systems can be integrated with the Polymer Concrete pits to provide jointing boxes or change of direction points - ie large radii of cables, etc.



The **ACO CABLEMATE** ducting system is comprised of:-

**CD system** - a light duty Polymer Concrete duct and cover system available in three widths

**CK system** - a general purpose 100mm wide system in a variety of depths with lockable galvanised steel or cast iron covers.

**CS system** - a heavy duty system capable of withstanding up to 90 tonnes, complete with locked down ductile iron cover. available in three different depths and heights.

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## MELBOURNE TRAMSTOP DRAINAGE

At the prestigious Beacon Cove residential development in Melbourne, Victoria, the designers needed to drain the area behind the tram stop shelter with an aesthetic, pedestrian safe drainage system. The slope of the pavement took the water down under the glass wall of the tramstop to a line of pre-sloped **ACODRAIN KS100S** with stainless steel 'Heelguard' S gratings. Due to the sea front location of Beacon Cove the integrally cast stainless steel rail of the K channel and the stainless steel grating combined with the Polymer Concrete body of the channel gives resistance to saline corrosion.





## HOMEDRAIN 'PLUS' 100 AT NEWINGTON

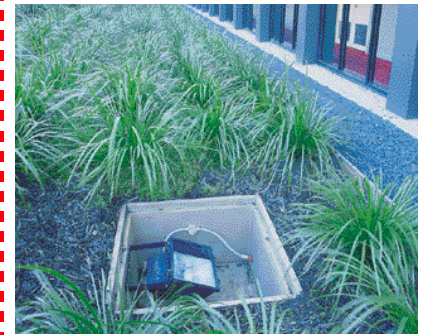
Sydney's newest suburb is taking advantage of the best domestic line drainage on the market. The **ACO HOME** range of products gives the designers of today's domestic properties a full range of line drainage and sumps to solve all problems. The new suburb of Newington is located next to the Homebush 2000 games site and will house a number of athletes and officials at next year's games. To

intercept water in front of garages Homedrain 'plus' 100 Polymer Concrete channel, complete with galvanised slotted grating, was used. The Homedrain 'plus' 100 product easily withstands the loading of cars and produces a neat aesthetic solution. The ease of installation of Homedrain 'plus' 100 in brick paved areas, as well as concrete or bitumen pavements, makes it the most versatile domestic line drainage available.

## CABLEMATE PITS USED FOR FLOOD LIGHTING

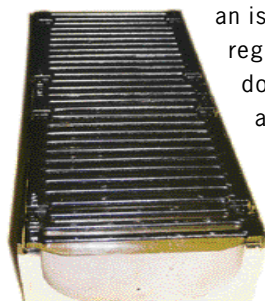
ACO recently supplied 10 Type 99 Polymer Concrete electrical pits to house the flood lights used to illuminate the outside of the latest building at Deakin University, Burwood, Melbourne.

The rigid smooth walled Polymer Concrete pit was the perfect enclosure for the lighting due to the electrician needing a strong, secure surface to mount the light fitting bracket to. The electrician was easily able to drill holes in the pit side wall and bolt the bracket on.



## SHALLOW S300 SOLVES RETAIL SUPERSTORE DRAINAGE

During the construction of the new Westfield shopping complex at Chermside in North Brisbane, leading hydraulic engineers Thomson Kane were faced with the problem of draining the upper deck of the multi storey car park. Thomson Kane's original concept called up a series of 600 x 600 mm shallow, point gullies set together to form a continuous line of drainage to intercept rainwater. Thomson Kane were familiar with the ACO DRAIN range of line drainage and asked ACO if there was a channel and grate system which would give a more cost



effective and aesthetic solution without compromising the integrity of the structural slab which was approximately 450 mm deep. The critical elements that Thomson Kane had to address were to have a grating which would give them the required water intake and be shallow enough not to affect the slab strength - on this occasion the channel capacity was not an issue because of the regularity of the rainwater downpipes which were attached to the supporting pillars of the car park. For many years ACO have manufactured a number of shallow ACO DRAIN products for

similar applications. By using a 170 mm deep shallow S300 product ACO

**Strong, easily installed  
Polymer Concrete slab  
channel drainage**

were able to supply 240 metres of the ideal product. The fully secured 90 tonne load rated grating was comfortably able to cope with the grating intake required. By using their Grating Intake Calculation (GIC) computer programme ACO were able to determine that under the hydraulic conditions set out by Thomson Kane the S300 gratings intake capacity would be working at 33% of its capacity.

# ACO WORLDWIDE - STEALTH DRAINAGE !



ACO has for many years been the foremost choice of engineers to drain Military establishments worldwide. One of the highest profile uses of 100mm wide **ACODRAIN** is the hangers built to house the F-117 stealth fighters of

the USAAF. Due to the maintenance and fueling being carried out inside the hanger a complete bund of **ACODRAIN** was installed around the plane. The ability of the heavy duty **ACODRAIN** systems, capable of withstanding up to 90 tonne loading,

proved the ideal solution to cope with both the substantial loads the drain would see and the highly aggressive mediums that the drain would catch, such as aviation fuel, oil, hydraulic fluid and cleaning agents.

## POLYMER CONCRETE PIT WEARING EDGE

During the design stage of the upgrading of Military airfields across northern Australia, the Communications engineers required a pit which would be capable of withstanding a jet fighter coming off the runway and going over the pit. It was critical that the pit should withstand this potential loading

and, as the acknowledged leader in electrical pits, **ACO** were asked to develop a solution. A special heavy duty lockable cover was produced along with a unique wearing edge which would both protect the pit edge and help spread the impact of a jet fighter into the surrounding concrete haunch.



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