

# Marshalls

## News

Published for stockists, specifiers and users of precast concrete products

AUTUMN  
WINTER '84



## It's new – it must be Marshalls

IN LESS than a year Marshalls Mono has introduced nine new or improved products – and there are still more waiting in the wings to make their debuts. In this issue alone, new products covered are the Reflexit Kerb, Brindle block paving, additions to the Strada street furniture range and Saxon hexagonal pavings.

These and other product developments spell out choice for the users of precast concrete products. For stockists they also emphasise that Marshalls Mono offers by far the industry's largest range under one roof – with all the ordering and delivery advantages which that entails.

With more spectacular announcements still to come and continuous manufacturing improvements being made, it all adds up to a commitment to staying ahead of the field. To keep you abreast of latest developments there is a whole range of sales literature and product information available. Details of publications which have been issued within the last five months, are given inside this issue. Copies are freely available from Sales Offices and representatives.

## It's got colour, it's got character



NEW  
PRODUCT  
'84

## – it's new, it's Brindle

WITH THE introduction of "Brindle" block paving there is a new and extremely attractive colour option in the Keyblok range of block paving available from Marshalls Mono. Brindle has something of the appearance of burnt brick but combines this

## NEW BLOCK PAVING PLANT FOR TEESSIDE

TO MEET growing demand for its concrete block paving, Marshalls Mono has begun full-scale production from a new block-paving plant at its Stockton factory. The new plant has been planned to serve users in North Yorkshire, Teesside and Tyne-side. Another new plant will shortly be commissioned in Lancashire to cover the North West area.

Along with existing plants in Bedfordshire, East Midlands, South Yorkshire and Central Scotland, Marshalls Mono now has regional plants which are ideally placed within the major population centres. By spreading productive capacity throughout the U.K. and by operating regional sales offices, the company is able to provide the benefits involved in localised delivery and service.

Like the existing plants, the new Stockton facility is equipped with the latest type of production equipment. Block paving is being produced by a single layer technique which makes use of high and low frequency vibration. For dimensional control and a very durable product, low water to high cement ratios are being employed.

attractively coloured finish with the superior wearing qualities of concrete block paving.

Colours of Brindle blocks vary from one block to another. One may be predominantly charcoal, blue or deep red while the next may have a mixture of these colours. While the overall effect is aesthetically pleasing, the dappled surface of areas laid with Brindle blocks also has the added advantage of camouflaging minor stains and spillages.

## BLOCK PAVING MEETS THE ULTIMATE CHALLENGER

OVER SIXTY TONS of "Challenger" battle tank turning in its tracks was Marshalls' idea of putting Concrete Block Paving to the ultimate test. Under its front-line attack was an area of 80mm thick concrete block paving. The blocks were laid on 50mm of sand over a hardcore base contained within a reinforced concrete ring beam.

To spin the tank round over the blocks a particularly punishing method was adopted. To turn through 360° only one track was driven in forward gear by the Challenger's 1200 horsepower Rolls-Royce engine, while the opposite track was driven in reverse.

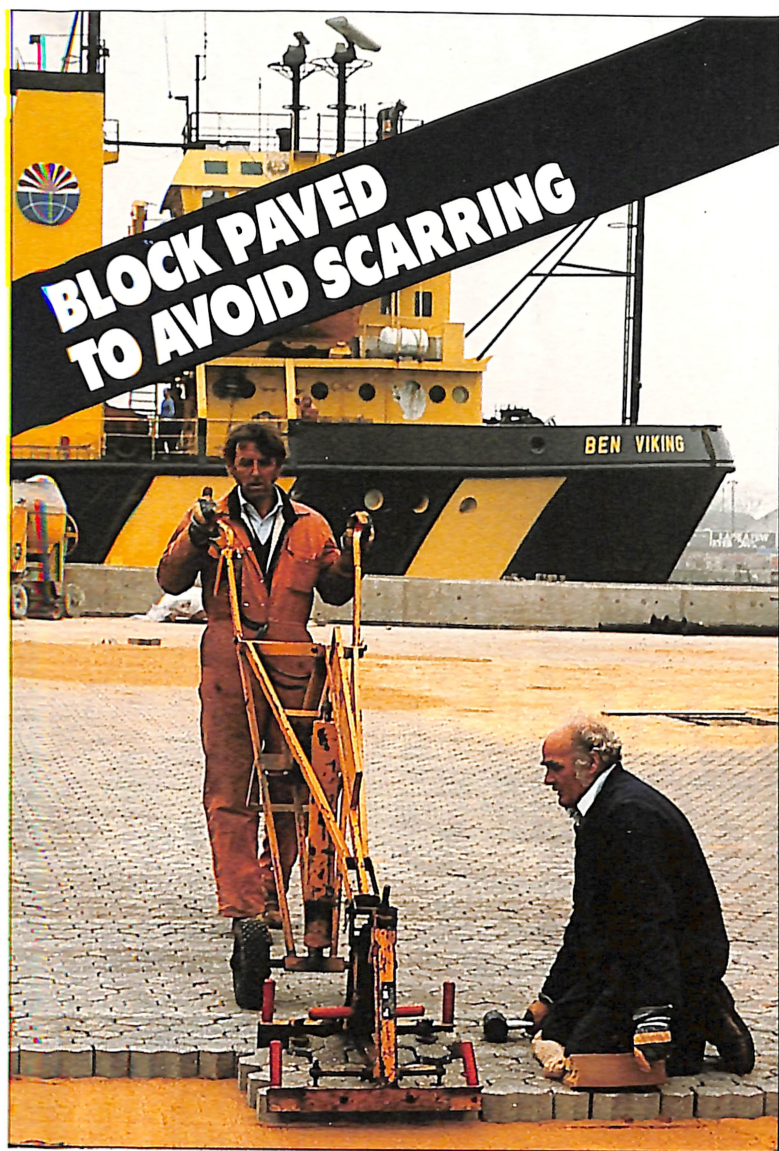
This manoeuvre is enough to grind other surfacings into the ground – and does – but the block paving was unscathed. The test was repeated again and again, with the Challenger, Britain's new main battle tank, showing off its agility and lightning speed of manoeuvre. The blocks were unyielding under the onslaught.

There was no special preparation for the 200 square metre test area – in fact it was a case of putting rifles into cooks' hands and sending them into battle. A youth and three middle-aged men, who are accustomed to pushing nothing heavier than pens, took on the different role of pushing wheelbarrows, screeding sand and laying blocks. They completed the work in three days.

The test involved half the area being laid with Eskoo-Six shaped blocks and the other half with rectangular blocks in herringbone pattern. Both performed with equal brilliance, without any sign of broken blocks or deformation of the surface.







WITH INCREASING North Sea supply-vessel work the Great Yarmouth Port & Haven Commissioners have taken the bold step of commissioning what is believed to be the first tailor-made terminal for supply vessels in the UK.

Partly because of its ease of reinstatement after excavation work, concrete block paving has been used to surface the quayside of the terminal. The first phase of the development at Great Yarmouth used 3,500 square metres of Marshalls Eskoo Six machine-laid block paving and a further 2,500 square metres of Eskoo Six was used for the next phase.

Service ducting from bunkerage silos lies under the new quay so, for maintenance reasons, and the possibility of other service ducts and bulk silo foundations being required at a future date, block paving was specified. Arthur Symonds, Port Engineer for the Great Yarmouth Port & Haven Commissioners says, "We

wanted to avoid any scarring of the area by any future excavation works for service ducting, foundations or indentation from heavy loads." With block paving any part of the surface can be lifted without damage to give access and can be reinstated afterwards.

The suitability of the Eskoo Six block paving system for heavy-duty use and its machine-laid capability led to its adoption at Yarmouth. With machine laying, a formation of blocks can be placed in each single laying operation.

Since mid-summer the formation size has been increased to 16 (from 12) to cover an area of 0.45 square metres.

IN THE interests of night-time road safety, Marshalls Mono Limited is manufacturing concrete kerbs which contain built-in reflectors. These new "Reflexit" kerbs are of particular value in highlighting bends, roundabouts and other hazards — and not necessarily on highway projects alone. Car parks and covered loading ways are also likely to benefit.

The reflectors incorporated in the kerbs are of the retro-reflective type which are up to four times more brilliant than glass bead alternatives. They have 47,000 cube corner prisms per square inch. White, red and yellow strips can be used in Reflexit kerbs.

A 100 x 25mm reflector is moulded into each Reflexit kerb, in a recessed position to provide protection against damage from tyres. With its very smooth surface the material stays clean and even when wet there is little if any loss in reflectivity. Once Reflexit has been installed no maintenance is required.

Reflexit kerb may be laid as a continuous kerb run or alternated with conventional kerb. Alternating one Reflexit to two conventional kerbs, then one to one and finally a continuous run of Reflexit can be an effective way of marking out the approach to particular hazards. In this sequence it can also act as a speed retarder.

Marshalls Mono has sole manufacturing rights to this low cost device, which is the brainchild of Coventry inventor, Bernard Keogh. Stocks of the new kerb in BS section, Fig. 7, are already held at Marshalls production plants throughout the UK while quadrants and radius kerbs down to 4.5m are available to order in BS 340 profiles, Figs. 5 and 7.

This increase has provided a laying rate increase of some 15-20%. At Yarmouth the contractor for the design and construction of the Terminal, May Gurney & Co. Ltd. of Norwich, laid the Eskoo Six on a 50mm laying course of sand over a 100mm base of lean mix concrete.

Yarmouth decided on the tailor-made approach for the new terminal after studying other facilities and the needs of operators. In the last decade harbour facilities along Britain's East Coast have taken new life from North Sea oil and gas development but inevitably with supply vessels having to make do with equipment designed for other purposes or, at best, using converted facilities.

The Fishwharf redevelopment incorporates purpose-built fuel, drilling, mud, brine and water bunkerage required for supply work but with underground service ducting so that a large clear area of quayside is also available for loading the drilling equipment and large fabrications which are such a feature of supply work. The new berth is functional, efficient and free of the potential hazards associated with older and often overcrowded quays.

## HONG KONG OPTS FOR BRITISH FLAG

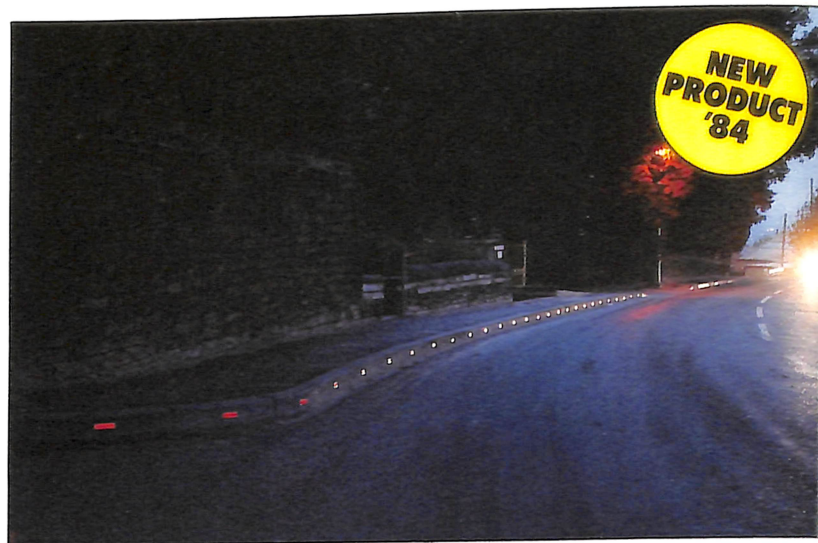
BRITISH Flags are to be trodden underfoot in Hong Kong, thanks to the enterprise of Marshalls in winning a major order for 5,000 of its specially developed "Trafica" paving flags.

The order is highly unusual because of the costs involved in transporting the heavy finished products. But Marshalls' Trafica Flags are unique

enough to justify shipping 170 tons of them halfway round the world. Paving flags, particularly those able to cope with vehicle overrun, are not available in Hong Kong.

Trafica Flags have a smaller plan size and increased thickness, compared with standard flags for pedestrian use. The 450mm square and 70mm thick flags are hydraulically pressed, using York Stone aggregate. For the Hong Kong order the buff-coloured flags have Marshalls' attractively textured and non-slip Saxon finish.

## YOUR SAFETY — REFLEXIT PROTECTS IT



## OUR FIRST ELEVEN AT THE OVAL

SURREY and England spin-bowler, Pat Pocock, looked suitably bowled over with two of the eleven bollards, from the Marshalls Mono Westminster range, which have been installed at the Oval. He had taken a break from play to inspect the bollards and to be photographed with the first eleven that he has been unable to get out. The bollards have been installed by Situsec Contractors Limited around the Surrey Tavern and the Jack Hobbs Gate at the Surrey County Ground as a traffic control measure.

The Coronet bollards, along with the Edward and Regent designs in the



Westminster range are particularly suitable for use on conservation schemes and where elegant design is required. They are produced in a special matt black finish, with the strappings highlighted in gold. The Coronet bollards used at the Oval have an installed height of 1205mm.

## BLOCKS ARE CHILD'S PLAY



BLOCK paving was child's play for four Sussex schoolchildren who came top in a mosaic design competition. Six of the children's designs have since been immortalised in various colours of Marshalls Mono block paving as part of a £150,000 improvement scheme along the sea-front Arun Parade at Littlehampton.

As the panels containing the mosaics neared completion, Mark Gillet (10), Lisa Callow (9), Tracey Fulcher (8) and Keston Jones (10), from the Connaught County Junior School, were called in to lay the last blocks for each of their winning designs.

The Competition, organised by Arun Council's tourist office, was open to the children's 500 school-mates who had to submit designs on a marine theme. The winning designs were two yachts, an anchor, a crab, a fish and a radiant sun face.

For their efforts the children received prizes which were entirely in keeping — free dips at the local swimming pool.

## BOOKSHELF

SINCE the last issue of Marshalls News the fifteen new publications illustrated here have been issued by Marshalls Mono. They are available to you immediately

### WALLING

Marshallite  
Tudor  
Cromwell  
Glenstone  
Superscreen

### PAVING FLAGS

Standard  
Old York  
Pennine  
Saxon  
Perfecta  
Trafica  
Metric 4 Square  
Charnwood  
Pastel  
Deterrent

### BLOCK PAVING

Monolok  
Rustikal  
Keyblok  
Eskoo-Six

### ENVIRONMENTAL

Tree Grilles  
Erosion Control Products  
Ditchliners

### STREET FURNITURE

Boulevard Range  
Strada Range  
Bollards  
Seating Range  
Cycle Blocks

### Playscape

Plant containers  
(A range of designs finished in concrete and GRC)

### KERB & DRAINAGE PRODUCTS

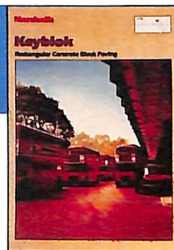
Standard Kerbs  
Keykerb  
Beany Block  
(Combined kerb and drainage system)  
Interlocking traffic blocks  
Reflexit Kerb  
Verge Markers  
Porcupipe  
Inspection Chambers  
Segmental Soakaways

**Eskoo Six** Well illustrated and very comprehensive coverage of the applications, laying method and benefits of machine-laid block paving. The new 16-stone formation of Eskoo Six is described.



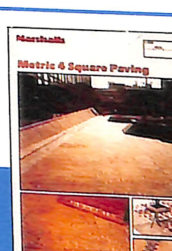
**Old York** Details of Old York paving size, colour and method of laying.

**Keyblok** Includes full details of Britain's most widely used block type, along with the laying method, sales offices and packaging/delivery details. A wide range of installation pictures included.



**Plantainer** This exciting modular system of lightweight planters, seats and litterbins for outdoor or indoor landscaping is covered fully.

**Trafica** Full details of Trafica small element paving, with applications outlined. Paving construction and laying guides included.



**Metric 4 Square** This design-award range of paving, cycle blocks, channel units, tree-grilles and planting kerbs is described in full.

**Block paving folder** A new folder containing a wide range of application pictures and outline details of five concrete block paving systems currently available from Marshalls Mono.

**Concrete Block Paving**

**Keykerb** Giving full details of the components and applications of this versatile new small unit kerb system.





# WARWICK'S ANCIENT CENTRE HAS A MARSHALLS FACELIFT



THE HISTORIC market place and adjoining areas in the centre of Warwick have benefitted from a facelift involving 5,000 square metres of Marshalls Mono paving. The enhancement scheme, carried out by Warwick District Council, happily combines functional and decorative qualities in a way that is entirely in keeping with this attractive old town.

The environmental aspect of the work at Warwick led the District Council planners and engineers to go for an imaginative as well as a functional scheme. They have used Marshalls' concrete block paving and Trafica V70 flags widely and with much design originality.

The complexity of the Warwick scheme and its design features obviously struck a sympathetic chord with the contractor, Paul Whiting Limited, and it shows in the finished work.

Some 150,000 blocks have been used to surface the parking and market area of the square. They have also been used to great effect to frame areas of flags in the pedestrian areas and to form drainage channels, dropped crossings and details around planting bays. Contrasting colours of blocks have been used for decorative effect throughout the scheme.

The flagged pavement areas around the square and along the pedestrianised Market Place (pictured here) have been paved with Marshalls' Trafica V70 flags in Perfecta smooth-ground surface finish. Trafica flags have been used exclusively on the Warwick enhancement scheme because, markets being what they are, pavements will inevitably be overrun by market traders' vehicles. Using Trafica also means that vehicles can overrun the pedestrianised Market Place to make deliveries to shops.



## Flag event laid them in the aisles

Marshalls flag laying was a novel spectacle to coincide with the annual conference of the British Association

of Landscape Industries (BALI) at the Liverpool Garden Festival. The "Landscape Pentathlon"



organised by BALI featured an event which involved laying Marshalls' Saxon pavings. Other events included building a wall, erecting a swing, a wheelbarrow obstacle course and planting a number of shrubs. To add to the spectacle and differentiate between the lanes of competitors the Saxon pavings were in natural, buff and red colours.

Fifteen two-man teams competed for honours, with three heats to decide a final which pitted top landscaping teams from all over Britain. In the event Barton Grange Landscapes from Preston came out on top after a close-run one-hour final. As they say "To the victor goes the spoils" — but in modified form. The Saxon flags were awarded by Marshalls to the winning team. Even after a day of laying and re-laying them Barton Grange were delighted to carry them away.

## NEWS ROUND-UP

### OF CHIPS AND BLOCKS

MARSHALLS MONO has secured an order for over 8000 square metres of Keyblok block paving for exterior landscaping to the Halifax Building Society's new computer centre in Normanton.

### ANOTHER KING-SIZE ORDER

KEYBLOK is also being used by Carreras Rothman at its Spennymoor plant to reinstate existing in-situ concrete roads and car parking.

### ...BEFORE WE WERE SO RUDELY INTERRUPTED

STONE FROM MARSHALLS' Halifax quarries is being exported to West Germany again after a break of exactly 70 years. The last consignment was delivered in 1914!

### ALL-STAR CAST AT STRATFORD-UPON-AVON

SAXON AND PERFECTA paving, Keyblok and Monolok block paving and Boulevard street furniture all play a part in making the NFU Mutual & Avon Insurance Group's new headquarters an outstanding production. To coin a phrase "All the World's a stage and we are merely layers."

### GUEST MINISTER

THE SECRETARY of State for the Environment, the Rt. Hon. Patrick Jenkin, turned a blind eye to the red pullovers of Marshalls' sales staff at a recent exhibition and surprised them by being very knowledgeable about Marshalls and Marshalite. He was also very interested in block paving and the fact that it is laid dry — well you don't get to be a Minister these days by any hint of wetness!

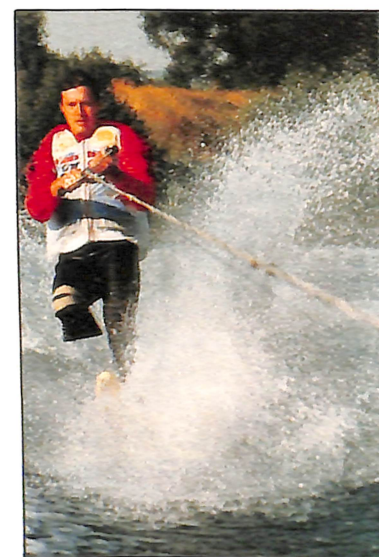


## Steve went for gold — and came back with it!

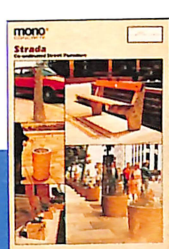
A LIMBLESS Halifax man's ambition to represent Britain at an International Disabled Water Skiing Tournament was helped by Marshalls Mono Limited. Following a last minute appeal, the concrete products company stepped in to provide financial support for 27 year old Steve Butterworth to travel to Oslo for the event. In return Steve came back with two gold medals in the slalom and trick events — the most difficult in the competition.

Steve represented Britain, as part of a six-strong team which included water skiers who are blind, partially paralysed or, like himself, amputees. Similarly handicapped sportsmen from 15 other nations were also competing.

Steve's right leg was amputated just below the knee after a speedway racing crash which shattered his leg. He has overcome the disability to play football and hockey and to take part in at least three other sports but he says that only water skiing gives him the sort of excitement and exhilaration he found in speedway riding.



Seating Covers the wide range of seating units which are available from Marshalls Mono for landscape applications.



Strada Includes three items — new this year — which have been added to the Strada range of street furniture.

Rustikal Concrete block paving at its most attractive is fully described, along with excellent application photographs.



Monolok Product details, laying method and a range of application photographs on the Monolok system of shaped blocks for paving.

Beany Block With an increasing number of installations there is much more detail and more application pictures on this revolutionary product.

NEW BEANY BLOCK LEAFLET

Very informative guidance on estimating, scheduling, specification and bills of quantities.





MARSHALLS MONO has widened its paving range to now include a coarse-textured Saxon finish to its hexagonal pavings. Previously Marshalls hexagonal pavings were available solely with the smooth-ground Perfecta finish.

Like the Perfecta versions the new Saxon pavings are in a choice of natural, red or buff colours and in a 38mm thickness. Hexagonal pavings are in a 400mm size (measured across the flats) and there are also half slabs (either 4 or 5 sided) to help with edge fitting.

The Saxon surface finish gives the paving a pleasing gritstone texture with excellent non-slip properties.

## Saxon finish now for Hexagonals

## Strada — we're giving even more of a good thing

THREE NEW items have been added to the Strada range of street furniture. There are new triangular-shaped designs for a planter, a litterbin and a bench seat.

The new units considerably widen the design choice of the range which already has a seat and square or circular planters and litterbins. Like the existing range the new items are available with attractive exposed aggregate finishes — either in a standard grey matrix or to order with a white matrix.

A triangular box section is used for the low units while the addition of slot-in top section rings creates units of varying heights. The bench seat is completed with a slatted-wood top and the litterbin by the addition of a tough polyethylene top edging.

With now more than a dozen different but co-ordinated items and two surface finishes to choose from, the Strada street furniture range offers a wealth of choice for the landscape architect. At the same time Marshalls Mono has deliberately standardised sizes and finishes. This allows for ease and speed of manufacture, to retain the low-cost advantage of the Strada range.

NEW  
PRODUCT  
'84



NEW  
PRODUCT  
'84



NEW  
PRODUCT  
'84



New triangular planters (top), seats (centre) and litterbins (bottom) are now available in the Strada Range. By the use of slot in top section rings, units of varying heights can be created.

## FOR BRITISH RAIL "IT'S BETTER BY DRAIN"

CONCRETE surface water drainage units have been used in an innovative way around a newly-completed building, designed and constructed for British Rail by Sir Robert McAlpine & Sons Ltd. Drainage units, made by Marshalls Mono, have been used around the building's base to collect rainwater from the roof and walls.



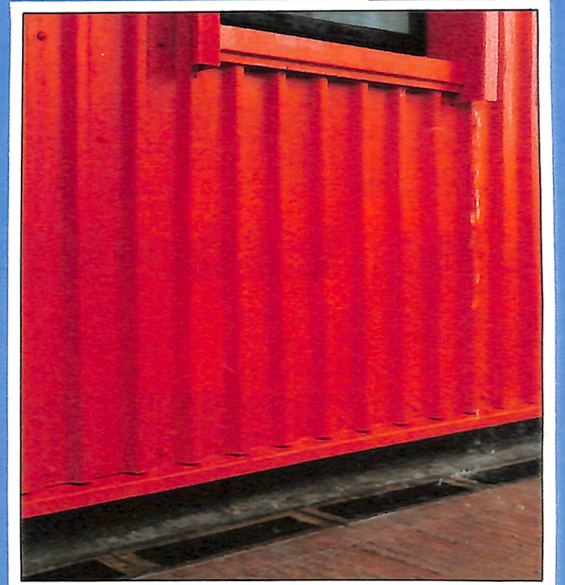
The new building, in Crewe, is a relay room and temporary operating centre which will play a key role during a £17 million permanent way and building reconstruction project in the area. To ensure speedy completion of the important interior works, McAlpine devised a system of building which allowed work to proceed under cover from an early stage in the construction.

At the outset McAlpine erected the building's steel frame and clad it with plastic-coated metal panels which have been developed in conjunction with Ruberoid Contracts Limited. Then working under cover, the company was able to power-float the interior concrete slab in one operation. At an early stage the interior was free for the installation of equipment — before the exterior works had been completed. Using this method the building has been completed in record time.

With the building's curved eaves construction and absence of rainwater goods, allowance was made for a channel to be incorporated at ground level to carry rainwater away. As the cladding it was important that the work did not involve in-situ concrete which could result in splash staining to the high quality exterior finish.

McAlpine's Contracts Manager on site, Norman Manington, says that a number of drainage systems were considered before selecting Marshalls Mono units. He reports that rodding units from the Porcupipe Preform range were specified for the purpose. These were selected rather than standard Porcupipe Preform units, as the grate covers of the rodding units allow maximum apertures for water collection. A number of very violent thunderstorms since the units were installed, have provided proof that the system is completely effective.

Rodding units have been installed around all four sides of the 42 x 14 metre building. They have been laid on a 1" mortar bed over 3" of lean mix concrete. There is a complete run to three sides and another run between two cable pits along one wall. Seven silt traps are incorporated at intervals around the building, each linked with a 150mm storm drain.



Because of the curved eaves construction (top), surface water drainage units around the building's base (centre) are required to carry rainwater away. The grate covers allow maximum apertures for water collection (below).

**Marshalls**  
**Mono**

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