

THE ARCHITECTS' JOURNAL



standard contents

every issue does not necessarily contain all these contents, but they are the regular features which continually recur

NEWS and COMMENT

Astragal's Notes and Topics

Letters

News

Diary

Criticism

TECHNICAL SECTION

Information Sheets

Information Centre

Current Technique

Working Details

Questions and Answers

Prices

The Industry

CURRENT BUILDING

Major Buildings described:

Details of Planning, Construction,

Finishes and Costs

Buildings in the News

Building Costs Analysed

Architectural Appointments

Wanted and Vacant

No. 3449]

[Vol. 133

THE ARCHITECTURAL PRESS

9, 11 and 13, Queen Anne's Gate, Westminster, S.W.1. Telephone: Whitehall 0611

Price 1s. 0d.

Registered as a Newspaper.

★A glossary of abbreviations of Government Departments and Societies and Committees of all kinds, together with their addresses and telephone numbers. The glossary is published in two parts—A to Ii one week, II to Z the next. In all cases where the town is not mentioned the word LONDON is implicit in the address.

ILA	Institute of Landscape Architects.	1, Park Crescent, W.1.	Museum 3473
I of Arb	Institute of Arbitrators.	Hastings House, 10, Norfolk Street, W.C.2.	Temple Bar 4071
IOB	Institute of Builders.	48, Bedford Square, W.C.1.	Museum 7197
IQS	Institute of Quantity Surveyors.	98, Gloucester Place, W.1.	Welbeck 1859
IR	Institute of Refrigeration.	Dalmeny House, Monument Street, E.C.3.	Avenue 6851
IRA	Institute of Registered Architects.	68, Gloucester Place, W.1.	Hunter 1945
ISE	Institution of Structural Engineers.	11, Upper Belgrave Street, S.W.1.	Sloane 7128
JFRO	Joint Fire Research Organisation (DSIR & Fire Offices' Committee).	Fire Research Station, Boreham Wood Herts.	Elstree 1341/1797
LDA	Lead Development Association.	18, Adam Street W.C.2.	Whitehall 4175
LMBA	London Master Builders' Association.	47, Bedford Square, W.C.1.	Museum 3891
MAFF	Ministry of Agriculture, Fisheries and Food.	Whitehall Place, S.W.1.	Trafalgar 7711
MOE	Ministry of Education.	Curzon Street House, W.1.	Hyde Park 7070
MOH	Ministry of Health.	23, Savile Row, W.1.	Regent 8411
MOHLG	Ministry of Housing and Local Government.	Whitehall, S.W.1.	Whitehall 4300
MOLNS	Ministry of Labour and National Service.	8, St. James's Square, S.W.1.	Whitehall 6200
MOS	Ministry of Supply.	Shell-Mex House, W.C.2.	Gerrard 6933
MOT	Ministry of Transport.	Berkeley Square House, W.1.	Mayfair 9494
MOW	Ministry of Works.	Lambeth Bridge House, S.E.1.	Reliance 7611
NAMMC	Natural Asphalt Mine Owners and Manufacturers Council.	14, Howick Place, Victoria Street, S.W.1.	Victoria 1600 & 6477
NAS	National Association of Shopfitters.	2, Caxton Street, S.W.1.	Abbey 4813
NBR	National Buildings Record.	Fielden House, 10, Great College Street, Westminster, S.W.1.	Whitehall 6554
NCBMP	National Council of Building Material Producers.	10, Storey's Gate, S.W.1.	Abbey 5111
NEFMAI	National Employers Federation of the Mastic Asphalt Industry.	21, John Adam Street, Adelphi, W.C.2.	Trafalgar 3927
NFBTE	National Federation of Building Trades Employers.	82, New Cavendish Street, W.1.	Langham 4041/4054
NFBTO	National Federation of Building Trades Operatives.	Federal House, Cedars Road, Clapham, S.W.4.	Macauley 4459
NFHS	National Federation of Housing Societies.	12, Suffolk St., S.W.1.	Whitehall 1631
NHBRC	National House Builders Registration Council.	58, Portland Place, W.1.	Langham 0064/5
NJCBI	National Joint Council for the Building Industry.	11, Weymouth Street, W.1.	Langham 2785
NPL	National Physical Laboratory.	Head Office, Teddington.	Teddington Lock 3222
NRDB	Natural Rubber Development Board.	Market Buildings, Mark Lane, E.C.3.	Mansion House 9383
NSAS	National Smoke Abatement Society.	Palace Chambers, Bridge Street, S.W.1.	Trafalgar 6838
NT	National Trust.	42, Queen Anne's Gate, S.W.1.	Whitehall 0211
PEP	Political and Economic Planning.	16, Queen Anne's Gate, S.W.1.	Whitehall 7245
RCA	Reinforced Concrete Association.	94, Petty France, S.W.1.	Abbey 4504
RIAS	Royal Incorporation of Architects in Scotland.	15, Rutland Square, Edinburgh.	Fountainbridge 7631
RIB	Rural Industries Bureau.	35, Camp Road, S.W.19.	Wimbledon 5101
RIBA	Royal Institute of British Architects.	66, Portland Place, W.1.	Langham 5533
RICS	Royal Institution of Chartered Surveyors.	12, Great George Street, S.W.1.	Whitehall 5322/9245
RFAC	Royal Fine Art Commission.	5, Old Palace Yard, S.W.1.	Whitehall 3935
RS	Royal Society.	Burlington House, Piccadilly, W.1.	Regent 3335
RSA	Royal Society of Arts.	6, John Adam Street, W.C.2.	Trafalgar 2366
RSH	Royal Society of Health.	90, Buckingham Palace Road, S.W.1.	Sloane 5134
SBPM	Society of British Paint Manufacturers.	Grosvenor Gardens House, Grosvenor Gardens, S.W.1.	Victoria 2186
SE	Society of Engineers.	Abbey House, Victoria Street, S.W.1.	Abbey 7244
SFMA	School Furniture Manufacturers' Association.	30, Cornhill, E.C.3.	Mansion House 3921
SIA	Society of Industrial Artists.	7, Woburn Square, W.C.1.	Langham 1984/5
SIA	Structural Insulation Association.	32, Queen Anne Street, W.1.	Langham 7616
SNHTPC	Scottish National Housing.	Town Planning Council.	Hon. Sec., Robert Pollock, Town Clerk, Rutherglen.
SPAB	Society for the Protection of Ancient Buildings.	55, Great Ormond Street, W.C.1.	Holborn 2646
TCPA	Town and Country Planning Association.	28, King Street, Covent Garden, W.C.2.	Temple Bar 5006
TDA	Timber Development Association.	21, College Hill, E.C.4.	City 4771
TPI	Town Planning Institute.	18, Ashley Place, S.W.1.	Victoria 8815
TTF	Timber Trades Federation.	75, Cannon Street, E.C.4.	City 5040
WDC	War Damage Commission.	6, Carlton House Terrace, S.W.1.	Whitehall 4341
ZDA	Zinc Development Association.	34, Berkeley Square, W.1.	Grosvenor 6636

ACME

—FLOORING SPECIALISTS FOR 100 YEARS

IMMOVABLE-ACME HARDWOOD FLOORS

ACMEPAVING FACTORY FLOORS

ACMETYLE SOLID P.V.C. TILES AND SHEET

ACMELYNO LINOLEUM

ACMECORK CORK TILES

ACMETRED RUBBER FLOORING

ACMEPYLE FITTED CARPETS

ACME FLOOR RENOVATION SERVICE

Technical Brochures gladly sent on request.

ACME

**FLOORING & PAVING
CO.(1904) LIMITED**

RIVER ROAD, BARKING, ESSEX. RIPpleway 2771 (P.B.X.)

**You get all these advantages
when you specify**

MANGERS
plastaweld

1. Plastaweld provides a perfect bond for all gypsum plasters.

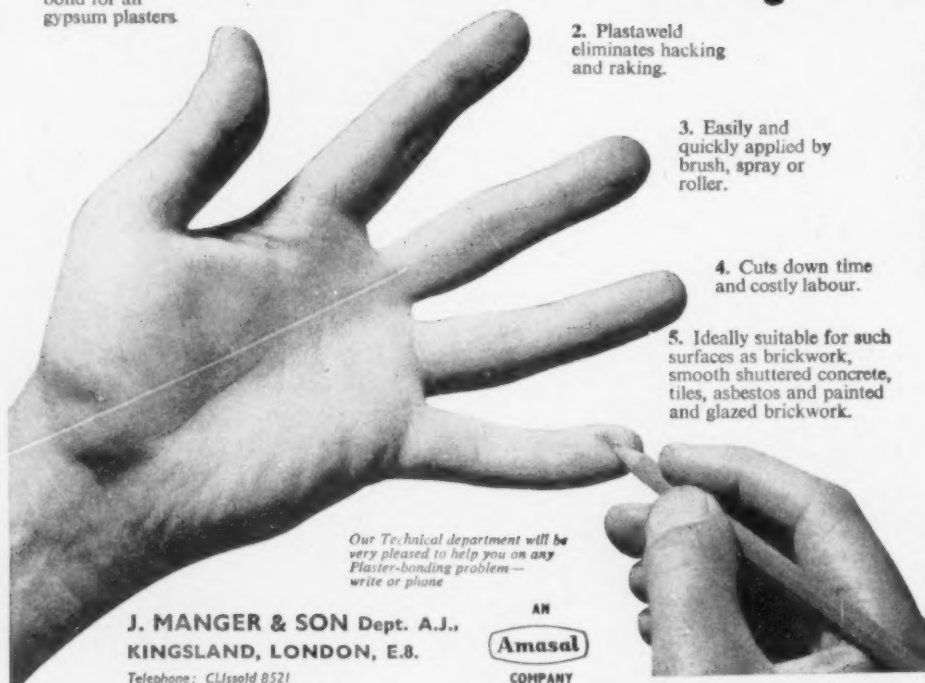
2. Plastaweld eliminates hacking and raking.

3. Easily and quickly applied by brush, spray or roller.

4. Cuts down time and costly labour.

5. Ideally suitable for such surfaces as brickwork, smooth shuttered concrete, tiles, asbestos and painted and glazed brickwork.

It's sound, good planning to specify Plastaweld. Not only does it ensure a perfect bond for all gypsum plasters, it also eliminates the need for hacking and raking—and consequently saves hours and hours of costly labour. A one-gallon tin of Plastaweld will ensure up to a hundred square yards of perfect plastering—how's that for economy? Plastaweld is a proved material, manufactured under conditions of strict analytical control and widely used on large contracts for Hospitals, Government departments, Local Authorities and Building and Plastering contractors all over the world.



Our Technical department will be very pleased to help you on any Plaster-bonding problem—write or phone

**J. MANGER & SON Dept. A.J.,
KINGSLAND, LONDON, E.8.**

Telephone: CLIssold 8521





Problem:

CONDENSATION

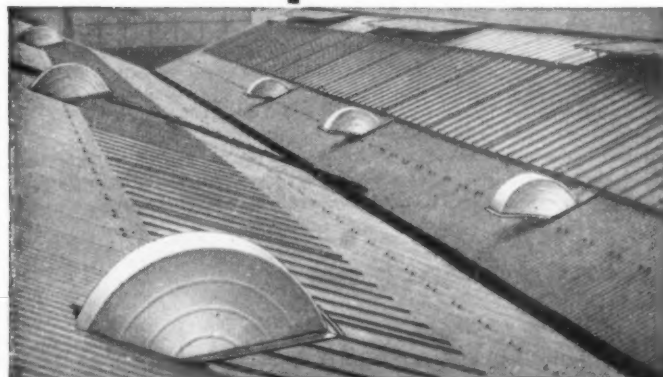
Solution:



Ventilation

Place:

JOHN BULL RUBBER CO LTD
GRIMSBY



The pressing of rubber mouldings at the large factory of the John Bull Rubber Co. Ltd. was raising humidity and causing condensation under certain climatic conditions. At these times sections of the structure and floor were covered with moisture and the working conditions were unpleasant.

Colt were called in and after a survey recommended the installation of Inflow Units and SRC 2046 ventilators. There is no condensation problem now at the factory, and Colt have added another success to a fine record. It is a record which has brought repeat orders from many world-famous concerns. Ask your Secretary to send for a free Manual to Dept. 39.

COLT VENTILATION LIMITED SURBITON SURREY Telephone: Elmbridge 0161



ACME

—FLOORING SPECIALISTS FOR 100 YEARS

IMMOVABLE-ACME HARDWOOD FLOORS

ACMEPAVING FACTORY FLOORS

ACMETYLE SOLID P.V.C. TILES AND SHEET

ACMELYNO LINOLEUM

ACMECORK CORK TILES

ACMETRED RUBBER FLOORING

ACMEPYLE FITTED CARPETS

ACME FLOOR RENOVATION SERVICE

Technical Brochures gladly sent on request.

ACME

**FLOORING & PAVING
CO.(1904) LIMITED**

RIVER ROAD, BARKING, ESSEX. RlPpleway 2771 (P.B.X.)

**You get all these advantages
when you specify**

MANGERS
plastaweld

1. Plastaweld provides a perfect bond for all gypsum plasters.

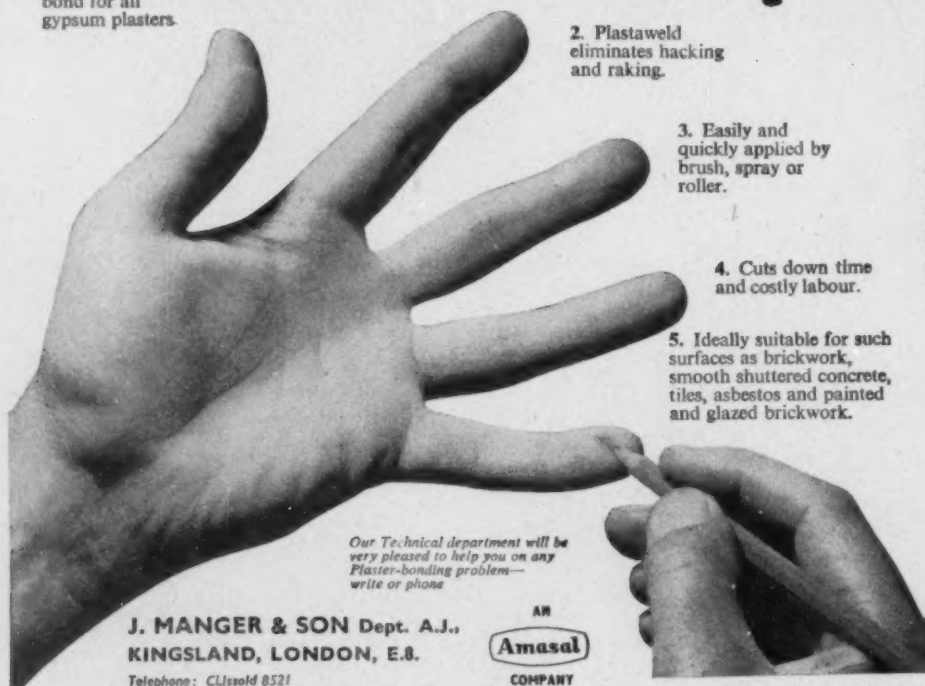
2. Plastaweld eliminates hacking and raking.

3. Easily and quickly applied by brush, spray or roller.

4. Cuts down time and costly labour.

5. Ideally suitable for such surfaces as brickwork, smooth shuttered concrete, tiles, asbestos and painted and glazed brickwork.

It's sound, good planning to specify Plastaweld. Not only does it ensure a perfect bond for all gypsum plasters, it also eliminates the need for hacking and raking—and consequently saves hours and hours of costly labour. A one-gallon tin of Plastaweld will ensure up to a hundred square yards of perfect plastering—how's that for economy? Plastaweld is a proved material, manufactured under conditions of strict analytical control and widely used on large contracts for Hospitals, Local Government departments, Local Authorities and Building and Plastering contractors all over the world.



Our Technical department will be very pleased to help you on any Plaster-bonding problem—write or phone

**J. MANGER & SON Dept. A.J.,
KINGSLAND, LONDON, E.8.**

Telephone: CLIssold 8521

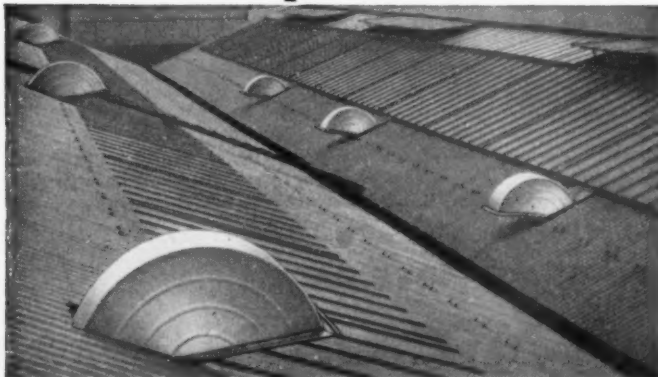




Problem: **CONDENSATION**

Solution: **COLT** Ventilation

Place: **JOHN BULL RUBBER CO LTD
GRIMSBY**

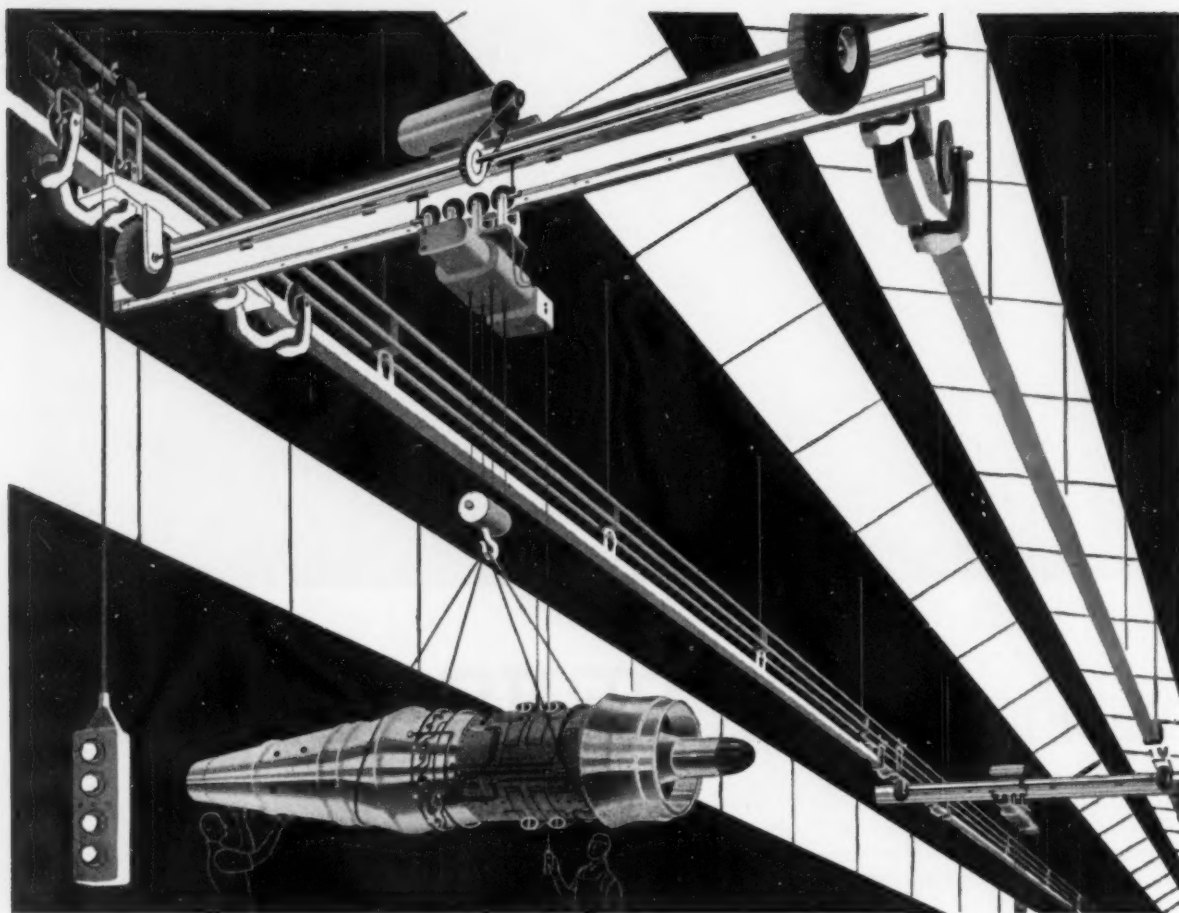


The pressing of rubber mouldings at the large factory of the John Bull Rubber Co. Ltd. was raising humidity and causing condensation under certain climatic conditions. At these times sections of the structure and floor were covered with moisture and the working conditions were unpleasant.

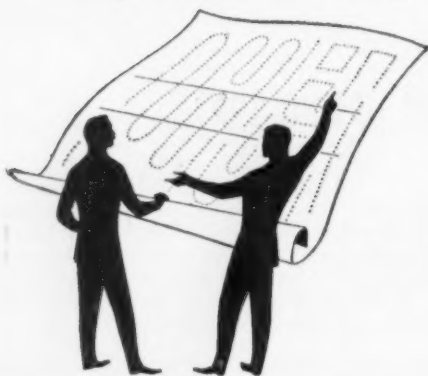
Colt were called in and after a survey recommended the installation of Inflow Units and SRC 2046 ventilators. There is no condensation problem now at the factory, and Colt have added another success to a fine record. It is a record which has brought repeat orders from many world-famous concerns. Ask your Secretary to send for a free Manual to Dept. 39.

COLT VENTILATION LIMITED SURBITON SURREY Telephone: Elmbridge 0161





Industry's new motorways speed heavy loads OVERHEAD



After a survey of your plant, we produce a tailor-made plan. This and the estimate are free.

Loads up to ten tons can be transferred smoothly across the factory with Underslung Bridge cranes specially developed by British MonoRail. With spans up to 200 feet they will straddle wide bays. The underslung principle permits interlocking between parallel cranes, and the transfer of loads from one bridge to another. When the cranes are installed as part of a complete MonoRail system, the load can be transferred beyond the crane area to any part of the factory.

More advantages of MonoRail Underslung Cranes. Economical in headroom. Low in deadweight. All materials specially rolled, forged or cast for the job. Rubber-tyred crane drive eliminates track wear. Track of standard flange width and specifically designed for this purpose. Local, remote or automatic control optional.

A complete Overhead System. Underslung cranes are just part of the MonoRail handling and transfer system. It is an individually tailored system, covering every type of installation from the smallest gravity drive to the most complex automated systems.

IF YOU WANT TO GET A MOVE ON

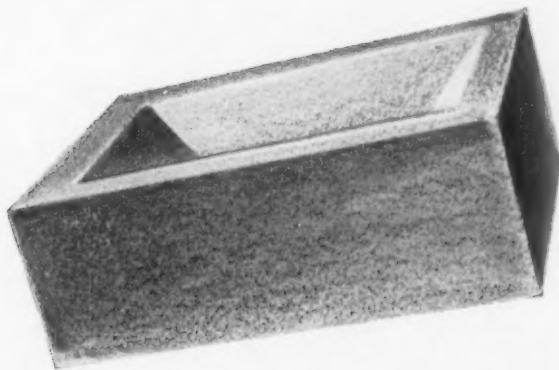
Send for the man with the **MONORAIL** plan

BRITISH MonoRail LIMITED

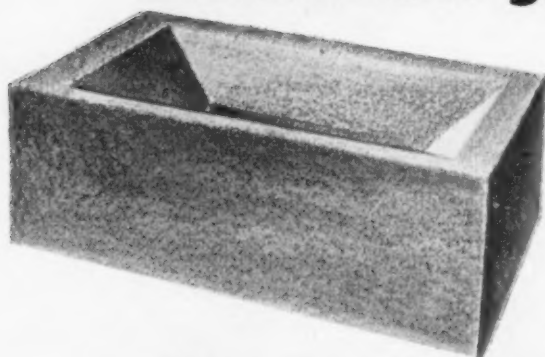
WAKEFIELD ROAD · BRIGHOUSE · YORKS · TELEPHONE: BRIGHOUSE 2244

A member of the Herbert Morris Group of Companies

98A 514



Between you and me ...



... there's no better mortar

In arctic, tropical and temperate climates, thousands of millions of bricks have been erected with mortar plasticised with FEBMIX ADMIX without one failure occurring. For strength, impermeability, durability and workability, there is no better mortar.

Bricklayers like FEBMIX ADMIX because it imparts maximum plasticity to the mortar. Contractors like it because it reduces cost and increases production rate while Architects welcome its use because of the improved durability and clean appearance of brickwork obtained.

Use the Largest Selling Mortar Plasticiser in the world

IT'S *FEBMIX-ADMIX*

IT COSTS YOU MONEY NOT TO USE IT !



(GT. BRITAIN) LTD

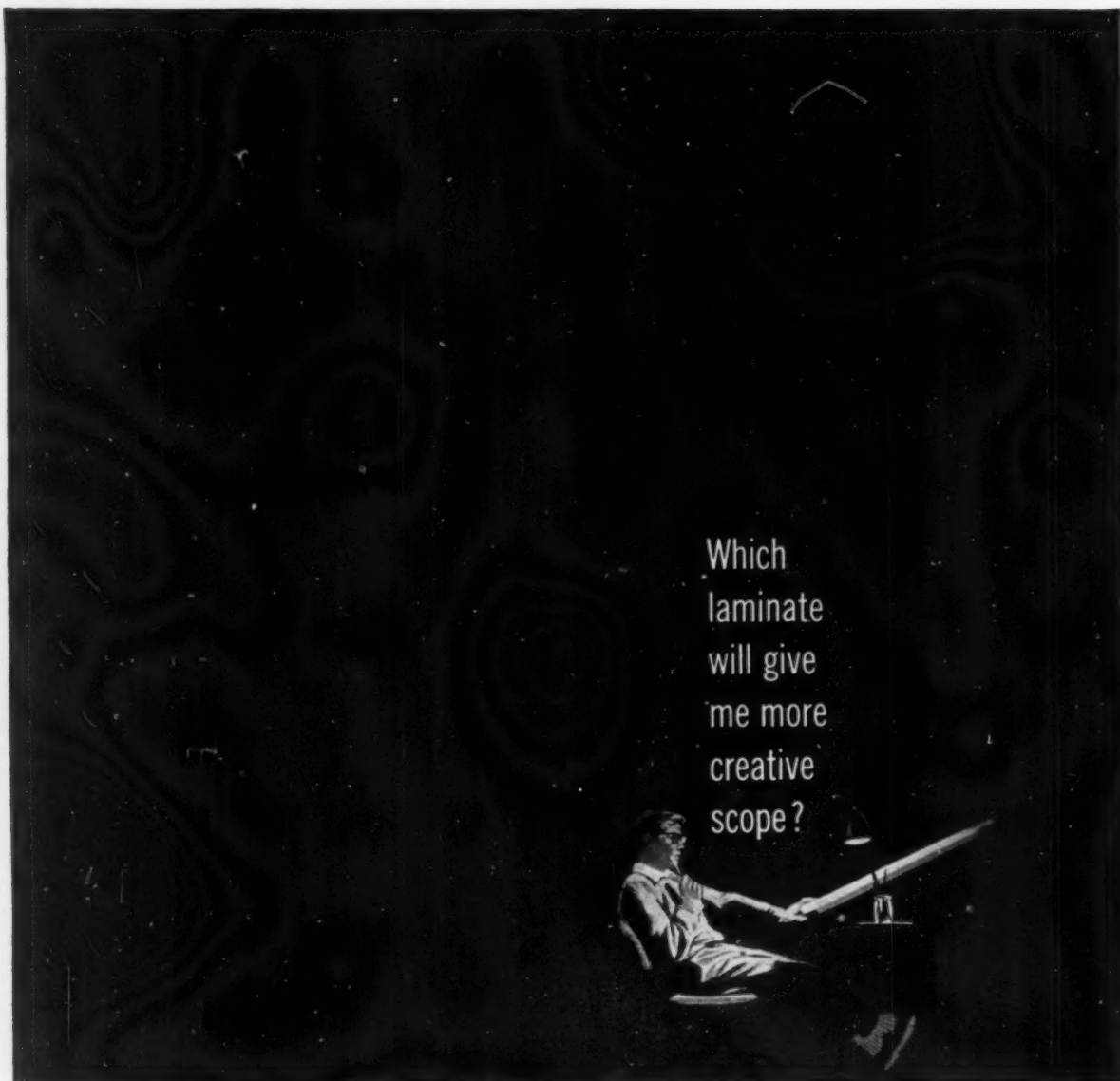
102 Kensington High Street, London, W.8.

WES. 0444

Albany Road, Chorlton-cum-Hardy, Manchester 21.

CHO. 1063

DHB8608



Which
laminates
will give
me more
creative
scope?

FABLONITE

THE LIFETIME LAMINATE

FABLONITE is the new *top-quality* laminate that introduces over 70 new and exclusive stylings. There are 13 exceptionally realistic wood grains (their unique long 'repeats' defy detection!) . . . 18 pure plain colours . . . hosts of colourful patterns. The glorious 'Harmony' stylings (combining two or more effects in one distinctive panel) give individuality to built-ins and make interesting focal points. FABLONITE *costs less to use*—list price is only 3/9 per square foot in the standard range (including wood grains). *Planned nationwide distribution* ensures that you get the FABLONITE you want, *where and when you want it*. No costly hold-ups . . . no last-minute changes of plan! The Fablon Building Division is ready to assist you with technical information. For details of prices, stylings and specifications, post the coupon today, to: Fablon Ltd., 49 Park Lane, London W.1

Fabulous New **Fablonite**

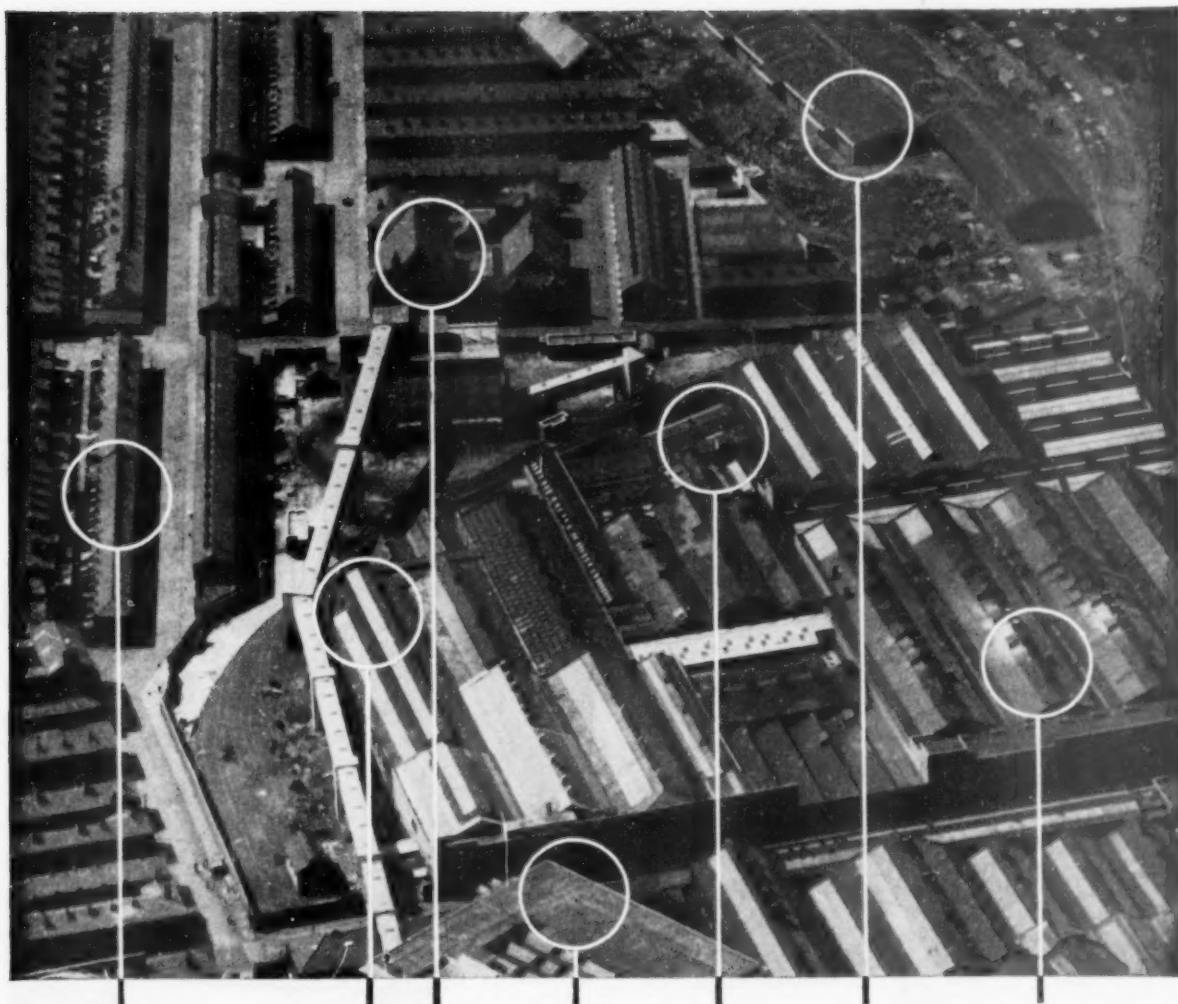
To: FABLON LIMITED · 49 Park Lane · London W1

Please supply details of FABLONITE prices, stylings and specifications. ☐
Please arrange for a FABLONITE consultant to call by appointment. ☐
(TICK WHERE APPLICABLE)

NAME _____

ADDRESS _____

AJ 9



Any type of roof can be waterproofed

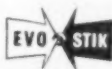
with the

EVODE

BUILT UP ROOFING SYSTEM

* Permanent waterproofing for large or small roofs * Applied cold without preliminary treatment * Used and proved for over 25 years * Foreman demonstrators are available to assist your contractors labour, or, if you prefer, our contracts department can undertake the work for you and provide free maintenance.

A PRODUCT OF EVODE OF STAFFORD, THE



'IMPACT' ADHESIVES SPECIALISTS

* **SEND FOR LITERATURE** EVODE LTD., (BUILDING CHEMICALS DIVISION) STAFFORD. Phone: 2241 (8 lines)
London Office: 82 VICTORIA STREET, S.W.1. - Telephone: ABBey 4622 (3 lines)

M.W.159.

**"CLEAN HEAT
CLEAN AIR"**



... with Mr. Comfort's

GAS COKE

and his other Solid Smokeless Fuels

- * Specially made for burning in open fires and openable stoves, and in domestic boilers too.
- * Light easier and burn better.
- * The cheapest smokeless fuels.

The Gas Council Coke Department, 1, Grosvenor Place, London, S.W.1.

345_{FT} TESTED

Extract from a report prepared by:
Mr. G. C. Wilson for R. H. Harry Stanger, Testing Consultants, The
Laboratories, Summerfield House, Barnet Lane, Elstree, Herts.
5th October 1960
Report of permeability test carried out with Febproof Integral Liquid
Waterproofing Compound in a Mortar Mix.

	Febproof Treated	Control Untreated
Mix:—	3	3
Sand, Parts by Volume	1	1
Portland Cement by Volume	1	Nil
"Febproof," Pints per cwt. Cement	0.47	0.53
Water/Cement Ratio	1½"	1½"
Slump Inches		

PERMEABILITY TEST RESULT ON MORTAR TREATED WITH FEBPROOF

Water Pressure		Water Pressure Held For	Amount of Water Percolation
Feet Head	Lbs. per sq. in.		
46	20	1 HOUR	NIL
69	30	1 "	NIL
92	40	1 "	NIL
115	50	1 "	NIL
172	75	1 "	NIL
230	100	1 "	NIL
287	125	1 "	NIL
345	150	1 "	NIL

The thickness of the 1-3 cement, sand mortar slabs, was 2", and
age at date of test 28 days. Water percolated through all
untreated control specimens. No water percolated through
Febproof treated specimens. SEE TEST RESULT ABOVE.
Signed by G. C. Wilson for R. H. Harry Stanger.

With a sustained
water pressure of
150 lbs. p.s.i. equal-
ling 345 ft. head
of water, this
independent
Test Report
illustrates the re-
markable water-
proofing efficiency
of Febproof In-
tegral Liquid
Waterproofers.

Few if any cement waterproofing compounds can match this performance result, and few if any are as cheap to use. Only one pint of FEBPROOF is required per cwt. of cement to make concrete and cement renderings completely impervious. In addition FEBPROOF greatly improves plasticity and workability and considerably increases compressive strength.

FEBPROOF

INTEGRAL LIQUID WATERPROOFER

The Test Proved Waterproofers



(GREAT BRITAIN) LTD.

102 Kensington High Street, London, W.8. 'Phone: WEStern 0444

Albany Road, Chorlton-cum-Hardy, Manchester 21. 'Phone: CHOrlton 1063

DH8919r



*Photo by courtesy of
Holland & Hannen
and Cubitts (G.B.) Ltd.*

mahogany

Morris always hold large stocks of top grade MAHOGANY, HONDURAS and AFRICAN, in a full selection of sizes. Square-edged boards and planks, seasoned and stored under cover, as well as kiln-dried stock in many thicknesses. Solid logs for special sizes and purposes. See Morris about MAHOGANY and its useful cousins, UTILE and SAPELE.

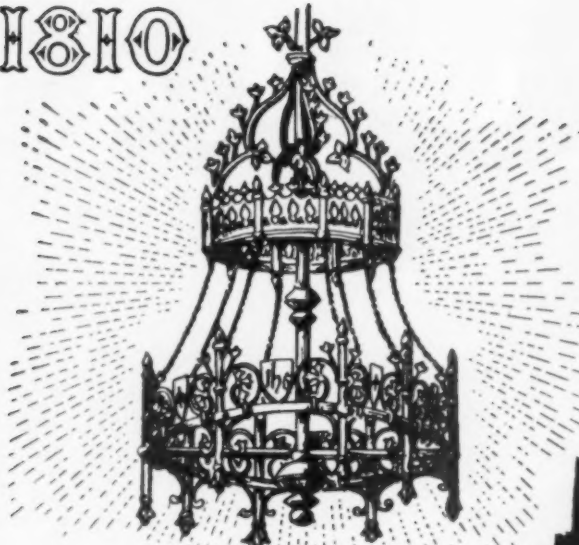
M·A·MORRIS·LTD



TEAK, IROKO AND OTHER HARDWOODS

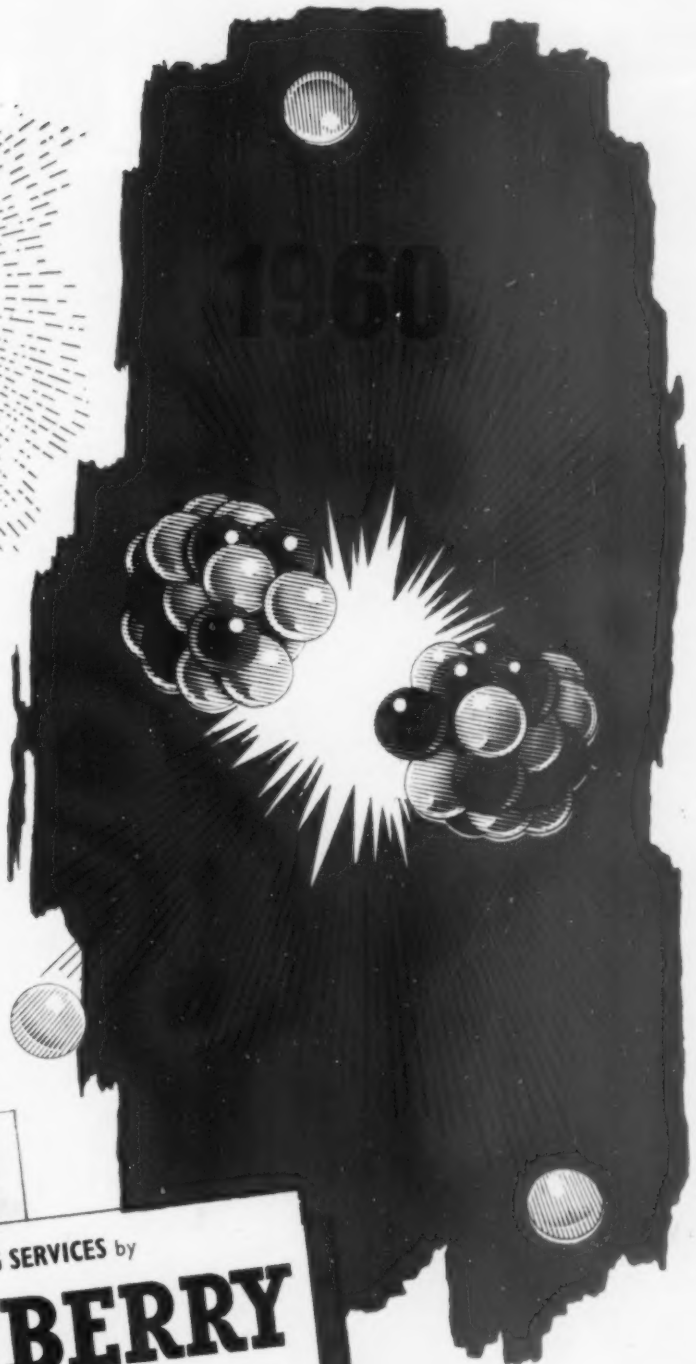
Ravensdale Wharf, Stamford Hill, London, N.16. Tel: STAMFORD HILL 6611

1810



150 years of advancement

In 1810 we made this early type of ecclesiastical chandelier fitted for gas when it was the last word in elegant efficiency. Today—150 years later, in our progressive services used by the United Kingdom Atomic Energy Authority and by many large manufacturers, it remains a symbol of the traditions of Z. D. Berry & Sons—traditions of quality and craftsmanship. It is also a reminder that nothing is new for long; that progress demands constant effort and an unrelenting search for newer ideas and techniques.

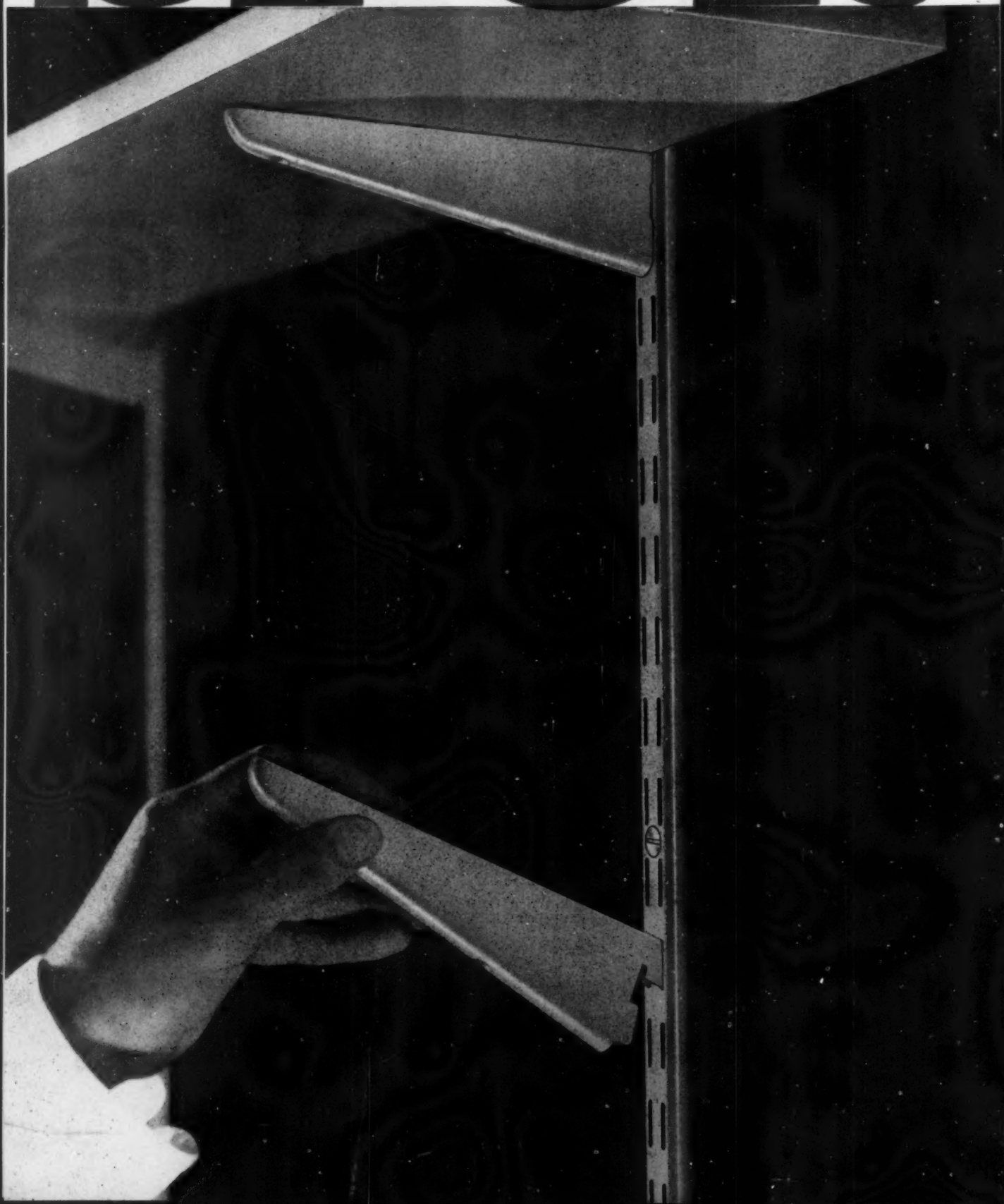


HEATING, VENTILATING, AIR CONDITIONING
PLUMBING, INDUSTRIAL PIPEWORK

Z. D. BERRY & SONS LTD., 16 REGENCY ST., LONDON, S.W.1 and at WARRINGTON & DONCASTER

TAS/ZB.30

SPUR



for the Architect

SIMPLICITY

Spur shelving system can be erected easily without skilled labour.

ADAPTABILITY

The position of Spur shelf brackets can be easily and rapidly changed as layout and shelving requirements alter. The shelf brackets are simply moved to other slots.

ATTRACTIVE

Spur shelving looks good and is made in attractive colours.

STRENGTH

Spur is scientifically built for the job and will take heavy loads.

ECONOMY

Spur saves erection costs and enables maximum use to be made of space.

SPUR to new ideas. Spur to better shelving. Spur to progress in design through this most modern and versatile shelving system!

Have you considered Spur? It is full of new possibilities for the architect—not only for shelving but for many other problems of support such as tables, desks and counter tops.

How SPUR shelving works

Spur relies on simple, detachable cantilever brackets. These are clipped into slotted 14 gauge steel uprights of U-Channel section. When shelving requirements alter—the brackets are simply moved to new positions—hence the countless applications for Spur in shops, stores, warehouses, libraries, laboratories, workshops and the home.

How SPUR helps design

As a feature of design alone—apart from their functional aspect—Spur units add a new and striking touch to any interior. Apart from the standard wall uprights, Spur double-sided uprights are made—ideal for room sub-division. Special Spur fitments are available for the most specialised shelving requirements, and brackets are made in standard and sloping types and in a range of sizes.

Are you using this **VERSATILE SHELVING SYSTEM?**



MORE INFORMATION?

Write for this full and informative brochure which gives you full specifications and goes into detail on all SPUR units and fitments.

FREE SAMPLES

On request we will send you a sample of the precision-built shelving system.

SPUR



the precision-built shelving system

Specify the **SPUR** system for shelving

Savage and Partners Limited
Watford - Hertfordshire
Telephone: Watford 36071



"It'll pay us
to use
**SUPER
SNOWCEM**"

- For nothing in this class of work comes close to Super Snowcem's price and ease of application. Customers know the name... yes, it will certainly pay to use it. Then if we do meet any on-the-job problems we can always turn to the special technical service which the Blue Circle people operate. ●



SUPER SNOWCEM

is a waterproof cement paint made with a base of Snowcrete, the British white Portland Cement. It is supplied in powder form in free containers from 7 lb. to 112 lb. and requires only the addition of water to prepare it for use. When applied to suitable surfaces it provides a hard durable finish which resists the penetration of damp - will not rub, flake or peel off and may be washed.

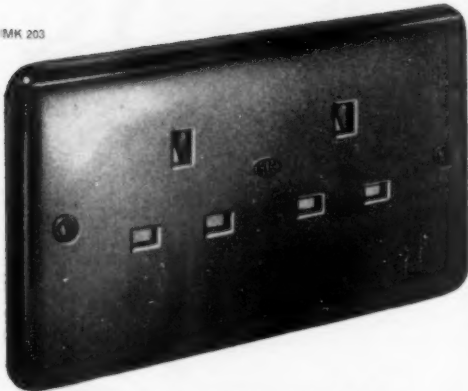
See **CMC** about Cement!

Make use of our technical service. For all information please write to:

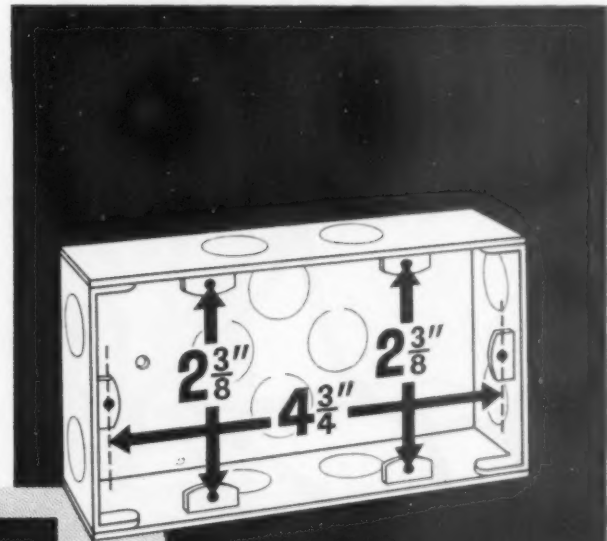
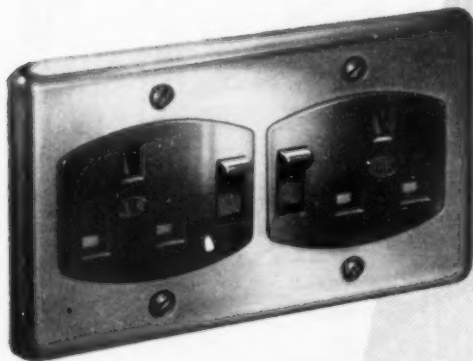
THE CEMENT MARKETING COMPANY LIMITED, PORTLAND HOUSE,
TOTHILL STREET, LONDON, SW1 • Telephone: TATe Gallery 3456
G. & T. EARLE LIMITED, HULL • Telephone: HULL 26121

Selling Organisations of The Associated Portland Cement Manufacturers Ltd

IMK 203



**TWO SOCKETS IN ONE ...
FOR *DOUBLE* CONVENIENCE ...**



List No. 886 MK Two gang flush steel box.

(Top left) List No. 731—
Two gang socket-outlet with
moulded plate (Brown
or Ivory)

(Bottom left) List No. 2948—
Two gang switchsocket-
outlet with brass plate
(BMA or Matt Chrome)

SHUTTERED FOR SAFETY.....



THE NAME — FOR ELECTRIC WIRING ACCESSORIES

MK 13 amp. Rectangular pin socket and switchsocket-outlets are made in two gang in the same styling and variety and with the same electrical safety features as MK single gang. MK two gang outlets cost very little more to install

than single outlets yet give the user the benefits of double service. MK flush two gang socket and switchsocket-outlets have common dimensions to suit the MK two gang flush box outlined above. Surface patterns are also available.

M.K. ELECTRIC LIMITED SHRUBBERY ROAD EDMONTON LONDON N 9 EDMONTON 5151



"Foliage", designed by Joyce Storey. M1035 shown to scale.

A new collection of machine printed wallpapers has just been compiled by the London Office of The Wall Paper Manufacturers Limited 19/21 Mortimer Street, W.1. and is now available through wallpaper suppliers. Many prominent designers are associated with this collection among them Lucienne Day, Jacqueline Groag, Terence Conran, Joyce Storey and William Gear.

Modus wallpapers, because machine printed, are moderate in price, and in order to increase their usefulness to Architects and Interior Designers all these papers have been treated with a special protective coating.



MODUS

THE WALL PAPER MANUFACTURERS LIMITED
19/21 MORTIMER STREET LONDON W1

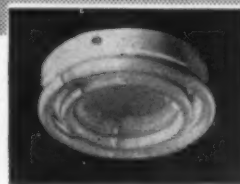


Harris & Sheldon (Electrical) Ltd., designed these special fittings for Woolworth's Head Office. Each houses the three Philips Circular Fluorescent Lamps - 94 watts of fluorescent lighting in a rectangle of small size.

Here's the new look in fluorescent lighting



Many manufacturers have selected Philips Circular Fluorescent Lamps for their fittings. Shown at left is a model by Allom Heffer & Co. Ltd., with opal perspex bowl and gilt enrichments. Available in two sizes for 40w. or 32w. Circular.



This Philips A.5001 fitting combines both 40w. and 32w. Circular. A further version has one 40w. only. Both versions accept a choice of diffuser attachments.

Efficiency and long life make fluorescent lighting today's first choice. But prestige areas, such as entrances, reception halls and board rooms demand more than the technical advantages provided by conventional straight tubes. They need lighting that is also tasteful and decorative. Philips Circular Fluorescent Lamps make this possible. Circular fittings are not only attractive in themselves—they also permit a degree of layout flexibility—impossible to achieve with ordinary tubes.

Philips Circular Fluorescent Lamps are made in three sizes: 40w. 16" dia.; 32w. 12" dia.; and 22w. 8½" dia., and are available in several colours. Philips Colour 32, with its warm and luxurious colour rendering and special double coating to suppress distortion, is extremely popular. The rapid growth in popularity of circular fluorescent lamps brings you lower List Prices than ever before—27/6 for the 40w.; 25/- for the 32w. and 22w.



PHILIPS LEAD THE WORLD IN LIGHTING

For full details of Philips Circular Fluorescent Lamps and Fittings, write to:

Philips Electrical Limited · Lamp & Lighting Group · Century House · Shaftesbury Avenue · London · WC2
LD3339

There's a high degree of security at Sheffield University

At Sheffield University, they have effectively mastered the problem of how to get a high degree of security — with the maximum of flexibility and control. A Yale Grand Master Keyed Suite, consisting of Cylinder Rim and Mortice locks, latches, deadlocks and padlocks provides all-round security throughout the buildings. There are, in all, some 1,500 locks all controlled by one Grand Master Key.

With Yale Master Keyed Suites, the number of differs obtainable is practically unlimited. They can be arranged to cover every need likely to be found in office blocks, factories, schools, hospitals, hotels, and public buildings generally.

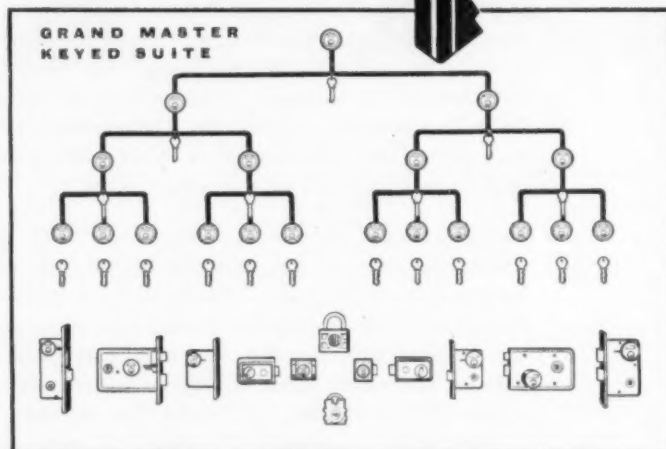
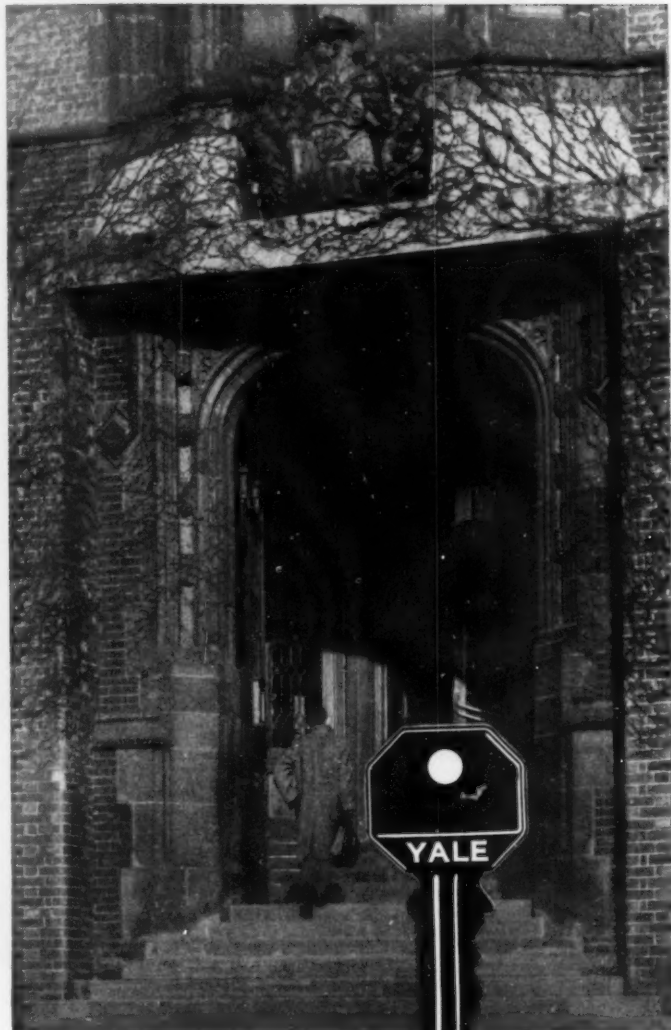
Master Keyed Suites. Different locks each operated by its own key but with a Master Key to open all locks. The Master Key can open up to 12,200 different locks.

Grand Master Keyed Suites. Different locks divided into Sub Master Suites. Each Sub Master Key operates all the locks in its suite but not those in other suites. The Grand Master Key will open all — up to 2,200 different locks.

Grand Master Keyed and Master Keyed Suites can be arranged to include cylinder rim and mortice locks, latches and deadlocks, padlocks and cabinet locks. All these types can be controlled by the same Grand Master or Master Key.

Additional keys for such suites are only issued by Yale on the written authority of the registered owner of the suite.

Literature. Write for explanatory leaflets and detailed specifications.



**Where there's a door
there's a need for**

YALE
REGISTERED TRADE MARK

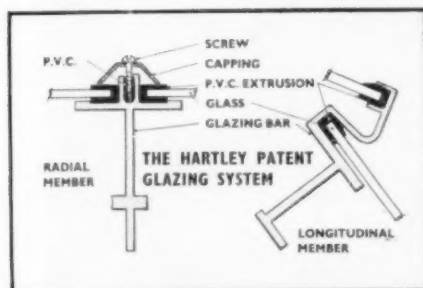
The Yale & Towne Manufacturing Co
British Lock & Hardware Division
Dept A6 Willenhall Staffordshire



Floral Conservatory, for the Rhyl Urban District Council.
212 ft. long x 43 ft. wide x 25 ft. high.

The **HARTLEY** Glasshouse range covers all needs

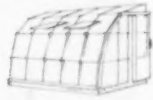
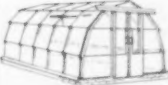


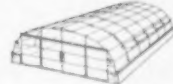
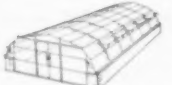
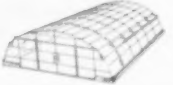
The Hartley range of glasshouses has been designed to meet the requirements of Parks, Research Establishments, Horticulturists, Nurserymen and Private Gardeners, and include these outstanding features:—



Aluminium alloy construction; new shape with new glazing system to admit far more light; absence of internal supports for unrestricted working space; virtual elimination of breakages—each pane is enclosed on all edges by P.V.C. extrusion and aluminium frame, and so safeguarded against shock, draughts and weather, and against breakages caused by expansion and contraction; stove enamelled structure preventing unsightly surface corrosion.

Full details of the Hartley Range are available on request to

V. & N. HARTLEY LIMITED
GREENFIELD, NR. OLDHAM, LANCASHIRE
Telephone: Saddleworth 444

<p>This is the full range of Hartley Glasshouses. Built to any length.</p>	 Hartley "7" 7'3" Wide 7'9" High (Lean-to)
 Hartley "10" 10'0" Wide, 7'1" High	 Palm House 38'6" Wide, 18'6" High
 Hartley "14" 13'3" Wide, 8'6" High	 Hartley "18" 18'4" Wide, 9'0" High
 Hartley "21" 21'2 1/2" Wide 10'0" High	 Hartley "27" 28'1" Wide, 11'9" High

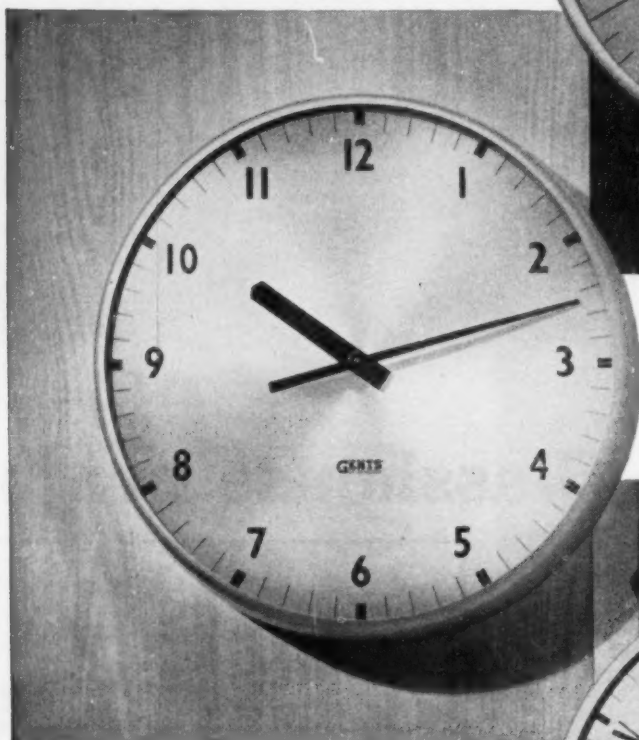
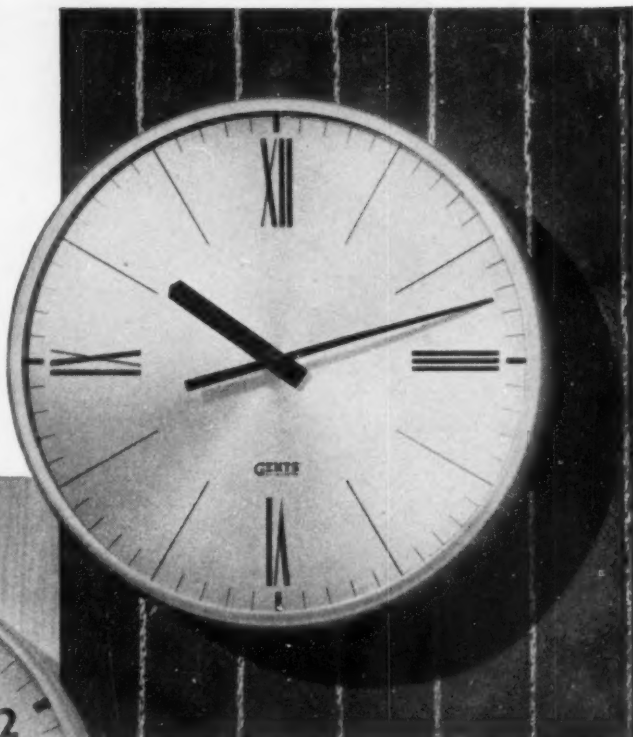


Maximum legibility and good taste are combined in the Gents wall clocks shown here.

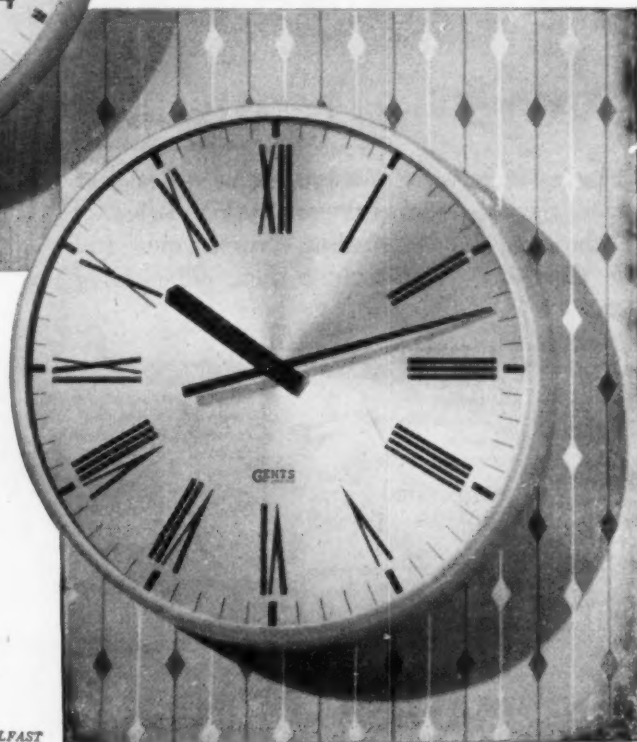
Styled by a leading industrial designer they provide a choice of standard models which fit happily into present-day surroundings and décor.

These and others in the extensive Gents range have been selected by the Council of Industrial Design for inclusion in Design Index.

All are available for operating either on A.C. Mains or as part of a Master Clock System.



In every way... Right!



May we send you literature?

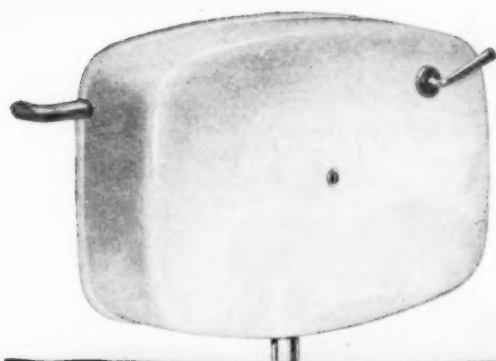
GENTS

OF LEICESTER

ELECTRIC CLOCKS

GENT & COMPANY LIMITED,
Faraday Works, Leicester. Telephone: 36151
London Office & Showroom:
47, Victoria Street, S.W.1. Telephone: AE 7ey 6888

Also at: BIRMINGHAM, BRISTOL, EDINBURGH, GLASGOW, NEWCASTLE, BELFAST



Fordham Panel Model 'O'

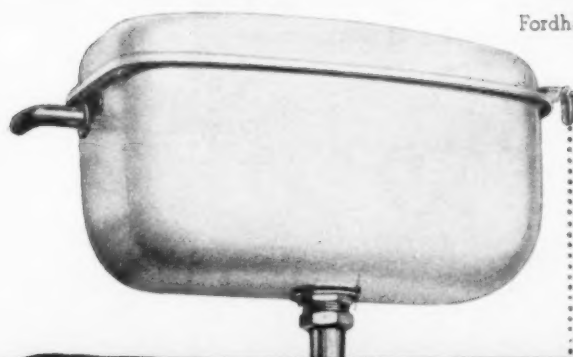
first and foremost for all

sanitary equipment . . .

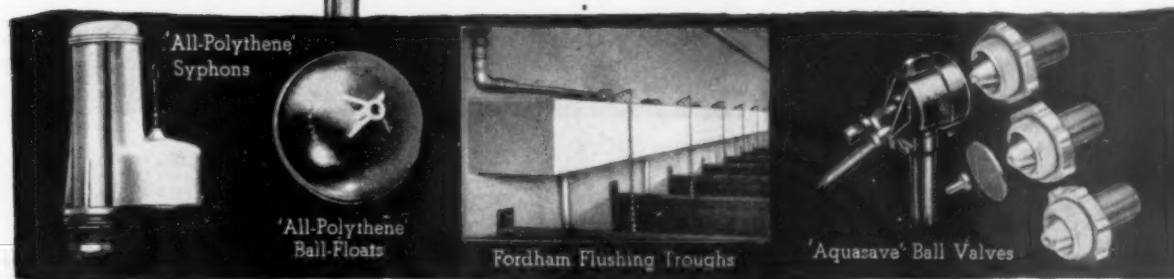
Fordham 'Cleanline' low level Cistern



Fordham 'Cleanline' high level cistern



Some of the
Fordham Products
specified by Architects
throughout the world.



Fordham

Specialists in Sanitary Equipment



for more than a quarter of a century.

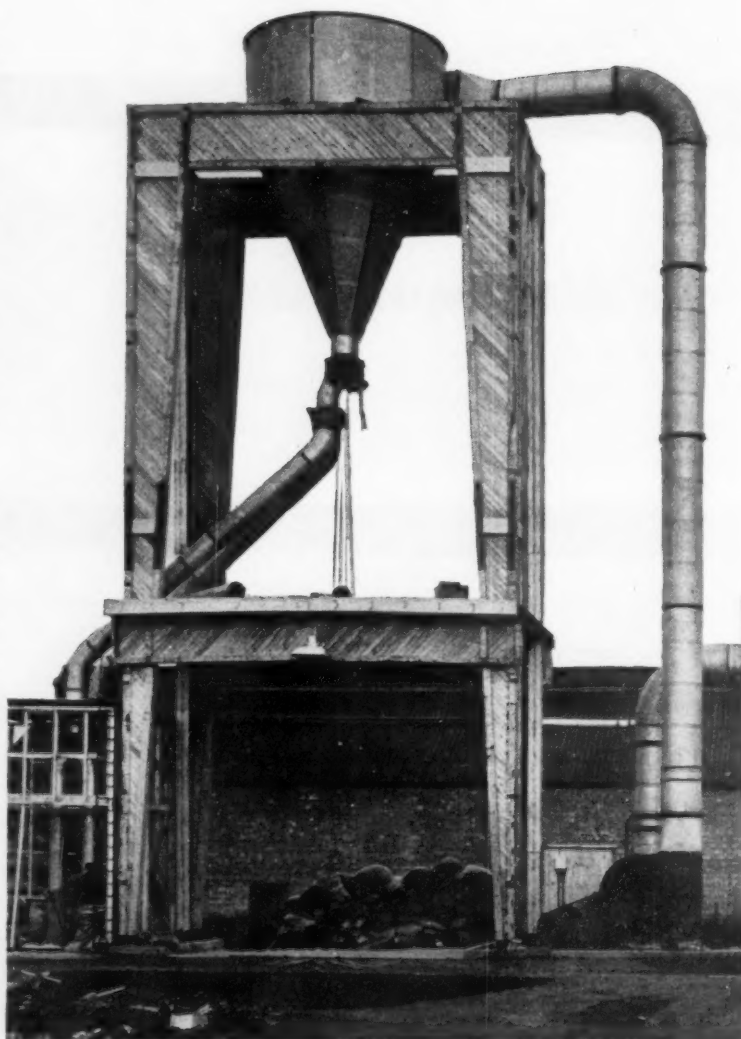
Other factories at Earlsfield (London), Sedgley (Staffs), Hinckley (Leics).

FORDHAM PRESSINGS LIMITED
Dudley Road, Wolverhampton
Telephone: Wolverhampton 23861

AERODUX

weathers
the
cyclone

This is the cyclone tower at the new Colwick, Nottingham, works of Ashworth Kirk Ltd. The H.B. portal frames supporting the dust extraction cyclone unit are 53 ft high and glued throughout with Aerodux 185 resorcinol resin glue. Aerodux was used for its unequalled resistance to weather—even in the most exposed conditions—and for its durability, gap-filling properties and resistance to the attacks of insects, fungi, and micro-organisms. Aerodux is tolerant of the moisture content of the wood being bonded and its unique combination of properties is invaluable for all large exterior timber structures. CIBA (A.R.L.) resins, both Aerodux and Aerolite, were used for gluing all structural timber in this new factory at Colwick.



Aerolite

Aerodux



synthetic resin glues for wood

Aerolite and Aerodux are registered trade names

CIBA (A.R.L.) LTD., Duxford, Cambridge. Telephone: Sawston 2121
AP610

KITCHEN

GYMNA

30'-0 — 80

Leave this to EUK

Re Kitchen Planning
Survey: - EUK to measure-up -
note ultimate requirements -
suggest best types of
catering equipment for our
purpose.

Planning: - EUK to advise ideal
layout for kitchen services.

Manufacture: - by EUK to
approved specs. & schedule

Install using EUK labour.

Agreed!
- Euk are experts at
Kitchen planning - pass
them the entire job
Tues. A.M.

ADG.

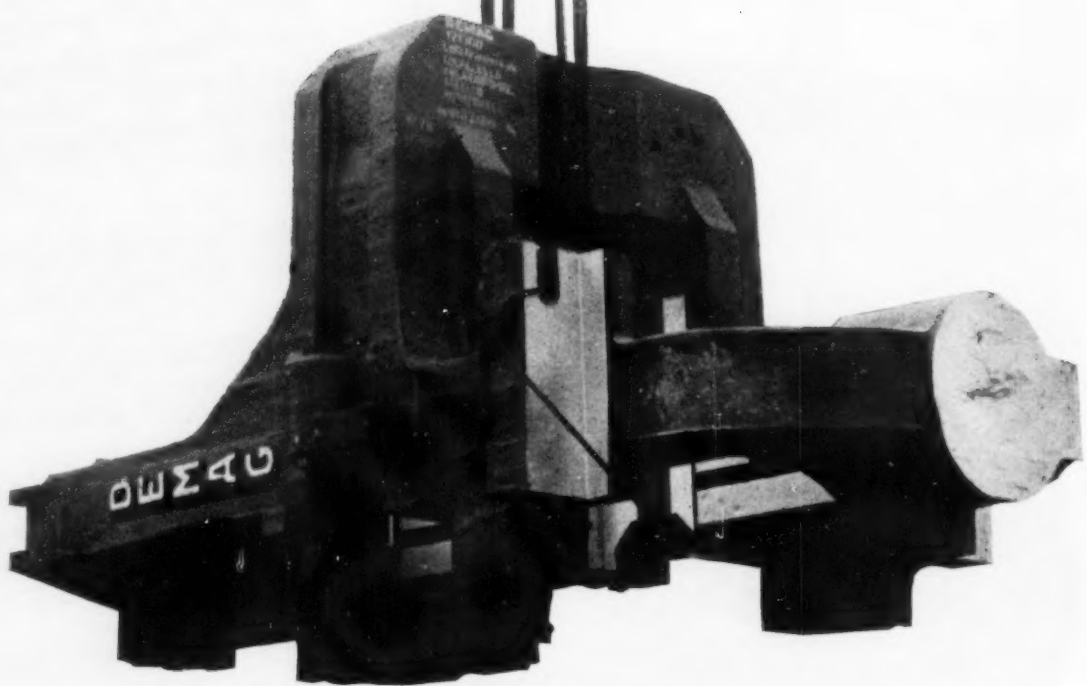
EUK CATERS FOR THE CATERER

EUK CATERING MACHINERY LTD.

HEAD SALES OFFICE: LATYMER COURT, HAMMERSMITH ROAD, LONDON, W.6.

SCOTTISH OFFICE & SHOWROOM: 4/8, LADY LAWSON STREET, EDINBURGH, 3.

THE LANARKSHIRE UNIVERSAL BEAM MILL



At Motherwell, the steel centre of Scotland, the Universal Beam Mill is at an advanced stage of construction.

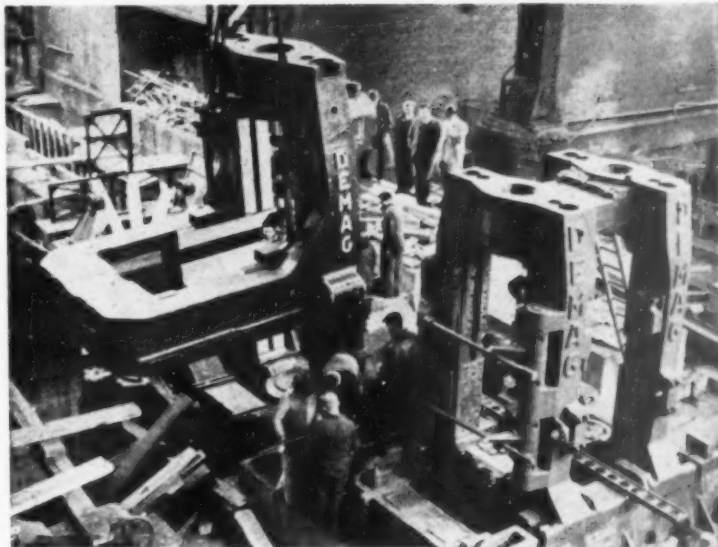
When the new mill comes into operation the Lanarkshire Steel Company will be producing a wide range of Universal beams and columns for various structural uses in Britain and overseas.

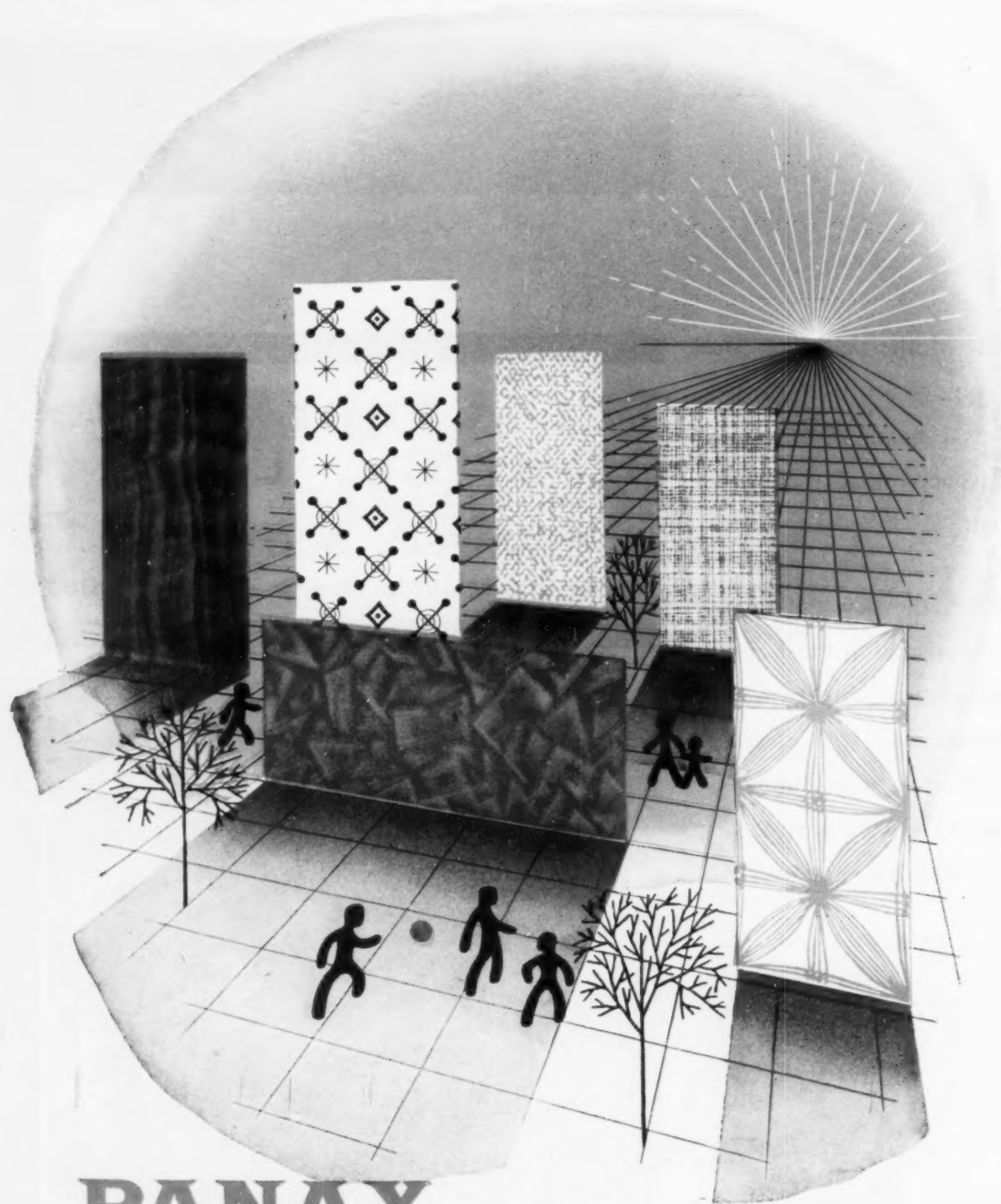


The Lanarkshire Steel Co. Ltd.

MOTHERWELL SCOTLAND

One of the Colville Group of Companies





PANAX *shapes the future of design*

Panax, exceptional melamine surface plastic, offers fascinating scope for interior design. Brilliant versatility in use . . . remarkable practical properties . . . eye-catching variety of sparkling colours and patterns . . . all combine to make Panax *the* material of today for interior design. But to add even more to its appeal, Panax costs up to 22% less than any other plastic laminate. Choose Panax, the remarkable material for modern design.

NORTH BRITISH PLASTICS LIMITED, BLAYDON, CO. DURHAM

For YOUR offices in the 60's



SKYLINE

by

BENZAMIN
REGD.



THE ARCHITECTS' JOURNAL
(Supplement), May 25, 1961

ONE OF THE WORLD'S LARGEST PRODUCERS OF INDUSTRIAL & COMMERCIAL LIGHTING FITTINGS
BENZAMIN ELECTRIC LIMITED · TOTTENHAM · LONDON · N.17 · TOTTENHAM 5252



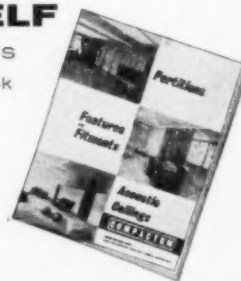
THERE'S NO SET ANSWER

Every building needs a special treatment when it comes to partitions and ceilings which will keep noise levels low and visual standards high. COMPACTOM is the organisation which gives the widest choice of standard constructions in a considerable range of materials—enabling you to select the exactly right treatment for all projects involving:

- Dry construction demountable partitions
- 'MINIWALL' dwarf partitions
- Acoustic ceilings and treatments
- Fitment work • Toilet cubicles

SEE FOR YOURSELF

You'll get a good idea of COMPACTOM'S experience and versatility from this book which gives details of their standard treatments and illustrates many recently completed contracts. Write for your copy today.



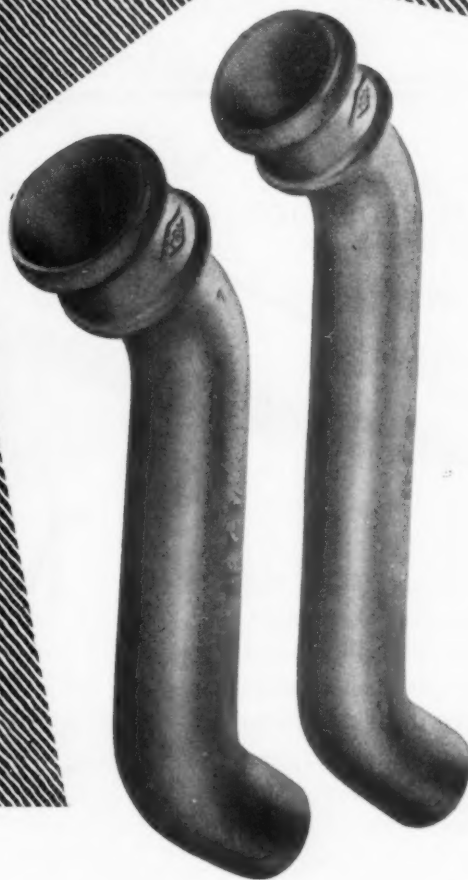
COMPACTOM LTD

SPECIALISTS IN PARTITIONS AND ACOUSTIC CEILINGS

OXGATE LANE · CRICKLEWOOD · LONDON N.W.2. Telephone: GLadstone 6633

COMPACTOM

keep noise in its place



GOOD LOOKS IN HIDUMINIUM

Buildings fitted with rainwater goods in Hiduminium keep their looks. Hiduminium cannot discolour the adjacent masonry. Hiduminium rainwater goods are as strong as iron but only one third the weight and so are easy to handle and fit; they will not crack even in the coldest weather; they need no painting since they are highly resistant to corrosion.

Send for our fully illustrated catalogue and price list.

**Specify Hiduminium
rainwater goods**

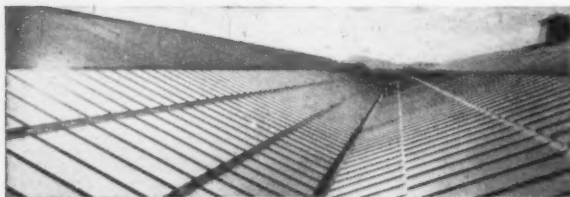
room for expansion



Hills patent glazing bars feature edge sealing that allows excellent thermal movement.

In the lead-clothed bar, oiled asbestos cord forms a seating for the glass, and lead wings are dressed down on to the top surface. In the aluminium alloy bar, oiled asbestos cord again provides the seating, but a plastic-ribboned capping is secured by set screws in the bar section. Both types effect complete weather-proofing, save time in fitting and cost in maintenance.

For full information on Hills patent glazing please contact our Technical Department.



The Lilleshall Co. Ltd., Oakengates, Shropshire.



Spondon Power Station.
Architects: Cecil Howitt and Partners, Nottingham.

HILLS (WEST BROMWICH) **LIMITED**



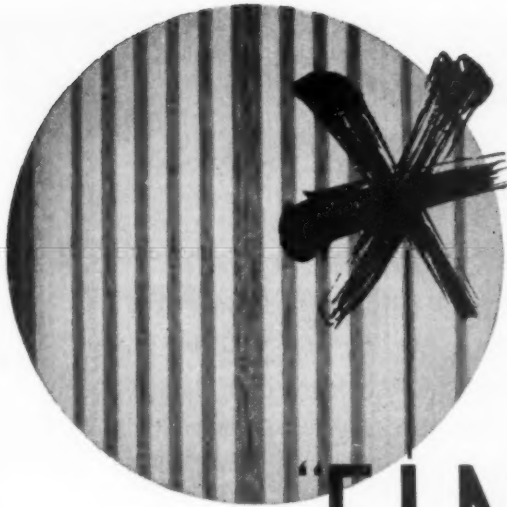
ALBION ROAD, WEST BROMWICH, STAFFS.

Telephone: West Bromwich 1811 (15 lines).

London: CHAPONE PLACE, DEAN STREET, W.1.

Telephone: GERrard 0526/9.

Branches at: Manchester, Bristol, Newcastle-on-Tyne, Glasgow.



**.. new and
wider scope
for the
designer...**

"FINELINE"

(British Patent No. 835075 Pending)



Wright's **FINELINE** developed from the American invention and now in use all over the World is the only manufactured straight grained veneer produced in Great Britain (Patent pending Number 835075). Buy **FINELINE** from John Wrights and share in the use of this unique product.

JOHN WRIGHT & SONS (VENEERS) LTD

AVON WHARF LONGFELLOW ROAD MILE END ROAD LONDON E3

Tel: Advance 4414 (10 lines) Grams: 'Mottled Bochurch London'



'PUDLO'

the first name in cement waterproofing

SOLE MANUFACTURERS: KERNER-GREENWOOD & CO. LTD., KING'S LYNN, NORFOLK. Phone KING'S LYNN 2293

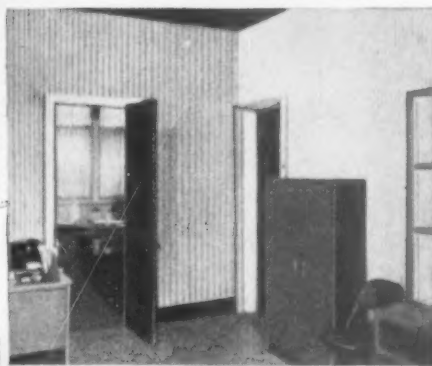
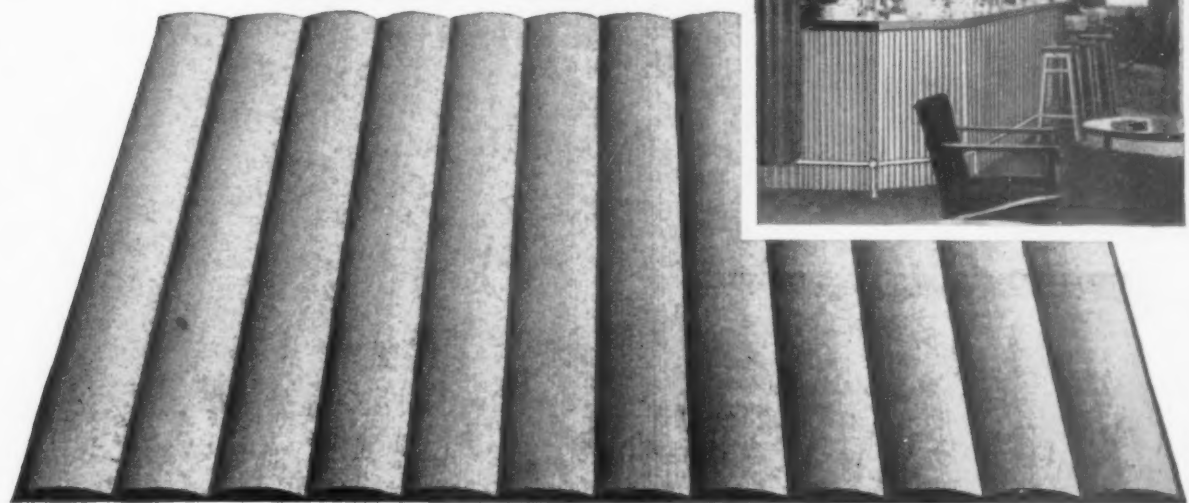
WT 26



**FOR LASTING DECORATIVE
EFFECT WITH ECONOMY**

REEDED HARDBOARD

**reeds run either the length
or width of the board**



Use **LONG REEDS** for cupboard doors, wall panelling etc.

Use **CROSS REEDS** for counter fronts, bars, pelmets etc.



The fact that L. W. Reeded Hardboard offers the choice of 1" reeds running either the length or width of the board gives greater versatility & economy in use. It also reduces the number of joints necessary in such applications as bar & counter facings, pelmets etc.

REEDED HARDBOARD

is available in sizes $\frac{1}{8}" \times 4' \times 9'$ and $\frac{1}{8}" \times 9' \times 4'$ through the usual distributive channels.

Manufactured by: MESSRS. LJUSNE WOXNA AB., LJUSNE, SWEDEN.

For any additional information, or in case of difficulties, apply to sole selling agents for the United Kingdom (excluding Northern Ireland):
Messrs. MARTIN OLSSON (FIBREBOARDS) LTD · MELBOURNE HOUSE · ALDWYCH · LONDON W.C.2

HIGH CLASS LIFTS

for efficient service in modern buildings

PICKERINGS

new POLYLIFT system
for Duplex to Quintuplex
banks of lifts

The most economical, efficient and precise system of inter-connected selective collective control which deals in the quickest possible way with all landing calls with minimum possible waiting time.

With two-speed or 'Isostop' Variable Voltage control or with Pickerings 'Isostop 20' V.V. control, providing completely smooth and stepless acceleration and deceleration.

Cars, steel panelled, Vynide, Formica or timber lined.

Push Buttons and Indicators of modern design.

Doors automatic, light-ray controlled for quick non-touch reversal.

PICKERINGS LIMITED

Head Office and Works

GLOBE ELEVATOR WORKS · STOCKTON-ON-TEES

Tel: Stockton 65278/9 and 65270

London Office:

GLOBE HOUSE, 12 ST. CROSS ST. HATTON GARDEN E.C.1. Tel: CHAncery 5061-2

Branches: BELFAST · BIRMINGHAM · BRISTOL · DUBLIN · GLASGOW · HULL
LEEDS · MANCHESTER · NEWCASTLE-UPON-TYNE · SCARBOROUGH · WORTHING





Cascalite glass fibre reinforced rooflights are the efficient modern answer to daylight illumination of buildings. They are tough, shatterproof, very lightweight, easily fixed, and they cut installation and roof structure costs. They need no putty, no painting, no expensive flashings—no maintenance costs whatsoever.

Write or phone for the Cascalite barrel vault rooflight folder.

New 75,000 sq. ft. two-storey footwear factory at Bristol for Messrs. G. B. Britton & Sons Ltd. 40 Cascalite rooflights each 6' x 40' with intake extractor fan units.

CASCELLOID

Division of British Xylonite Co. Ltd.
Abbey Lane, Leicester. Telephone: 61811

and
let in the
light



Ask for pamphlet 1257

Reyrolle

A. REYROLLE & COMPANY LIMITED • HEBBURN • COUNTY DURHAM • ENGLAND

*Permanently
Protected
by*
ESCOL

PORCELAIN

ENAMELLED

PANELS

**ESCOL
Panels are:**

most superior with
porcelain enamel
giving permanent
colourful protection
against corrosion and
rusting, attack by
normal atmospheric
conditions and air
pollution. Finished in a wide
range of colours and
a variety of surfaces.
Provide heat and
sound insulation.



ESCOL PANELS
maintain their
integrity, the finish
and colour are
PERMANENT



STEWART & GRAY LTD.

Swains Road, London, S.W.17. Tel: Mitcham 1634 (7 lines)

MEMBERS OF THE BRITISH ENAMEL DEVELOPMENT COUNCIL AND OF THE BRITISH ENAMEL SOCIETY

Why do they have to bake joists ?

Firstly we chemically pretreat our joists, then dip them in a specially formulated paint and bake them at high temperature. From then on they will withstand corrosion and defy the elements generally for years to come. This new process guarantees the architect the best possible building products at the price.

Small wonder architects everywhere are specifying Metsec.

METAL SECTIONS LTD



OLDBURY • BIRMINGHAM

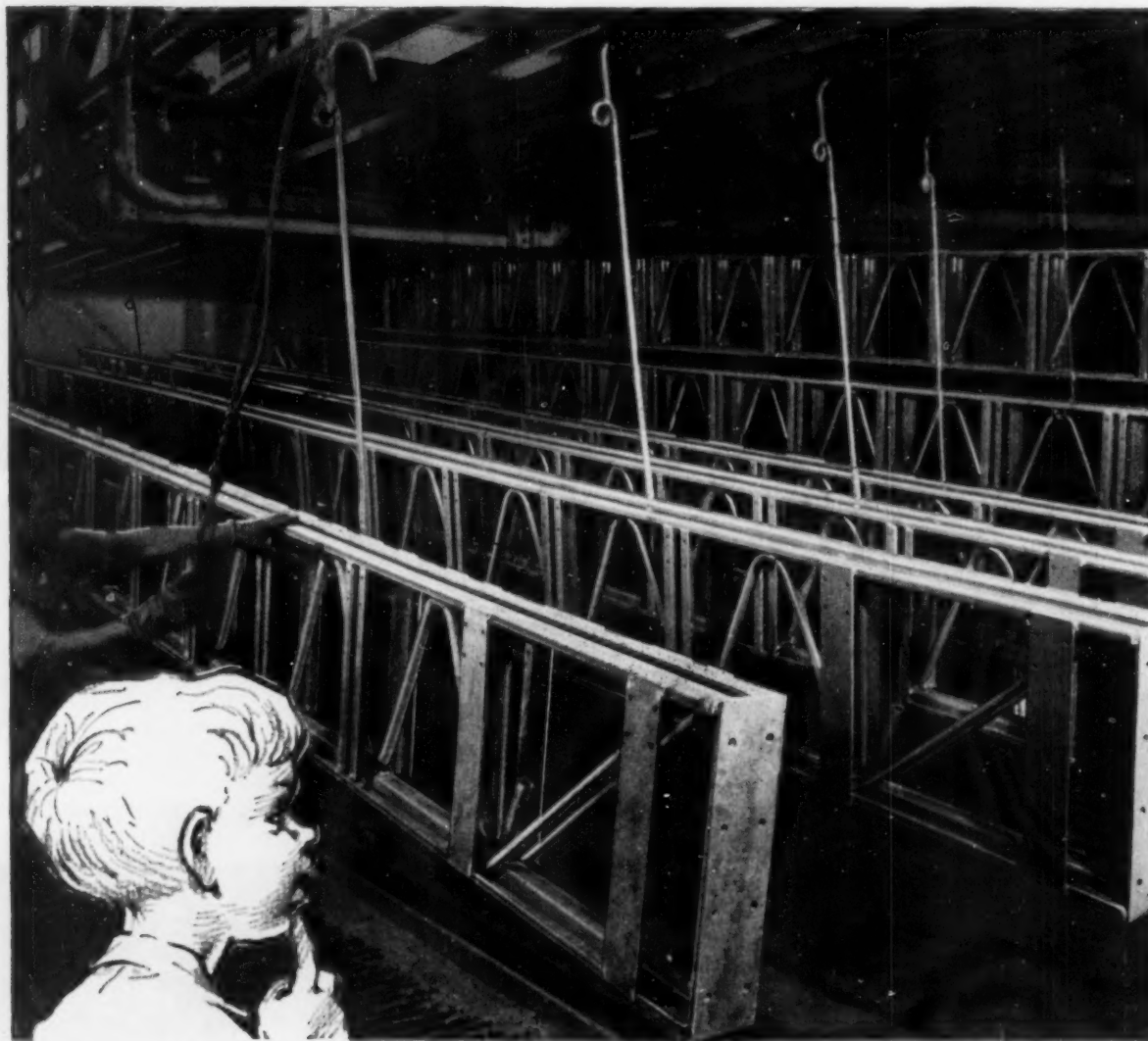
Tel: BROadwell 1541

- ☐ Please send me Joists Catalogue.
☐ I am also interested in your publication on
DIFULITE Cellular Sub-Ceilings.

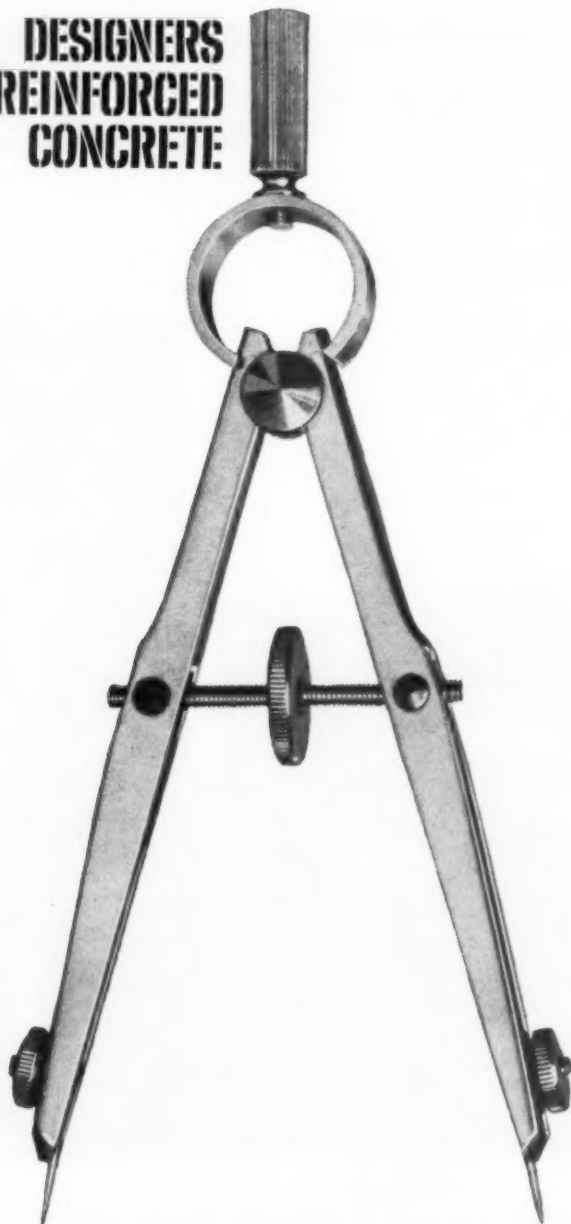
Name _____

Position _____

Company Address _____



DESIGNERS IN REINFORCED CONCRETE



Richard Hill Ltd. maintain teams of reinforced concrete engineers throughout the country—fully qualified to tackle schemes for any type of reinforced concrete structure. They will also give estimates for the preparation of complete working drawings and calculations, and for the supply of reinforcements. There is no bias towards any proprietary materials or methods—each job is given a thorough investigation in the light of up-to-date design practice.

A site investigation service is also available.

Any of the following branch offices will be pleased to send a technical representative to give you further information.

MIDDLESBROUGH—TEL: MIDDLESBROUGH 46092
LONDON—TEL: WHITEHALL 3100
MANCHESTER—TEL: SALE 8277.8
BIRMINGHAM—TEL: MIDLAND 5625
GLASGOW—TEL: GLASGOW CENTRAL 2179

RICHARD HILL LIMITED

7 CLEVELAND ROW, LONDON S.W.1 Tel: WHITEHALL 3100 A MEMBER OF THE FIRTH CLEVELAND GROUP





Panelling comes up-to-date at low cost when it's surfaced with 'Vynalast'

This reception room has been redecorated, and rejuvenated, with panelling, which arrived ready surfaced, and only had to be trimmed and fixed – no painting, no polishing, no finishing of any sort.

Expensive? Not *this* panelling. It is surfaced with 'Vynalast' a new laminate designed by I.C.I. to give you really up-to-date, fully finished panelling at low cost.

WHAT IS 'VYNALAST'? 'Vynalast' is a p.v.c. foil made specially for laminating to rigid surfaces. It is very hard wearing, heat resistant and cleans easily with soap and water. Panelling surfaced with 'Vynalast' is therefore not only easy to work with, but easy to maintain as well. It also offers the builder a very wide choice of colour and design – including some excellent wood grain finishes, two of which have been used in this reception room.

INTERESTED? Then ask your supplier about 'Vynalast' faced boards. You will find them ideal, not only for wall panelling, but for built-in cupboards and other fixtures.

'Vynalast'

registered trade mark

FROM 

NOTE TO LAMINATORS. 'Vynalast' is ideal for laminating to hardboard, chipboard, plywood and all the usual non-metallic panelling materials. It is easy to apply, its initial cost is low and the finished panelling has a ready sale for most types of building work. Drop a postcard to I.C.I. for more information about this versatile I.C.I. material now.

VL7

I.C.I. (HYDE) LIMITED • HYDE • CHESHIRE

GYPLITE ready-mixed Plasters

... light in weight, crack resisting,
fire-protective ...



... worthy of the
hands of the craftsman

GYPROC

products include:

- GYPROC WALLBOARD—LATH—PLANK
- GYPROC PLASTERS
- GYPSTELE ROOF AND WALL LININGS—SUSPENDED CEILING
- PLAXSTELE SUSPENDED CEILING
- GYPUNIT PANELS
- GYPTONE ACOUSTIC TILES
- GYPLITE READY-MIXED LIGHTWEIGHT AGGREGATE PLASTER
- GYPKLITH WOOD WOOL SLABS

Free technical literature will be sent on request

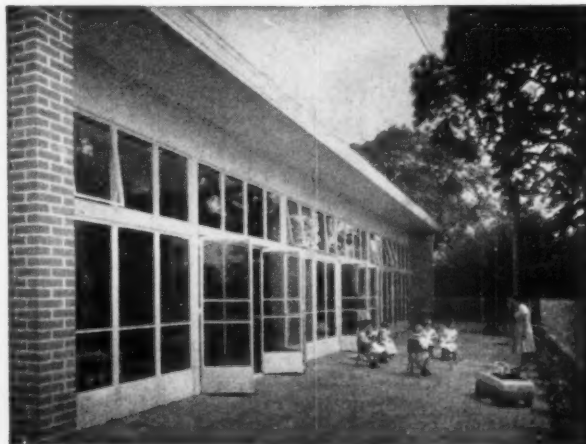
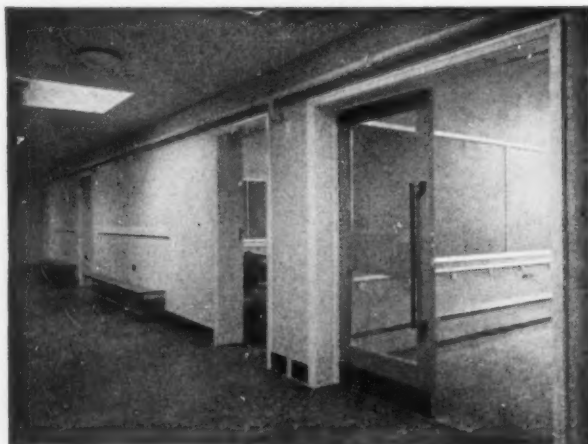
GYPROC PRODUCTS LIMITED

Head Office: Singlewell Road, Gravesend, Kent. *Gravesend* 4251/4 • *Glasgow:* Gyproc Wharf, Shieldhall, Glasgow, S.W.1. *Govan* 2141/3

Midlands: 11 Musters Road, West Bridgford, Nottingham. *Nottingham* 82101 • *London:* Ferguon House, 15/17 Marylebone Road, N.W.1. *Hunter* 4031/4

GYP. 3

... and when it comes to decorating
the best plan is to Permoglaze



SPASTIC UNIT, GREENHILL OPEN-AIR SCHOOL, RHIWBINA, CARDIFF

Interior and exterior walls, wood and metalwork finished with Permoglaze

Specified by E. C. Roberts, M.Eng., City Surveyor, Cardiff

Permoglaze

THE TILE-LIKE FINISH

Permoglaze is a liquid surface coating made by a special process which imparts exceptional hardness of surface and durability.

It is made in GLOSS, EGGSHELL and MATT finishes in grades to suit all surfaces, interior and exterior, and is of particular interest to the architect seeking a finish of outstanding quality and resistance to steam, condensation, oils, soaps, washing and hard wear.

Grades are available to meet special corrosion problems, to resist chemical attack and to combat mould and other conditions which quickly affect conventional paints. Descriptive booklet, colour cards and full particulars will be sent on request.

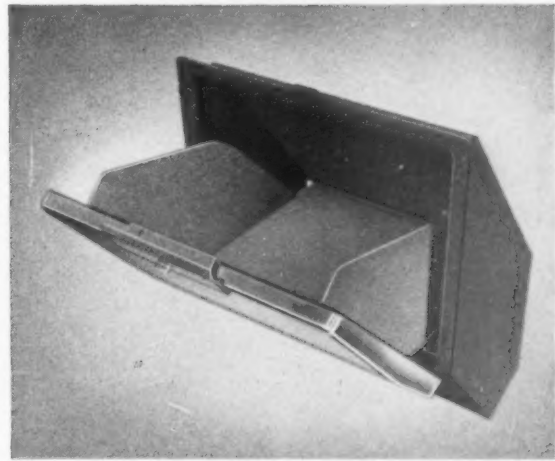
PERMOGLAZE DECORATIVE ADVISORY SERVICE is assisting hundreds of leading architects in the preparation of colour schemes and specifications. This service is free. May we help you?



PERMOGLAZE LTD · BIRMINGHAM 11

FACTORIES at Birmingham, Tenbury Wells, Melbourne, Sydney and East London, South Africa
DEPOTS at Cardiff, Glasgow, Leeds, Manchester, Norwich and Nottingham

A new face on a well known product...



Neater in appearance.

Smooth, easy action.

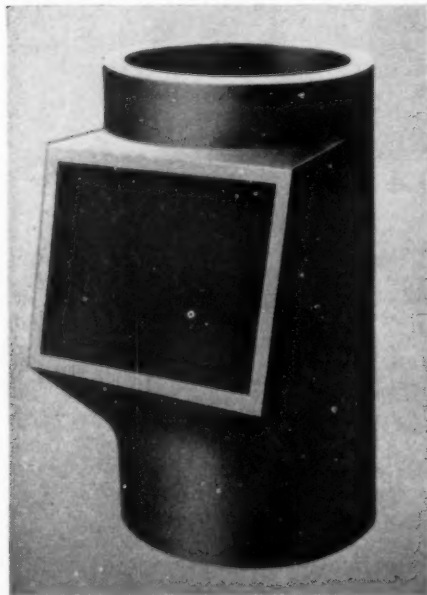
Reduces operational noise.

Seal designed to make Hopper odour-proof.

A HOPPER DESIGNED ON MODERN LINES

New development on 'multiflor' refuse chute

Patent No. 680132

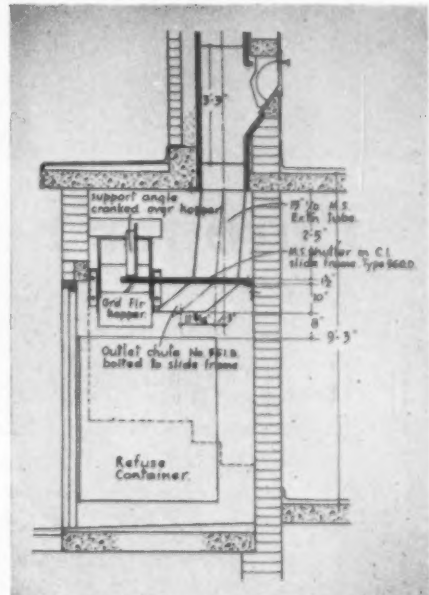


Inlet Unit on 18 inches diameter.

In accordance with the recommendations of the B.S.I. committee we are now in a position to supply the Multiflor Disposal System in 18 inches diameter.

All components can be supplied to suit individual requirements and the Technical Service associated with the Multiflor Disposal System is available to all specifying Authorities.

No. 572 Taper Unit is available for use where 15" and 18" diameters are to be combined.



BROADS

MANUFACTURING CO. LTD.

4, SOUTH WHARF, PADDINGTON, LONDON, W.2

Telephone: PADDington 7061 (20 lines)



Cure for headaches

Insulation headaches that is. This young man apparently with a load on his mind is holding aloft a block of Shell's 'Styrocell' expanded polystyrene, one of those clever and useful plastics that really belongs to tomorrow.

The great advantage of 'Styrocell' is that it combines more good qualities in one product than does any other insulation material. Trapped within its structure are millions of bubbles of still air which give it excellent insulation properties.

It is completely rot-proof, has low water vapour permeability, is strong and fantastically light. Saw it, machine it—'Styrocell' behaves perfectly. And it can be moulded into almost any shape you care to specify.

The Marley Tile Company Limited are distributors of "Styrocell" board (under the trade name 'Marleycel') to the building industry.

STYROCELL

Shell Chemicals



Ask Shell Chemical Company Limited,
Plastics & Rubbers Division, 170 Piccadilly, London, W.1.

SHELL and STYROCELL are Registered Trade Marks.

S3



DOUBLE BAY WAREHOUSE
Each Bay 100 ft. wide
using Portal Trusses
to give maximum headroom

IS SPACE *Your Problem*

- Single clear spans 40ft. to 150ft.
in 5 ft. increments or multispan
- Mass produced for competitive price
- Guaranteed completion dates
- Send for brochure

WARD BROTHERS (Sherburn) LTD. Allison Works, SHERBURN, MALTON, Yorks.
Telephones and Telegrams Sherburn 355 and 356

**The
TENTEST
COMPANY
line ceilings
with
ASBESTOLUX**

OR ANY SHEET MATERIAL

USING TENTEST PATENT

FIXINGS, AND TENTEST

UNEQUALLED KNOW-HOW

**EXPORT
AND
HOME
MARKETS**



**TENTEST CONTRACTS DEPARTMENT
THE TENTEST CO. LTD.**

(DEPT. A.J.) FIBOARD HOUSE, OAKLEIGH GARDENS, LONDON, N.20
Telephone: Hillside 8801 (7 lines) Telegrams: Fiboard, Norphone, London

"Keep 'em rolling"—



says  **SID SMITH**
of the Peterborough Engineering Shop.

*"Keeping them rolling is the order of the day—
every day. I don't have to go outside the engineering
shop to know we're achieving record output—
that queue of cam wheels is proof enough."*

 **SID SMITH, Fitter**
29 years with the Company.

Modern methods of brickmaking on the scale necessary to satisfy the enormous appetite of the building industry demand that many varied and specialised services be available at all times.

The organization built up by London Brick Company Limited over the years embraces not only the means to produce the bricks, but all the ancillary services necessary to maintain production at a high level.

This organization is necessarily a complex one and calls for close co-ordination between production personnel and the men who keep them going—engineers, foundrymen, fitters, electricians, pit men and a host of other skilled craftsmen—all working as a team.

LONDON BRICK COMPANY LIMITED in the service of the building industry



Head Office: Africa House, Kingsway, London W.C.2. Telephone: HOLborn 8282
Midland District Office: Prudential Buildings, St. Philip's Place, Birmingham, 3. Telephone: Central 4141
South-Western District Office: Royal London Bldgs., Baldwin St., Bristol 1. Telephone: Bristol 23004/5
Northern District Office: St. Paul's House, 20-22 St. Paul's Street, Leeds. Telephone: Leeds 20771



BY APPOINTMENT TO
HER MAJESTY QUEEN ELIZABETH II
BRICK MAKERS

ROLLING SHUTTERS

IN STEEL
ALUMINIUM ALLOY
OR WOOD

hand or power operated

- QUICK DELIVERY
- SERVICE AFTER SALES

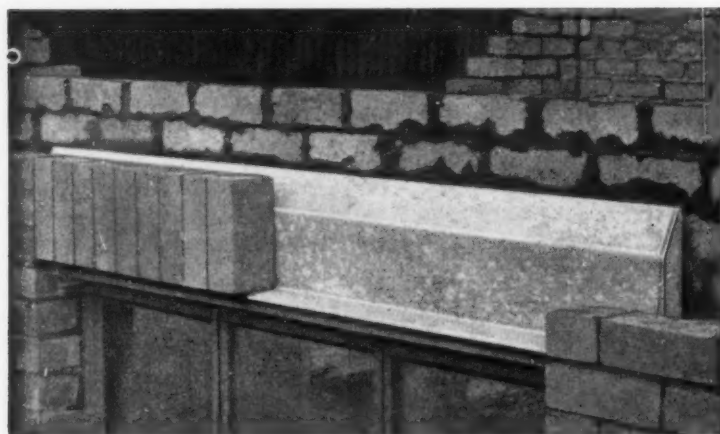
FOR ANY SIZE AND
KIND OF OPENING

*Send for illustrated literature
to DEPT. R1*



ROLLER SHUTTERS LTD

ANNE ROAD, HANDSWORTH, BIRMINGHAM 21. Telephone: SMethwick 2211 (6 lines)



THE DORMAN LONG LINTEL

*Combined Angle Arch
Support & Dampcourse Tray*

IN HOT-DIP GALVANIZED STEEL, FOR
USE AT THE HEADS OF OPENINGS
IN EXTERNAL CAVITY WALLS

Comes on site to required length ready to fix. Large saving in site labour costs. Cannot be damaged in cavity cleaning. The Dorman Long Lintel has only to be placed into position over the head of the opening and without delay the work carries on.

Prices and details from:
DORMAN LONG (Steel) LTD., Sheet Dept., Middlesbrough
or from district offices at London, Birmingham, Manchester,
Newcastle, Belfast, Glasgow.

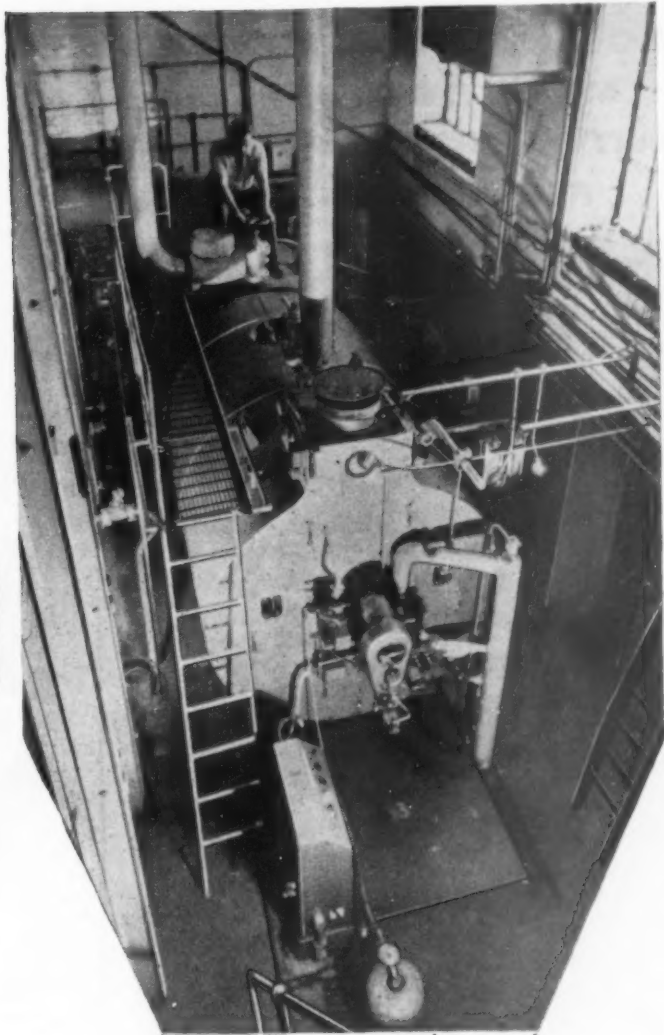
DORMAN LONG

Multipac

will

fit

into a very small place



Multipac is a compact unit needing only a small floor area. It is delivered ready steam tested in twenty sizes from 2,000 to 20,000 lb/hr. Multipac package boilers are now being chosen for hospitals, factories and public buildings, they have a high efficiency 82% due to rapid circulation.

The Multipac has a wet back combustion chamber and does not need refractory brickwork.

There is no need for constant supervision as the boiler is fitted with all the necessary safety devices and cut outs, in accordance with the latest Insurance requirements for an unattended package boiler.

Oil or coal, or oil/coal fired boilers are available. **Please write for our brochure on Multipac.**

JOHN THOMPSON (WILSON BOILERS) LTD • LILYBANK WORKS • LONDON ROAD • GLASGOW E.1

G1/35

FLOORS LOOK SMARTER, MORE COLOURFUL, WITH LORIVAL PLASTIC FLOORING STRIP



Lorival Plastic Flooring Strip gives colour and distinction to the plainest composition or terrazzo floors. It is flexible enough at normal room temperature to be used in a variety of attractive designs, but nevertheless it has sufficient firmness to be laid in straight lines without difficulty.

The flooring strip is available in a number of different sizes and shapes and in a choice of 12 colours (including black) to harmonize or contrast with any decorative floor.

Manufactured from high quality p.v.c., wearing uniformly with the surrounding flooring, it is not affected by cement or cold bitumen.

AVAILABLE IN THESE SECTIONS **H L T I**

Write for leaflet and name of nearest stockist

LORIVAL PLASTICS

UNITED EBONITE & LORIVAL LTD, LITTLE LEVER BOLTON, LANC



**A
SUPERB
VENEER**

is worth protection...

...that is why Gliksten Mark 12 doors are factory wrapped in stout paper and reach you in perfect condition

Give your buildings the extra refinement of

**GLIKSTEN MARK 12
veneer faced doors**

With carefully matched West African Cedar Veneers they are the pinnacle of door perfection.

**GLIKSTEN DOORS
LIMITED**

Carpenters Road, Stratford, London, E.15. Telephone: AMHerst 3300

87 Lord Street, Liverpool, 2. Telephone: Central 3441

112 Londesborough Street, Hull. Telephone: Hull Central 28716

SWEDISH PERSTORP DATA SHEET 5

CUBICLE PARTITIONING

often has to withstand very rough treatment due to water, wear, blows, etc. Swedish Perstorp provides an ideal answer.

The construction methods shown below are well proven and apply to toilets, showers, beauty salons, dressing rooms, etc., with only slight modifications. More and more schools, hospitals, institutions, department stores, mobile units are using these methods as standard practice.

CONSTRUCTION

Suitable metal mountings (detail 1, Fig. 2) or battens are fixed to floor and walls. The dividing partitions are built up with blockboard core ($1\frac{1}{8}$ "") faced both sides with Perstorp and edged where necessary. These are fitted in the grooves and screwed to mountings. Front walls can be made with a $\frac{3}{4}$ " blockboard core. Doors are best made with $1\frac{1}{8}$ " blockboard core with a hardwood edge suitably chamfered. Fig. 4 shows a typical constructional detail.

TYPICAL METHODS

Fig. 1.

Shower cubicles.

Fig. 2.

Cross section through AA on Fig. 1.

Fig. 3.

Toilet cubicles.

Fig. 4.

Typical construction detail showing fixing to wall, make-up of partition, door arrangement, etc.

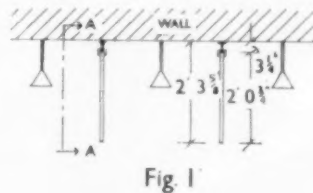


Fig. 1

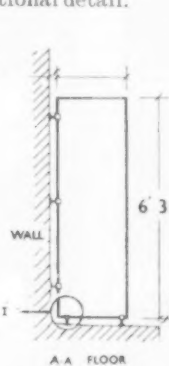


Fig. 2

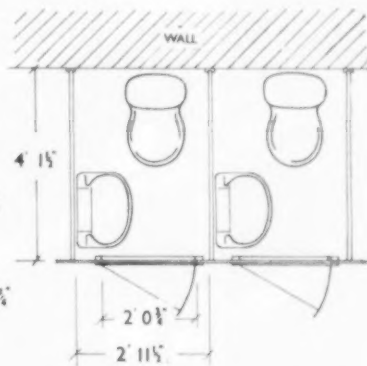


Fig. 3

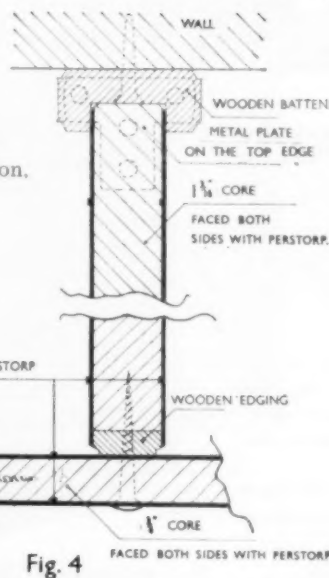


Fig. 4

CUT OUT THIS PAGE AND PLACE IT ON FILE

Complete sets of the Data Sheets are available from your nearest Perstorp Distributor



PERSTORP DISTRIBUTORS

London & Home Counties

C. F. Anderson & Son Ltd.,
Harris Wharf, Graham Street,
London, N.1.
Geo. E. Gray (Plastics) Ltd.,
Joinant House, Eastern Avenue,
Ilford, Essex.
Heaton Tabb & Co. Ltd.,
Cobbold Road, N.W.10.

West Country & South Wales

Channel Plastics Ltd.,
Flowers Hill,
Brislington, Bristol 4.

Midlands Area & East Anglia

Rudders & Paynes Ltd.,
Chester Street,
Aston, Birmingham, 6.

N. E. England

A. J. Wares Ltd.,
King Street, South Shields.

N. W. England & North Wales

Heaton Tabb & Co. Ltd.,
55, Bold Street, Liverpool 1.

Scotland

G. & R. (Boards & Plastics) Ltd.,
Rivalsgreen Works,
Linnithgow, West Lothian.

N. Ireland

John McNeill Ltd.,
109 Corporation Street, Belfast.

revolutionary new method of air conditioning



***for 1 room or every room
in the building
—at lower cost***

Put one new TEMKON, floor-mounted, room air conditioner, in every room in the building, and the cost will still be 30% to 50% less than a central station plant. Running costs are lower because each conditioner is used individually as and when required, making the installation wholly flexible.

The appearance of the conditioner is attractive. Their slim-line construction and duo-tone finish ensure that they blend with any office decor — and this unit heats as well.

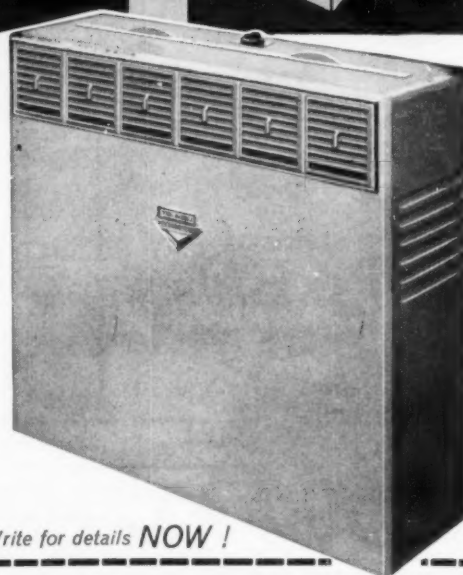
And it's the World's quietest air conditioner

TEMKON

**FLOOR-MOUNTED,
ROOM AIR
CONDITIONER**

TEMPERATURE LIMITED BURLINGTON ROAD, LONDON S.W.6
Phone Renown 5813. Cables: Temtur London

Makers of the World's quietest room air conditioner.



Write for details NOW !

Please send details of the new TEMKON floor-mounted room air conditioner.

NAME _____
POSITION _____
COMPANY _____
ADDRESS _____

P5832/K



Fifty-nine ft. plywood web portals for offices of Salem Engineering Co. Ltd., Milford, Derbyshire. Designed by D. W. Cooper, B.Sc., A.M.I.Struct.E., F.Inst.W.Sc. Fabricated by F. and H. Sutcliffe Limited.

SEABOARD FIR PLYWOOD...IN ACTION

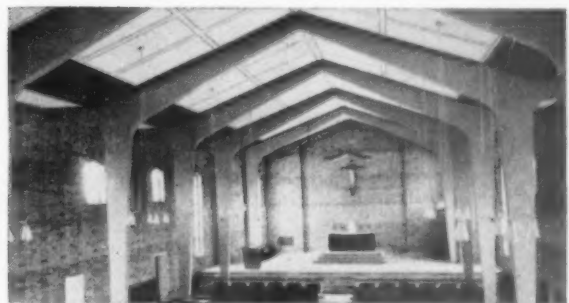


Church of the Sacred Heart, Rochdale, Lancashire. Cantilever arm portals fabricated by F. and H. Sutcliffe Limited.

From the largest hollow box plywood portals ever fabricated in the United Kingdom to cantilevered arm components for a modern English church, Canadian Fir Plywood sets the pace.

Seaboard Canadian fir plywood unites complete design flexibility with the economy of light-weight but immensely strong building units.

Investigate today. Mail coupon below.



N. R. M. Morison Esq.,
1-3 Regent Street, London S.W. 1

Please send me details of varieties and uses of Douglas Fir Plywood.

Name.....

Address.....

UK-61-43-1



SEABOARD

CANADIAN DOUGLAS FIR

PLYWOOD

SEABOARD LUMBER SALES CO. LTD., Seaboard House, Vancouver 1, Canada



We're your Man Friday

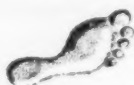
... WHEN IT COMES TO FINDING THE RIGHT CONTACT BONDING ADHESIVE

How much do you expect of an all-purpose contact adhesive? Apart from its effectiveness in fixing laminated sheeting and hardboard, etc., don't you want it to be used on the site without complicated cramping? Don't you want it to provide permanent adhesion once the two surfaces are joined? To be used anywhere, in all types of building, for kitchen fittings, shop counters, bathroom units, and built-in furniture? Of course you do. And that's why bearing you in mind, 'Bostik' Research

has come up with 'Bostik' Contact Bonding Adhesive.

One last word about 'Bostik' Research: If you've any problem to do with sealing or bonding building materials, don't hesitate to get in touch with us. It's our job. We may have solved your problem already. And if we haven't, we'll get down to it right away.

Write to 'Bostik' Building Advisory Department,
B.B. Chemical Co. Ltd., Leicester.



ALWAYS ONE USEFUL STEP AHEAD

Bostik

The word 'BOSTIK' is a trademark registered in the United Kingdom and many other countries
Manufactured by B.B. Chemical Co. Ltd. (The 'Bostik' People), Leicester, England



Crown 75
was too good...
it earned us a black mark.

The demand for Crown 75 surprised even us:—and our trouble has been to keep pace with it. As a result we have got black marks for delivery. That phase is now over. We began making Crown 75 two years ago on one plant; a year ago we got a second into production; we now have three. Now, we can keep pace and can offer short deliveries. In fact, we are ready to deliver Crown 75 when you want it, where you want it and in any quantity you ask for. So you, the architect can specify Crown 75 with certainty of not having to accept 'or equal'—for there is none.

Builders will save on costs since Crown 75 can now be delivered to the site precisely when it is needed.

FIBREGLASS  **CROWN 75**

For all STRUCTURAL INSULATION

FIBREGLASS LTD · ST. HELENS · LANCs · TEL: ST. HELENS 4022

**“Ain’t there
enough to
see inside
the park?”**

“Oh, yes mister. But what I’m
looking at’s important!”

“Can’t be any more important
than my trees.”

“But it’s Boots’. They’re
building our new school. It’s
going to be smashing —
’specially the gym! My teacher
says we’re lucky to have
Boots building it because
they’re so ex—expeer—because
they’re so good at it.
He says Boots build all sorts
of other things too, like
roads and houses and factories.”

“They can’t build
trees! Come on down before
you break a branch.”



HENRY BOOT



HOUSING ESTATES • RAILWAYS • WATER DISTRIBUTION SCHEMES
ROADS • SOIL STABILISATION • BUILDING PROJECTS OF EVERY DESCRIPTION

HENRY BOOT & SONS LTD., BANNER CROSS HALL, SHEFFIELD 11. Tel 54331
Offices also at: Birmingham, Glasgow, Liverpool, London and Manchester

OA/5340



Your Safeguard . . .

Defending all that is good, the Association of Steel Conduit Manufacturers guarantees the true and dependable quality of their conduit.

Insist on A.S.C.M. marked conduit before you buy. It is a familiar sign in the industry . . . and your guarantee of proven and absolute reliability.

A.S.C.M. MEMBERS

General Electric Co. Ltd.
Incorporating:
The Oriental Tube Co. Ltd.
Metallic Seamless Tube Co. Ltd.
Monmore Tubes Ltd.
Simplex Electric Co. Ltd.
Incorporating:
Credenda Conduits Co. Ltd.
Simplex Conduits Ltd.
Stella Conduit Co. Ltd.
Walsall Conduits Ltd.
Electrical Conduits Ltd.
Hildick & Hildick

THE ASSOCIATION OF STEEL CONDUIT MANUFACTURERS
96 Hagley Road, Birmingham, 16

NEW SCOPE IN LAMINATED PLASTICS

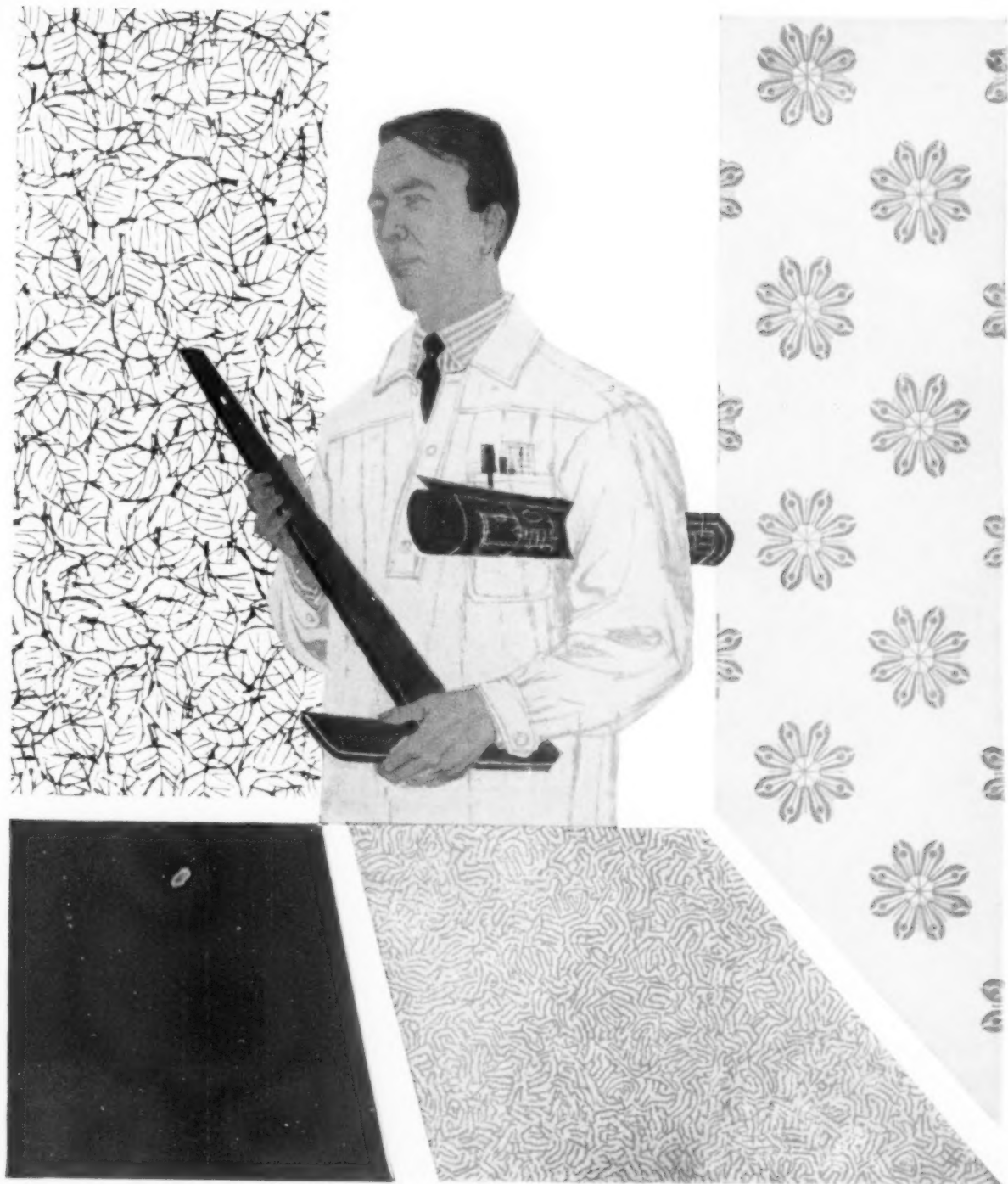
30 new^{*} choices from Decorplast

These
are a sample of
the magnificent
new range from
Decorplast...



Now Decorplast brings you brand-new designs in a wide choice of colours—plus many other existing patterns. The whole range of tough easy-to-clean Decorplast offers you new scope in colour-planning effects—Subtle, Lively or Bold. Because of these colour advantages, and because every pattern is always available from stock, Decorplast is increasingly preferred. Write to the address opposite for colour chart and list of suppliers.

* The *complete* Decorplast range now offers *fifty-six* different choices, including wood grains that really look like wood!



DECORPLAST

LAMINATED PLASTIC

Reed

Decorplast Sales Office, 2 Carton Street, London S.W.1. Telephone: Abbey 4866

New types, new designs The new extended range of "Insulight"
Hollow Glass Blocks provides all the elements for an unlimited
variety of design patterns—this "Boomerang" type is only one
example—while retaining all the functional advantages.

For full details of the complete new range write to the
Technical Sales and Service Department.

PILKINGTON BROTHERS LIMITED

St. Helens, Lancashire. London Office: Selwyn House,
Cleveland Row, St. James's, S.W.1. Supplies are
available through the usual trade channels.

**Registered*



LIGHT
AND
PRIVACY

with Pilkingtons' 'Insulight' hollow glass blocks



E.J.M.A. PLANS TO HELP YOU

The modern housewife demands that her kitchen shall be pleasant and easy to work in and easy to keep clean. To help architects and builders meet these needs economically The English Joinery Manufacturers' Association makes available the finest range of contemporary built-in kitchen units. These are the result of considerable research by home-planning experts and will be found to fit into practically any size and shape of kitchen.

The units are of controlled dimensions and designed to fit together in numerous combinations. They are strongly built of good quality woods and finished for painting. The illustration exemplifies the planning possibilities of these "EJMA" units which are readily available from "EJMA" licensed producers. A list of suppliers, together with specifications and information sheets giving full details and suggested arrangements will gladly be sent on request.

Take the first step towards more practical and profitable planning and fitting by writing to the E.J.M.A. now.



The Association's membership includes firms making standard joinery and joinery to Architects' special requirements.



SPECIFY BRITISH MADE JOINERY & WOODWORK

The English Joinery Manufacturers' Association (Incorporated), Sackville House, 40 Piccadilly, London, W.1. Tel: REGent 4448/9
(with which is associated the Scottish Joinery and Door Manufacturers' Association)

New types, new designs The new extended range of "Insulight"[®] Hollow Glass Blocks provides all the elements for an unlimited variety of design patterns—this "Boomerang" type is only one example—while retaining all the functional advantages. For full details of the complete new range write to the Technical Sales and Service Department.

PILKINGTON BROTHERS LIMITED

St. Helens, Lancashire. London Office: Selwyn House,
Cleveland Row, St. James's, S.W.1. Supplies are
available through the usual trade channels.

[®]Registered



LIGHT
AND
PRIVACY

with Pilkingtons' 'Insulight' hollow glass blocks



E.J.M.A. PLANS TO HELP YOU

The modern housewife demands that her kitchen shall be pleasant and easy to work in and easy to keep clean. To help architects and builders meet these needs economically The English Joinery Manufacturers' Association makes available the finest range of contemporary built-in kitchen units. These are the result of considerable research by home-planning experts and will be found to fit into practically any size and shape of kitchen.

The units are of controlled dimensions and designed to fit together in numerous combinations. They are strongly built of good quality woods and finished for painting. The illustration exemplifies the planning possibilities of these "EJMA" units which are readily available from "EJMA" licensed producers. A list of suppliers, together with specifications and information sheets giving full details and suggested arrangements will gladly be sent on request.

Take the first step towards more practical and profitable planning and fitting by writing to the E.J.M.A. now.



The Association's membership includes firms making standard joinery and joinery to Architects' special requirements.

SPECIFY BRITISH MADE JOINERY & WOODWORK

The English Joinery Manufacturers' Association (Incorporated), Sackville House, 40 Piccadilly, London, W.1. Tel: REGent 4448/9
(with which is associated the Scottish Joinery and Door Manufacturers' Association)



***W STANDS FOR SERVICE**

Alufloor tops the million mark!



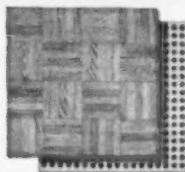
Right from the start, ever since it was first introduced in Britain only five years ago, Alufloor won instant acclaim. Both architects and builders readily recognised its new, unique and advanced features—particularly its precision prefabrication, factory sanding, freedom from experimental positioning and pinning, speed and ease in laying, unequalled percentage of quarter-sawn timber, guaranteed $\frac{3}{4}$ " wearing surface, perfect stability and its distinctive parquet-like appearance.

As year succeeded year, sales soared to unprecedented heights. In one year alone, more than 250,000 square yards were laid in Britain's new buildings—a fine achievement, judged by any standards. Yet another milestone was reached when Alufloor was selected for 2 of

the largest wood flooring contracts ever placed in this country—for 35,000 and 28,000 square yards.

And now, to crown all previous records, Alufloor sales have topped the million mark—undeniable proof of its excellence, its value, its fitness of purpose and its vast popularity among architects and builders alike.

Alufloor can be produced from any hardwood to architects' specification. (British Patent No: 746791)



IMPORTANT—

Remember, there are no substitutes for Alufloor. Make sure you obtain genuine Alufloor by looking for the exclusive aluminium backing.

Write for illustrated brochure to the Sole Manufacturers for the United Kingdom:

CALDER'S (SOUTHERN) LTD	Plough Way, Bermondsey, London, S.E.16	Telephone BERmondsey 3535
CALDER'S (NORTHERN) LTD	Biddick Lane, Washington, Co. Durham	Telephone Washington 2321

Members of the Calders Group of Companies

AP 57



Judge the efficiency of hot water systems by the satisfaction or otherwise of the people who have to live with them. Ask any tenant of a Sadia equipped house or flat—you always get the same contented answers. Hot water by Sadia means no dirt, no work, negligible maintenance, and utter reliability—all at lowest running cost.

To the architect, hot water by Sadia means far easier planning and installation. Sadia water heaters—the range extends from 2.2 gallon sink units to 120 gallon industrial models—do not have to be located on outside walls. No flues, boilers or fuel stores. Pipe work is reduced to a minimum. Sadia is simplicity itself.

SADIA

HOT WATER BY ELECTRICITY

IN LOCAL AUTHORITY BUILDING

Aldas Electric Ltd., Sadia Works, Rowdell Road, Northolt, Middlesex
SPECIALISTS IN HOT WATER BY ELECTRICITY SINCE 1923

Wherever you go you see our railings



BAYLISS, JONES & BAYLISS LIMITED



HEAD OFFICE: VICTORIA WORKS, WOLVERHAMPTON. TELEPHONE:
WOLVERHAMPTON 20441. LONDON OFFICE: GKN HOUSE, 22 KINGSWAY,
LONDON, W.C.2. TELEPHONE: CHANCERY 1616



A COAT OF

STONE.

■ ■ Beautifies and Protects New Buildings
and Creates New Buildings from Old

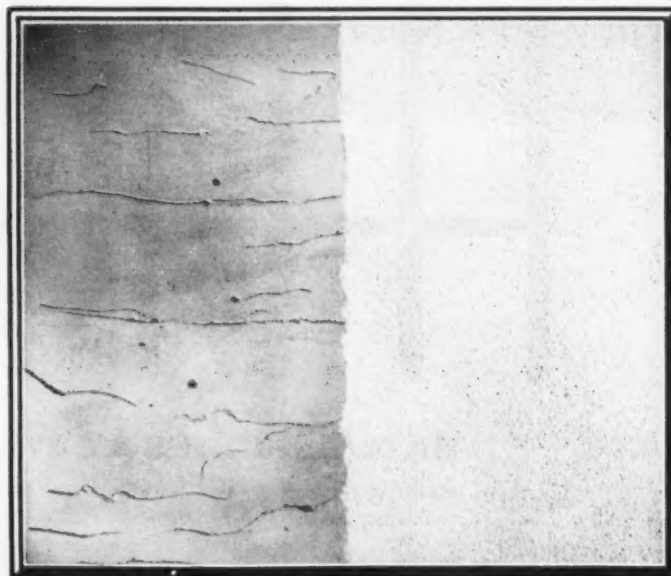
SILEXINE is ideal for Stucco, Cement, Brickwork, etc. on the exterior of buildings giving a * water repellent, durable textured finish with CHARACTER and EYE APPEAL.

SILEXINE hides imperfections and flaws, disguises pointing, improves bad or cracked rendering and is water repellent.

Available in 13 permanent colours.

* Building Research Report available on application.

Below: 2 coats of Silexine on cracked rendering



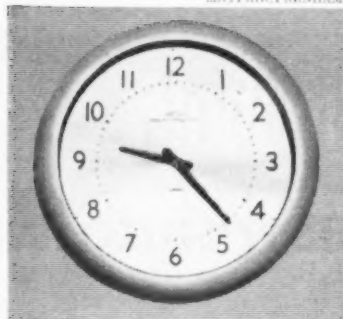
SILEXINE
STONE
PAINT

Full details, shade card and applied sample
on request to the sole manufacturers

DENTON EDWARDS PAINTS LTD.

Abbey Road, Barking, Essex. R1Ppleway 3871

MAYFAIR/FARNHAM



A certain style

MEDWAY/FIFE



DOUBLE SIDED



FALCON



MOSTYN/FLECK



MELTON/FLEET

FULMAR



—a style for every setting in every type of building.

All the interior wall clocks in the wide E.C.S. Range (a selection of which are shown) have been accepted by The Council of Industrial Design for Design Index.

They are made in a number of sizes for operation from A.C. mains or from the E.C.S. Master Clock as part of a controlled time system.

For full details of the complete range write:

English Clock Systems

179-185 GREAT PORTLAND STREET
LONDON W1 TELEPHONE LANGHAM 7226

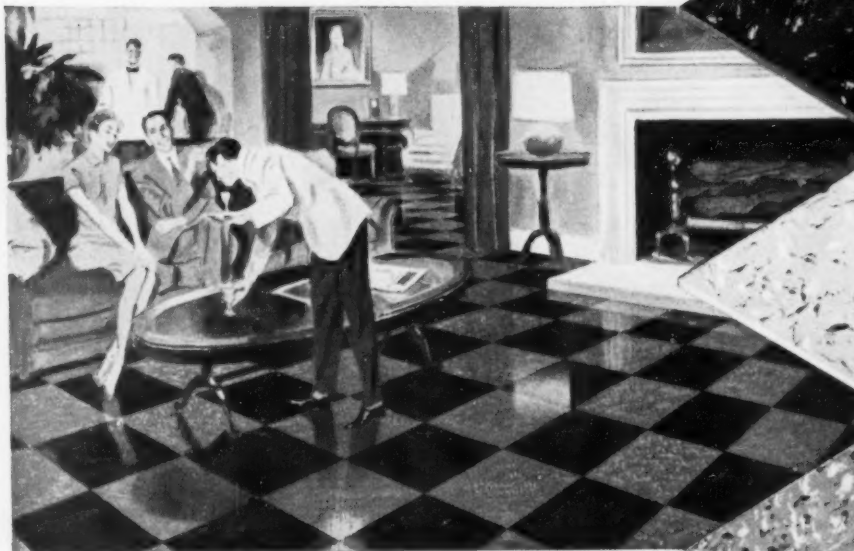
Branch Offices:

BIRMINGHAM MANCHESTER LEEDS GLASGOW BELFAST

A branch of the Clock
and Watch Division of

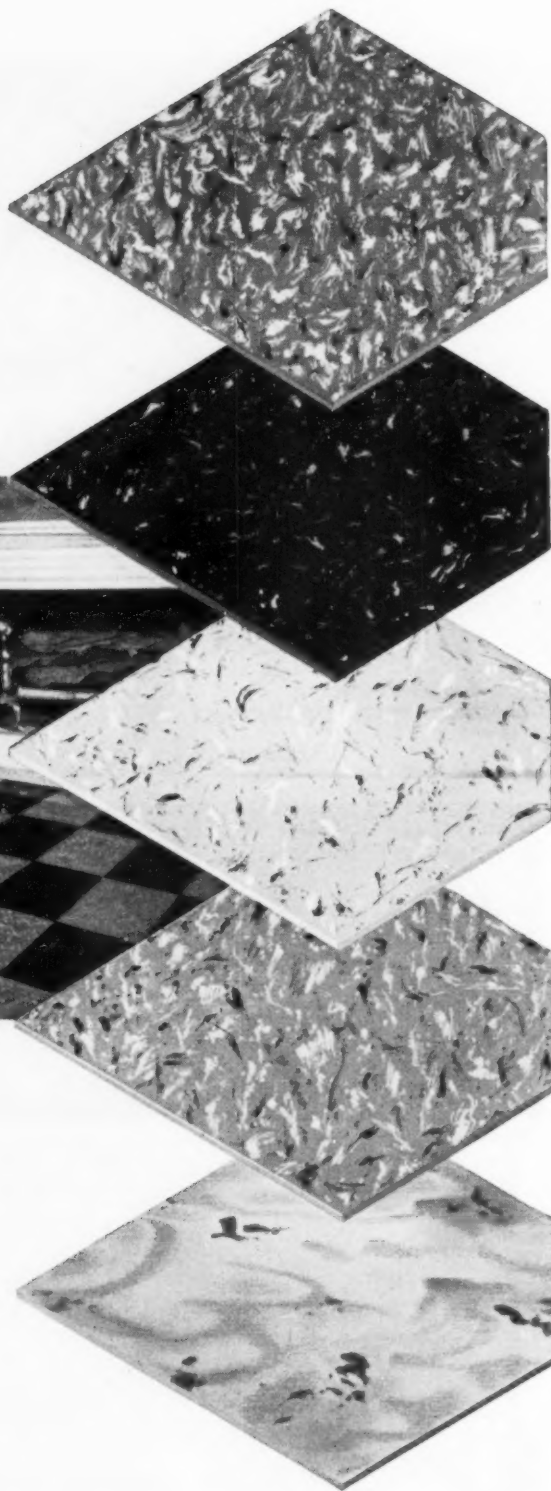
SMITHS

Now— vinyl floor tiles by Goodyear



No more waxing. No more heavy scrubbing. Goodyear introduces two new ranges of quality vinyl tiles for decorative, durable, economical floors. NO SCRUB is for normal wear; SUPREME a heavier grade for the toughest conditions. They resist all normal flooring hazards—scuffing, grease, dirt, food stains, dilute acids, alcohol—and will not warp, swell or rot. They are cut with ordinary scissors and curved easily to sharp radii. A wet mop keeps them sparkling clean. Available as 9" x 9" tiles in an array of sealed-in terrazo, wood-grain, Cork and Romance patterns. The cost? Amazingly low.

GOODYEAR



HAVE YOUR SECRETARY POST THIS COUPON
To: Goodyear Tyre & Rubber Co. (G.B.) Ltd., Wolverhampton

Please send Booklet AJ8 describing
NO SCRUB & SUPREME Vinyl Tiles.

Name

Company

Address

Styled for the modern home

a revolutionary

NEW

**Central Heating
Regulator
by HATTERSLEY**



Smart and stylish, as modern as the moment, this new Hattersley Regulator is the perfect choice for contemporary installations up to 200°F. and 100ft. head. The entirely new "Switch-on" fingertip adjustment automatically regulates the radiator heat output. A quarter turn of the ivory coloured heat-resisting control head permits a range of adjustment from fully open to fully closed, whilst the grey indicator plate shows the exact setting at a glance. The complementary ivory and grey of the head and indicator harmonise perfectly with any decor.

An important feature of the Regulator is its extremely low resistance to flow. It can be used on any part of a domestic heating system and no other type of control valve is necessary. The Regulator is precision engineered with a cast gun metal body. Wheel and Lockshield patterns in Standard and Chromium Plated finish are available with connections for either Iron or Copper Pipes.



**Fingertip control for
at-a-glance setting**

AN ATTRACTIVE VALVE AT AN ATTRACTIVE PRICE

Please write for details to the sole manufacturers.

HATTERSLEY

ESTABLISHED 1897



the name for good valves

HATTERSLEY (ORMSKIRK) LIMITED • ORMSKIRK • LANCASHIRE
and at HALIFAX and LONDON

HL10



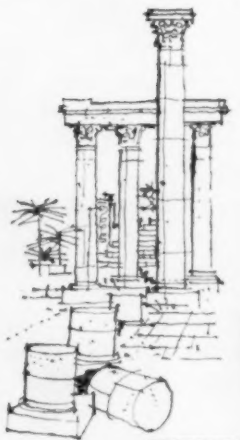
when are two heads better than one . . . ?

Uncovered after more than 4,500 years, these two survivors bear witness to an age and culture far removed from our own.

And yet their very substance provides proof of the incredible lasting properties of copper and bitumen combined, that carries a message to the planners and builders of today.

The same weathering and rust-resistant values of copper and native bitumen—now derived from Trinidad Lake Asphalt—can again be relied upon in COPPERTRINDA...the finest handmade dampcourse in the modern world.

Lions' heads made of beaten copper over a bitumen core—relics of a Sumerian Temple dated approximately 2600 B.C. Reproduced here by courtesy of the British Museum.



coppertrinda dampcourse

A sample of COPPERTRINDA Dampcourse is immediately available, on request, to

ENGERT & ROLFE LTD
Barchester Street • London • E14



Will ENGERT & ROLFE LTD., please supply a sample of COPPERTRINDA Dampcourse to:

M _____
(Designation) _____
of _____
Address _____

A.J. 14

RIMINI LIGHTING FITTINGS BY FALKS

91 Farringdon Road, London, E.C.1. HOLborn 7654. London Showrooms: 20/22 Mount Street, Park Lane, W.1. MAYfair 5671/2

From The Expanded Metal Company comes a significant advance in partitioning



As important as the system itself—the swift, complete Permalock Service

At your request a Technical Representative calls to explain the system—tells you about fire ratings, sound reduction, choice of panel boards, doors and windows—guides you on price—notes all your requirements. A firm quotation will quickly follow . . . with a designed layout if required. Work can begin at short notice . . . standard parts are supplied from stock and erected by our installation crews. In a surprisingly short time—panelling and glazing are under way.

** You are dealing with one company
from start to finish . . . guaranteed
materials and guaranteed service . . .
at reasonable cost.*

Patents pending



permalock
IS A PRODUCT OF THE EXPANDED METAL COMPANY LIMITED

... the new **X**permalock system



THE PERMALOCK SYSTEM IS DESIGNED TO...

1 Sell at a price uncommon to quality partitioning.

2 Reduce site labour to an absolute minimum—to keep down installation costs and to cause minimum disturbance.

3 Use mass produced factory components of guaranteed quality and

accuracy—to assemble into a light-weight steel framework—quickly.

4 Be versatile. To allow for a variety of panelboards to fix to the steel framework. Plasterboard or Chipboard, veneered, plastic-faced or painted. THE CHOICE IS YOURS!

5 Be installed at short notice—without the need for any detailed drawings and to fit varied dimensions.

6 Be in keeping with surroundings, contemporary or traditional — new building or conversion.

PERMALOCK PARTITIONING — DURABLE, DEMOUNTABLE

... phone PERMALOCK centres at:

LONDON	ABBeY 7766	CARDIFF	33757	MANCHESTER	Central 9855
ABERDEEN	51862	GLASGOW	Possil 8597	NEWCASTLE	810308
BIRMINGHAM	East 3791	LEEDS	25343	NOTTINGHAM	42897
BRISTOL	292451				

OR WRITE TO:

THE EXPANDED METAL COMPANY LIMITED
16 CAXTON STREET · LONDON · S.W.1



DESIGN *for efficiency* ...

A NEW SERVICE FOR ARCHITECTS & DESIGNERS

In any office building the work to be carried on within its walls must, of necessity, make certain demands on the design and furnishings, just as it does in a factory. The question therefore arises as to whether you as an architect or designer can appreciate those demands and satisfy them. In other words can you marry the aesthetics of design with scientific office planning? We have studied this problem for years. Indeed, in our '846' functional furniture we have successfully combined the dictates of function based on Time and Motion Study with the aesthetics of pleasing and colourful design. Our new full-colour publication will show you this. Moreover, it will give you a few of the basic facts of scientific office planning. Later, when you are confronted with a problem of this nature, a Shannon consultant is at your service to advise you more fully and without charge on the technical aspects of planning offices for complete functional efficiency.

... with '846' unit furniture

by

Shannon Systems

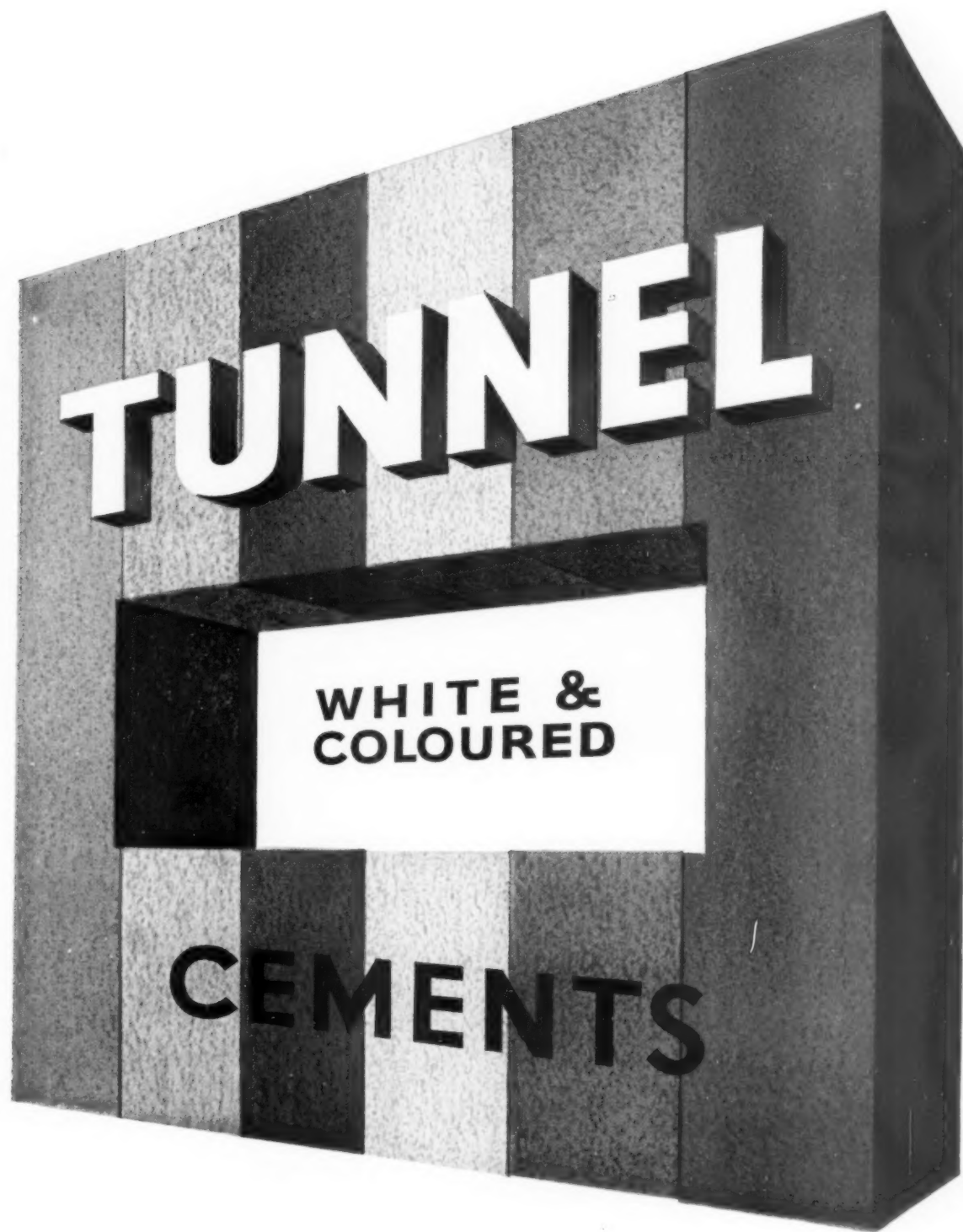
Trade Mark Shannon

THE SHANNON LIMITED

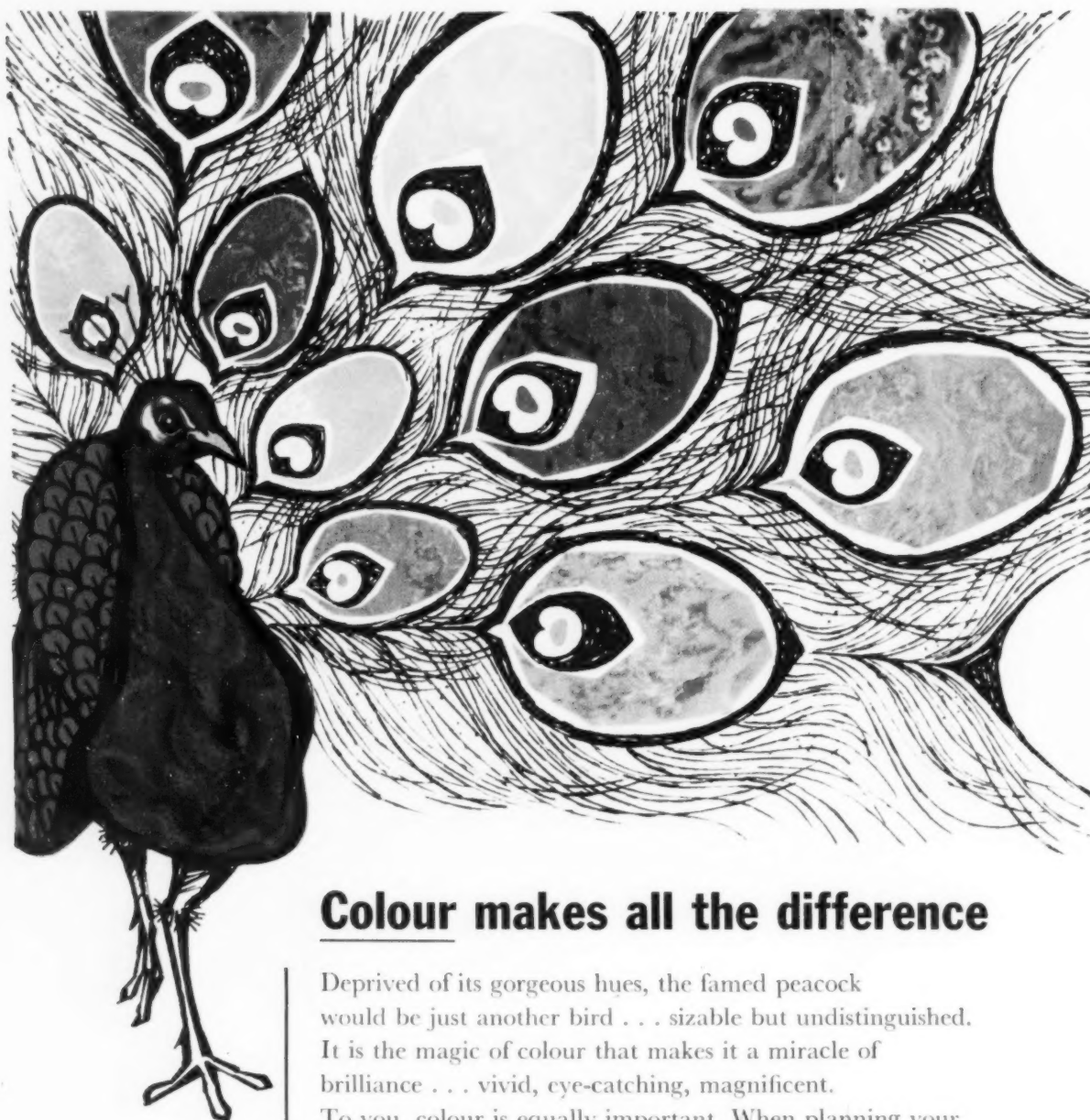
71 SHANNON CORNER

NEW MALDEN

SURREY



THE TUNNEL PORTLAND CEMENT COMPANY LIMITED · 105 Piccadilly, London W.1. GROSVENOR 4100
CVS-37



Colour makes all the difference

Deprived of its gorgeous hues, the famed peacock would be just another bird . . . sizable but undistinguished. It is the magic of colour that makes it a miracle of brilliance . . . vivid, eye-catching, magnificent. To you, colour is equally important. When planning your next scheme, draw freely on the extensive Ruboleum range of plain and marbled varieties. Transform your dormant ideas into subdued or dramatic reality. Choose Ruboleum — the acknowledged aristocrat of all floor coverings — and make certain of the additional advantages of economy, durability, resilience, quietness and easy cleaning.

*Simplify colour selection—
send for a free copy of Barry's
latest Sample Book. Ruboleum
is obtainable in 3 gauges—
6.7 mm, 4.5 mm and 3.20 mm.*

BARRY'S

LINOLEUM

BARRY, OSTLER & SHEPHERD LTD., KIRKCALDY, SCOTLAND. *A member of the Barry and Staines Group*

AP42



10,000 BLACKPOOL SUPPORTERS ARE PROTECTED BY 3,000 SQ. YDS. OF



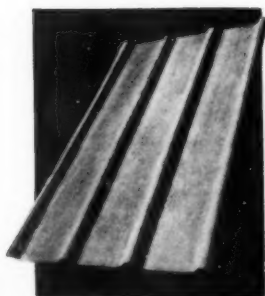
"TURNALL" ASBESTOS-CEMENT TRAFFORD TILES



Come rain, hail or shine Blackpool F.C. supporters roll up in their thousands and now two-thirds of the standing spectators are accommodated under this new cover at the north end of the ground. Popularly known as "Spion Kop," the cover is roofed with natural grey "TURNALL" asbestos-cement Trafford Tiles, chosen for their attractive appearance and hard wearing qualities. An immediate success when first produced by T.A.C. over 40 years ago, they are still in constant demand today by architects and builders everywhere.

If you do not already appreciate the qualities of "TURNALL" Trafford Tiles, Publication No. B.89 will bring you right up to date.

Illustration from a photograph by kind permission of the Chairman and Directors of Blackpool F.C. Ltd.
Architects: Mackie & Partners, F/L.R.I.B.A., Blackpool.
Roofing Contractors: Harry Jacks Ltd., Blackpool.

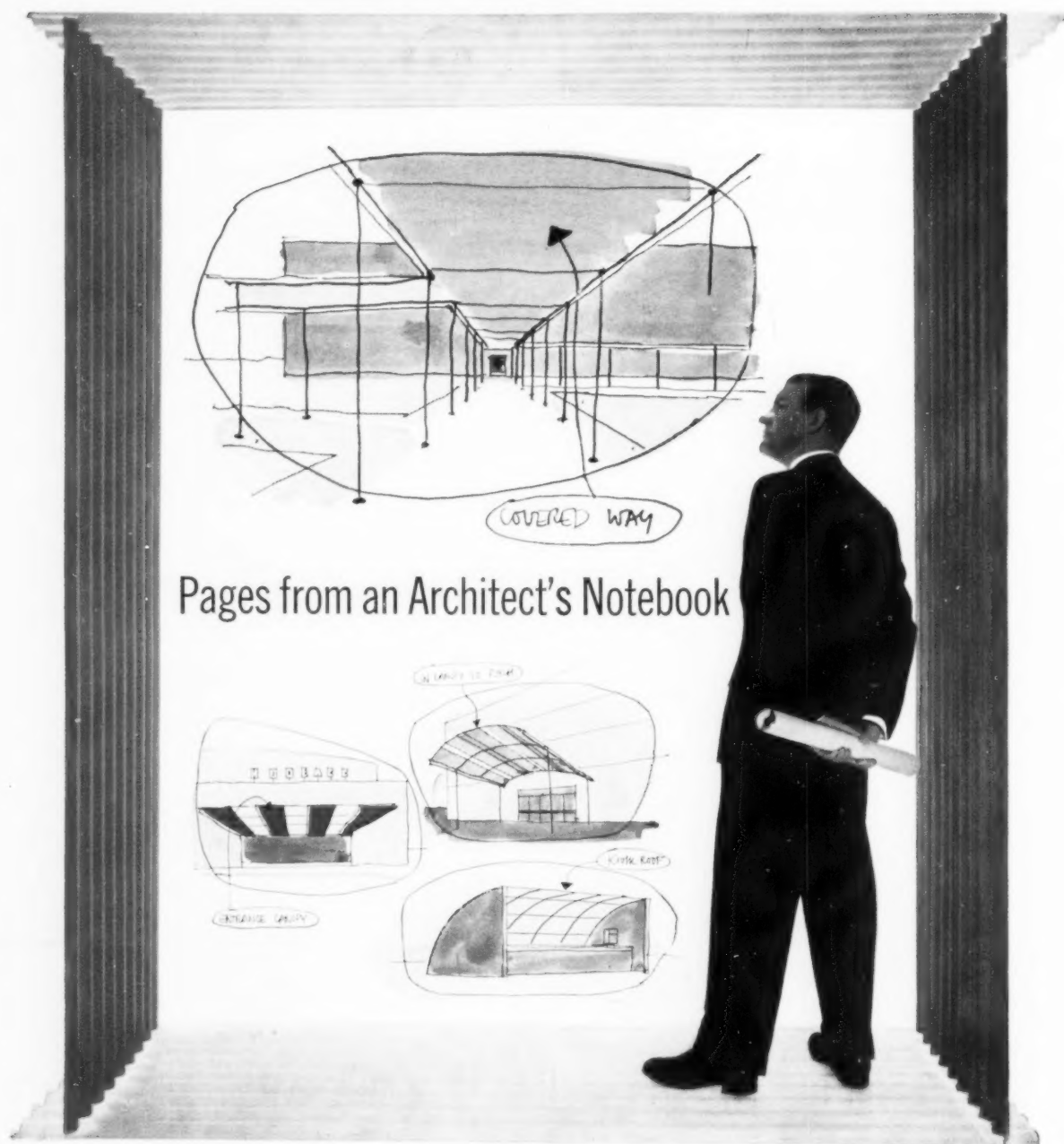


TURNERS ASBESTOS CEMENT CO. LTD

A MEMBER OF THE **TURNER & NEWALL** ORGANISATION

TRAFFORD PARK · MANCHESTER · Telephone: TRAFFORD PARK 2181

LONDON: Tel: WATERLOO 4712 and at Birmingham · Bristol · Cardiff and Glasgow



Pages from an Architect's Notebook

1 Shelter out-of-doors

When a structure must provide light as well as shelter, FILON is today's material. Strong, lightweight, resilient, shatterproof, it transmits up to 85% of light. Available in all standard profiles to match corrugated iron, aluminium and asbestos; also special decorative profiles and flat sheeting. Good range of General Purpose

and Self Extinguishing grades and colours. Easily and cheaply erected on the lightest of supports, doesn't warp or corrode in any weather—and you can forget about maintenance.

FILON is approved by the Admiralty, Air Ministry, War Office, L.C.C., J.F.R.O.

strong

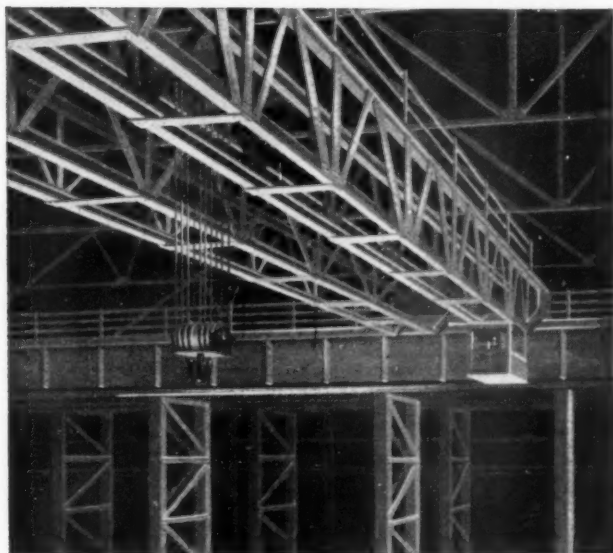
translucent

FILON

STRUCTURAL SHEETING

B.I.P. REINFORCED PRODUCTS LIMITED Streetly Works · Sutton Coldfield · Tel: Streetly 2411

Anti-Corrosive measures ?



Sometimes, iron and steelwork can be protected against corrosion before it is erected. At other times it is necessary to carry out this work in situ. Either way, the most effective and simplest measure is the use of METAGALV, Expandite's cold-galvanising process applied by brush. It may be used either as a primer or as a self-finish.

In addition, EXPAFLEX Chlorinated Rubber Coating (available in twenty colours), and GEWI* all-purpose protecta-tape, for protecting pipes, steelwork and machinery, are two other invaluable aids in the battle against rust.

Contact Expandite Limited, manufacturers of sealing and jointing compounds, on all matters relating to corrosion. We offer practical solutions in the form of effective products and sound advice (given without obligation) on anti-corrosive treatments, based on our many years of experience in this field.

* GEWI—manufactured under exclusive licence to
N. V. Technische Handelssonderneming J. V. Meijer-Soest, Holland.

**EXPANDITE
LIMITED**

CHASE ROAD, LONDON, N.W.10 Telephone: ELGar 4321 (10 lines) and
ELGar 1551 (10 lines) Telex: 25420

Trafford Park Road, Manchester, 17 Telephone: Trafford Park 1285 6
36 Great North Road, Newcastle-upon-Tyne, 2 Telephone: Newcastle 23992
Eire: EXPANDITE (IRELAND) LTD. Greenhills Road, Walkinstown, Dublin Telephone: 501512

ASSOCIATES AND DISTRIBUTORS THROUGHOUT THE WORLD

20,000 SQ. FT.

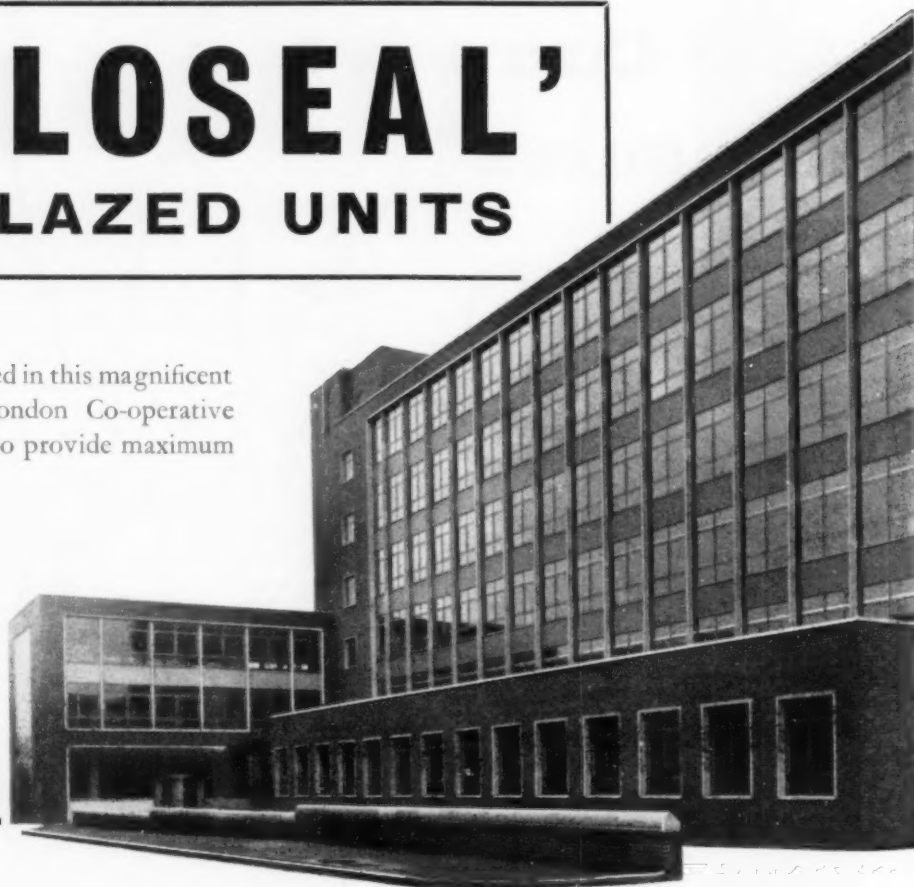
OF 'HOLLOSEAL' DUAL GLAZED UNITS

were specified and installed in this magnificent new office block for London Co-operative Society, Stratford, E.15 to provide maximum thermal insulation.

Architects:

C.W.S. W. J. Reed, F.R.I.B.A.
(ret'd.)
R. C. Steel, A.R.I.B.A.
(new chief)
F. P. Harrison, L.R.I.B.A.
(Sen. Architect in charge)

Contractors: A. E. Symes Ltd.



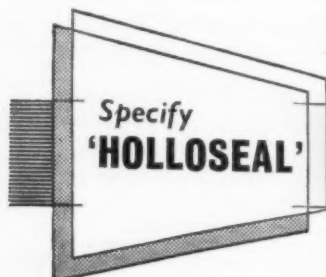
Once again showing a perfect example of the modern application of 'Holloseal' Dual Glazed Units, providing all the virtues necessary for quietness, elimination of down draughts, controlled temperatures, and natural light.

'Holloseal' the finest thermal insulated unit, first choice of Architects, Public Authorities, Commercial, Industrial and Estate Developers.

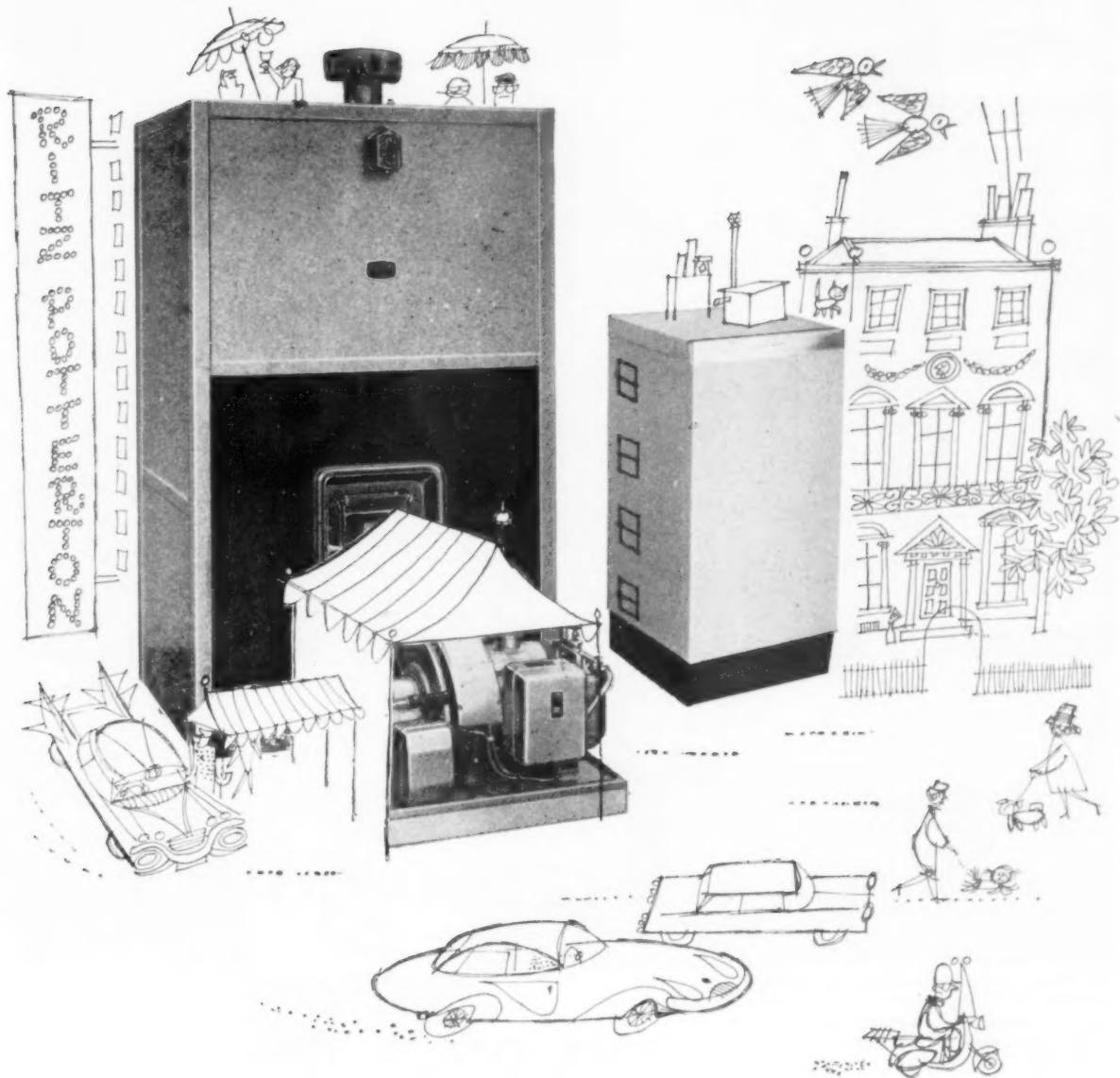
'Holloseal' Dual Glazed Units are available in $\frac{1}{2}$ ", $\frac{3}{4}$ " and $1\frac{1}{2}$ " cavity for standard metal and purpose made casements.



Write for fully descriptive technical literature, or seek information from our experienced advisory service.



THE HOLLOW SEAL GLASS CO. LTD.
THE GLASS WORKS, STAMFORD RD., LONDON, N.1. Telephone: CLIsold 1121 (PBX)



Potterton heats hotel or home handsomely

Potterton make boilers — oil-fired or gas-fired — rated from 31,000 to 2,000,000 B.th.u./hr. They are automatic, efficient, economical and purpose designed.

Potterton have been making boilers since the year dot. Very experienced people. Very reliable boilers. Pick Potterton. It pays.

Is your Potterton file up to date? For all the latest information by return post, just jot "boiler information, please" on your letterhead and send it to us.

Two Potterton FOA oil-fired boilers (outputs: 1,000,000 and 625,000 B.th.u./hr.) heat the Griffin Hotel, Leeds.

And domestic Pottertons — gas-fired Diplomat 44, supplied by Hall & Co. — heat forty-two new homes built by Cook (Brighton) Limited, just outside Hove.

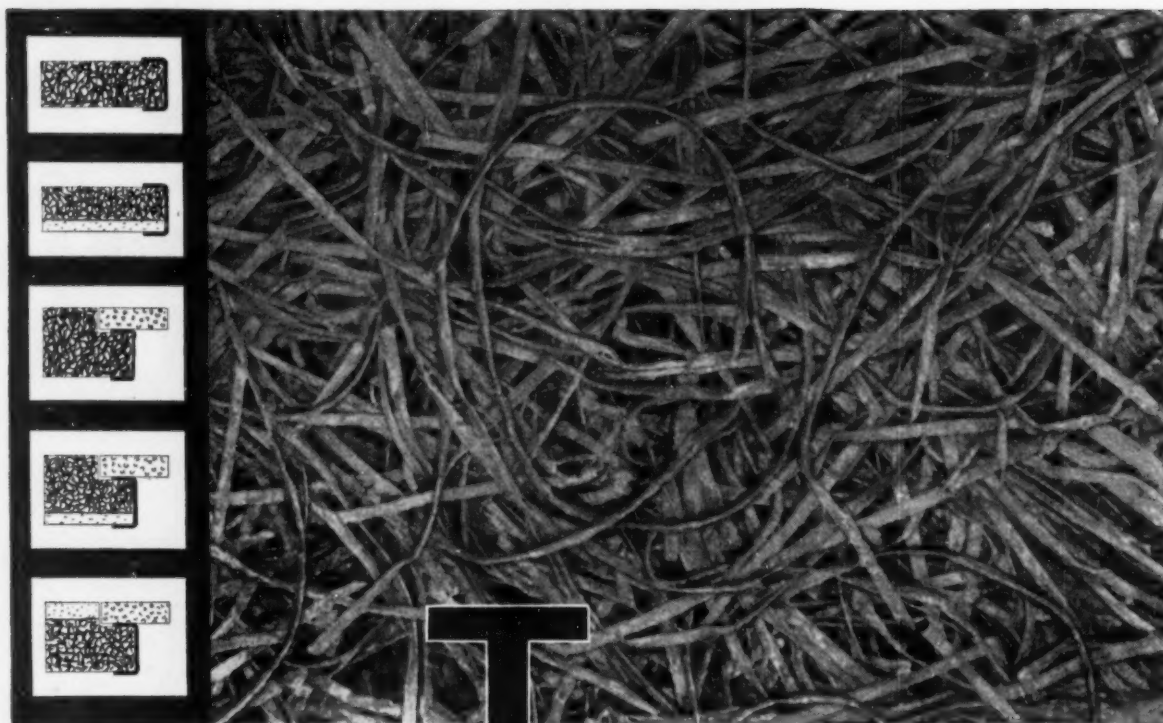
Potterton Boilers at the heart of efficient central heating — oil or gas

THOMAS POTTERTON LIMITED, DEPT. MM, 20-30 BUCKHOLD ROAD LONDON S.W.18. VANDYKE 7202.

Potterton is a registered trade mark.

A MEMBER OF THE DE LA RUE GROUP





*Reproduction of unretouched photograph actual size.
Small illustrations show some of the range.*

1 A faultless surface that requires no false ceiling. Can be directly spray-painted for special decorative effect.

2 100% consistent. Every slab is as good as the next, giving greater overall structural strength.

3 Rigorous quality control at every stage of manufacture and made from specially selected imported timber machined to very close tolerance in Thermacoust's own factories.

4 Many types—for high thermal insulation, sound absorption, fire resistance, and use in humid conditions. Plain, pre-plastered, pre-screeded (the latter saving weight and up to 14 days' time on site). Steel channel reinforced in spans of up to 8 feet.

5 Exclusive accessories to help the architect—including dome lights.

6 Prompt delivery—normally from stock—and the service of technical representatives who can save your time by preparing layout drawings and working out the details.

THE NAME THAT MAKES THE DIFFERENCE

THERMACOUST

WOOD WOOL ROOFING SLABS

Wood wool roofing slabs with all these advantages can only be obtained direct from Thermacoust Ltd.

Write for leaflets A.1 THERMACOUST LTD.

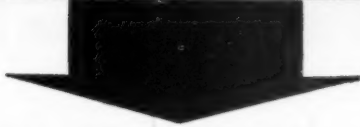
20 Albert Embankment, London, S.E.11. Telephone enquiries: Southern—ELMbridge 5773/4/5 Northern—Doncaster 54138 Ext. 25

A member of the Cementation Group of Companies


TA 5798



NEW CEMENTONE No 9



now goes 25% further...



and
is
easier
to
apply

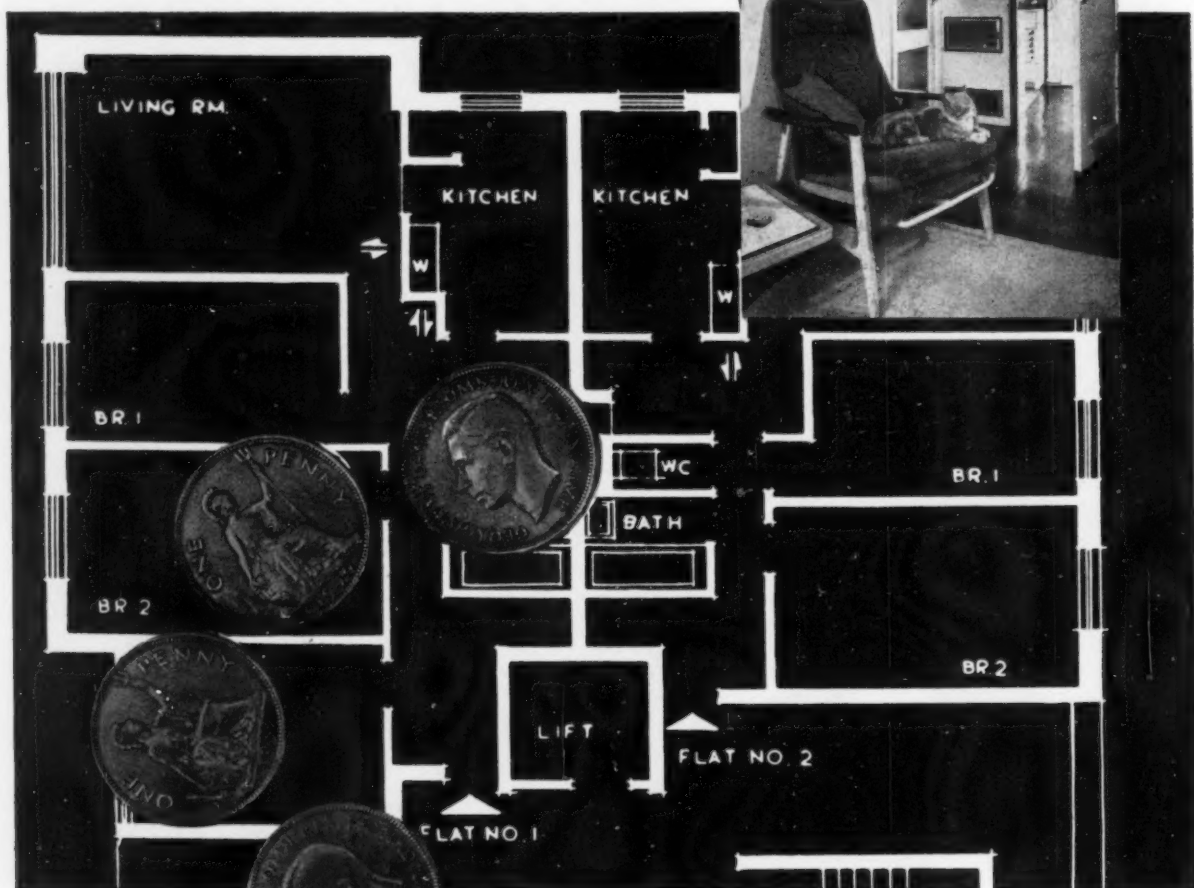
When you cost a job in future, remember that new Cementone No. 9 Waterproof Stoneface Composition will give you 25% more coverage. It is compounded from an indestructible aggregate and a special medium which gives a stone finish that is both waterproof and alkali resisting. No primer is necessary and there are 20 colours. New Cementone No. 9 is much easier and therefore faster to apply. The quality of course, is the same.

Cementone No. 9 WATERPROOF
STONEFACE
COMPOSITION

JOSEPH FREEMAN SONS & CO. LTD.

Cementone Works · London · S.W.18 · Telephone: VANDyke 2432 (10 lines)

WEATHERFOIL METERED HEAT...



...heats an average flat
for as little as
ONE SHILLING A DAY
inclusive of capital costs

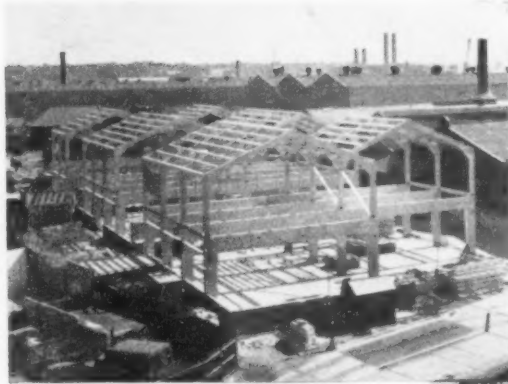
Now being installed in multi-storey flats
and maisonettes up and down the country.
Write for full details of

WEATHERFOIL Metered Heat

WEATHERFOIL LIMITED Head Office: 185 BATH ROAD • SLOUGH • BUCKINGHAMSHIRE • TELEPHONE: SLOUGH 23871

And Broadgate House • Coventry • Warwickshire • Telephone: Coventry 40116

PRECAST



Precast RC framework in process of erection



Completed Building

STRUCTURAL CONCRETE INDUSTRIAL BUILDINGS

Designed, Supplied & Erected, Roof Cladding, Site Works, etc.

Your enquiries are welcomed.

Our comprehensive service covers complete structural design and detailing and is readily available to Architects, Surveyors and Engineers.



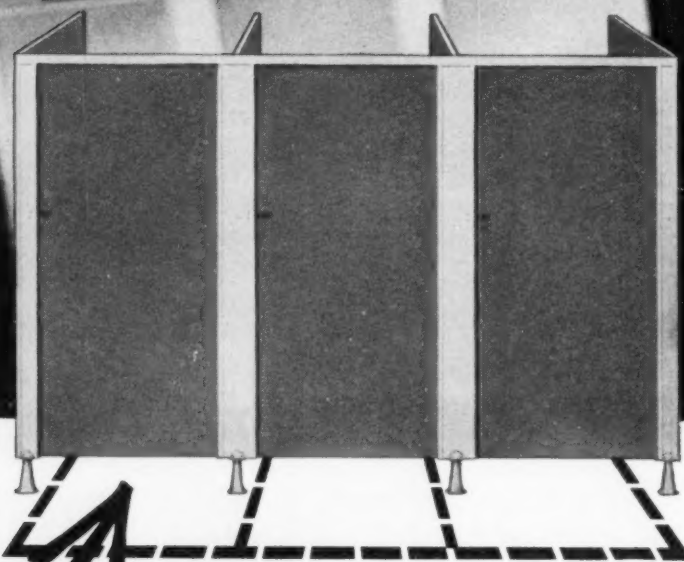
PRECAST UTILITIES (LONDON) LTD.

CONDUIT LANE, HODDESDON, HERTS.

Telephone: Hoddesdon 2247, 2248 and 4792.

London Office: 55 Gordon Square, W.C.1 Telephone: MUSeum 8784/85

**OFF
THE
SHELF
SERVICE**



despatched in 14 days from receipt of order and site sizes

PLYMAX

QD

Quick Delivery

**WC
COMPARTMENTS**

Plymax "QD" Compartments are of the proven quality and design of Plymax Type "G" W.C. Compartments which architects have widely specified with great saving of time for the past eight years—but there is a difference. We will guarantee despatch within 14 days from receipt of order and site sizes if you will accept the standard specification. They arrive pre-fabricated ready for immediate erection and for fixing to a plain wall by secret cleats. Ask us to send you full details.

STANDARD SPECIFICATION

Material: 1" chipboard covered two sides with aluminium or galvanised steel.

Size: 5 ft. from front to rear. 6 ft. 5 ins. high including 6" ground clearance. Centres 2 ft. 6 ins. to 3 ft. in half inch stages.

Fittings: Standard 3" loose pin hinges. Barrel bolt or indicator bolt. Secret fixing cleats. Pedestal.



VENESTA PLYWOOD LTD. Vintry House, Queen Street Place, London, E.C.4. Telephone CENTRAL 3040

TA 5548

APPROVED BOILER FLUE SETS

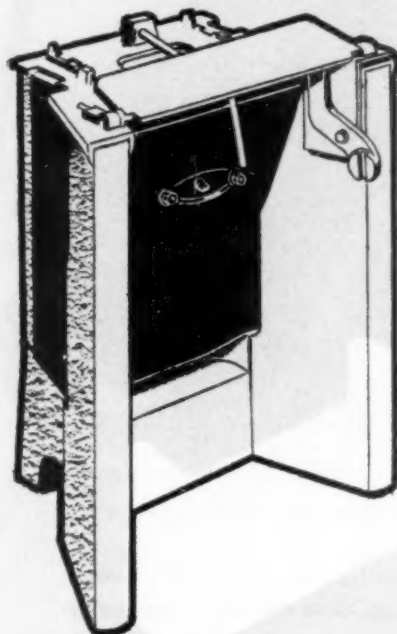
Specify
SOFONO

SOFONO HIGH DUTY FLUE SET

Construction: Refractory throughout with cast iron sliding damper. Cast iron throat restrictor available. Boiler in steel, cast iron or copper tapped 1½" BSP both sides. One side plugged.

Inset Fires: Approved with range of 16" inset fires illustrated. Choice of 6 vitreous enamel colours. Complete with ashpan and multi-purpose tool. Integral gas ignition burner when required.

Output: Space Heating: Rooms up to 1500 cu. ft. *Hot Water Output:* Max. maintainable 18,000 Btu/hr. *Domestic Hot Water only:* Through 40 gallon storage cylinder. *Combined System:* Domestic hot water service through 30 gallon cylinder PLUS 45 sq.ft. of radiator surface including piping. *Radiation Only:* 80 sq.ft. of radiator surface including piping.



SOFONO NORMAL DUTY FLUE SET

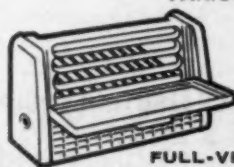
Construction: One piece cast iron with self contained flue. Large lift-off cover giving access to flue for cleaning. Boiler in steel, cast iron or copper, tapped 1" BSP one side only—Reversible. Cast Iron Sliding flue damper. Cast iron throat restrictor available.

Inset Fire: Approved with range of 16" inset fires illustrated. Choice of 6 vitreous enamel colours. Complete with ashpan and multi-purpose tool. Integral gas ignition burner when required.

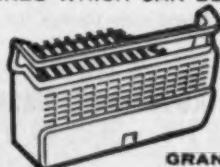
Output: Space Heating: Rooms up to 1500 cu. ft. *Hot Water:* Normal domestic hot water service through 30 gallon storage cylinder.



VARIOUS FIRES WHICH CAN BE FITTED TO THE ABOVE APPLIANCES



FULL-VIEW



GRANGE



LOW-VIEW

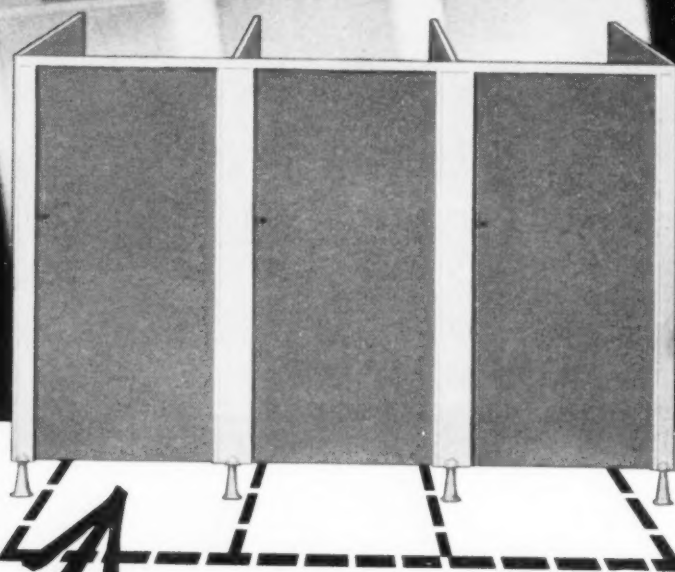


RURAL



Please write to the Technical Director for information on all Sofono appliances.
GRANGE-CAMELON IRON CO. LTD., FALKIRK A Federated Foundries Company

**OFF
THE
SHELF
SERVICE**



despatched in 14 days from receipt of order and site sizes



Plymax "Q D" Compartments are of the proven quality and design of Plymax Type "G" W.C. Compartments which architects have widely specified with great saving of time for the past eight years—but there is a difference. We will guarantee despatch within 14 days from receipt of order and site sizes if you will accept the standard specification. They arrive pre-fabricated ready for immediate erection and for fixing to a plain wall by secret cleats. Ask us to send you full details.

STANDARD SPECIFICATION

Material: 1" chipboard covered two sides with aluminium or galvanised steel.

Size: 5 ft. from front to rear. 6 ft. 5 ins. high including 6" ground clearance. Centres 2 ft. 6 ins. to 3 ft. in half inch stages.

Fittings: Standard 3" loose pin hinges. Barrel bolt or indicator bolt. Secret fixing cleats. Pedestal.



VENESTA PLYWOOD LTD. Vintry House, Queen Street Place, London, E.C.4. Telephone CENTRAL 3040

TA 552

APPROVED BOILER FLUE SETS

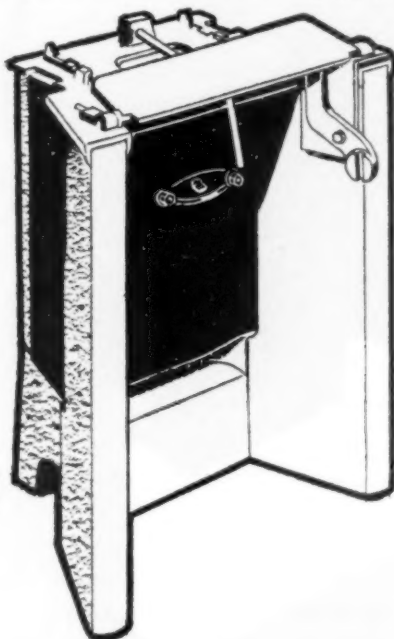
Specify
SOFONO

SOFONO HIGH DUTY FLUE SET

Construction: Refractory throughout with cast iron sliding damper. Cast iron throat restrictor available. Boiler in steel, cast iron or copper tapped 1½" BSP both sides. One side plugged.

Inset Fires: Approved with range of 16" inset fires illustrated. Choice of 6 vitreous enamel colours. Complete with ashpan and multi-purpose tool. Integral gas ignition burner when required.

Output: *Space Heating:* Rooms up to 1500 cu. ft. *Hot Water Output:* Max. maintainable 18,000 Btu/hr. *Domestic Hot Water only:* Through 40 gallon storage cylinder. *Combined System:* Domestic hot water service through 30 gallon cylinder PLUS 45 sq.ft. of radiator surface including piping. *Radiation Only:* 80 sq.ft. of radiator surface including piping.

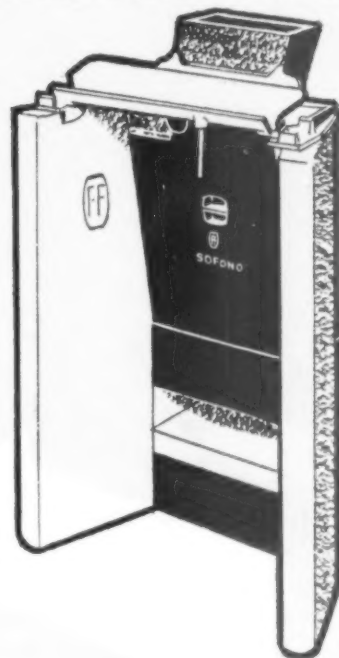


SOFONO NORMAL DUTY FLUE SET

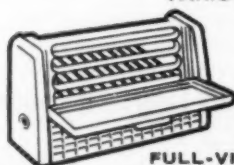
Construction: One piece cast iron with self contained flue. Large lift-off cover giving access to flue for cleaning. Boiler in steel, cast iron or copper, tapped 1" BSP one side only—Reversible. Cast Iron Sliding flue damper. Cast iron throat restrictor available.

Inset Fire: Approved with range of 16" inset fires illustrated. Choice of 6 vitreous enamel colours. Complete with ashpan and multi-purpose tool. Integral gas ignition burner when required.

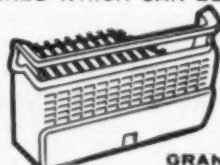
Output: *Space Heating:* Rooms up to 1500 cu. ft. *Hot Water:* Normal domestic hot water service through 30 gallon storage cylinder.



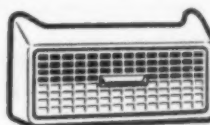
VARIOUS FIRES WHICH CAN BE FITTED TO THE ABOVE APPLIANCES



FULL-VIEW



GRANGE



LOW-VIEW



RURAL



Please write to the Technical Director for information on all Sofono appliances.
GRANGE-CAMELON IRON CO. LTD., FALKIRK A Federated Foundries Company

PLANNING TODAY



can
save space
tomorrow

Today, more than ever, there is good reason for planning emergency lighting in the early stages of planning the building that will need it.

Keepalite, the Chloride Company's automatic emergency lighting system, now makes use of the Chloride high performance battery which can halve the space previously needed for battery installation. This available saving in space is an asset important enough to rate early consideration.

The advisory service of the company's electrical engineers is always at the call of any architect interested in emergency lighting. You have only to ask for it.

KEEPALITE AUTOMATIC EMERGENCY LIGHTING EQUIPMENT
for Offices, Stores, Factories, Schools, Hospitals & Public Buildings

A PRODUCT OF CHLORIDE BATTERIES LIMITED · BACKED BY WORLD-WIDE SERVICE

Enquiries to: London, Elgar 799; Bristol 664086; West Bromwich 2361; Leeds 20248; Glasgow, Bridgeton 3734; Manchester, Blackfriars 1158; Belfast 27953

For top quality and 10% saving

MAC FISHERIES *specify Merthyrware*



Mac Fisheries Ltd. have found that Merthyrware Tiles provide the right kind of flooring to stand up to heavy traffic. The shale from which Merthyrware Tiles are made is the finest in the country and because our factory is situated on the site of this raw material, we can produce a tile of superior quality at a more economical price.



MERTHYRWARE

Modern Ceramic Floor Tiles

These hardwearing, real ceramic tiles are unbeatable for their long-lasting qualities and consistent size and colour. Merthyrware Tiles are produced in one of the most modern, best-equipped factories in the country. They are universally accepted, and are particularly suitable for use in shops, offices, factories, schools and municipal buildings everywhere.

SPECIFY MERTHYRWARE FOR:—

- SUPERIOR STRENGTH—up to 10 tons per sq. inch.
- CLEAR, FAULTLESS COLOURS—Red and Mingles.
- STANDARD SHAPE AND CONSISTENT SIZE.
- RESISTANCE to heat, moisture absorption, acids, grease and fire.
- REAL ECONOMY—Merthyrware cost less than any comparable tiles.
- Outstanding for accurate size and consistent colour.
- CERAMIC GILL TILES—Fit ALL gills.

MERTHYRWARE TILES *never wear out!*

SWIFT DELIVERY—24 HOUR SERVICE—WRITE OR 'PHONE

MERTHYRWARE LTD. CARKER'S LANE, LONDON, N.W.5. TELEPHONE: GULLIVER 8761 (10 LINES)

FACTORY: HEOLGERRIG, MERTHYR TYDFIL, GLAMORGAN. TELEPHONE: MERTHYR TYDFIL 2793

WHERE IS THIS STAIRCASE ?



This elegant staircase, with its delicate use of metalwork, is actually on board a ship—the new luxury liner "Windsor Castle".

The designers chose, as do so many today, to edge the stairs with Ferodo stairtreads. For Ferodo stairtreads combine, with long life and non-slip safety, a clean modern look that enables them to blend successfully with contemporary interior design on land or at sea.

- 7 attractive colours.
- Comprehensive range—29 treads with nosings, 3 flat treads.
- Aluminium, silver bronze or manganese bronze channels.
- Special orders can be manufactured

Write to our Stairtread Department for full illustrated literature for your file.

FERODO non-slip stairtreads

FERODO LIMITED
CHAPEL-EN-LE-FRITH

A Member of the
Turner & Newall Organisation

10/9



The Architects' Journal

No. 3449. Vol. 133. May 25, 1961

9-13 Queen Anne's Gate, London, S.W.1. Whitehall 0611

Subscription rates: post paid, inland £2 15s. 0d. per annum; abroad £3 10s. 0d. per annum. Single copies, 1s. post paid, 1s. 6d. Special numbers are included in subscriptions; single copies, 2s.; post paid, 2s. 6d. Back numbers more than 12 months old (when available), double price. Half-yearly volumes can be bound complete with index in cloth cases for £1 17s. 6d.; carriage 2s. extra.

NOT QUITE ARCHITECTURE

"Loco" Means Mad

The opening could have been scripted by T. E. B. Clarke—two Ealing peelers swung back the great black gate under the steam-age arch, and 500 small boys ran screaming up the slope to hurl themselves on the exhibits. For here was every lad's dream of mechanical bliss, the locomotive might of Britain drawn up in two parallel ranks, assembled originally for the Golden Jubilee of the Institute of Locomotive Engineers, and then rather coyly opened to the public for a couple of days two week-ends ago. To look at, this pile of gleaming machinery, headed by a genuine Midland Compound and the last steam engine built for BR (a Swindon 2-10-0) and consisting mostly of diesels (including a Deltic in BR green instead of the familiar speed-whiskered blue), was probably the best show the railways have put on since nationalisation. It was just as well that the pre-publicity had been half-hearted, for the crowd was clearly more than the organisation could comfortably handle, and they had been caught out on points of detail—there was enough air left in the tanks of a Type-4 to work the hooter, and we had five minutes' bedlam and bliss until it occurred to someone to empty the tank.

What with all this and a beautiful sunny morning in Lisson Grove, things were pretty euphoric—until the little Banhams got to work:

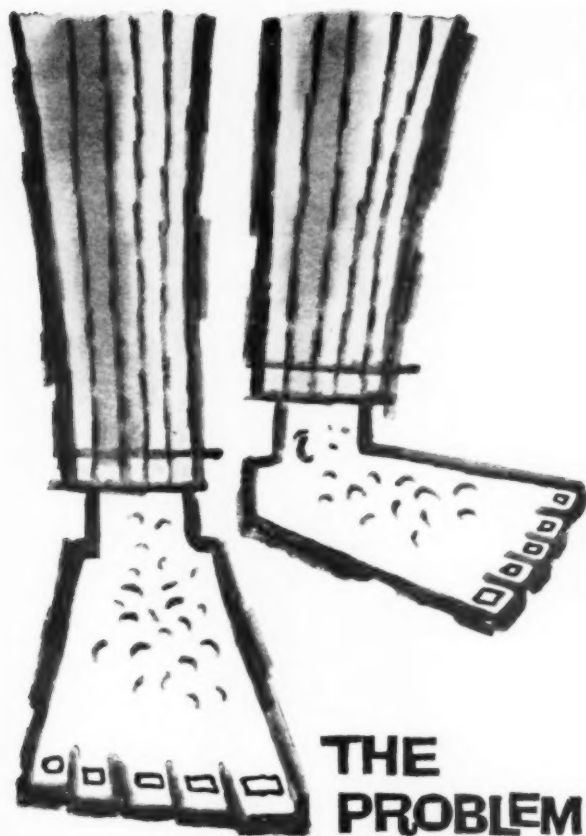
"What's all this funny stuff on the front of this one?"

"Heat exchangers, or something. It's a gas-turbine job."

"What's that, Dad?"

"Gas turbine, like on a Viscount, only this one doesn't drive a propeller, it drives the. . ."

"Then why does it look like a steam engine? Stup'id. I call it," etc. etc.



THE PROBLEM OF SQUARE FEET...

Space we mean. The kind that elbows look for . . . the sort that cats swing in . . . square feet . . . the kind that give the architect his headaches. It only needs a few to make all the difference. With the growing need for small roomed compact dwellings, plus the numerous conversions taking place, Marley Space-Saver Doors solve many a problem. Doors that provide eight sq. ft. of extra living space—each. Room dividers that glide smoothly and gently open and back into the slimmest space possible. They're a boon to the modern home—and to those who plan it.

MARLEY SPACE-SAVER DOORS

- Available in 6 attractive colours—beige, grey, green, red, brown and gold.
- Made of extremely hard wearing Vinyl over durable rigid panels. Simple to install. No maintenance.
- In standard sizes or to order.

For full details write or 'phone

MARLEY SEVENOAKS · KENT

Telephone Sevenoaks 55255

London Showrooms:

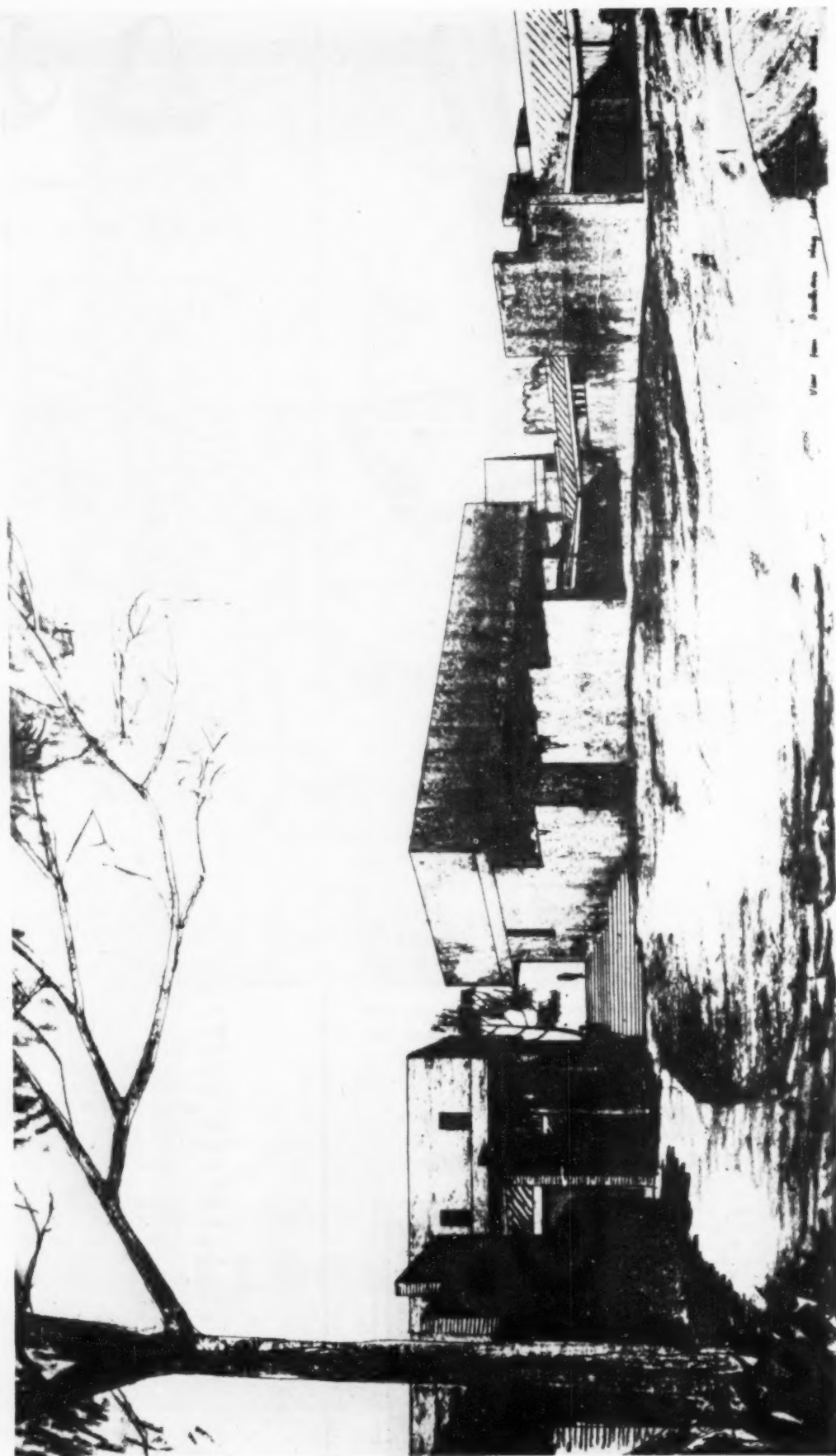
251 Tottenham Court Road, W.1.



Harlow Housing competition —the winning design

The winning design by Michael Neylan in the competition for a layout and design of houses in the Passmores Neighbourhood at Harlow New Town. The scheme consists of a central podium separating pedestrian (on top) and motor vehicle (below). This crescent-shaped podium is at the north

(highest) end of the main site and is surrounded to the west, south and east by blocks of maisonettes and flats with courtyard houses behind. The perspective is drawn looking north between two rows of courtyard houses towards the central podium.



It was a very good question: there may even be some good answers to it, but one would very much like to know the *real* reason why the power of a gas-turbine should be packaged up and delivered to the rails in a bulk form and a wheel-configuration—4-6-0 and *tender!*—that are practically indistinguishable from the so-called steam streamliners of the Thirties. To make the Period-Revival gesture unmistakable, Eastern Region's *Mallard*, still probably the fastest steamer in existence, was parked almost opposite to this Neo-Georgian caper. One begins to wonder about the quality of the mind-power that goes into locomotive design these days. Punditry tends to give the impression that the works are all right, but that industrial designers need a bigger hand in the packaging. If what Wilkes and Ashmore have done to Beyer's D-7000 diesel-hydraulic is anything to go by, industrial designers will soon be out on their ears—the buffer-beam is wrapped in a shroud like the front of one of those Detroitnik prams that have just reached the shops.

*

But this is only the styling, it is the basic concept that causes the real worries. Sometime when you have half an hour and a lot of fingers and toes to spare, try and enumerate the different kinds of diesel locos being built or developed for BR at present. There are Deltics and little Deltics, and big D1's, and D-800's, and D-500's and D-5500's and D-5700's and I left out D-5300's not to mention shunters and suburban units and D-8000's for mixed traffic, and so on till your head spins.

By contrast, the Illinois Central Railroad, of which I have lately had direct experience, seems to serve an area considerably larger than a BR region with just *two* types of main line locomotive—an express passenger unit and a goods unit. It achieves this drastic economy of types by avoiding the kind of thinking that keeps BR diesels in the steam-age. BR clearly think of a train as something pulled by an engine—big train, big engine; small train, small engine, etc. The thinking behind the Green Diamond livery of the ICRR is that a train needs not an engine, but so many horsepower, and they make up the total horsepower required by adding engine units. The passenger express unit can be used singly or in pairs (and has been styled accordingly, with control cabins at only one end) and the goods unit can be used in ones, twos, threes or even fours, controlled by the driver of the leading unit. Simple, isn't it? But why didn't it happen here? It doesn't look as if it was just politics, though politics has a big place in any BR policy disaster. It looks like a failure in design thinking—that in changing over from steam to diesel, you just change the power source of the engines but fail to notice and exploit the increase of controllability and flexibility of operation that came in with diesels. Whatever the technicalities of that gas-turbine-dressed-up-steam, it was certainly symbolic.

REYNER BANHAM

Editorial

THE SQUARE WITH THE EAGLE

THE usual teeming Discourse audience (complete with closed-circuit TV for the overflow) turned up at the RIBA last week, and heard Alastair Cooke turn in a performance one is tempted to call irrelevant. Not that the RIBA were not absolutely right to call in an articulate layman for once to give the annual discourse.

But, having spent the first 25 minutes saying, with the utmost humour and wit, absolutely nothing, Mr. Cooke turned serious and launched his jeremiad on the American suburb, and again said nothing that was not already well known.

In damning American suburbia at the RIBA, he was preaching to the converted: for ten years or more its horrors have been expounded to us by every returning architect-visitor from the US, and we know we don't want it, and we have begun to organise against it.

What would have been interesting from Mr. Cooke was much more—very much more—about the psychological and social compulsions that make supermarket culture and low density living so attractive to so many Americans; then perhaps we could assess the weight of his warning that, at any minute now, “pale men from the Potteries” will irresistibly invade “the continuous golf-course that is southern England.”

Instead Mr. Cooke made two false assumptions: first he based the case for choosing this subject on the supposition that “America's today is the rest of the world's tomorrow”. But the fact is, when it comes to planning and controls, Britain's today may well be America's tomorrow. While America is still dumping down new supermarkets with suburban shoppers attached in virgin meadows, our towns are tucked up in green belts, and every week at a greater rate we hear of more schemes for redevelopment in the decaying town centres.

His second assumption was the extraordinary one that the process is inevitable because you can't deny the common man—or the “moron over 21,” as he also put it—the right to clean factories and playgrounds for his children. We believe that, given sound planning and the vast range of public health acts and building controls, life in cities can be as clean and cheerful as in any suburb—and twice as interesting.

But we can at least agree with Mr. Cooke that the more architects and politicians will collaborate to provide for our human needs—and that includes the protection of the beauty and variety of our country—the better for all of us.



NO AMENITIES PLEASE

Mummification mania now rages at Rotherhithe. The houses Betjeman wants to retain are admittedly picturesque, especially from the river; but they are nothing more than that; and as they are smelly, slummy and derelict the LCC wants them taken down to make a riverside walk. However, since they only extend 50 yards or so this sounds like another threat to suburbanise the Thames with park benches, swings and see-saws in what the Council is pleased to call an "amenity sitting-out area." So why not new buildings? Not just any old new building, but *molto simpatico*, like those upstream from the Ponte Vecchio, which retain all the picturesqueness of their bombed predecessors without concessions to Florentine pastiche.

Of course, the model for all Port of London walks is surely the one from Tower Bridge down to the Piranesi Underground at Wapping; not a continuous seaside promenade but a Sunday of echo-broken silences under warehouse cliffs scented with cinnamon and nutmeg, the river only occasionally glimpsed where canals and docks join with the tide. If you object that the river is an open sewer for disease either put it in a culvert (no problem with atomic submarine freighters) or clean it up. In the meantime you might im-

munise the populace—unless you can persuade them that what was good enough for Mr. A. Armstrong-Jones should be good enough for them.

WHAT, NO PATIO?

My gardening colleague, a keen plantswoman but not in the show class, came back from the Flower Show last week trembling and muttering "If flowers get any bigger they will be keeping humans as pets." She claimed to have stood face to face with a giant stock without getting a whiff of scent: "with a flower that size I ought to have been completely knocked out," she said angrily.

But the only thing at Chelsea that smells as it should is the wonderful strawberry stall from Woodperry, round which a queue of gardeners stood breathing deeply all the week. Chelsea is the supreme example of having too much of a good thing. It resembles no garden you have ever seen, or would wish to possess; it makes no concession to changing needs or ideas of garden design, but merely pushes under your eyes what is newest and brightest, such as—this year—double petunias that look like rubber sponges, and an exotic display, from Germany, of bougainvilleas, so dazzling when running along the walls of a Mediterranean villa with hummingbird hawk moths darting up for a sip, but extraordinarily like Japanese Water Flowers when seen in the Chelsea marquee.

The prize "Garden of Today" was much the same as the stockbroker's gardener could always produce—shaven lawn, small pool and fountain, and beds stuffed with bedding plants. *Real* gardens of today, which would be a sensational novelty any year the powers at Chelsea liked to present them, would show how labour-saving, ground-covering plants could be combined to make something leafy and refreshing out of a back yard or a roof top. Such gardens were shown only in photographs and perspectives by the Institute of Landscape Architects in their screened-off corner alongside Garden Pests and Diseases, and even here most gardeners would have felt there were too many vast places with terraces overlooking rolling countryside. Here also was a wide choice of public authoritative landscape gardening

schemes, from Harlow, Basildon and the War Office (now landscaping its camps and housing in a way that must make many majors ask each other what the world's coming to); and one or two lamentably ill-directed efforts by local Park Departments.

The huge exhibit from Berlin, designed by "garden architect" Helmut Bournot who had done a magnificent job by framing cut flowers, small plants and a discreet arc of cobbles in a setting of loose walls of red brick (one brick in height) and slatted units of white wood and metal. But I didn't care for the rows of hospital screens that marched across the display, looking—with their blue and yellow fabric—like a therapeutical experiment for Queen Charlotte's.

READ ALL ABOUT IT

Architects seldom read newspapers. True or false? To find out, just ask yourself how often you have heard of some appalling scandal that has been filling the papers for days past.

But don't let this stop you from going to Bethnal Green Museum, between now and the end of August, to see a historic record of British Journalism—from *Weekly Newes* to the death of the *News Chronicle*. The *Weekly Newes* was coming out in 1622, before the abolition of the Star Chamber, so it had to protect its editors from danger of prosecution by claiming only to publish news that had already been printed in foreign papers. Today we don't have the Star Chamber, and our papers are sometimes asked *not* to publish news from foreign papers. Very odd.

At Bethnal Green you can read copies of Daniel Defoe's *Review*, which he wrote entirely himself, the rival political papers of the Civil War, the gentlemanly magazines of the 18th century, John Wilkes's *North Briton*, the papers that fought the censorship, the stamp tax, and the various other well-meant efforts to keep the news of the day from the man in the street.

Today we do things better: the *News Chronicle* died of advertising inanition because its circulation was under 2 million a day, but anyone with

£2 million to spare is free to start another paper tomorrow. And we think we've a free press! There's progress for you.

BIG NEWS FOR STUDENTS

Second or Third year students who have recently adorned their history exam answers with sketches implying some connection between Bramante's design for St. Peter's and certain drawings by Leonardo da Vinci, would probably have been intrigued (and confused?) by Dr. Peter Murray's exposition of what Leonardo and Bramante were up to in Milan at the material time, in a lecture he gave at the Courtauld Institute last week. The answer appears to be that there is a good deal less connection than we were brought up to believe. In fact, once or twice I thought there was an implication that Bramante might have been influencing Leonardo—not the other way about.

*

Nevertheless, what was said about Leonardo was fascinating. For one thing, we were treated to a display of sawing an *Uomo Universale* in half. What interested Leonardo, said Dr. Murray, was not what the Renaissance understood as architecture, but simply engineering. If the Renaissance really did make a distinction between engineering and architecture, then a number of pious platitudes currently in favour with educationalists must be revised. On the other hand, we were introduced to the idea of Leonardo's anatomical drawings as the source of the conventions of plan and section used in architectural draughtsmanship, and this—as we looked at the superb drawings on the screen, showing human skulls sliced this way and that, for all the world like domed buildings—did seem convincing.

BETTER BRIEFS?

An architect, someone said—and I think it was me—is no better than his brief. I'm glad to hear that the arch exponent of the medical brief, Gordon Friesen, the American hospital consultant, who was responsible for commissioning most of the United Mine Workers' Hospitals, is giving the next Yerbury Foundation lecture, "Architecture and Automation," at the RIBA on June 1; on the following afternoon



This week's new scheme from Coventry—they really seem to roll them out once a week up there—is for a further urban redevelopment scheme, covering 37 acres at Spon End. Another dilapidated area is to be replaced by a 17-storey block of flats dominating a pedestrian square, which will also contain a community centre and health clinic.

the King Edward's Hospital Fund for London is holding a brains trust for Gordon Friesen at St. Bartholomew's Hospital before an invited audience of VIPs from the medical world. It looks as though there is a growing appreciation of the importance of giving the architect a good brief.

TALKIE-WALKIE

The other day, the influence of the Victorian Society was quite dramatic. According to the *Hampstead and Highgate Express* "one man, sleeves rolled well above his substantial forearms, stepped defiantly from behind the curtains and stared. . . ." This, I should explain, was a common reaction to a Society "walk." It seems that "a small but enthusiastic group" set forth to trace the northern expansion of London towards Hampstead."

"Most of the men wore brogues, tweed jackets and silk cravats," writes the Ham-and-High's reporter. "They carried architectural tomes and maps in rucksacks. . . . Mr. Gotch, secretary of the New Hampstead Society, "in a houndstooth check suit and blue suede shoes, looked decidedly 'sharp' in contrast to the others." As if this wasn't enough they "lingered at regular intervals to observe some of the houses in greater detail."

The nervous locals were, of course, simply wondering if they were being vetted for incorrect entries in census forms, illicit hosing of cars or demolition for the sake of road widening.

VOLT FARCE

There are places where the towers of the grid stride across the countryside in an impressive way. But now that transmission voltages are going up, spans are getting longer, cables are being more widely spaced and towers are getting more obtrusive. It may well be, as the CEBG advertisements say, that their planners "value the countryside as much as you do"; but they are also bound to maintain a pretty careful eye on costs, and if it is really true (advert quote again) that underground lines cost 17 times as much as overhead, then overhead they must always go. But not always, for the Minister of Power has just ordered that part at least of the proposed new line across the Green Belt in Hendon, Harrow and Barnet must be underground. This is quite a victory for Middlesex County Council and other local authorities who led the opposition. It is also the first time that a line of this capacity has been ordered underground, 275,000 volts or no.

ASTRAGAL

LETTERS

John Bugden, A.R.I.C.S.

Bernard Gold and Partners

H. G. Eisner

Raymond M. Dew,

M.S.I.A., M.Inst.R.A., M.I.A.M.A.

H. G. C. Spencely,

B.Arch., F.R.I.B.A.

Ian Goldsmith

David Hyde Harrison,

A.R.I.B.A., A.A., Dipl.

A QS on Two Tiers

SIR: May I, as a quantity surveyor with modest experience of the inner workings of an architect's office, be permitted to answer some of the anomalous analogies and apparently rather presumptuous remarks made by Mr. A. P. Holdsworth, F.R.I.C.S. (AJ, May 11)?

I cannot help but feel that Mr. Holdsworth has, to say the least, oversimplified matters when he makes comparison between architecture and quantity surveying practices. On the one hand we have a technical rather unemotional occupation primarily concerned with conformity and the assimilation and presentation of facts. On the other a creative and, dare one say, artistic occupation from which it would be folly to divorce emotion and individuality. I appreciate that detail drawings and the more menial tasks have to be undertaken by someone but why by unqualified, unambitious unfortunates? Surely an architectural education is not so bourgeois as to teach the future protagonist that ARIBA exempts him from detail drawings, etc.?

Whilst Mr. Holdsworth's economics are undoubtedly very sound regarding the law of supply and demand I wonder whether he is aware that architecture has been trying to recover for many years from the misapplication of this unfortunate law. In a society where lack of initiative and ambition is rightly considered deplorable by its more distinguished and senior members it is surely a retrograde step to attempt to introduce any further attractive relaxations. I also find it difficult to accept that good integrated detailing can be properly carried out other than by an individual with full understanding of the building as a whole.

For some time now the RIBA has been attempting to clarify for the man in the street the architect's position in and value to society and, with success just around the corner, along comes the biggest confusion of all—grades of architects! We in the RICS should be all too aware of this problem with estate agents preparing bills of quantities, quantity surveyors preparing valuations and the poor recent house purchaser wondering why there was no mention by the valuer of beetles in his basement.

History may prove that architecture can be departmentalised but I would implore the RIBA policy makers to tread warily and not let economics bring about another Industrial Revolution in design.

JOHN BUGDEN

London, W.1

Barbican Site "M"

SIR: We have noticed that you have published a photograph of the perspective of our building known as Site "M." The Barbican, in THE ARCHITECTS' JOURNAL for May 11 and that reference was made to the scale created by the pattern of the external curtain walling.

We feel that it is right that we point out that this pattern has been laid down by the planning department of the City Corporation and all the architects constructing the five major blocks along London Wall have to conform to this. Apart from our own building which is under construction, both Moor House and St. Alphage House, which is virtually complete, have tower blocks identical to ours, with the exception of the colour of spandrels.

BERNARD GOLD & PARTNERS
London, W.1

Association of Official Architects

SIR: I would like to draw your attention, and request you to notify readers through your News column, to the appointment of a salaried (part-time) Secretary to this Association. Mr. W. F. Hurry of Essex was appointed at the end of January and has taken up his duties. The office of Honorary Secretary continues to be held by Mr. G. F. Foseley.

H. G. EISNER

London

Him and the Fifteen Doors

SIR: Why do so many writers for architectural papers (and architects in particular) have to adopt the affectation of this disjointed, telegraphic, terribly clever, unnatural style of writing?

The biographical preamble about our dear friend George Him is obviously very amusing and quite brilliant—in parts—but ruined by sentences without verbs and too many clipped indirect references to things the average reader is not likely to know anything about.

"That sounds confused," said George Him—it was—and the report of his talk was little better.

R. M. DEW

London, W.8

Paying for Sprawl

SIR: "Sprawl" applied to cities is almost a dirty word, and on financial grounds the Cumberland CC's case for Sydney's restriction seems unanswerable. But one wonders what sort of a home-life its inhabitants will enjoy.

During the past few years one has seen the demolition of small Victorian houses in a London borough, and their replacement

by towers of flats. The houses were not well built, and had reached the end of their useful life, but they did have private back gardens where children could play, and sheds for hobbies including animals and birds.

Perhaps the houses occupied too much ground by present city standards, but what is the value I wonder of the privacy, freedom and independence which the flats do not provide?

H. G. C. SPENCELY

London, W.1

Trouble at Digswell

SIR: The solution to the problem is, as S.W. suggests, to build a completely new church and leave the existing one standing as an empty and Godless example of a 12th-century building with 15th-, 18th- and 19th-century accretions. Visitors could pay for admission and thus help to keep the fabric in repair and in time, the whole could be given to the Ministry of Works.

In this way the churchyard would be left free for the original, pious 12th-century builders to turn over in.

IAN GOLDSMITH

London, S.W.11

RIBA Building Society?

SIR: I believe the RIBA should sponsor a Building Society to help clients and architects building modern houses (i.e., flat roofed, etc.!) to raise loans. Will anyone who agrees please write to me. I need support to fight RIBA inertia.

DAVID HYDE HARRISON
London, W.9

DIARY

Safety in Building Exhibition: At the College of Building, Stoke on Trent.

MAY 29 TO JUNE 4

RIBA Members' Meeting at the Queen's Hotel, Leeds.

MAY 27

New Mural Techniques: George Mitchell and Anthony Hollaway at AA Ordinary General Meeting, introduced by Oliver Cox. 8 p.m.

MAY 31

Automation and Architecture: Yerbury Foundation Lecture at the RIBA by Gordon Friesen, at 6 p.m.

JUNE 1

Hendon of Tomorrow: Exhibition of plans, drawings, photographs, models of Council projects, at Church Farm House Museum.

Until MAY 31

The Need For a Land Finance Corporation: Lecture by Henry Wells, Planning Forum, TCPA, 28 King Street, London, W.C.2, 6.30 p.m.

JUNE 5

NEWS

RIBA

Alistair Cooke's Annual Discourse

Despairing laughter was the dominant mood of Alistair Cooke's Annual Discourse at the RIBA on May 17, which he devoted largely to painting a nightmare picture of the spread of Suburbia over the face of America, which he regards as the inevitable face of the rest of the world in the future. His title, "The Eagle in the Square," he had chosen, he said, not with the actual appearance of the US Embassy in mind—"which began as an impertinence and ended as an obscenity" but as expressing "that part of the English future that is the American present."

"The United States is creating the twentieth century mould," he said, "if only because it is the most prosperous of the free nations, therefore its example in material habits is contagious." The right of everybody to middle class comfort and a car had gone further in the United States than anywhere else, "I think we may agree that if the so-called free world cannot maintain the primacy of a prosperous, expanding and dominant middle class, it is doomed."

Cooke went on to picture life in America today, starting with a series of items, such as the shrinkage of California's orange groves and the growth of California's concentrated orange juice; the spread of smog over "the lately sylvan Pacific Coast"; the double-sized billboards now lining the motorways, since billboards were prohibited within 200 ft. of the highway.

"In a more majestic project still, the advertising men are soon to fill the gap that has haggled them for years—how to exploit those vast and tantalising spaces between the stars. . . . Last summer they had extraordinary success in projecting on the night sky an image of coloured slides two hundred feet wide."

The spread of the suburb, however, was Alistair Cooke's main worry, the dropping down in open country of suburbs, complete and prefabricated, with supermarket the size of an aircraft hangar, factory along side, and ranch houses all around, each with a garage the same size as the house. It was "like putting up another Selfridge's in the New Forest" and in 1960, 4,500 such supermarkets had been built in the American countryside beyond metropolitan areas. There had been some "brave attempts by town planning groups and garden clubs to give prizes after the event for handsome supermarkets or shopping centres . . . but most of these suburbs are as faceless as so many billboards.

"They crowd within easy view of the super-highway . . . they are linked by gaudy stretches of what we call frontage highways with a neon stream of billboards and lunch counters and dive-ins and liquor stores and funeral parlours and gas stations that make it now impossible even for a knowing traveller . . . to guess whether he is approaching

Chicago, or Seattle, Philadelphia or Savanna, Minneapolis or New Orleans."

He had recited these horrors, he said, in the hope that we would anticipate and control them—"but how in a society where every moron over 21 has the vote?" The cities we "tour with wistful reverence," said Mr. Cooke were built at the whim of emperors and patrons with complete political power. Suburbia, he implied was the only means by which the "morons" could get cleaner factories or new playgrounds.

"There was a time when the architect would have been the obvious answer," he went on. "But need I turn the knife in the wound of your impotence by asking what architect today has the political influence, the command of millions, the control of the building materials and the contracts, to impose a style, as he used to, on a city, a country, or the Ministry of Housing?"

The only hope, he believed, was "a new and effective alliance between the architects and the politicians. I do not know the strategy by which the Town and Country Planning Act came to be, but I can only say that if such a civilised law were conceivable in America, the banning of the billboards and the burying of the telegraph poles alone would have stayed the Coney Island rot that rages across the continent."

RIBA—BUILDING CENTRE

Trade Literature Competition Winners

Winners of the 1961 Trade Literature Competition were announced last week, and certificates were presented at the Building Centre, where all entries are now on show, yesterday. GROUP 1A: Certificate of Exceptional Merit: Alumin Building Components Ltd. Certificates of Merit: Arco Flooring Ltd., Armstrong Cork Co. Ltd., Leeds Fire-clay Co. Ltd., Morris Singer Co. Ltd., Redland Tiles Ltd., Truscon Ltd., Universal Asbestos Manufacturing Co. Ltd. Hon. Mentions: British Plaster Board (Manufacturing) Ltd., Courtney Pope (Electrical) Ltd., Hicksons Timber Impregnation Co. (GB) Ltd., Marryat & Scott Ltd. GROUP 1B: Certificate of Merit: Gyproc Products Limited. GROUP 1C: Certificate of Exceptional Merit: Falk Stadelmann & Co. Ltd. Certificate of Merit: Universal Asbestos Manufacturing Co. Ltd. Hon. Mentions: Adamsez Ltd., General Electric Co. Ltd. GROUP 1D: No awards. GROUP 2: Certificates of Merit: Esso Petroleum Co. Ltd., Federation of Coated Macadam Industries, Langley London Ltd., Pilkington Bros. Ltd.

COMPETITION RESULT

Offices for the County of Roxburgh

This competition, which was limited to architects living and working in Scotland, has been won by Peter Womersley, who will receive the first premium of 500 guineas. The second premium of 300 guineas has

been awarded to Alexander D. Bell, and the third of 200 guineas to Geoffrey Copcutt. The assessor, W. H. Kinimonth, R.S.A., F.R.I.B.A., F.R.I.A.S., specially commended the design submitted by Andrew Jackson and Francis S. White, and also commended the scheme by Duncan Maclean. We hope to publish the result in greater detail in a subsequent issue.

OXFORD ROAD INQUIRY

"It Must Cross Christ Church Meadow"

Sir Frederick Armer, who conducted the public inquiry into Oxford's roads for the MOHLG, has recommended in his Report that a road across Christ Church Meadow "is inescapable. The loss of the long-preserved special kind of amenity provided by the Meadow," he writes, "will be regarded by very many people as a grievous loss, but against that loss must be weighed the greater gain of peace and quiet in the Ancient City that in my judgment cannot otherwise be obtained."

This is the scheme put forward by Oxford City Council, one of 22 alternative proposals for relief roads considered by last December's Public Inquiry (reported in AJ 1.12.60 and 12.1.61).

Sir Frederick's recommendations have now gone to the Minister of Housing and to all who put in plans or objections to the Inquiry. No decision has yet been taken by the Government, to allow opportunity for public discussion before final decision.

ICA

Art Into Landscape

The subject of "Art Into Landscape" was the third in a series held at the Institute of Contemporary Arts. Three speakers discussed different aspects of the relationship between art and landscape architecture.

L. J. Fricker described the work of various 18th- and 19th-century English painters and showed with slides the influence of their work on the development of the art of the landscape. Pointing out that the formalism of the Italian renaissance in garden layout, derived from the laws of perspective of the artist, and he traced development from this point to the work of Burle Marx in Brazil. The influence of painters today on a practising landscape architect was the theme taken by G. A. Jellicoe, who described some of his own work and the sources from which he found inspiration. Paul Klee, Victor Pasmore, Ben Nicholson and Henry Moore. The third speaker, Brenda Colvin, was a last minute replacement for Dargan Bullivant, who was indisposed. Her part of the subject lay in what Miss Colvin herself chose to describe as the "down to earth" approach. She showed a number of remarkable slides of plant material, the object being to illustrate the variety, colour, texture and form which is at the disposal of the landscape architect.

PETER GRAY

ABS Backs Fund for His Family

Peter Gray, the young architect so tragically murdered in Cyprus only five weeks after going out there to work, was one of those architects who earned his qualifications the hard way. He started as an office boy with Lanchester & Lodge in 1951, but determined to become a qualified architect and attended evening classes at the Northern Polytechnic with that aim. At the age of 21, in mid-course, he got married, but continued working, evenings and weekends, until he qualified in 1954. He worked first for Ronald Ward & Partners, later for John MacAlpine. In April he started a new job in Cyprus.

John MacAlpine and John Burchill, another of his friends and colleagues, have opened a fund in his memory, to help his young widow and two small children, and the Architects' Benevolent Society has agreed to accept donations for this purpose.

Those wishing to subscribe should send donations to: John MacAlpine and John Burchill, c/o ABS, 66, Portland Place, London, W.1.

COMPETITIONS

RIBA Soane Medallion

The RIBA announce that 11 competitors out of 77 have been chosen for the final stage of the Soane Medallion competition, but that the prize jury has rejected all 73 sketches submitted as being unsuitable.

House for the Gas Council

The Gas Council announces a competition for four types of house design, with a £500 first prize in each class, and special awards for kitchen layouts. An assessor appointed by the RIBA, and not yet announced, will judge the entries.

The competition is open to all registered architects and RIBA students who work with them; closing date for the competition is August 31; and full details and conditions are available from the Secretary, House Design Competition, The Gas Council, 1 Grosvenor Place, S.W.1.

RIBA

Architecture Bronze Medal for Suffolk

The Suffolk Association of Architects, with the approval of the RIBA, has announced that the Award of RIBA Bronze Medal for Suffolk shall be made for the period from January 1, 1958 to December 31, 1960. The Award is to be given for a building of exceptional merit erected during these three years and the building (or group of buildings) must be situated in the County of Suffolk.

Assessors who have been appointed to the Jury for this Award are: Professor Sir

Leslie Martin, M.A., Ph.D., F.R.I.B.A. (RIBA Representative); Sir Francis Meynell (Lay Member); Murray S. Hare, A.R.I.B.A., A.E. Wallis, A.R.I.B.A. (President and Secretary, Suffolk Association of Architects); R. B. Corless, Dip.Arch.(Birm.), A.R.I.B.A. (Norfolk & Norwich Association of Architects).

Conditions of the Award and nomination forms may be obtained from the Hon. Secretary, A. E. Wallis, A.R.I.B.A., County Architect's Department, County Hall, Ipswich. Nomination forms must be delivered to the Secretary not later than 12 noon on June 1, 1961, and drawings, etc., by June 30, 1961.

ABS

Housing at Frenchlands Hatch

The second stage of the ABS housing at Frenchlands Hatch has now been completed and occupied. Reporting progress on May 11, Howard Lobb said the scheme was operating smoothly in its aim of providing rent-free accommodation for those of the profession or their families who were elderly and in need of assistance.

The architect, Clifford Culpin, who won the competition for the design of the scheme, was also present, and pointed out one fact about the second stage which was something of a shock. In two years between the first and second stages, both put out to competitive tender, the price per house had risen from £1,740 to £2,240, a rise of just under 30 per cent. He remarked that it had been possible to issue the competition drawings that he originally submitted with only very minor changes to the contractor, a reminder that the competition system can be really workable if the conditions are properly framed.

HOUSING CENTRE

The Shoppers' Mile

Under this title, the High Oxford Street scheme for putting a pedestrian shoppers' deck above Oxford Street at first-floor level, devised by D. Rigby Childs & Associates (published AJ, March 23 and 30), is now on exhibition at the Housing Centre until May 26. It was opened recently by Sir Wavell Wakefield, and Rigby Childs answered questions about the possibility and probability of this scheme, or something like it being adopted.

Asked whether moving pavements and staircases were essential to the scheme, since they are unquestionably the most expensive part of it, he said the scheme could be carried through in stages, if necessary without travolators at first, but the structure must be designed to take travolators so that these or some other system could be provided later if required.

Admitting that the reaction of most shopkeepers in Oxford Street was "bound to be hostile at first," Mr. Rigby Childs said what they had to realise was that unless some-



This stepped locker desk is one of a range of designs for school furniture by the Shropshire County Council Architect's Department: county architect, Ralph Crowe, A.A.Dipl., A.R.I.B.A., Douglas Webb, M.S.I.A., furniture designer, and consultant designer Frank Height, Des.R.C.A., A.M.I.Mech.E., M.S.I.A. The desk, which is available in dual or single models, in any height, provides the height and clearance recommended for good posture in BS Specification 3030 Part 3, is constructed of beech with leg supports in rectangular section tube, finished black, and is now being manufactured by Elington Industries Ltd.

thing drastic were done about the congestion in Oxford Street, the shops there would lose their drawing power, particularly as shopping facilities outside central London were improving. He would like a "round-table, unreported meeting of interested people" to discuss the whole problem.

Of estimated cost, he suggested a round figure of £12 million, but whether this included the considerable cost of interior transformation of the shops was not clear. At any rate, the cost could be borne jointly by public and private enterprise. Whether the scheme would be eligible for 75 per cent grant from the Ministry of Transport it is too soon to say, but the general opinion at the Housing Centre was that it ought to be.

DSIR

New Chairman Appointed

The Minister for Science, Lord Hailsham, has appointed Sir Harold Roxbee Cox to succeed Sir Harry Jephcott, as chairman of the Department of Scientific and Industrial Research, this September.

Sir Harold is an engineer by profession and has spent over 20 years in government service where he has done pioneer work on jet propulsion, gas turbines and problems of fuel and power. He was Chief Scientist of the Ministry of Fuel and Power for six years, and is chairman of the National Council for Technological Awards.

URBAN RENEWAL

Week's Exhibition in Belfast

A group of young architects in Belfast organised an Urban Renewal week from May 8 to 13, at which four local projects were illustrated to supplement the SPUR exhibition, which had come from Dublin—three specially designed for the exhibition, and speculative, the fourth a design by the Housing Trust for a slum area in Londonderry which is about to begin.

A lecture on different aspects of urban renewal was given each night (Lionel Brett, Kenneth Campbell, Colin Buchanan, Noel Moffett, Eric Lyons, Richard Edmonds, Arthur Ling). The exhibition itself was opened by Sir Hugh Casson.

In other words, the Architectural Group, largely based on the Belfast office of Munce & Kennedy, has tried very hard indeed. I wish more architects had this kind of spirit, which is something very different from simply mounting an exhibition of the work of the local chapter (exhibition is the right word for some of it).

This is a fighting plea for urban design, and in Belfast there is plenty to fight against. Urban renewal and decent modern buildings are only the beginning. The scheme for Londonderry in the exhibition is much better than a housing estate miles out of town, but is still nowhere near catching the gaiety and vitality that is as evident in Ulster as it is in Dublin.

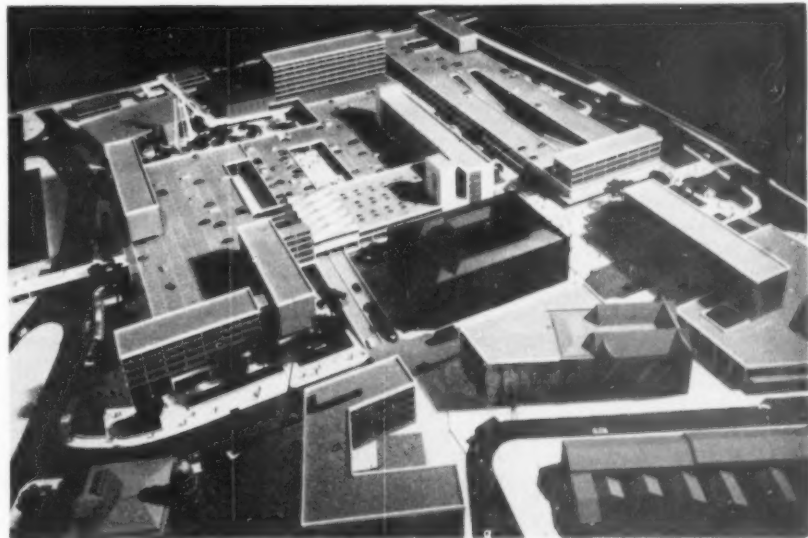
And if any urban renewees merited a really virile and vital urban environment it is the proud, under-employed citizens of Derry City. It is about time that England took a bit more interest in one of the most fascinating towns in Britain, founded, incidentally, by the City Companies in the 16th century.

I. N.

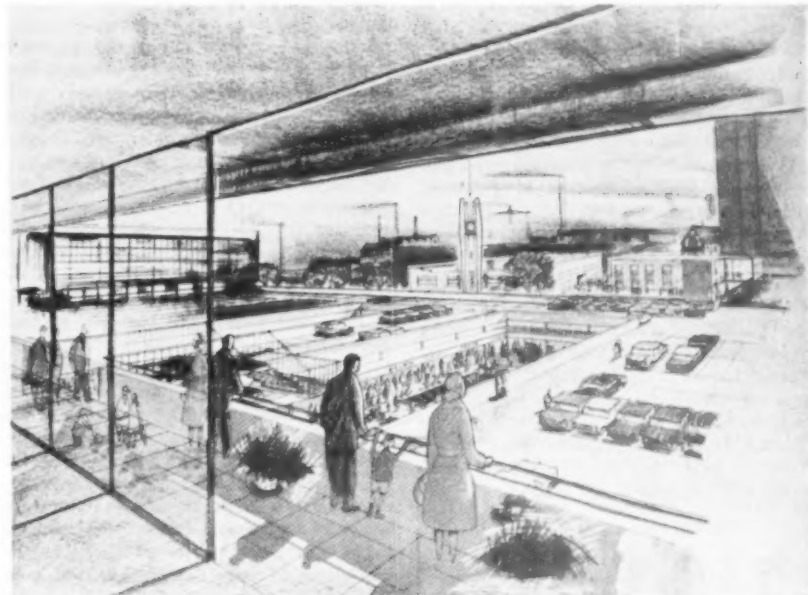
Blackburn's Comprehensive Development Plan

For the past 35 years Blackburn has drooped increasingly into a sort of civic slough until today its anonymous, grimy face is indistinguishable from a dozen other east Lancashire towns. Between the wars its 70 per cent textile industry had a 40 per cent unemployment rate and this did not encourage redevelopment. During the Second World War the town suffered no significant bomb damage, but its buildings sank to further decay. For the last 15 years the Council has sought practical and effective means of lifting the town up by its bootlaces.

The temptation to auction attractive sites off to commercial development corporations was resisted (neighbouring boroughs please note!) and piecemeal development rejected in favour of comprehensive rebuilding. The result was the appointment three years ago of the John Laing Organisation, and their brief was to examine impartially the entire town centre and to put forward proposals for the 150 acres comprising the commercial centre of the town.



Blackburn's central development plan: above, the model; below, perspective of the shopping area from the upper pedestrian terrace of a block of offices and flats



This is by far the largest scheme of its kind in the country, and detailed considerations apart, Blackburn are to be congratulated on taking so bold a step under the dynamic leadership of the Development Committee's Chairman, Councillor Eddy—would that every borough had a chap like him! Laing's public relations section presented the new scheme, including an excellent "breakdown" model which showed the proposals for the six-stage plan. Basically, full use is made of a pronounced cross fall to provide basement service to shops above, while 1,000 cars are parked on a second floor level which is in turn overlooked by offices and flats. Thus, while no car is allowed within the 15-acre central commercial area, motorists can drive right up to each shop and descend to the pedestrian shopping level.

One hesitates to criticise in any way so bold a slate wiping, but, while there is yet time, the developers could well spend more time contemplating the sea of asphalt the 1,000-car roof space presents to the offices and flats—bare by night, a choppy disarray of cars by day; the wisdom of having the heavier than air fumes descend into the shopping courts; the problems of light and ventilation to some of the inner arcades; the single entry ramp to the main car park roof; the absence of ramps or pram access to shops, and although it is perhaps early in the day to criticise architectural character, the overall massing has some very weak moments and if, as has been suggested, Laing's call in help from private architects, they must work hard to ensure Blackburn gets its full measure of reward for so sweeping a venture.

YORK INSTITUTE

Thumbs Down for Rings?

The Institute of Advanced Architectural Studies course on "Traffic in Towns" at York this month was noteworthy in that none of the lecturers had a friendly word to say for ring roads.

Two of them (Professor Fisher Cassie and Nigel Seymer) referred to the paper presented at the recent symposium by an American planner, Howard Fisher, who contended that the "almost sacred concept" that the road system of an urban area must include both radial and ring roads (called "circumferentials" in the USA) was an outmoded concept.

"Both radials and circumferentials tend to displace more-urgently-needed area-serving arteries," Fisher maintained. "Radials in particular direct traffic into difficult, undesirable and unnecessary concentrations—consuming vast financial resources in their betterment, seldom solving and frequently magnifying other problems."

Instead of the radial-cum-rings pattern, Fisher favoured a large-scale grid pattern of roads. "Road layout should contribute to the achievement of a desirable land-use pattern—and, whether we like it or not, the land-use pattern for the accommodation of a large metropolitan population must be a DIFFUSED pattern. . . . Everything tending to a smooth and at least roughly equal flow, at all locations and in all directions, should be sought."

"Thumbs down" to radial and ring motorways does not, even in the USA, mean thumbs down for central business districts. This would retain its importance, performing specialised functions for an entire region, especially if it is easily accessible by "rapid transit"; but it would become of relatively less importance as a place of employment and a generator of motor traffic (in San Diego it is expected that, in the "horizon year," less than 5 per cent of all traffic will originate in the CBD).

ICS AND ILA

Joint Meeting

This month's joint meeting of the Institution of Civil Engineers and the Institute of Landscape Architects was described by Sir Alan Quartermain as "momentous." Momentous or not it was certainly unusual.

It must have been an unusual experience for the "civils" to be shown a picture of a Henry Moore sculpture and told that he was one of the greatest of living Englishmen, whose work should be an inspiration to the designers of roads and nuclear power stations. But they heard this from G. A. Jellicoe.

He summed up the different approaches of engineer and landscape architect thus: "To create a work of SCIENCE there must be an exact application of physical laws. . . . In order to create a work of ART, as opposed to one of nature, however, it is positively necessary to distort the physical laws; and it is ultimately the outcome of this

distortion that completes a civilisation." But Mr. Pitman (Principal Planning Assistant in Roads Department of County Hall, Maidstone) pointed out that vehicles are bound by Newtonian laws which must on no account be distorted; road design is a problem of dynamics, and, wherever the needs of dynamics conflict with aesthetic requirements, dynamics must prevail since human lives are at stake.

George Langley-Taylor thought that the ILA was tackling a job that had lain dormant for far too long; but S. G. Wardley, City Engineer of Bradford (who is in charge of that city's housing programme) maintained that an engineer who is passionately interested in aesthetics and in trees, as he is, could do as well as any landscape architect in laying out housing estates and moulding spoil heaps—and what was wrong with the Preston and Lancaster motorways, both designed without benefit of landscape architects? Mr. Rosevear suggested that the creation of the ILA was the result of a failure on the part of the RIBA to recognise the importance of landscape architecture (there had been similar breakaways in the engineering profession). Engineers ought, he maintained, to be "the giants of today" just as the architects were the giants of previous centuries. A great opportunity had, he thought, been lost of building a really splendid modern building to house the nuclear power station in North Wales—he insisted the site was not a beauty spot.

Mr. Rose (County Planning Officer of the Isle of Wight), who is a member of both ICE and ILA, questioned whether landscape architects were really architects at all—they would do better to call themselves "landscape designers." There was no clear dividing line between their work and that of road designers.

Miss Sylvia Crowe suggested we should follow the American practice of taking more land than was really needed for a new road, rounding off the tops of embankments, and then returning part of the land to the original owner. She agreed with Mr. C. S. Chettoe, who presented a paper from the engineer's viewpoint, that "the greatest works of art will not be produced by the application of rules, though these will help; they will only be evolved through inspiration. . . ."

HOSPITALS

Scotland's Building Programme Speeded Up

The Secretary of State for Scotland has told regional hospital boards that their £20 million programme of rebuilding and replacement can be carried straight through, instead of in a series of separate phases: his decision has been welcomed by the regional boards and their architects as making the job both simpler and speedier.

"Apart from anything else this makes fairly sure that no one is going to start modifying the thing once it is started," commented J. K. Johnston, the secretary of the Eastern Regional Hospital Board.

Hospitals affected are: the Royal Infirmary, Edinburgh, the Western Infirmary, Glasgow, and the replacement of Dundee Royal Infirmary with a new hospital at Ninewells.

BUILDING SOCIETIES

Up the Budget!

The Building Societies Association claim that because of their increased liability to Profits Tax in 1961-62, they may be "forced" to raise their mortgage rates. The societies complain that while they paid £1½ million Profits Tax in 1954-55, in 1960-61 it had increased to £2½ million and will this year probably be over £3 million.

"Where will this money come from?" their bulletin asks. "It will have to be extracted from the difference between the interest which societies pay to their shareholders (3½ per cent) and that which they charge to borrowers (6 per cent). . . . We are therefore forced to the conclusion that if the burden of taxation continues to increase, the working margin will have to be expanded. Under present conditions this could only be achieved by some upward adjustment in mortgage rates."

CEMENT PRICE RISE

Passing on the Fuel Oil Tax

The Cement Makers' Federation have announced that they have increased the price of cement from May 1, by 3s. 3d. a ton, to offset the new tax on fuel oil and increases in coal prices since last autumn.

NEW TOWN?

Fife gives Permission

Fife Planning Committee has given planning permission for what is called a "new residential town" at Dalgety Bay, near Aberdour. As the ultimate population will be only about 7,000, however, it does not seem likely that the development can amount to much more than a housing estate. The site is near the new bridge over the Forth, which, when completed, will bring the "new town" within 35 minutes by road of the centre of Edinburgh—and presumably add to the concern already being expressed about what the traffic over the new bridge is likely to do to Edinburgh's New Town.

FLINTSHIRE COUNTY COUNCIL

Appointment of County Architect

The Flintshire County Council has announced the appointment of R. W. Harvey, A.R.I.B.A., as County Architect: he was previously the Chief Assistant Architect to the county, and was selected from 38 applicants for the post.



An International Children's Village in Sussex

Commissioned to build an international children's village for the Pestalozzi Children's Village Trust, on the Sussex downs near Sedlescombe, Sir Hugh Casson and Neville Conder were determined that it should be a real village, with village qualities, without "any trace of Noddyland about it—no offence to poor Miss Blyton," as Sir Hugh told his press conference.

This village will house about 300 homeless children when completed, largely refugees from the various political upheavals of this decade, but including some English deprived children: up to 14, they will live in groups in 15 "national houses" with house parents of their own nationality; older children will move into two "international houses"; these, with staff flats and houses, and community buildings will form the village, sited in sloping parkland in the grounds of an old house, Oaklands, in which the first children brought to Sedlescombe are now living.

Above, the model of the village: entered from the left, it will be entirely pedestrian; cars are parked or garaged under the avenue of trees at the entrance. Beyond this point, stores will be delivered in small electric trolleys. The main community buildings are grouped here, the assembly hall (the largest and only rectangular building) flanked by games rooms, offices and stores, with warden's house and staff flats below (in top picture) and staff houses and a close of national houses beyond.

From this central group three "streets" of children's houses curve away and round the village green, most of those in the foreground being "national houses," while the two international houses are beyond the green, flanking the meeting house and snack bar on the green, and near the non-denominational House of Worship beyond, set slightly apart among trees.

Building has already begun of the Meeting House (left, below) beside which can be

seen three of the national houses beyond the green. All the buildings of the village will be of local materials and traditional style, using Sussex brick, slate, tiles and weatherboarding, but the houses will differ, using the slope of the land to tuck additional storeys underneath in some cases, and with their own gardens and backyards, in which Sir Hugh expressed the hope that there would be "sheds, chickens, rabbits and clutter." Beyond the meeting house a "vertical feature"—flagpole, maypole, what-you-will—may be a useful landmark for small, new, strange children who wander off into the downs or down to the pond, at the bottom of a steep wooded hill (right of model).

How quickly the whole thing is finished depends on the speed with which the £850,000 required comes into the Pestalozzi Trust from the charitable, the grateful and the guilt-ridden inhabitants of our exceptionally safe and comfortable island.



BOOK REVIEW

"Motopia" by G. A. Jellicoe, published by Studio Books, Long Acre Press, 2 guineas.

This book has been published at a time when official and public opinion is beginning to appreciate the necessity for some concrete and national approach to the redevelopment in our towns, on lines to solve the problem of human beings and motor cars occupying the same thoroughfare.

G. A. Jellicoe, the author, is well known as an architect planner and landscape architect, and it would be difficult to find one more qualified to prepare a study in urban landscape. It is also fitting to acknowledge the enlightened outlook of Messrs. Pilkington Bros., the glass manufacturers, who set up the "Glass Age Committee," (probably as a publicity stunt), with such distinguished members as the author, Ove Arup and Edward Mills.

In an age when visual methods are used to influence public taste and choice, a picture book (and indeed this is a picture book) is probably as good a way as any to convey to professional and layman alike the intentions of the author.

The book is arranged in seven parts. From illustrations on the history of town design to the proposals for Motopia at the end, a succinct and well-illustrated text captures the interest of the reader.

The idea of Motopia, with its proposals for flatted dwellings, grid-iron planning, landscaping in the English tradition and roads on roofs is fascinating. One can see the influence of the Circus at Bath, the Bedford Estate at Bloomsbury and Le Corbusier's vertical city. It offers a solution to the problem of segregating pedestrians from vehicles, with particular emphasis on putting the latter in the right place, and offers to man efficient but pleasant living conditions.

Whether the solution is one which would create a town with a sense of community or township in the way we know is open to argument. There are likely to be doubts on this score, particularly as it might be difficult to obtain a sense of urbanity in such an arrangement. It is obvious from the scheme that that part of the author which is landscape architect has become the dominating influence, which has thus produced primarily a landscaped setting for the town. Those among us who support the more urban school of planning may feel that the landscaping is overdone, however pleasant and idealistic it appears at first glance, although we would subscribe wholeheartedly to the author's planning principles. Utopia may be an ideal at which to aim, but there is a danger of monotony; architecture, like life, needs its shocks and strident notes to give punch and reality to the scene.

The book illustrates many examples of town design, both old and new, and demonstrates the latest schemes which have come to fruition. As an exercise in contrasts one is recommended to compare the suburban scene on page 40 with that on page 41 (the latter showing some of the London County Council's work), and the general view of



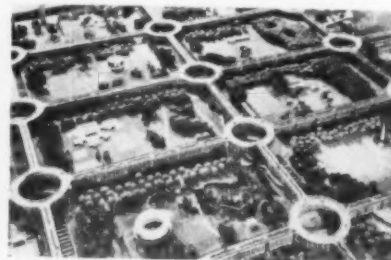
Motopia on page 147. It is also interesting to be reminded that our forefathers gave considerable thought to methods of putting railways above or below street level, they were thinking of grade separation a hundred years ago.

One could not omit from this review the contribution made by Gordon Cullen, in providing the coloured sketches which punctuate this book. These are, as always, masterly and to the point.

Undoubtedly this bold and imaginative book is a real contribution to the planning of modern towns, a must for serious students of town planning and urban renewal.

L. G. VINCENT

Contrast expressed in two suburban scenes: top, semi-detached pattern at Watford. Centre, LCC flats at Roehampton. Below, Motopia—Jellicoe's traffic segregated town



Harlow Housing Competition

As announced in last week's issue, the competition sponsored by the Harlow Development Corporation for the layout and design of housing in the Passmores Neighbourhood, Harlow New Town, resulted in the first premium of £1,000 being awarded to Michael Neylan, A.R.I.B.A. The second premium of £750 was awarded to Geoffrey J. Darke, A.R.I.B.A., Dipl.Arch., and Robert Blom van Assendelft (consulting quantity surveyors: Gilbert Powell and Derek Slatter), and the third of £500 to David Croghan, M.A., A.R.I.B.A., in association with David Davies, M.A., A.R.I.B.A. (consulting quantity surveyor: Victor Bugg, A.R.I.C.S.). In addition, three schemes were commended by the assessors. These were the schemes submitted by Francis J. Bancroft, A.R.I.B.A., Dipl.Arch., and Philip Rogers, Alan Goodman, A.R.I.B.A., Dipl.Arch., and A. J. Short, A.R.I.B.A., A.A.Dipl., and M. R. Crux, A.R.I.B.A., M.S.I.A. There were 41 entries in all. The assessors were H. T. Cadbury-Brown, A.A.Dipl.(Hons.), F.R.I.B.A., and Victor Hamnett, B.Sc., A.R.I.B.A., Dipl.T.P., A.R.I.C.S., A.M.T.P.I. (executive architect to the Harlow Development Corporation).

The promoters made a point of including in the conditions of this competition a statement to the effect that architects should be given a freer hand to solve the old problems of mass housing in new ways.

With this statement written into the conditions, the promoters, the Harlow Development Corporation, made it clear that they believed that the time had come for a radical rethinking on the layout and design of urban housing: an attitude that they can be assumed to have adopted as the result of their practical experience at the new town. The Corporation must be congratulated for such a forward-looking attitude and for taking the bold step of organising a competition at a time when it would not have been difficult to find sound reasons for not doing so.

Inevitably the question arises: has the result justified holding a competition in these terms? The assessors appear to believe that the result has been well worth while. In their report they say: "In general they (the entries) were of a high standard and showed that the competitors had entered into the spirit of the proposals as was amply demonstrated from the reports accompanying the schemes. We feel that the competition has been very successful. . . ." In general the competitors' reports indicated that they had taken to heart the promoters' aims in organising this competition. But whether the competitors (with the outstanding exception

of the first premiated design and with the exception of one or two others) really produced much that was new is debatable. In the event it is not difficult to see why the assessors chose Michael Neylan's design for first prize, despite the fact that it was not particularly well presented. Whilst the concept behind this design is simple enough, its execution (i.e., the central core) is not quite so simple and it would have helped matters had the drawings been clearer.

The Problem

The assessors describe the site as being more varied in contour and more particular in character than other housing areas in Harlow. It is bounded by a belt of trees to the north, an approach road to the east and overlooks a valley towards what will be a neighbourhood centre.

The problem called for the layout and design of a minimum of 270 dwellings of which 40 per cent were to be flats. Houses were to provide accommodation as follows: 37 per cent of the houses to be for four persons, 58 per cent for five persons and 5 per cent for six persons, with a permitted variation of 10 per cent on these percentages. The overall target cost given was £540,000 which was to include, as well as the dwellings, the paths, services and external works to the dwellings, provision for cars by garage or otherwise, screen walls and retaining walls, pedestrian paths

and connecting ways, secondary water mains arising from the particular layout and planting generally and landscaping of any open spaces within the confines of the site. The cost of roads, sewers, water mains, pavings, etc., outside the curtilage of the dwellings was not included in the overall cost target as these will be designed and carried out by the Corporation's Chief Engineer based on the architect's layout.

Competitors were expected to provide 90 per cent of all houses with reasonable size gardens in direct contact with the dwellings. This did not preclude patios and other variations.

Motor-car accommodation had to be provided to give a total of 100 per cent provision to all dwellings, the promoters having accepted the idea that future planning must allow for one car per family.

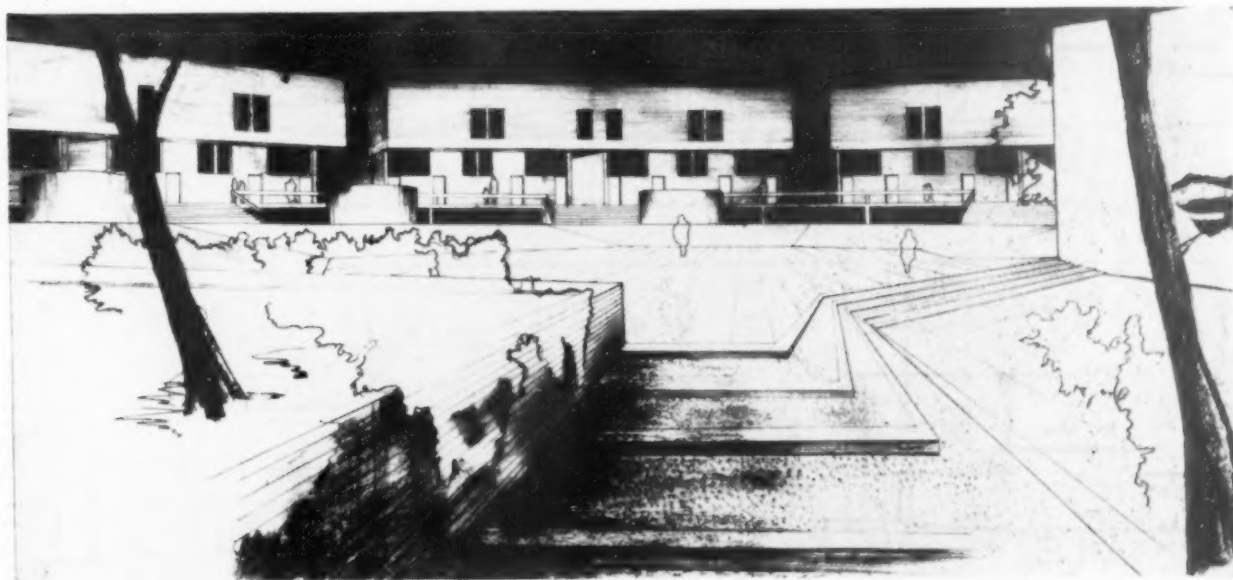
The Assessors' Report

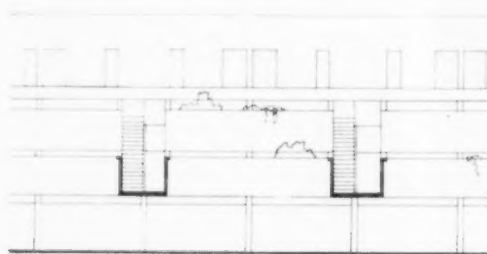
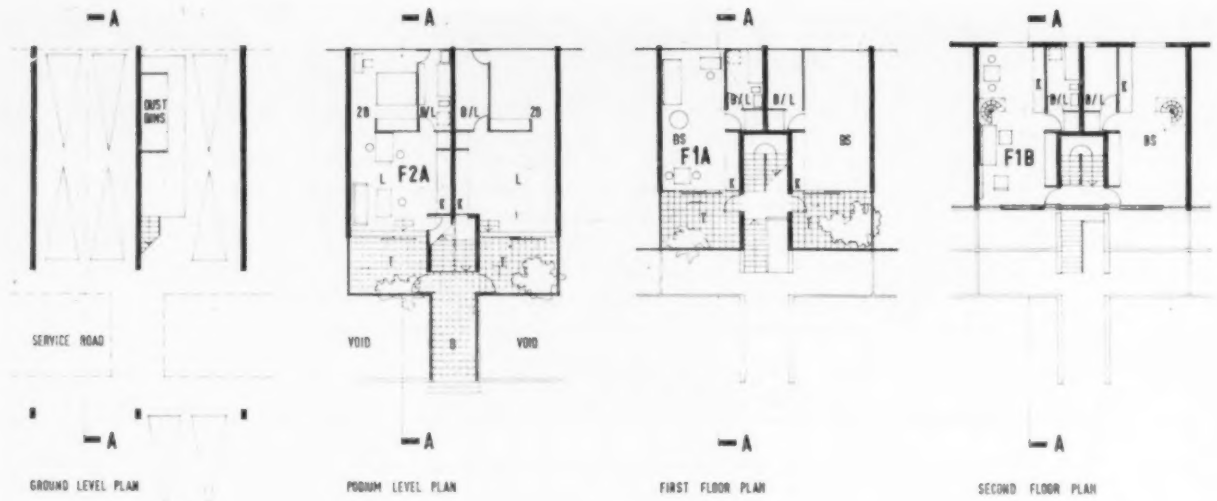
The following are extracts from the assessors' report.

"1. Layout

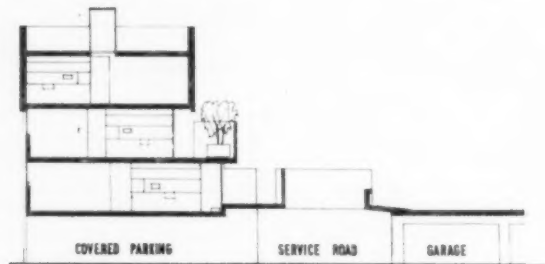
(a) The greatest division was between those which operated almost completely within existing practice and regulations and those which did not. There were many good examples of the former but, there being implied in the competition an opportunity for fresh thinking these designs, however good and acceptable in themselves, were at a disadvantage when compared with others

Perspective of the winning design looking south across the central podium





PART S.W. ELEVATION



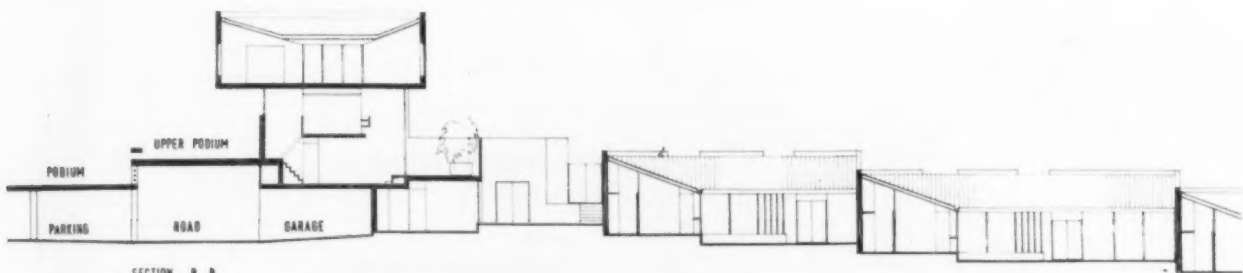
SECTION A-A

Plans, section and elevation of flats blocks surrounding the central podium

Sections through the site



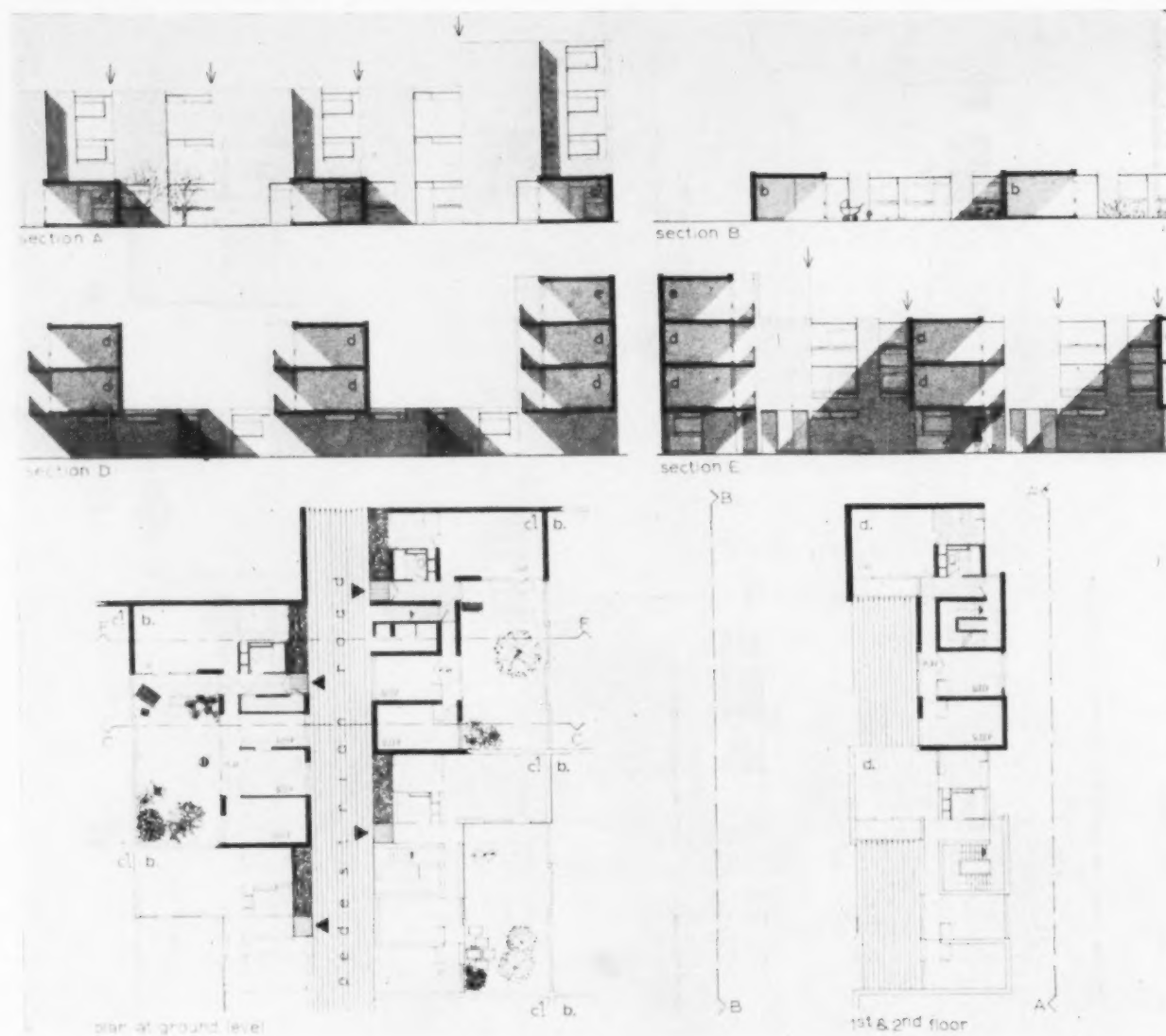
SECTION A-A



SECTION B-B

Site layout second premiated design by Geoffrey V. Darke and Robert Blom van Assendelft





Plans, sections and elevations of the flats units

(c) Road access to all houses which have their own garage or car port.

(d) Small spur roads or 'ways' shared by pedestrians and cars.

(e) Complete segregation, even bridges for pedestrians within the site.

Much depends on the particular handling of the idea. (a) and (b) preserve the house from the car and traffic and have great possibilities especially if the distance to the house is not too great and can be under cover. (c) is a system about which a lot is already known. (d) has possible application providing the sharing of the way between pedestrian and car is very limited in area. It was felt that it would not be satisfactory if the area included more than three or four houses sharing a communal garage approach within which people would feel a common obligation to each other's safety.

3. Motor Vehicles (Delivery and Public Service)

The provision of these is closely connected to the car problem. However, many com-

petitors with schemes showing centralised parking proposed trolley delivery down pedestrian ways, proposals which seem quite acceptable. In addition some of the pedestrian ways had been designed wide and high enough to take vehicles such as ambulances in an emergency."

The Winning Design by Michael Neylan

Of the winning design, the assessors have the following to say:

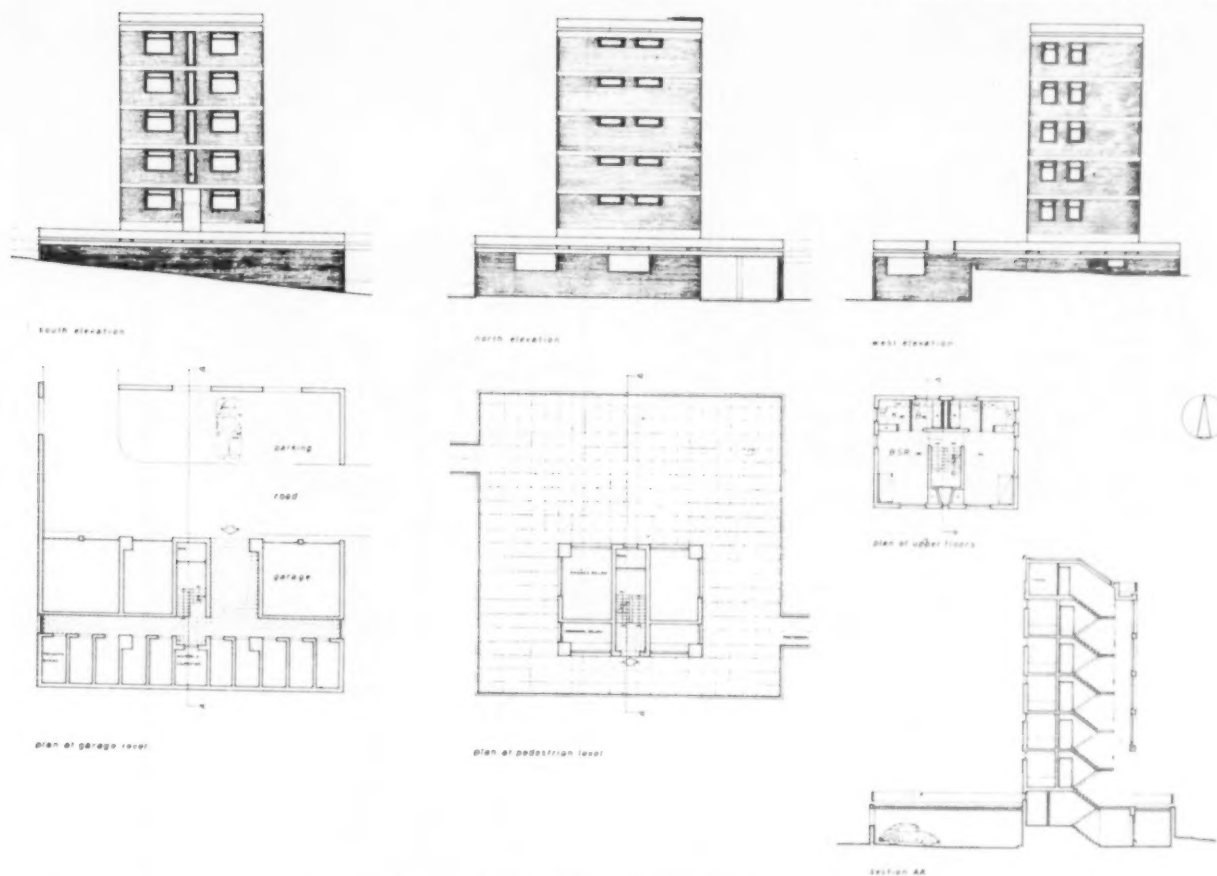
"This design has a bold and imaginative conception and we have great confidence in recommending it as the winner. Basically it provides an efficient vehicular circulation system separated from pedestrians. It exploits the shape and contours of the site to form a raised podium for pedestrians, with traffic circulation and car parking below, and by this means it removes the parked car from the street thus gaining visually and increasing safety. At the same time both the car and the pedestrian are at the centre of the layout. We would like to make the following comments on this design:

1. It is noted that the houses are deficient by six from the stipulated minimum. However, it is considered that this should not invalidate the scheme, particularly since this total accommodation is obtained without the use of multi-storey building in the orthodox sense.

2. The covered service road is considered too low at 12 ft. and would require a further 6 in. clearance for fire or refuse vehicles.

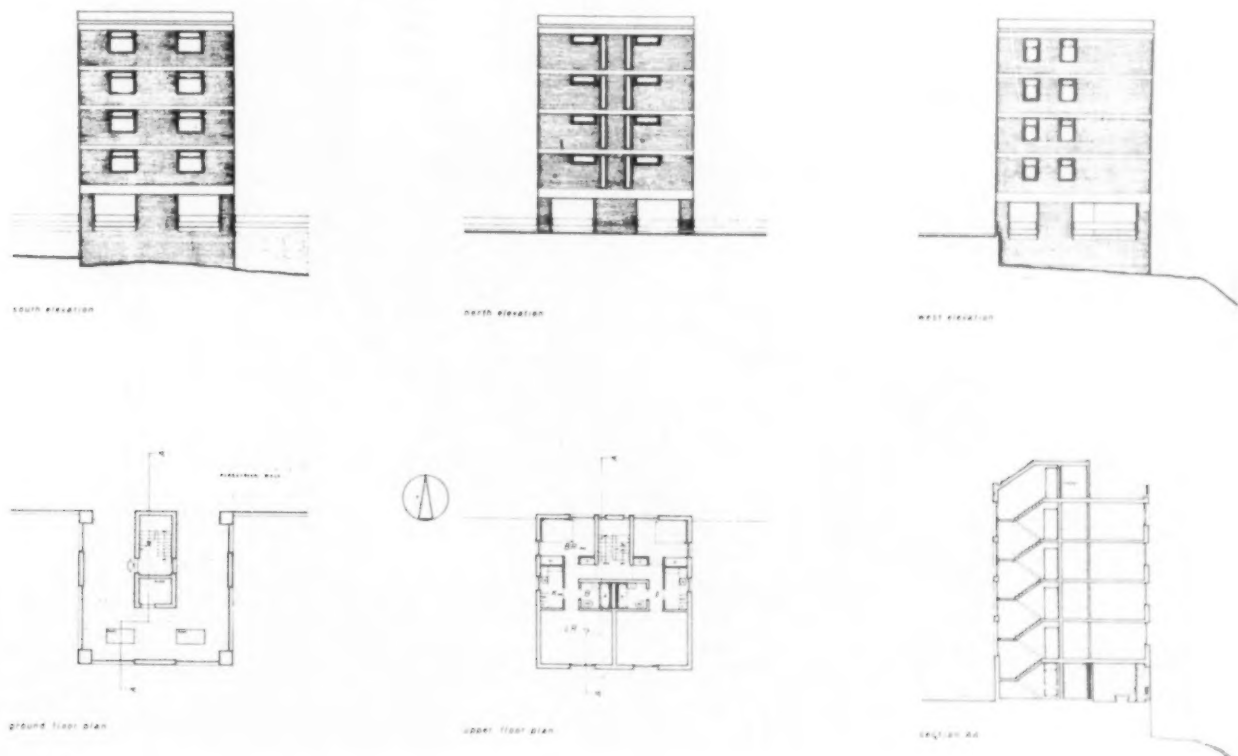
3. It is recognised that the pedestrian paths which cross the contours will have considerable slopes and cannot be stepped if they are to be used by trolleys. It may be necessary to devise safeguards in the form of occasional barriers against prams rolling away or children on scooters and similar problems. At the same time, some of the paths are rather long and it might be advisable to omit one of the courtyard houses on such a path, thus forming a small open public space on to which some of the surrounding courtyard houses could look.

4. The bathroom/laundry is a good inno-

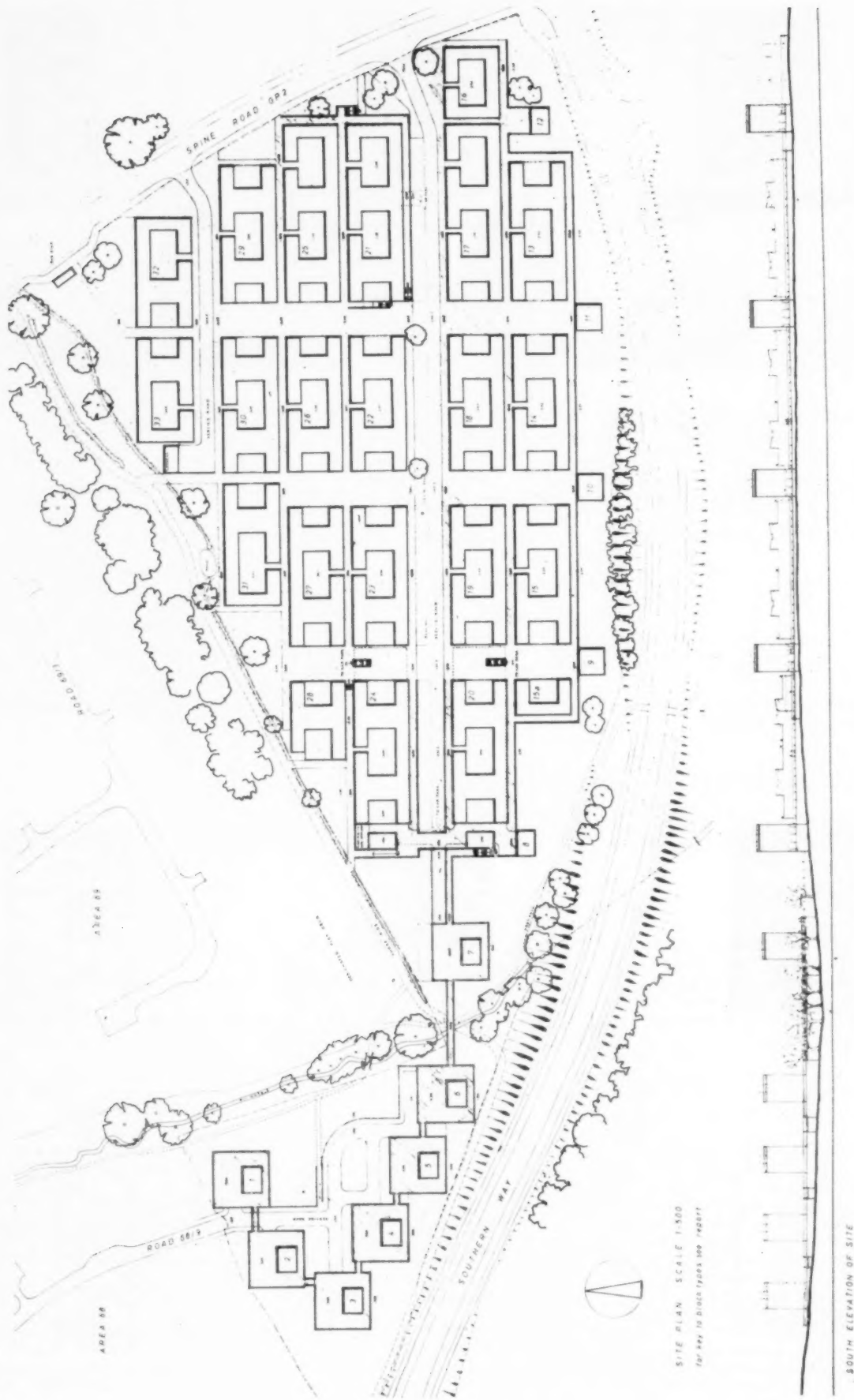


Plans, sections and elevations of the one-person five-storey flats (blocks 1 to 7 on the site layout) for the third premiated design by David Croghan in association with David Davies

Plans, sections and elevations of the two-person four-storey flats (blocks 9, 10, 11)



Site layout of third premiated design





Site layout of the commended design by Francis J. Bancroft and Philip Rogers

Site layout of the commended design by Alan Goodman and A. J. Shor



vation which leads however to a complicated sliding door system to ensure that the W.C. compartment opens from a ventilated corridor. In its present arrangement it seems unsatisfactory.

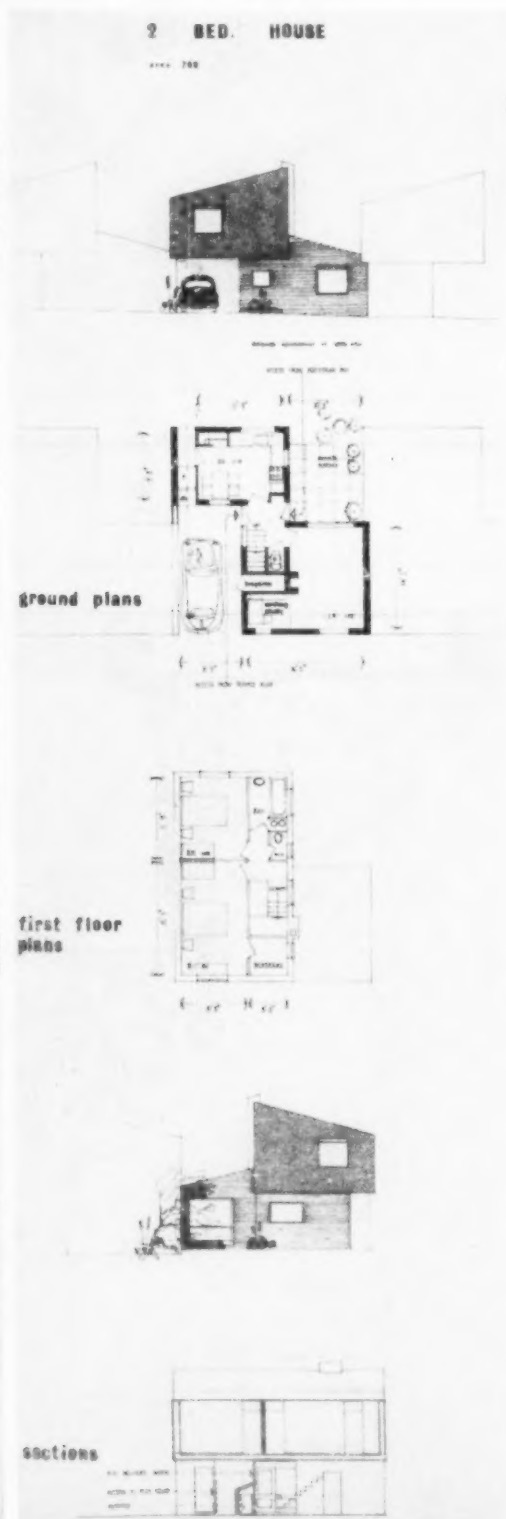
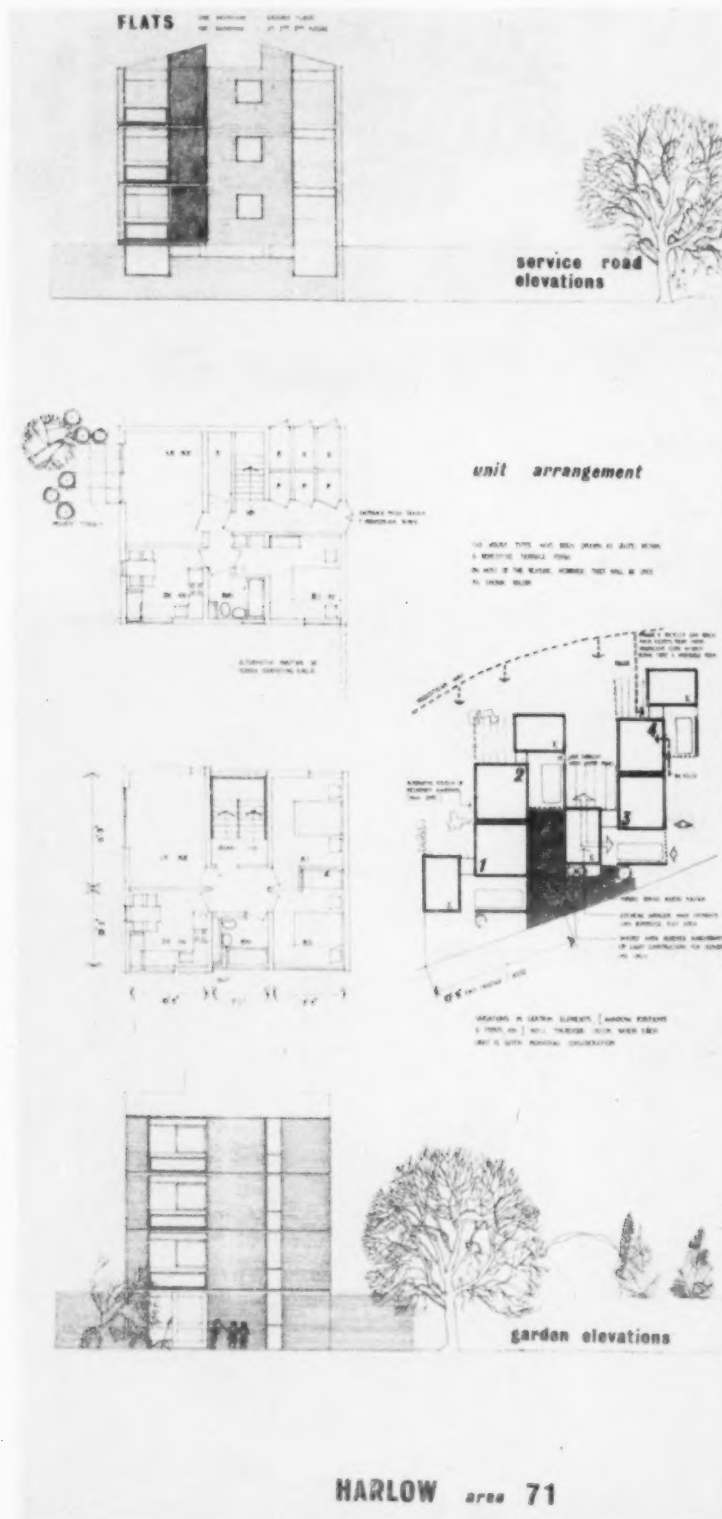
5. The flexibility in the planning is made available to a large extent by the adoption

of electric underfloor background heating with electric 'topping up' and electric space heating separately metered. This scheme would seemingly lend itself to a centralised system of heating throughout the main area of the housing.

6. The details of the maisonette and small

flat are not as well worked out as the houses. The stairs of the maisonette will have to be adjusted to give better headroom, and it was felt that direct entry into the living room of the small flat would be unsatisfactory. The planning of the W.C. will also require some amendments.

Plans, sections and elevations of one- and two-bedroom flats, left, and two-bedroom house, right, of the commended design by Alan Goodman and A. J. Short



7. The provision of a separate room in the large houses on the far side of the covered entrance is admirable for a relative or as a study bedroom. The W.C. entrance will however require amending.

8. The competitor's estimate of cost amounts to £537,500 for 264 dwellings. We consider that the proportion of the cost attributable to the houses is low but note that £62,500 has been included in the estimate for the central podium and the provision of garages, etc. Some of this cost is considered as properly chargeable to the civil engineering works and particularly having regard to the great economy of the roadworks generally in this layout."

The following are extracts from the winner's report.

"The platform is an irregular shape, a rough crescent following the line of the contours. Around its edge dwellings are arranged in a series of blocks at right angles to it and the contours, and accessible both at pedestrian and service level. The smaller site to the west is developed to echo the larger one.

The landscaping of the site is confined largely to earth moving and shaping. The various entrances to the podium are approached by stepped earth mounds formed from the topsoil excavated in constructing the underground garages.

Landscaping relies on contrast between clear sweep of grass between blocks with the broken silhouette of the blocks themselves and the small scale planting which it is hoped would be established in the courts. The grass between the blocks would be left rough and not regularly mown."

Second Premiated Design by Geoffrey J. Darke and Robert Blom van Assendelft

The assessors state:

"This scheme, also supported by a very good report, is one of great quality. From the human aspect the author's aims were that:

"From the development there should emerge a comprehensible pattern as much intelligible from the outer landscape of the road and to the other parts of the town as from the inside of the development itself. A pattern which is comprehensible as an encrustation of building, concentrated on the rising hillside to the edge where the landscape starts."

The total estimated cost of this scheme is £537,260, made up as follows: (i) dwellings for letting at normal rental £429,360, (ii) dwellings for letting at high rental or for sale £76,130, (iii) approach paths to single storey dwellings outside the curtilage but specific to the individual dwellings £640, (iv) garages £21,400, (v) landscaping £9,730.

Third Premiated Design by David Croghan in association with David Davies

The assessors comment on this scheme as follows:

"A geometrical layout based on a unit formed from four houses. The planning of this small group was most successful, giving adjacent garden courts at ground floor level and living rooms and large roof terraces at first floor level where privacy was more complete.

The estimated cost of the scheme is £580,000, comprising (i) £500,800 for the housing, (ii) £60,000 for covered accom-

modation for cars and (iii) £19,100 for site works (retaining walls, steps, footbridges and planting). The assessors consider that the competitors' estimates of the cost of the houses may be low and that economy could be effected by better grouping of the underground car parking space.

Commended Design by Francis J. Bancroft and Philip Rogers

From the assessors' report:

"This was one of the most imaginative and attractive schemes submitted, but it was felt that the very close integration of people such as occurs in the main 'squares' would demand a relationship more akin to a close collegiate life rather than a group of relatively disassociated families."

Commended Design by Alan Goodman and A. J. Short

From the assessors' report:

"This scheme brings the car to the front door and arranges for this more successfully than other competitors with the same object."

Commended Design by M. R. Crux

From the assessors' report:

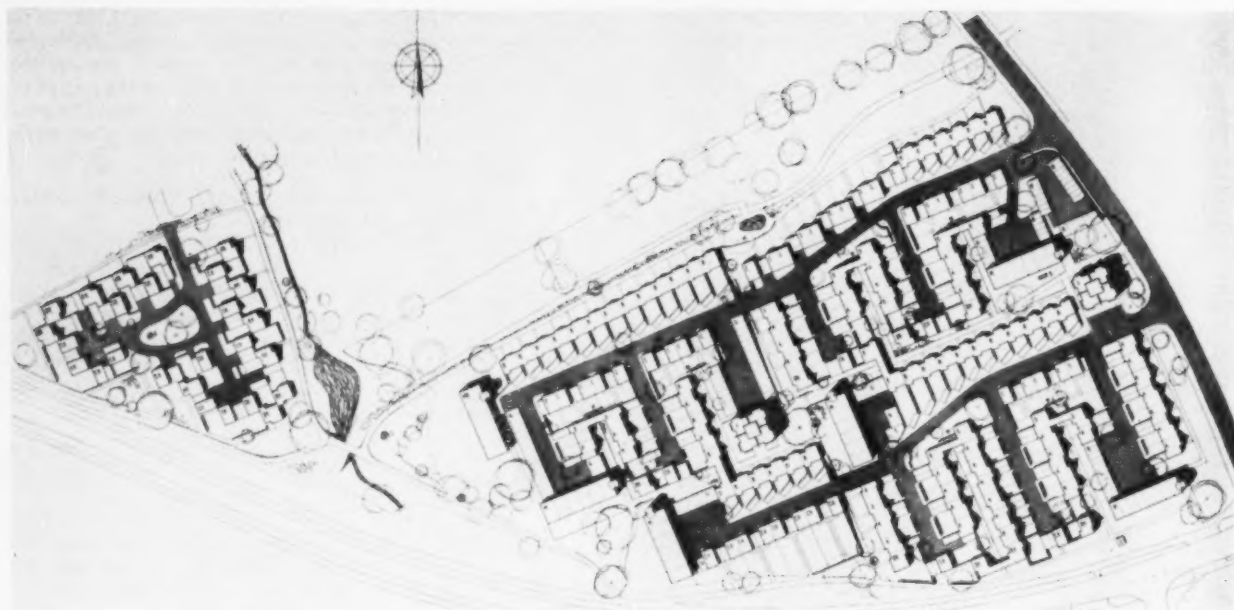
"This is a good and consistent scheme and is commended. The buildings are well related to the site and it is felt that the outer ring of houses would be particularly successful. The repeat unit of four houses from which they are made could produce an agreeable social group."

Design by David Dry and Katharina Halasz

A feature of the assessors' report was that every one of the schemes submitted was

Site layout of the commended design by M. R. Crux

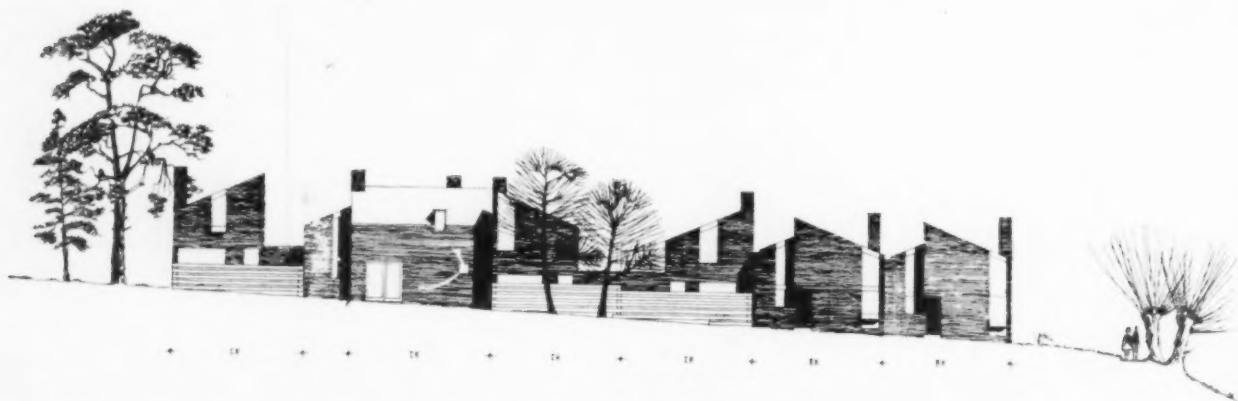




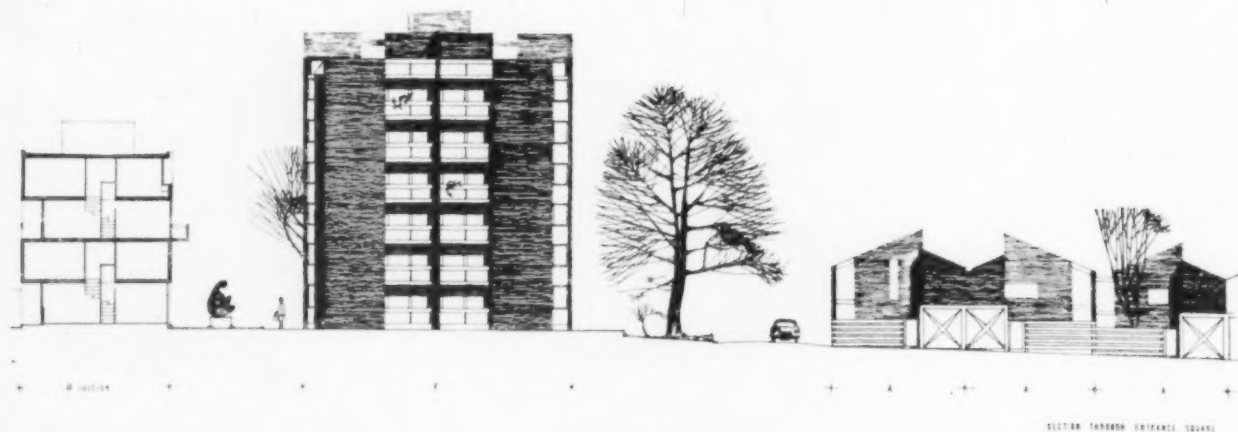
Site layout of the design by David Dry and Katharina Halasz

commented upon. Of this particular design the assessors say:
 "Deals competently with segregation of pedestrians and cars. This design seems to aim at and has achieved a picturesque solution to the problem which at times, for example, in the oval staircase to the flats, seems rather forced."

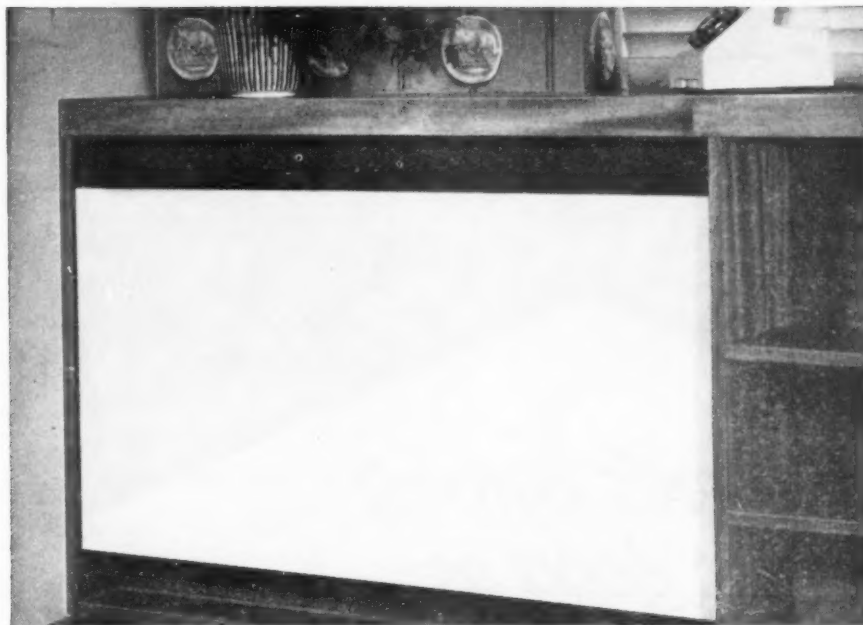
S.E. elevation of houses on the smaller site



Section through the entrance square looking east



RADIATOR FASCIA PANELLING IN **Weyroc**



LOCATION: Modern Office Block, Holborn

ARCHITECTS: Drew & Salisbury

PROBLEM: To replace, by some practicable, solid material, all-over metal grille fascias which were restricting heat output from radiators. The required material had to ensure maximum heating efficiency, while remaining inert, and be easily and economically decorated.

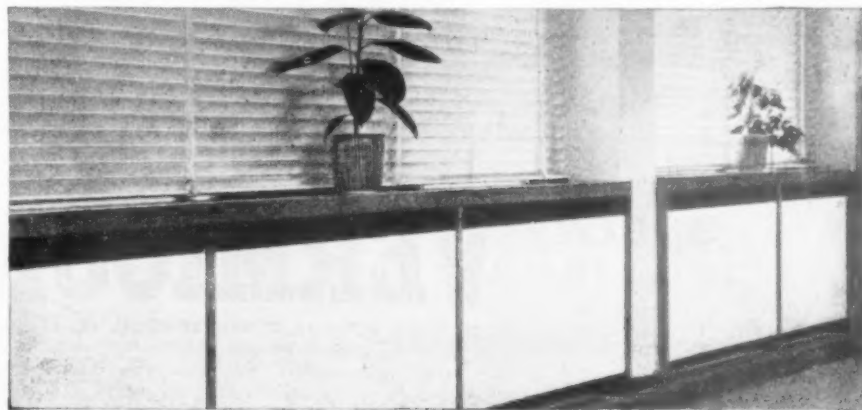
WHY WEYROC WAS THE ANSWER: In choosing Weyroc for the job, the Architect was influenced by its stable characteristics which make it resistant to heat without shrinking, twisting or warping. Moreover, the quality of the Weyroc surface allowed for simple working and finishing (in this instance, with paint). Trade price of Weyroc ($\frac{3}{4}$ " nominal) is 1/6d. per sq. ft.—subject to the usual standard discounts.

8' x 4' boards of Weyroc were cut to required panel size and hinged to allow access to radiator.

Convection efficiency was achieved by leaving air intake and outlet spaces at bottom and top, and by fitting a curved cove behind the radiator.

NOTE FROM THE MANUFACTURERS OF WEYROC

Fascia Panelling is only one of many applications of this constructional 'sheet' material. Weyroc is also being used with great success for partitions, roof-cladding, built-in fittings, bath panels, doors, shelving, etc. We shall be glad to supply Architects with a detailed Weyroc specification sheet and board sample, on request to: Dept. A.J.19



THE AIRSCREW COMPANY & JICWOOD LIMITED • WEYBRIDGE • SURREY



*There's nothing
as good as
Vermiculite for*
ROOF SCREEDS

- * Warm in winter
- * Cool in summer
- * Resists fire
- * Saves weight
- * Anti-condensation
- * Absorbs sound

specify **VERMICULITE**

FOR ROOF SCREEDS, FLOOR SCREEDS, PLASTERS AND LOOSE FILL



Send for full details :—
The Association of Vermiculite Exfoliators
59 Gresham Street, London, E.C.2 Telephone : METropolitan 9101

THE INDUSTRY

This week Brian Grant describes office partitions, an acoustic tile, plastic conduit, a standardised w.c. compartment and a booklet on timber frame construction.

Office Partitioning

The new D.W. demountable partition is based on a mahogany framework taking Flexo building panels in various finishes, with single or double glazing as an alternative to the solid panels. Fixing posts are 2 in. sq., with 4 in. by 2 in. end posts and door frames. Dado rails and glazing beads have an ebonised finish, and electrical services are run within the panelling. With standard materials the cost of the partitioning is about 11s. a sq. ft. The illustration shows the partitioning installed in the Thorn House offices of Venesta Foils. (Streatham Joinery Ltd., 91 Effra Road, London, S.W.2.)

Acoustic Tiles

The illustration on the right shows a mineral fibre acoustic tile with a directional surface pattern, now being produced by Armstrong Cork. It is known as

D. W. demountable office partitions



the Tacetone and is 12 in. sq. with a thickness of $\frac{1}{4}$ in., and has kerfed or back-cut edges so that it can be fixed either with adhesives or metal suspension systems. Standard finish is white paint. (Armstrong Cork Co. Ltd., Acoustics Dept., Carlisle Rd., Colindale, London, N.W.9.)

Plastics Conduit

Gilflex p.v.c. cable trunking is at the moment being made in only the 3 in. by $1\frac{1}{2}$ in. size, in 6 ft. and 12 ft. lengths with a snap on cover. There is also a range of tee, elbow, bend and crossover fittings, and socket outlets or brackets for fluorescent tubes snap into position in the same way as the cover strip. Lengths of trunking are joined by p.v.c. channel pieces. Standard colour is black with a cream cover, but lengths of over 3,000 ft. can be supplied complete with fittings in almost any colour. Price in standard colour is 4s. 3d. per ft. (Gilflex Conduits Ltd., 41 The Parade, High Street, Watford, Herts.)

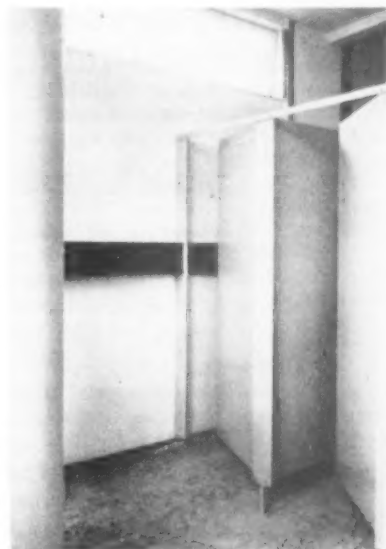
W.C. Compartments

Venesta Plywood have recently introduced a standardised form of w.c. compartment which they claim they can deliver in a maximum of 14 days. It is known as the Q-D, and is a slightly modified version of the type G compartment, but has a different type of wall fixing with secret cleats. It is made of $\frac{3}{4}$ in. chipboard faced on both sides with aluminium or galvanised steel and the standard cubicle depth is 5 ft. from front to back with a height of 6 ft. 5 in. including the 6 in. ground clearance. Centres may be anything from 2 ft. 6 in. to 3 ft. in $\frac{1}{2}$ in. increments. (Venesta Plywood Ltd., Vintry House, Queen St. Place, London, E.C.4.)

Timber Framed Houses

A new publication on *Frame Construction with Canadian Timbers* provides a brief but adequate introduction to platform and balloon frame construction with timber. Platform frames are single storey height and therefore lend themselves particularly to prefabrication, whereas with balloon framing the studs are continuous from sill to eaves. The publication has a number of useful constructional drawings and dis-

cusses the possibility of brick and other facing materials and the way in which they should be used. There are also notes on moisture and vapour barriers, and the position in which they should be used, and some hints on timber preservation. (The Commercial Secretary (Timber) Canada House, Trafalgar Square, London, S.W.1.)



Venesta standardised w.c. cubicle

Armstrong Cork's patterned acoustic tile



ASCOT

AND THE PRIVATE BUILDER: 4



County Park Estate

Wingletye Lane,
HORNCHURCH, ESSEX

(370 semi-detached houses)

Builder:
Messrs. D. A. Moody and Co., Ltd.,
178 Brentwood Road, Romford, Essex.

Hot Water:
Ascot 715 multipoint instantaneous water heaters.

This is the fourth in a series of case histories of recent housing projects in which Ascot water heaters have been chosen by private builders. The series is designed to show how the choice of hot water systems by Ascot for every type of modern dwelling gives flexibility of planning to the architect, ease of installation to the private builder, and a comprehensively efficient hot water service to the householder.

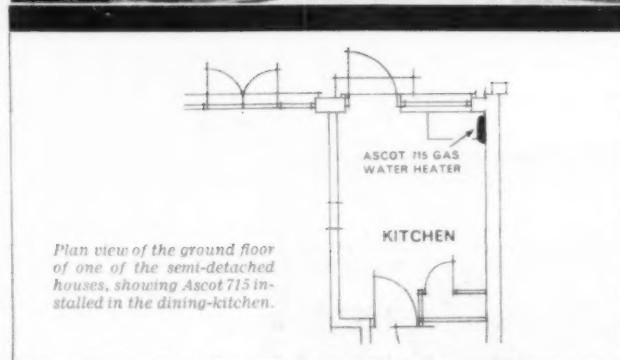
1. A dining-kitchen in one of the Estate houses showing the Ascot 715 fitted in position over the draining board in a 9' wall.
2. A general view of part of the County Park Estate.

Ascot
is ideal for your
building scheme!



For full information write to
ASCOT GAS WATER HEATERS LIMITED,
255 North Circular Road, London, N.W.10

A Radiation Company



Plan view of the ground floor of one of the semi-detached houses, showing Ascot 715 installed in the dining-kitchen.

INFORMATION CENTRE

A digest of current information prepared by independent specialists; printed so that readers may cut out items for filing and paste them up in classified order.

(93)

725.3

10.211 design: building types

GARAGES

Garage and Service Station Handbook
Published by George Newnes Ltd., price 42s.

For the first time, by gathering experts in their respective fields, a handbook of really broad nature in respect of this growing industry has been published.

Whilst aspects from pure aesthetics to electronic techniques and law to lubrication are covered, each section embodies a remarkable amount of detailed information. The seven authors have made no attempt to evolve a common literary style and so the book reads as a collection of works on closely allied subjects. Essential information only is included but a thorough unbiased and systematic appraisal is made of each primary component of an efficient business in this field.

The handbook, as the title suggests, is intended as a reference for those executives established in the trade or for those in process of setting up. In either case, the opportunity is provided to review the organisation of sites from a planning point of view, conditions of employment, job control, costing, records, stores methods and accounting systems. Also, many data are included on salesmanship, display, law, insurance, associations, societies and by no means least, garage equipment. Many illustrations and a composite index are included which facilitate speedy location of data required.

Perhaps, not without pride, it is gratifying to find real evidence of the contribution made by the architectural profession to this industry, particularly in recent times. Due to the work of those architects with a detailed knowledge of this subject, the character and efficiency of the large number of garage premises created since the war have improved beyond measure. Architects with such commissions will do well to obtain a copy.

A

551.5

10.212 design: building types

HOUSES IN THE TROPICS

"Tropical Houses" A Guide to their Design. By David Oakley. Published by Batsford. Price 42s.

Africa, Asia and the Caribbean are hardly ever out of the headlines these days. The peoples living there are wanting to grow up and look after their own affairs. And the kind of life which they mostly seek—despite displays of nationalism—is patterned on the western world seen through the eyes of the student, the cinema and, increasingly, the television camera. The "new men" who, after learning in Britain or some other industrial country to be doctors, engineers, lawyers, teachers, or politicians, are now the leaders, and their young followers, want homes like those of the families they knew when studying abroad or of the expatriate Civil Servants whom they are replacing.

The "new men" mostly live in houses designed by Europeans often for European families. Many were built by the P.W.D. as part of a government servants' housing programme or by large firms to attract the best local men to join their organisation. At the new universities the same house may be lived in at one time by a man of the country, at another by one from overseas. Until recently only in a few countries like Jamaica, Malaya and Trinidad have more than the odd few houses been built for local families to the designs of local architects. This is changing as governments and other large employers abandon that relic of a colonial administration, the tied quarter. Will homes of the "new men" be second rate copies of suburban bungalows, or dwellings of comfort and convenience adapted to the local climate and way of life? The answer lies in part with the architects—both Europe and local born. But it also lies with the "new men." David Oakley's book on *Tropical Houses* is written for architects working in tropical countries; but its last chapter on house and home should in particular be read by the "new men." In it, the author tells the young architect how to obtain a brief from his client. He might also have told the home builder how to get it built.

"*Tropical Houses*" is the first book of its kind. Other than the rare general study of tropical architecture, and a large number of conference reports and pamphlets, I know of only one previous guide to tropical housebuilding, and that belongs to a way of tropical life which is gone for ever. "*Tropical Houses*" assembles in a convenient manner much already published on tropical design and construction in technical journals and information sheets like "*Overseas Building Notes*." To this the author has added his personal experience, especially of the West Indies. It is a working textbook for all concerned with tropical building.

Like most pioneer works, "*Tropical Houses*" has its failings. Three are important. First, some technical aspects of tropical building—earthquake resistance is an example—are too detailed; to the neglect

of human problems like that of meeting the needs of households where frequently the menfolk are western in their aspirations while the women of the family, especially in Asia and Africa, still follow traditional patterns of domestic life.

Secondly, though a short section is entitled "economy in design" little is written on this aspect of housebuilding. "*Tropical Houses*" is not a treatise on mass housing, i.e., the problems of how best to meet the needs for shelter in rapidly growing towns and of how to improve the houses of peasant farmers most of whom still live in huts of mud or bamboo. Nevertheless there are lessons to be derived from the planning of low-cost houses as well as from their construction. The plans of most small family dwellings—say those between 350 and 700 sq. ft. in floor area—fall into one of three basic types: the courtyard; the one-storey "four square"; and the two-storey "terrace." As houses become more costly and, therefore, larger in area more variations in plan are possible. To understand how plans develop and how they relate to plot layouts are essential aspects of design for economy.

Lastly, it is unfortunate that Oakley lists "Effective Temperature" among the terms which he defines in an introduction. It is a concept evolved some time ago in the U.S.A. where it is used as the basis of a comfort scale in air-conditioning practice. Its use in a warm, humid climate is not to be recommended as it seriously underrates the beneficial effect of air movement. In any revision, more attention should be given to C. G. Webb's Equatorial Comfort Index and to his work on natural ventilation.

Despite such defects, "*Tropical Houses*" should be on the shelves of all concerned with house building in warm climates. It is well illustrated, mainly with items which have not previously been published. At the end of each chapter there is a useful series of notes, together with a short bibliography. The contents are well listed, but the index is weak.

Du6

15.145 materials: approved finishes and treatments

WATERPROOFING TIMBER

Timber Waterproofing Agents, by V. R. Gray, M.A., PH.D., and Marian E. Wheeler. Published by The Timber Development Association Ltd. Price 3s. 6d.

The waterproofing of timber used externally is a subject of particular importance. All softwoods reach a greyish colour after exposure to weather for a few months. An impervious film such as paint or varnish can be applied, but this is expensive. Alternatively, water repellents can be used.

"*Timber Waterproofing Agents*" is a technologist's report on the effectiveness of various water repellents using Western Red Cedar as a case study. The extent to which liquids penetrate the structure of wood is dependent upon the viscosity and surface tension of the liquid, on the contact angle between the liquid and the wood material,

It pays you and your clients to put in *solid fuel* central heating



Lowest running costs. The big news in central heating these days is the amazing cheapness of the solid fuel systems. For example, the average weekly running cost for a two- or three-radiator system can be as little as 11/1d! Just compare that with oil, gas and electricity—see chart on right.

Lower installation costs. Compared with oil, solid fuel systems are much cheaper to buy and install. The new solid fuel boilers are really streamlined and require very little attention. They are thermostatically controlled and finished in gleaming vitreous enamel in a range of modern colours.

N.C.B. Housewarming Plan—offers a personal loan to cover the cost of a central heating installation. Low interest—five years to pay—tax relief.

Lowest maintenance costs. Solid fuel systems cost practically nothing to maintain. But with other fuels, skilled maintenance is necessary and this can cost from £5 to £15 per year—another 2/- to 6/- a week on the running cost.

Compare the costs. These are typical weekly costs, averaged over the year, for centrally heating a three-bedroomed house or bungalow—and hot water summer and winter. Look how much cheaper solid fuel is.

6 or 7 radiators and hot water ▼			
2 or 3 radiators and hot water ▼			
COKE <small>In independent boiler</small>	10/- per cwt	11/1d	16/8d
SMALL ANTHRACITE <small>In gravity feed boiler</small>	12/6d per cwt	—	14/8d
GAS	1/4d therm plus, say, 2/8d a week standing charge	16/1d	23/6d
ELECTRICITY	1d unit (No standing charge included)	18/2d	29/10d
OIL	1/7½d gallon	*14/6d	*25/8d

* plus 2/- to 6/- a week maintenance cost.

Write for FREE booklet on Central Heating and list of other technical publications to the Coal Utilisation Council, 3 Upper Belgrave Street, London, SW1. Also available 'Central Heating for Houses', a complete 120-page illustrated survey of all the various systems available, from the open-fire-and-back-boiler to the small pipe system. Copies 2/6d each.

The cheapest
central heating
there is –
SOLID FUEL



ISSUED BY THE COAL UTILISATION COUNCIL



and the size and shape of the channels and capillaries within the wood. These factors are equated mathematically and the results are verified by experimentation. The main conclusion is that the most effective water repellent treatments for timber are various types of wax and wax solution. Other repellents considered have particular properties (such as a preservative) but are not so enduring. It was also shown that effective water repellents attract dirt from the atmosphere.

The report and conclusions are the result of a very particular analysis and require careful consideration in order to avoid misunderstanding.

(43)Tn6

19.231 construction: details PVC FLOORING

Specification for Flexible P.V.C. Flooring. British Standard 3261:1960. Published by British Standards Institution. Price 4s. 6d. This British Standard prepared under the authority of the Plastics Industry Standards Committee specifies the requirements for smooth faced homogeneous flexible p.v.c. flooring which may be supplied in continuous lengths or in tile form. It covers the quality of the materials, colour and finish, colour fastness to daylight, dimensions, and qualities of resistance. The Appendices give methods of testing dimensional stability, volatile content, curling, indentations, flexibility and resistance. Indentation at 25°C (0.028 in.) is greater than the equivalent vinyl tile, and the standard size for the flexible flooring is either in tiles 12 in. by 12 in. or in sheets in widths of 36 in., 54 in. or 72 in. To ensure flexibility, the test is based on a 1-in. diameter mandrel.

(25)

69-025-4

19.232 construction: details SUSPENDED CEILINGS

Code of Practice and Manual of Lightweight Metal Fixing Systems for Building Linings and Ceilings. drawn up and issued by the Metal Fixing Association for Building Insulation.

This publication will be of particular interest for architects concerned with steel frame industrial buildings and construction where suspended ceilings are required. It shows the use of a framework of lightweight metal designed to support sheet metal or linings suspended from the building structure. It covers the minimum thicknesses of metal, details of fixing, methods of supporting panels and a table of dimensions for the "unsupported rectangle." Technical aspects are discussed in detail, drawing attention to particular conditions affecting both framing and panel. Recommendations are given as to the conditions under which the work should be carried out. It emphasises in the case of suspended ceilings, that installation should not commence until the building is fully closed in, and when the wet trades are completed and reasonably dried out, so that the conditions

conform as near as possible to occupation. The insulation board should be attuned to these conditions before fixing. It recommends that metal fixing systems should be treated as a specialist trade and suggests specification clauses to ensure uniformity of tendering. The report includes an analysis in respect to heat loss calculations and problems of condensation, compiled by the Building Research Station. C. W. Glover outlines and adds recommendations in the important subject of noise control by insulation.

B

69-001-3

19.233 construction: details SHOP SIGNS

Specification for Glass for Signs and recommendations on Glazing for Signs. British Standards 3275:1960. Published by the British Standards Institution. Price 3s. 0d. B.S. 3275 will be of particular interest to architects involved in commercial buildings and shop design. It is concerned with the requirements and recommendations to assist in obtaining the optimum performance of glass in fitted signs. The emphasis is on public safety. It recommends that safety glass should be used and that consideration should be given to differential thermal expansion, deterioration and live loads on both glass and framing. It advises against attaching letters or devices to the glass and suggests that these should have separate fixing. It draws attention to the need for ventilation against overheating and access for cleaning and maintenance.

(14)

625-8

19.234 construction: details ROADS AND FOOTPATHS

Model Specification for Roads and Footpaths on Housing and Factory Estates and Parks. Published by the Federation of Coated Macadam Industries. Free.

The Federation serves the combined interests of the coated macadam industries, including producers of igneous rock, limestone and slag aggregates, cold asphalt interests, bitumen and tar suppliers, and the plant and machinery manufacturers.

The Model Specification covers the construction of roads and footpaths using coated macadam surfacing materials, and includes the preparation of the "formation" and flexible bases suitable for surfacing with coated macadam. The specification includes technical notes, alternative solutions and recommendations. It is particularly pleasing in its clarity of layout. The booklet was designed by Hazel Braddick of the Design Research Unit.

The recent articles by W. Houghton Evans in THE ARCHITECTS' JOURNAL, especially that of February 17, 1960, concerned with road surfaces, would serve as a good introduction to the publication.

22.100 sound insulation and acoustics

SOUND INSULATION

Field Measurements of Sound Insulation Between Dwellings. P. H. Parkin, H. J. Purkis and W. E. Scholes. National Building Studies, Research Paper No. 33. Building Research Station, D.S.I.R. H.M.S.O. 1960.

This 570-page book fully reports the results of the B.R.S. measurements of sound insulation in dwellings made over the past twelve years. It contains a wealth of information valuable to the architect.

The first part deals with theory and the technique of measurements and confirms the lurking suspicion that no valid theoretic basis for the accurate prediction of sound insulation of complex structures has so far been discovered. Because of this we must continue to rely largely on practical experience. How much or little the practising architect does this is raised later. It is also interesting to learn that differences in insulation attributable to variations of the building of nominally the same construction are larger than any differences resulting from measurement inaccuracies.

The second part of the book describes the evolution of the grading system of insulation first proposed by the B.R.S. in digests and now incorporated in the B.S. Code of Practice. Those who have felt that the chosen grades of insulation for party walls and floors are not sufficiently rigorous will discover from this section how securely they are based on attainable results.

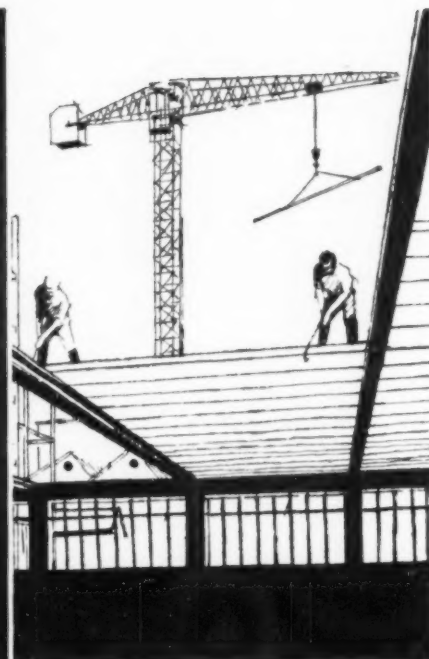
There follow some 464 data sheets containing the measurement results and very full descriptions and drawings of the wall or floor constructions. The only missing piece of information is an indication of the relative cost of the various walls and floors. It is admitted that this would have been very difficult to assess, especially if the attendant factors such as height and basic structure of building, regional differences and so on had all to be taken into account. However, someone has to formulate at least a rough idea of the economics of construction especially in public authority housing, and it is a great pity that the authors could not have given something on the lines of the cost analysis published in the JOURNAL, to enable architects to appreciate how much decibels cost.

It is obvious from the results published that designers are not making full use of the technical information which is available. For example, of the 344 types of floor measured, just a half reached the lowest grade of insulation (Grade II) while only 56 examples passed at Grade I for both airborne and impact sound. This shows a most deplorable situation and it can only be hoped that one of the results of the publication of this book will be that in future more architects will avoid the forms of construction which give sub-standard sound insulation.

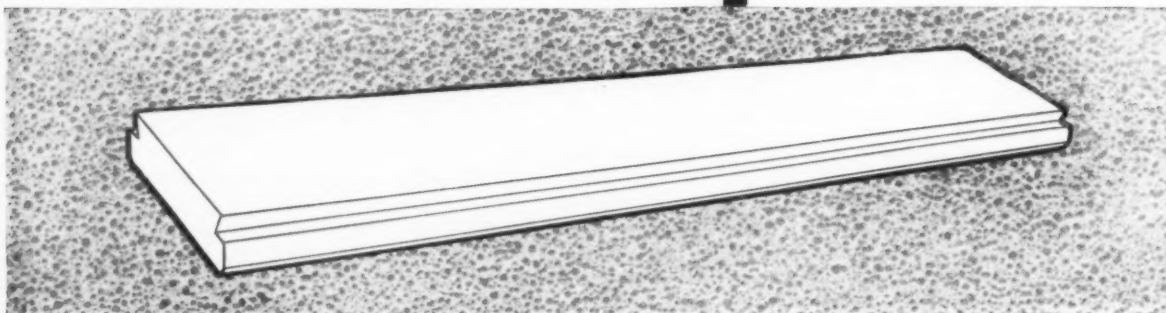
INDUSTRIAL ROOFING WELCOMES THE **SIPOREX** AGE

For over 25 years in widespread use in Northern Europe and many other parts of the world, SIPOREX, the lightweight cellular structural material *is now being manufactured here.*

Siporex revolutionises building techniques and offers architects and structural engineers many outstanding advantages.



- ★ 25 years successful experience all over the world are behind Siporex.
- ★ Over 30 million sq. yds. of Siporex roofing have already been laid, from the equator to the arctic.
- ★ Siporex is simple and rapid to erect—reducing site labour costs.
- ★ Siporex has a thermal insulation ten times that of concrete and is completely incombustible.
- ★ Siporex is only a quarter the weight of an equivalent volume of concrete, reducing the cost of structural framework and foundations.
- ★ Siporex compares favourably in price with other building materials.



SIPOREX THE MODERN LIGHTWEIGHT CONSTRUCTION MATERIAL

Manufactured in Great Britain by: COSTAIN CONCRETE COMPANY LIMITED (A member of the Costain Group)
DUNCAN HOUSE, DOLPHIN SQUARE, LONDON, S.W.1. SIPOREX FACTORY, NEWARTHILL, LANARKSHIRE, SCOTLAND

technical section

SYB No.

(53)

UDC No.

696-11














7 PRACTICE

check lists, 2: drainage installations





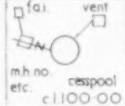
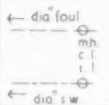


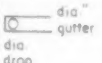


This is the second in a series of check lists* prepared by Peter Burberry. All the check lists in this series are concerned with services (lists for waste and soil plumbing, gas, electrical and telephone installations will follow) and are to assist the architect in planning and detailing services installations. Although useful for checking working drawings before they are handed to the

quantity surveyor, the lists are intended to be used throughout the whole process of detailed design and working out and the preparation of drawings and schedules and, when applicable, specifications. The form in which the lists are produced enables them to be used with virtually any system of working drawings.

* The first appeared on May 4, 1961.

CHECK LIST : DRAINAGE INSTALLATIONS.						
ITEMS	DRAWING		SCHEDULES	Specification or Bills of Quantities		NOTE
	CONVENTION	ANNOTATIONS		DETAILS	British Standards	
DRAINS: Foul or Combined Surface water Protected drains	  	dias. direction of falls.		material. quality. bedding, haunching jointing. testing. quality and thickness of surround.	salt glazed: 65 539 540 cast iron: 437 1130 1211	301 arches or lintels over levels given at M.H.'s cover. seconds' quality for surface water where drains are all of one dia this may be covered by a note.
SUBSOIL DRAINS:		dias. direction of falls.		material quality.	clay: 1196 concrete: 1194	303 gravel in trench. turf or building paper over joints.
MANHOLES:		position. number. cover level. invert level.	internal dimension cover details.	bottom: mix thickness. walls: material mortar. thickness. internal finish. arches over pipes. cover slabs. channels and bends. benching. step irons.	conc m.h.s.: 556 M.H. covers: 497 step irons: 1247 channels: salt glazed: 65 glass enamelled: 540 bricks: 1301	301 3" min vent at head M.H. of each drain.
DROP MANHOLES:		as M.H.	as M.H.	as M.H.'s surround to drop. mix and thickness.		301
INTERCEPTOR & FAJ:		as M.H.	as M.H.	as M.H.'s. FAJ fitting & drainpipes. interceptor. stopper release chain.	glazed int.: 539 cast iron int.: 1130	301
RODDING EYE:		dia.		cover. drain bend.		301
GULLIES: Untrapped Trapped: open sealed access yard road	    	position & dia. of drain. position & dia. of wastes and/or curbs areas drained & falls	see note	types material quality grating connectors for wastes bedding curbs	salt glazed: 539 cast iron.	301 unit numbering and schedule may be used. when different types of gullies justify it. back inlet gullies to be prefixed "B.I." position & dia. of waste & r.w.p. to be indicated

technical section

CHECK LIST DRAINAGE INSTALLATIONS						
ITEMS	DRAWING		SCHEDULES	Specification or Bills of Quantities		NOTE
	CONVENTION	ANNOTATIONS		DETAILS	British Standards	
GREASE TRAP		*		*		301 305
PETROL INTERCEPTOR		*		*		CE5
AUTOMATIC FLUSHING TANK		drain or fitting served water supply		*	1876	305 310 intended for flushing drain or similar purpose note type for urinal elsewhere
RAIN						
SOAKAWAY		M.H. cover level (if used) position, dia., and invert levels of incoming drains	M.H. cover (if used)	size: depth diameter: base walls (open joint) slab over: step irons	M.H. covers 497	303 detailed dwg. required sometimes made by filling excavation with loose hardcore
CESSPOOL		cover level drain pos., dia. intercepting chamber vent	M.H. cover	walls: bricks mortar thickness rendering puddling bottom: mix thickness projection diameter and depth	bricks: 1301 M.H. cover: 497	302, 200
SEWERS: Foul or Combined Surface water		direction of flow dia				information from local authority required for design of drain instal obtain levels at M.H.'s up and downstream from proposed conn
TREATMENT PLANTS						position & size on site drawings dwgs. of instal. required
RAINWATER HEAD				manufacturer and catalogue ref.		fixing convention applies to plan; In elevation show shape flashing
RAINWATER ROOF OUTLET						
GUTTER AND DROP				material quality shape jointing fixing wall clearance finish	aluminium 1430 1534 asbestos 569 cast iron 460 primed steel 1091	also fibreglass R.P. & P.V.C. & vit. enamel
R.W.P.						
R.W. SHOE				cover and bedding joint to rwp	539	

* details required upon which specification will depend

Below, left and right: suggested alternative manhole schedule forms

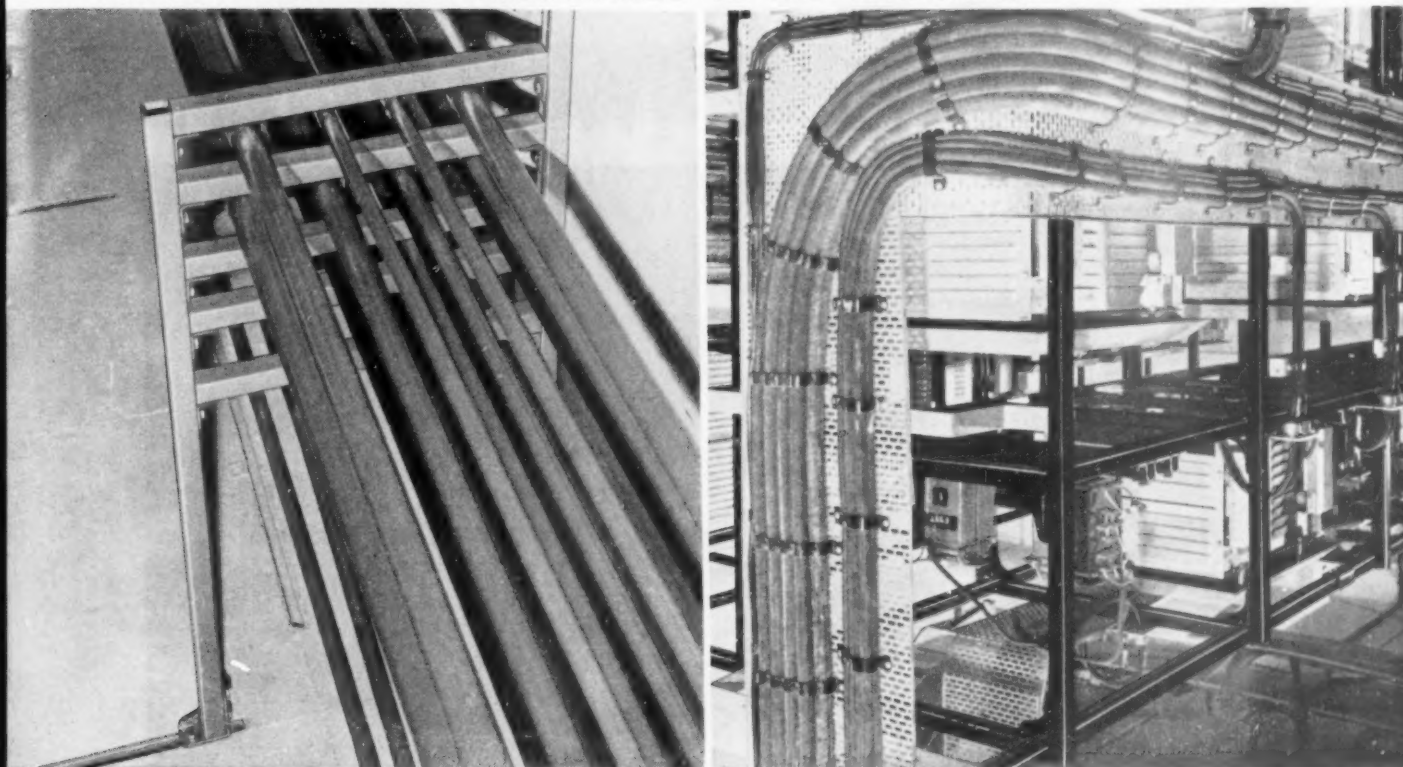
NO	FOUL OR SURFACE WATER	INTERNAL DIMENSIONS	COVER

INTERNAL DIMENSIONS	NO	COVER
eg. 3'-4 1/2" x 2'-3"	1 2 4 5	
3'-9" x 2'-6"	3 6 7	

UNISTRUT

THE ARCHITECTS' JOURNAL for May 25, 1961

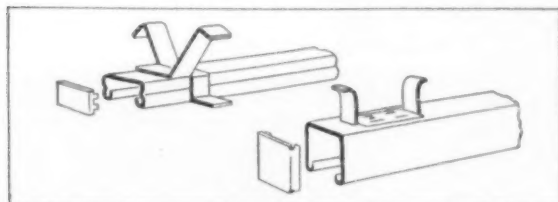
CHOSEN FOR ALCAN INDUSTRIES TO AID ALUMINIUM PRODUCTION



UNISTRUT STEEL CHANNEL FRAMING AND SUPPORT SYSTEM has been chosen for Alcan Industries Ltd., at Rogerstone, Newport, the largest aluminium rolling mill in Europe, to support multi-services to mills, furnaces and machinery. Unistrut is ideally suited to Alcan's vast expansion scheme not only because it is easy to erect and maintain but because its unique flexibility allows for alterations and extensions at any time.

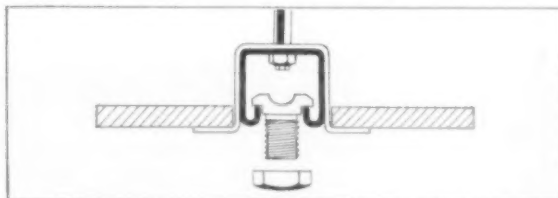
Unistrut concrete inserts (just one of Unistrut's many applications) again proved their exceptional versatility. They were cast in flush to roofs and ceilings, creating attachment points for the main bus-bar support system to which could be added supports for lubricating oil pipes, service mains and fluorescent lighting fittings. In walls, inserts were used to hold the runs of electrical cables, thus eliminating expensive trenching and economising on operational floor space. In floors, inserts were used for locating switchboards.

UNISTRUT CONCRETE INSERTS



Fixed to shuttering before concrete is poured, these inserts avoid costly drilling and plugging and simplify planning. They accept fittings anywhere along the channel and thus ensure convenience and economy when alterations are made.

UNISTRUT ELECTRICAL APPLICATIONS



The Unistrut System incorporates a wide range of electrical trunking fittings such as the new 'Top Hat' section (illustrated above), a unique method of simultaneously supporting false ceilings and fluorescent lighting units.

THE UNISTRUT SYSTEM comprises basic steel channel to which a wide range of fittings can be fixed at any point by means of the patented self-locating nut assembly. Economical, rapid and rigid in assembly, Unistrut standardises support equipment, is completely flexible, and solves all framing and support problems.

For comprehensive literature please write to:

UNISTRUT DIVISION OF SANKEY-SHELDON LTD



43/45 Broadwater Road, Welwyn Garden City, Herts. Tel: Welwyn Garden City 26321 (4 lines)

HOPE'S windows



The new BIRMINGHAM CHAMBER of COMMERCE

John H. D. Madin, Dip. Arch. Birm., A.R.I.B.A., Chartered Architect

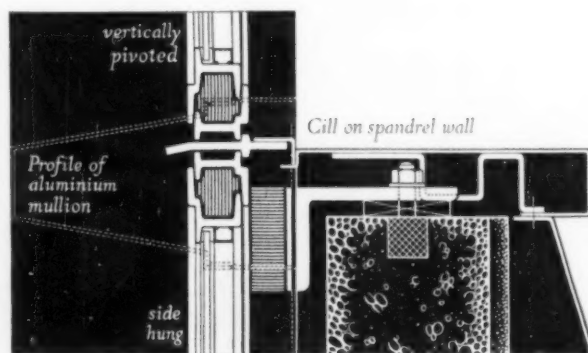
Interesting features of this contract include:

Two stretches of curtain walling
8 storeys high \times 133 ft. long

Special projected and hinged vents
enable the entire facade to be cleaned or
repainted without the use of scaffolding

"Revolver" casements opening through 180°

Metal window boards and trim
to reduce inside plastering



HOPE'S WINDOWS
The Name Guarantees



HENRY HOPE & SONS LTD
SMETHWICK, BIRMINGHAM
LONDON: 1 BERNERS ST., W.1

Contract administration

insurances

31

The articles of agreement forming part of the contract between the client and contractor will state the types of insurance which each is obliged to take out. These, however, are only the minimum required to comply with conditions and the client should at the same time be informed of any other risk which may exist and on which he should consult his insurance advisers. Depending upon whether the works are to be carried out in an existing building or are new premises, information which your client is likely to require includes:—

- (a) dates on which the works are likely to start and finish,
- (b) estimated costs of works and fees,
- (c) classification of building for fire and loading,
- (d) security devices—locks, window catches,
- (e) arrangements for caretaker or night-watchman,
- (f) any arrangements made with adjoining owners,
- (g) "incidentals"—insurance against risks which would automatically become the liability of the employer

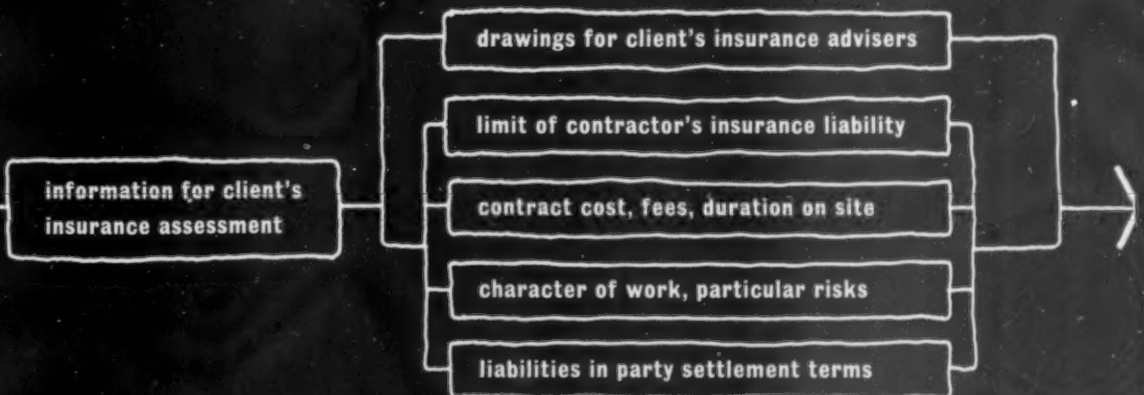
where it is proved that the contractor has taken every reasonable precaution,

- (h) any other risks peculiar to the type of work.

For his own information you should also inform your client of any:—

- (a) hoardings, pavement screens, projecting gantries or equipment,
- (b) overtime in premises occupied by other tenants.

Additional copies of the drawings should be sent for your client to deposit with the insurance company if required.



Contract administration

liquidated damages assessments

32

Before inviting competitive tenders, contract completion dates for occupation should be discussed fully with the client and the quantity surveyor and a fair assessment made of the time required to finish the works including carpeting, curtaining, and furnishing (if not included in the contract) and actual removal time. When a final date is decided, and if no other factors have a bearing, the likely expenditure involved for failure to meet this date must be carefully considered. This assumes that the client will have to make all arrangements for occupation of the new premises at the outset, and so far as his present premises are concerned, arrangements for leaving and possible termination of lease on a particular date. Insertion of a date in

the contract document from which liquidated damages can run is essential. If it is omitted from a written contract, a court will not fix it from later conflicting oral evidence.

The major factors to consider, therefore, are:—

1. Construction time from start on the site. This should be checked against similar contracts in hand or recently completed in your own office or by others, preferably in the same vicinity, or constructed under similar conditions.
2. Accurately assessed furnishing and removal times.
3. Sale of present property or settlement of leasehold or tenancy arrangements and terms.
4. Likely expenditure involved in terms

of cost of alternative accommodation or keeping existing premises beyond the date arranged, and any other relevant financial loss involved for non-completion.

The resultant figure must be factual and not entered as an incentive to complete or a threat to the contractor, for, if the agreed sum really is a "penalty," it would not be enforced by the courts, whatever it were called.

You should then enter the liquidated damages sum in the documents sent out to tender, together with the date on which the work is to be completed, in accordance with the recommendations of the *Code of Procedure for Selective Tendering*.

consideration of
liquidated damages

length of contract on site

removals and furnishing

termination of present property arrangements

expenditure or loss incurred through failure
to meet realistic programme

Contract administration**clerk of works appointment****33**

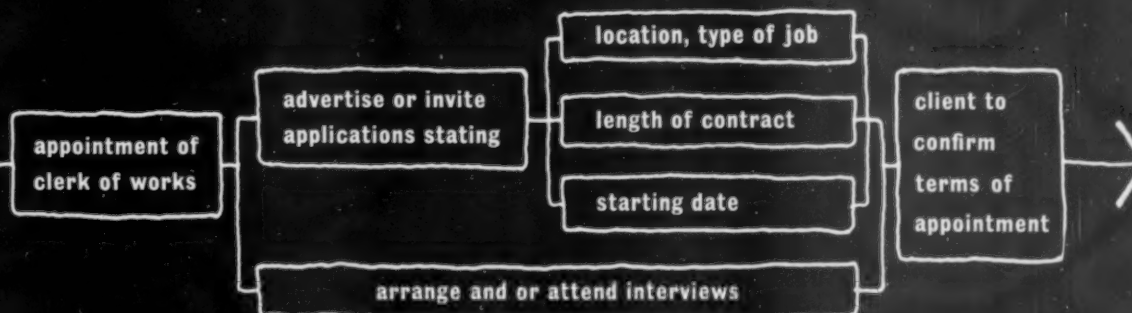
The RIBA Conditions of Engagement require you to undertake "reasonable" site supervision. This has been taken to mean approximately one visit a week. Where the client requires or you recommend constant supervision of the works on the site, it should be pointed out that a clerk of works should be employed as the client's personal representative on the site. He is employed directly by the client and paid by him and, when he is taken on, the terms of his employment (which should be confirmed by your client) should state his working hours, holidays, and travelling time, and expenses if he lives in another part of the country. It is desirable if the client wishes to

interview applicants that the architect is present. You may have to make recommendations on how to find and employ a clerk of works. This is usually done by advertising in the local press or technical journals or approaching the Clerk of Works' Institute. Give advice on this early enough to allow time for advertising, interviews, appointment and instructions before the general contractor moves on to the site.

Remember that there is a distinction between the act of supervision (which can be delegated to the clerk of works) and the architect's overriding responsibility which cannot be delegated (subject probably to proof of taking all

reasonable precautions in the selection of "servants or agents"). If an architect agrees to the appointment and carrying out of his duties by an incompetent clerk of works, he could not afterwards set up such incompetence as a defence.

The clerk of works will act in direct liaison with architect and client and ideally, when appointed, should spend a short period in your office with the architect who will be responsible for the day to day running of the contract to become familiar with information including drawings, estimates, bills of quantities, etc., as well as the principles behind the design, detailing and construction system.



Contract administration

clerk of works

34

When the clerk of works is appointed you should send him a letter setting out the points on which he will be required to co-operate. To ensure the utmost co-operation and avoid misunderstanding resulting from a failure to state the situation clearly, the letter should state that:—

1. It is desirable that the clerk of works spends a period of time in the architect's office before work commences, when he can meet the architect who will be responsible for the day-to-day running of the contract. This time will allow him to go through all drawings, bills of quantities, sub-contracts, any specialist work and other items related to the contract, so that he is aware of the design policy and its interpretation in terms of the finished building. Arrangements should be made to do

this as soon as present employment allows.

2. Where there is any likelihood of misinterpretation of detail due to its not conforming with practice with which he is familiar, it may be that the principle behind it is not fully understood. It is important, therefore, that anything about which he feels uneasy on the site should be discussed with the architect before any action is taken.

3. It is essential that the clerk of works, when working on the site, refers all discrepancies to the architect's office for decision.

4. It is important that a day-to-day diary is kept on the site in order that any representative from the architect's office, the quantity surveyor's office, or the structural engineer's office can at any time follow the complete case

history of the job. Entries should include details of hidden work, portions of work carried out by particular trades, any queries which have arisen, state of weather, number of men on the job, instructions given by anyone visiting the site with authority to do so, any other visitors to the site and the clerk of works' own activities. Copies of these entries should be sent to the architect and to the quantity surveyor weekly.

He should also be given a complete set of drawings and, in due course, a copy of the bills of quantities and articles of agreement under which the works are to be carried out, with the positive instruction that all site domestic matters must be settled in accordance with these.

clerk of works'
duties

letter to clerk of works from architect

go through all drawings and principles

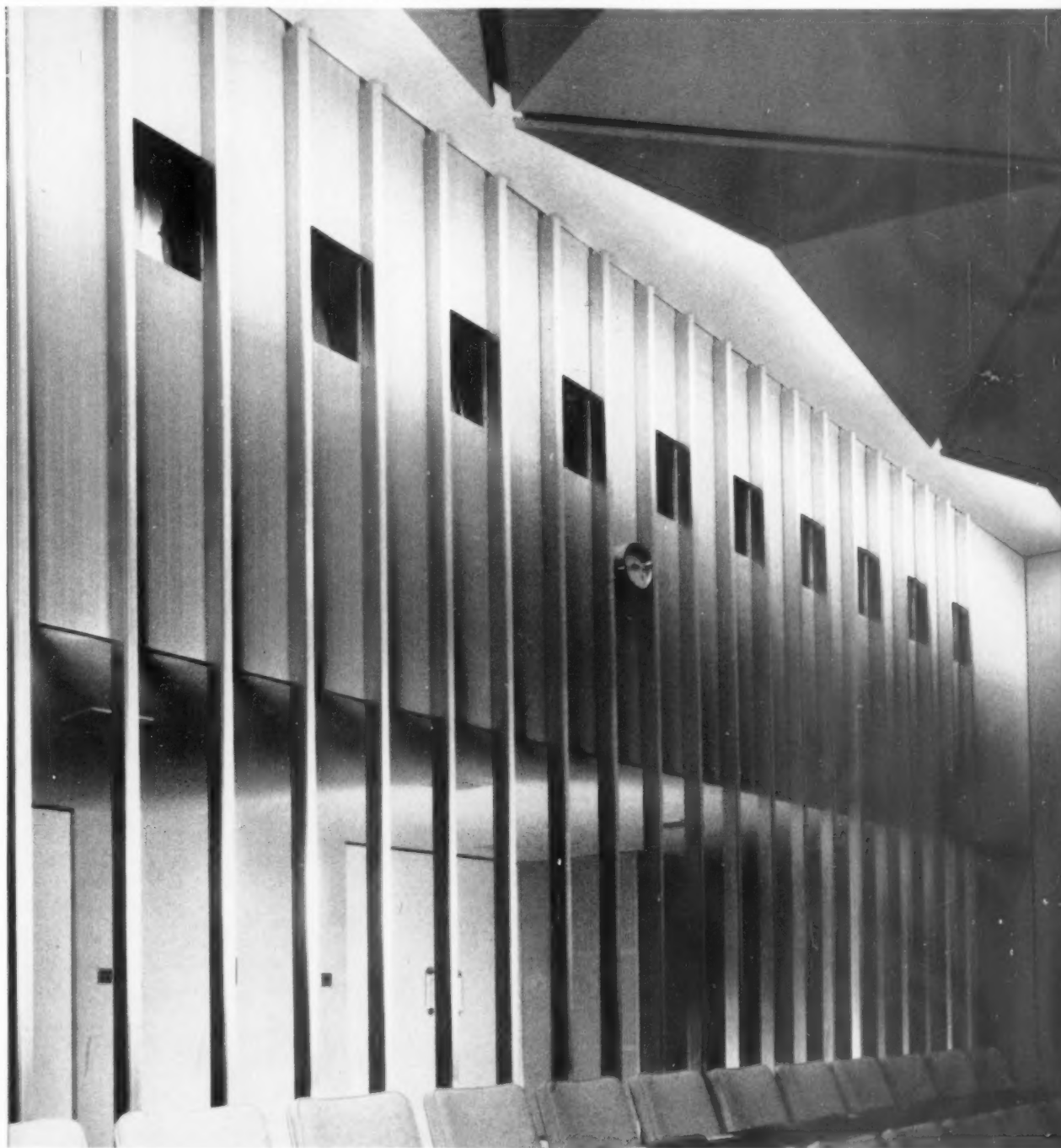
arrange to supply set of contract documents

working detail

WALLS AND PARTITIONS: 113

REAR WALL IN AUDITORIUM: OFFICE BUILDING IN LONDON, W.1

Eero Saarinen and Associates in association with Yorke, Rosenberg and Mardall, architects



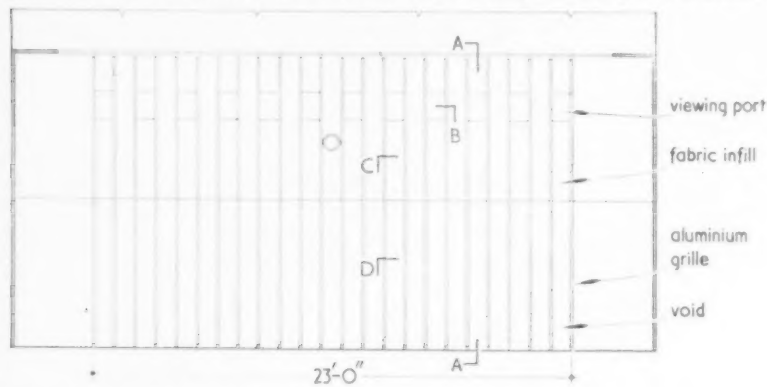
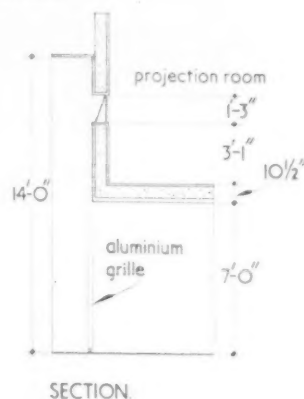
The screen of the rear wall of this auditorium consists of gold anodised aluminium-alloy mullions at 1 ft. 0 in. centres. They are made up of extruded sections on a composite mild steel core. The upper part of the screen covers the 6-in. concrete wall of the projection room, the panels between the mullions being fawn-coloured fabric stretched over a timber frame.

working detail

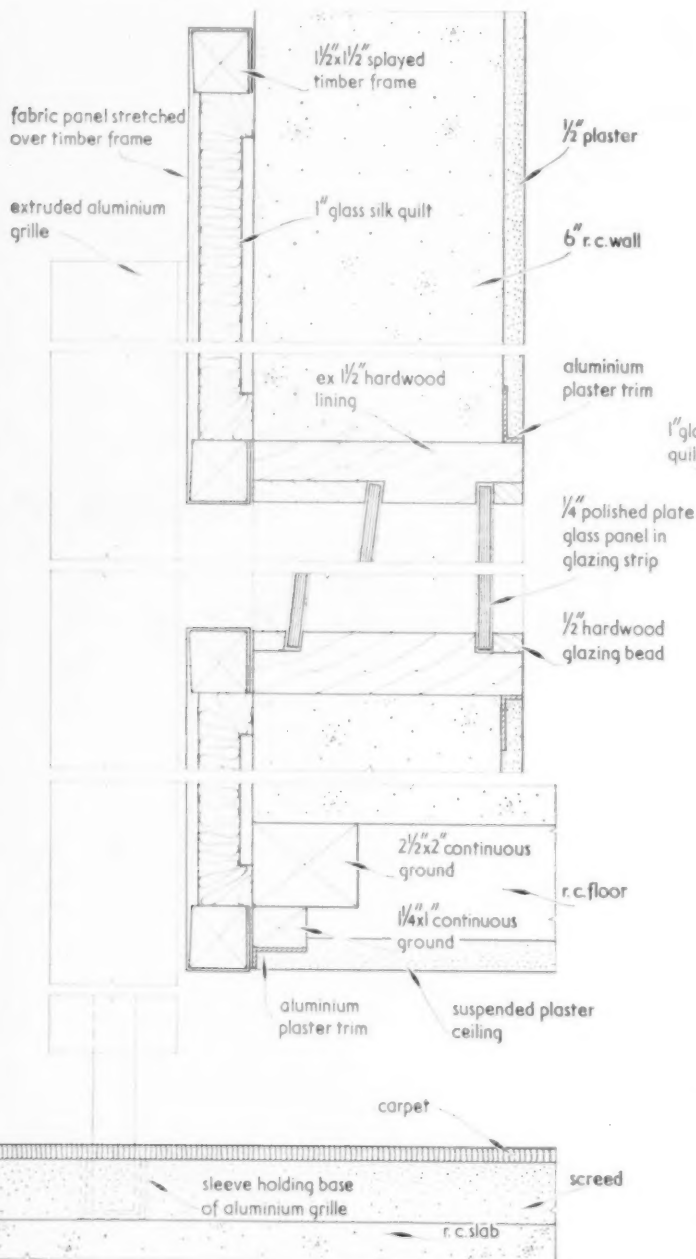
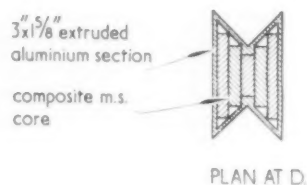
(22) X
WALLS AND PARTITIONS: 113

REAR WALL IN AUDITORIUM: OFFICE BUILDING IN LONDON, W.1

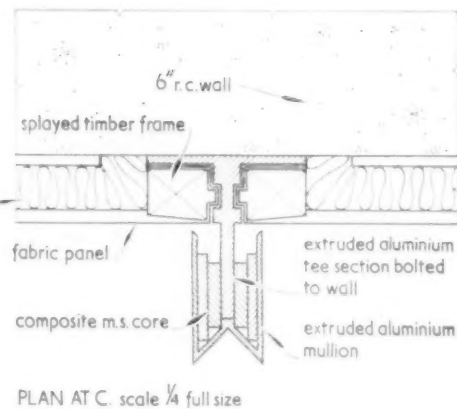
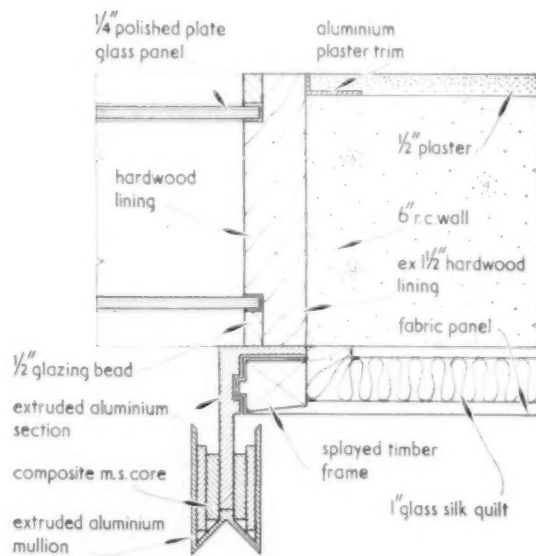
Eero Saarinen and Associates in association with Yorke, Rosenberg and Mardall, architects

ELEVATION. scale $\frac{1}{8}''=1'-0''$ 

SECTION.

SECTION A-A. scale $\frac{1}{4}$ full size

PLAN AT D.

PLAN AT C. scale $\frac{1}{4}$ full sizePLAN AT B. scale $\frac{1}{4}$ full size

CLOAKROOM FITTING: SCHOOL AT CHESHUNT, HERTS.

G. C. Fardell, Architect to the Hertfordshire County Council



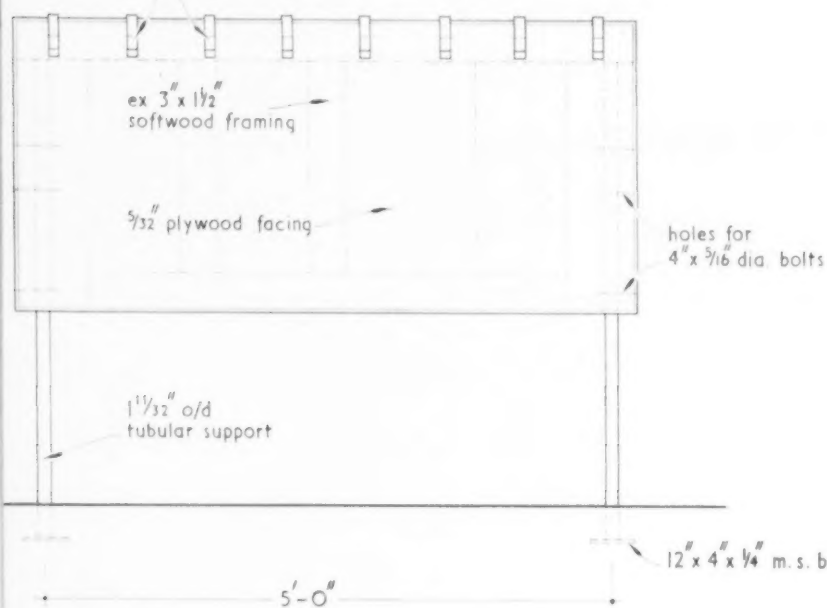
This second in the series of details on fitted furniture in Hertfordshire schools shows a simple cloakroom fitting for infants. The screen is of plywood on a softwood frame with hardwood lipping and the legs are of tubular steel. The pegs are of anodised aluminium.

working detail

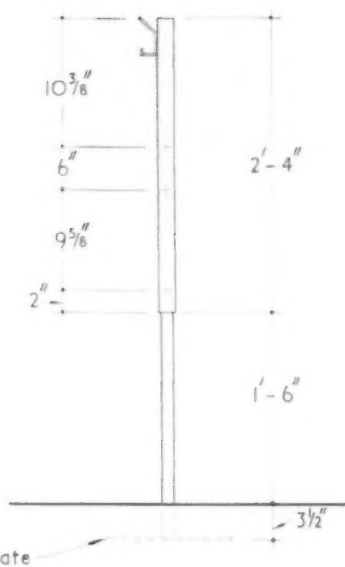
FURNITURE AND FITTINGS: 109

CLOAKROOM FITTING: SCHOOL AT CHESHUNT, HERTS.

G. C. Fardell, Architect to the Hertfordshire County Council

anodised aluminium
hat and coat hooks

FRONT ELEVATION.

scale $\frac{3}{4}$ " = 1'-0"

SIDE ELEVATION.

scale $\frac{3}{4}$ " = 1'-0"12" x 4" x 1/4" m. s. plate welded
to base of tube and bedded
in floorex 3" x 1 1/2" softwood
framingex 1 1/2" x 1 1/2"
softwood1 5/8" x 3/8"
hardwood
lipping4" x 5/16" dia.
bolt and washer

1 5/16" dia. mortise

mortise for nut

1 1/2" o/d m. s.
tubular support
drilled to take
5/16" dia. bolts

5/32" plywood facing

PLAN A-A.

scale $\frac{1}{2}$ full size

SECTION B-B.

scale $\frac{1}{2}$ full size

above all...

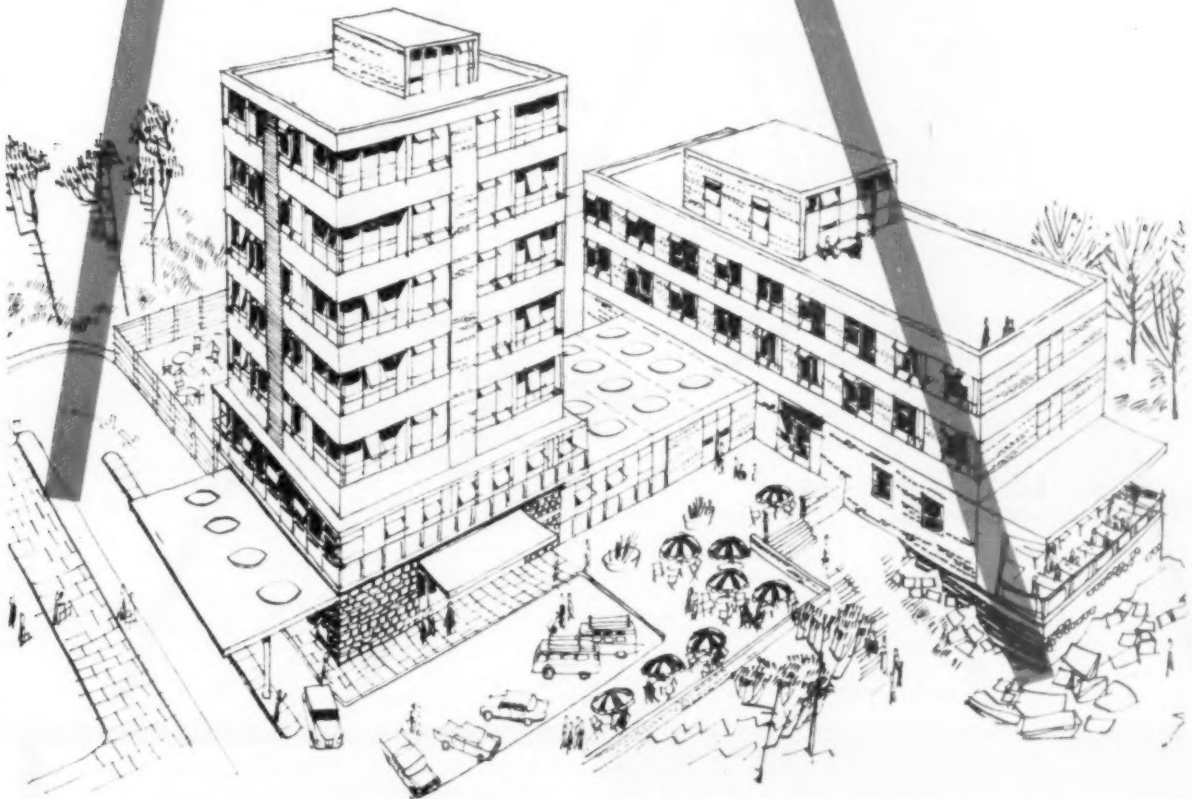
PERMANITE

the first name one thinks of for . . .

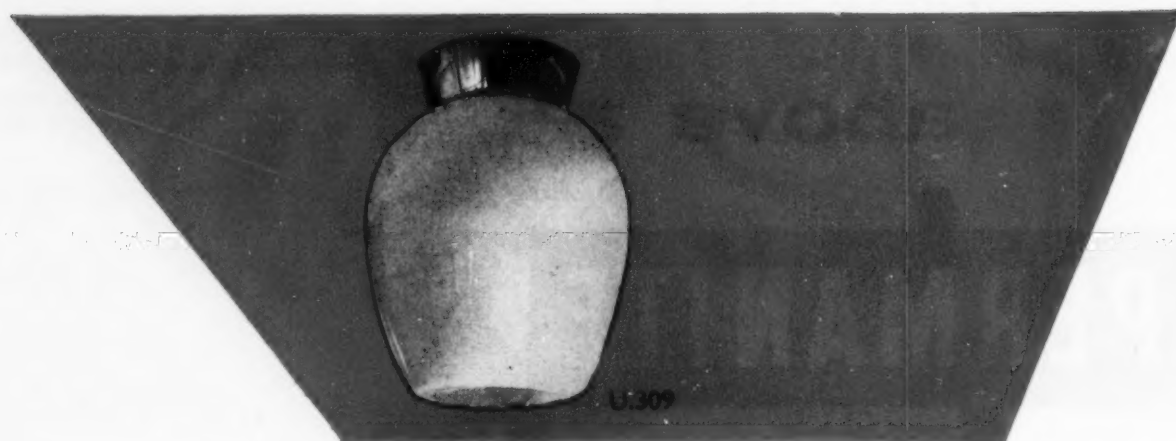
asphalt roofing

Consult Permanite Limited
for technical advice
at the planning stage.

Also specialists in Asphalt Flooring and Tanking.

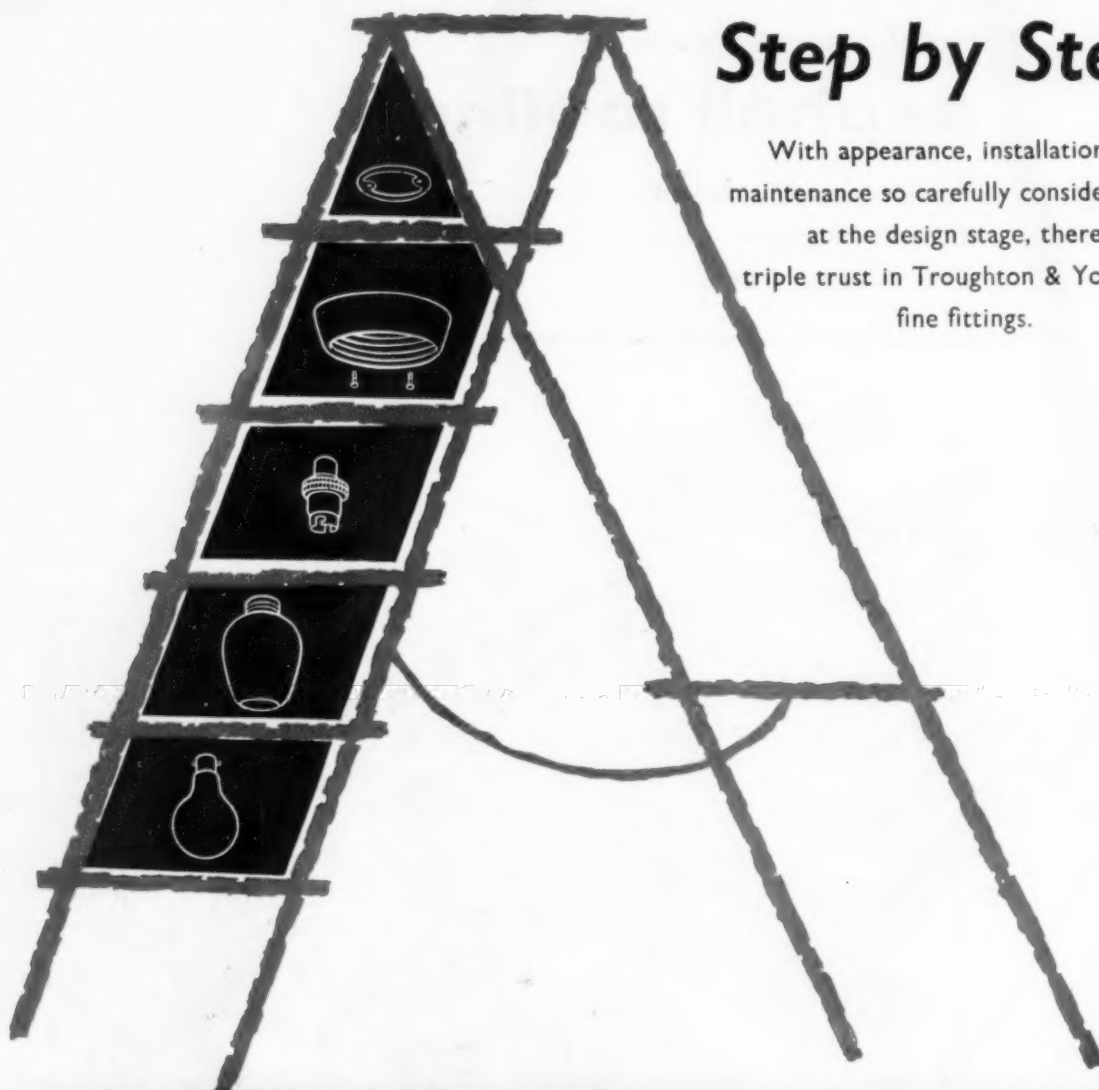


permanite limited, based on london, birmingham, manchester and portsmouth



Step by Step

With appearance, installation and maintenance so carefully considered at the design stage, there is a triple trust in Troughton & Young's fine fittings.

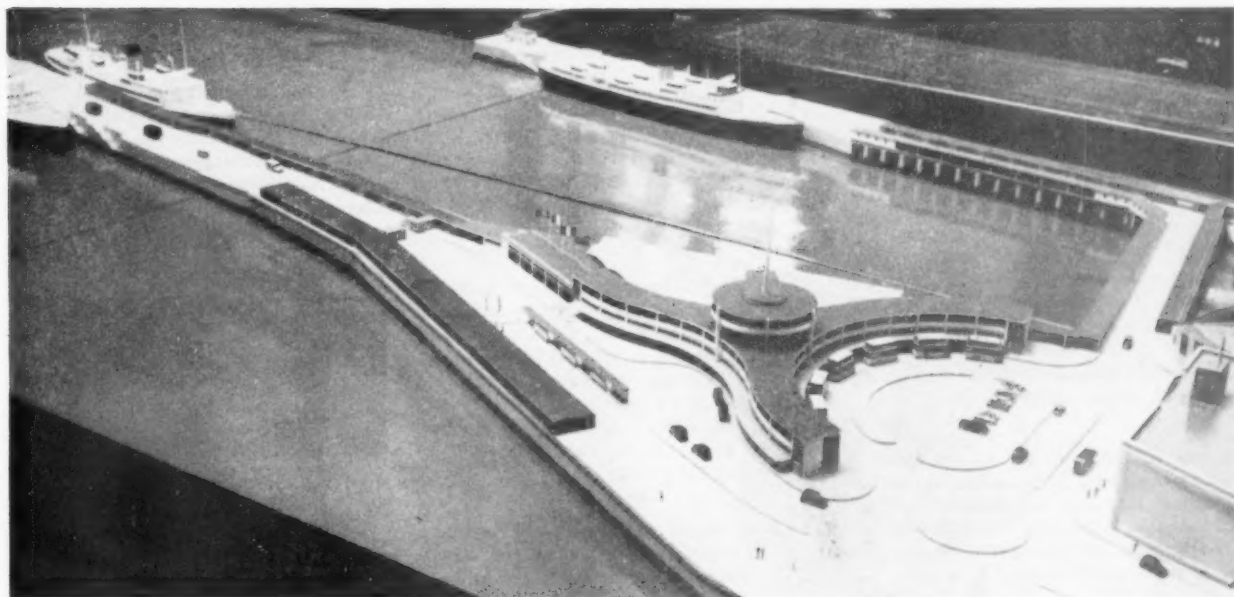


TROUGHTON & YOUNG

TROUGHTON & YOUNG (Lighting) LTD.,
The Lighting Centre, 143 Knightsbridge, London, S.W.1
Phone: KENsington 3444. And at Rodney Street, Liverpool 1

Terminal Building at Douglas Harbour

Increased comfort for invaders will be provided when the Isle of Man completes its projected £400,000 terminal building at Douglas Harbour, the model of which is shown here. Designed by Davidson, Marsh & Co. and T. H. Kennaugh (consulting engineers, E. W. H. Gifford & Partners), the Y-shaped building will provide on the ground and first floor, accommodation and all the necessary amenities for about 2,500 people, the circular second floor containing a café with wide views over the harbour and the island. Glass-fronted, the whole building is to be illuminated at night.



CONSULTING THE ORACLE



The ancients on consulting the oracle were used to receiving enigmatic answers, and even when interpreted the advice was inclined to be two-edged, it was also expensive . . . Our advisory service, though not as long established as the Sybil's, has two distinct advantages. It is free, and you will not have to employ an expert to decipher our opinion.

We can offer you a complete service from the drawing board to the finished job, backed by all the experience of our 38 years as pioneers in the development of new building techniques. Why not give us a ring?



The MERCHANT TRADING COMPANY Limited

Adrienne Avenue, Southall, Middlesex.
Telephone: WAXlow 6381(7 lines).

SPECIALISTS IN

UNITEX
ACOUSTIC TILES

METCO
METAL FIXING SYSTEMS

'VEELAP'
INSULATING PANELS

Announcements

PROFESSIONAL

John Wingate, F.R.I.B.A., has taken into partnership A. Calder, A.R.I.B.A., and C. Smith, A.R.I.B.A. The business will be known as John B. Wingate & Partners and the address is Grosvenor Buildings, 68, Gordon Street, Glasgow, C.2, where they will be pleased to receive trade catalogues. The telephone number remains Central 3991/2.

Covell & Matthews, F./A.R.I.B.A., A.M.T.P.I., have ceased to practise under that style. The practice which continues from 34, Sackville Street, London, W.1, is being directed by Covell, Matthews & Partners.

Douglas A. Smith, A.R.I.C.S., chartered quantity surveyor of White House, 15, Fish Street Hill, E.C.3, and 7, The Millbank, Ifield, Crawley, has taken into partnership Brian A. Ruddle, A.R.I.C.S. The style of the firm is now Douglas Smith & Ruddle. The addresses remain unaltered.

Sidney F. Tidmarsh, A.I.A.A., and Derek S. Tidmarsh, A.R.I.B.A., practising as Herbert Wright & Tidmarsh, have taken into partnership David A. Penning, Dip.Arch., A.R.I.B.A. The practice will continue under the same style at the same address.

Peter Dickinson, A.R.I.B.A., A.A.Dipl.Hons., M.R.A.I.C., in practice as Peter Dickinson Associates at 1910, Yonge Street, Toronto 7, Ontario; 48, Rideau Street, Ottawa, Ontario; 1374, Sherbrooke Street West, Montreal, Quebec, Canada, has opened an office at 37, Gloucester Place, Portman Square, London, W.1 (Telephone: WE1beck 4557), where W. F. Manthorpe, A.M.T.P.I., A.M.T.P.I.C., ASSOC.A.I.P., A.R.I.C.S., Dip.T.P., is manager and J. M. Hunter, A.R.I.B.A., M.R.A.I.C., is chief architect.

Pascal J. Stienlet & Son, chartered architects of 4, Queen's Square, Saville Row, Newcastle upon Tyne 1, have recently opened a branch office at 40, Howard Street, North Shields, under the direction of S. V. Joel, A.R.I.B.A.

S. Penn-Smith, F.R.I.B.A., chartered architect and surveyor, has taken into partnership his son, D. J. Penn-Smith, Dip.Arch., Dip.T.P. (Dunelm), A.R.I.B.A., Robert K. Kinton, Dip.Arch., A.R.I.B.A. (whose practice is incorporated in the new firm), and C. J. W. Davey, Dip.Arch., A.R.I.B.A. The practice will be known as S. Penn-Smith Son & Partners, at the present address.

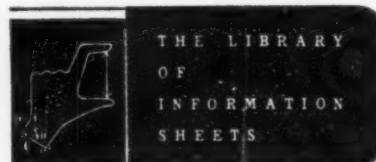
Andrews, Emerson & Sherlock have taken into partnership John Davison and David Lewis. The name of the firm is unchanged.

John G. Coppock, Dip.Arch., A.R.I.B.A., has moved his office to 41, Donegall Pass, Belfast 7 (telephone: 24153), where he will be pleased to receive trade literature.

TRADE

A. R. Dale Harris has resigned his directorships of The Unit Construction Company, and Pierhead Ltd. to take up his appointment as managing director of Edendale Properties Ltd. at 34, St. James's Street.

R. Dingwall (chief engineer), and W. V. Golding (raw materials and transport superintendent), of Dorman Long (Steel) Limited, have been appointed special directors of that company and also of the parent company, Dorman, Long & Company, Limited.



34.K2 34.Z1 34.Z2 REFERENCE BACK

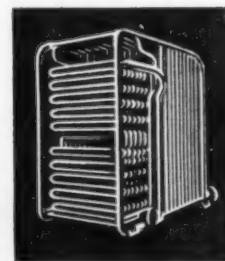
The address of the manufacturer's Birmingham office is now 31, Stafford Street, Birmingham 4. The telephone number remains the same.

For more than 4 years
EDWIN DANKS
OF OLDBURY
(A member of the Babcock & Wilcox Group)
has designed fabricated
and installed...

**CORNER
TUBE
BOILERS**

FOR H.P.
HOT WATER
INSTALLATIONS,
SUCH AS...

WORKS IN SHEFFIELD · OFFICE BLOCKS IN MANCHESTER
WAREHOUSES IN LONDON · MULTIPLE STORES IN BIRMINGHAM
FACTORIES IN SHEFFIELD · OFFICE BLOCKS IN BIRMINGHAM



...and now offers Corner
Tube design for Steam
duties. The First
Contract is 2 Steam
Boilers 15,000 lb. 350 lb.
pressure F.S.T. 570 F.
This versatile experience
in Corner Tube Boiler
design and fabrication
is at your service from

**EDWIN DANKS
& CO (OLDBURY) LTD**
OLDBURY Near BIRMINGHAM
Tel: (Main Works) Broadwell 2531



Drum series. A range of 25
pendant, wall and ceiling units,
from 5" to 15" in diameter,
available in 6 colours.

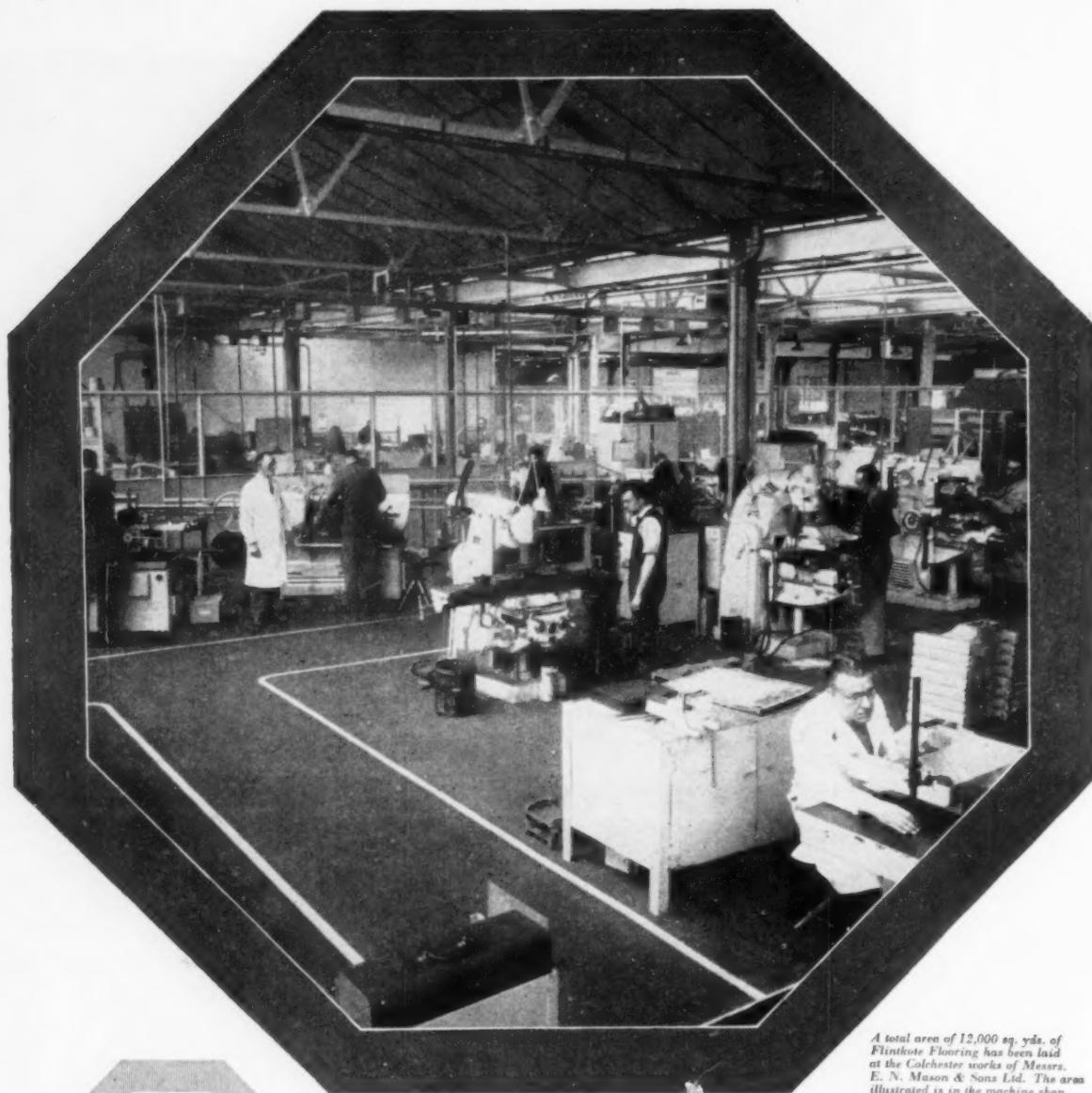
Its salient feature is the translucent
opal precision moulded louvre.

Designed by Paul Boissevain.



Merchant Adventurers Limited

Feltham, Middlesex. Telephone FEL 3686
Full information is given in publication D4



A total area of 12,000 sq. yds. of Flintkote Flooring has been laid at the Colchester works of Messrs. E. N. Mason & Sons Ltd. The area illustrated is in the machine shop where the flooring must be capable of withstanding the most arduous traffic conditions.



Industrial flooring virtually eliminates maintenance.
Simple to apply and cold laid. It is particularly
suitable for heavy traffic conditions.

World-wide Availability and Technical Advisory Service

*Full
information
on request*

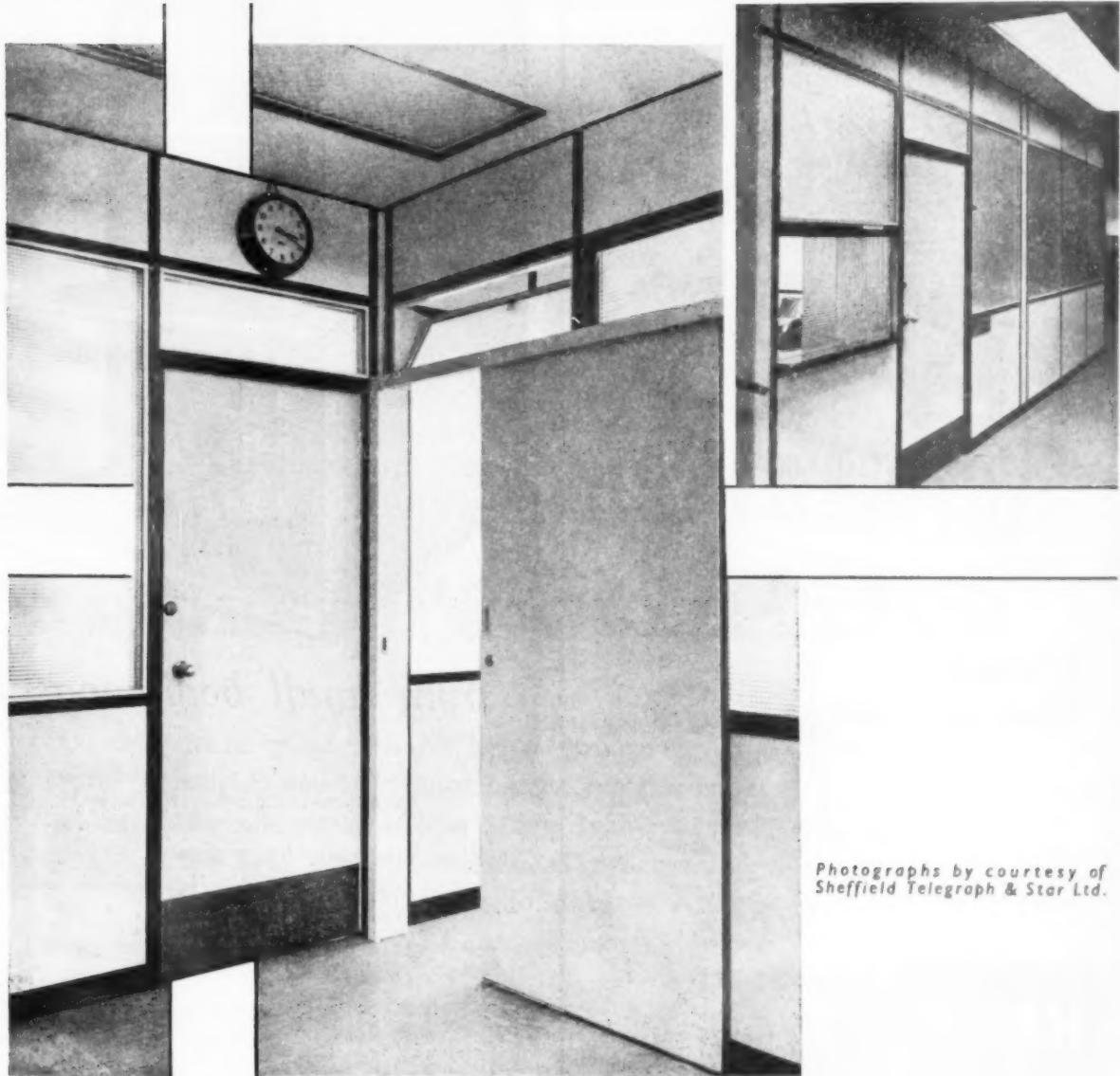
The Flintkote Company Limited
Adam House, One Fitzroy Square, London, W.1.

Telephone: Euston 7224

Telegrams: Flintkote, Wesdo, London

Cables: Flintkote, London

P.15.



*Photographs by courtesy of
Sheffield Telegraph & Star Ltd.*

"MELLWALL" PARTITIONING

Sheffield Telegraph & Star Building - Sheffield 1

Architects: J. W. Beaumont & Sons F./A.R.I.B.A.

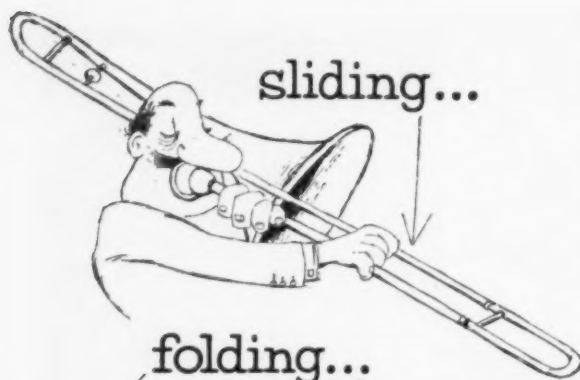
Contractors: Geo. Longden & Son Ltd.



by

MELLOWES & CO LTD

SHEFFIELD • LONDON • OLDHAM



round-
the-corner



DOORS



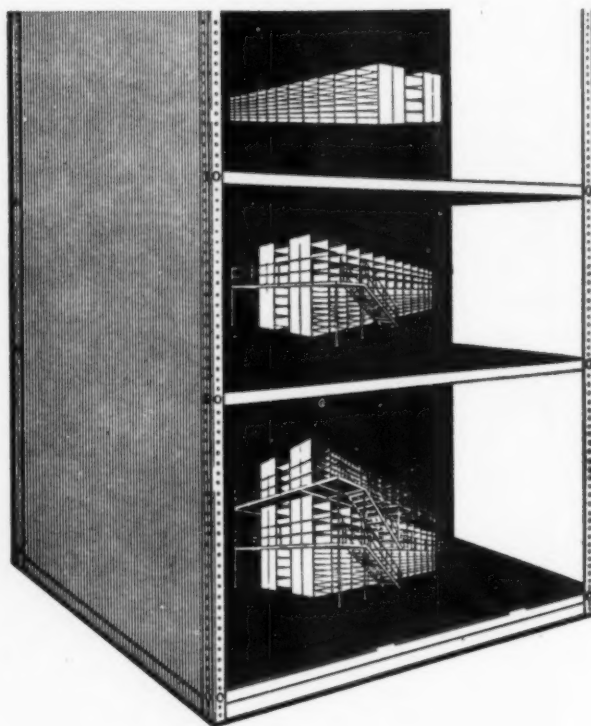
gear
sets
the
pace!



For domestic, industrial and power-operated giant doors that fold, slide, or round corners, consult KING — door gear craftsmen for over 40 years! A KING representative will call on you ANYWHERE in the world! For illustrated literature, write to:

GEO. W. KING LTD

Argyle Works (29/A5) Stevnage, Herts. Telephone: Stevenage 440



from small beginnings...

Constructors 'Adjusteel' Shelving designed to conform to B.S.S. 826/1955 can be extended to 2, 3, or 4 tier installations as your organisation progresses.

Open or closed shelving in all standard sizes available from stock.

Layouts and suggestions prepared without obligation.

We can save time, space and money in your storage.

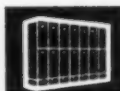
GOOD PLANNERS ALWAYS CONSULT

CONSTRUCTORS

FOR FACTORY EQUIPMENT & OFFICE FURNITURE



OFFICE DESKS



CLOTHES LOCKERS



FILING CABINETS



CYCLE RACKS



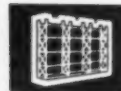
PARTITIONING



ADJUSTEEL SHELVING



RECORD SYSTEMS



PALLET RACKING

CONSTRUCTORS LIMITED, Dept. Z, Tyburn Road, Erdington, Birmingham 24. Telephone. ERDington 1616

London Office: 98 Park Lane, W.1. Telephone: MAYfair 3074
Leeds Office: 25 Merrion Street. Telephone: Leeds 28017

LOWER COST CONVERSIONS

Thermal Insulation and Fire Resistance

Gypsum plasterboard helps you to meet current thermal insulation needs without increasing fire hazards.

Because it meets Class 1 requirements, B.S. 476, Spread of Flame Test, without additional treatment, it is economical in both time and labour. It is available at a low cost . . . averaging 2/6d. per sq. yd. on bulk consignments.

INTERESTING BOOKLETS AVAILABLE

Booklets prepared for both technical and non-technical readers, give comprehensive information on the use of plasterboard in conversions. Write for your free copies to . . .



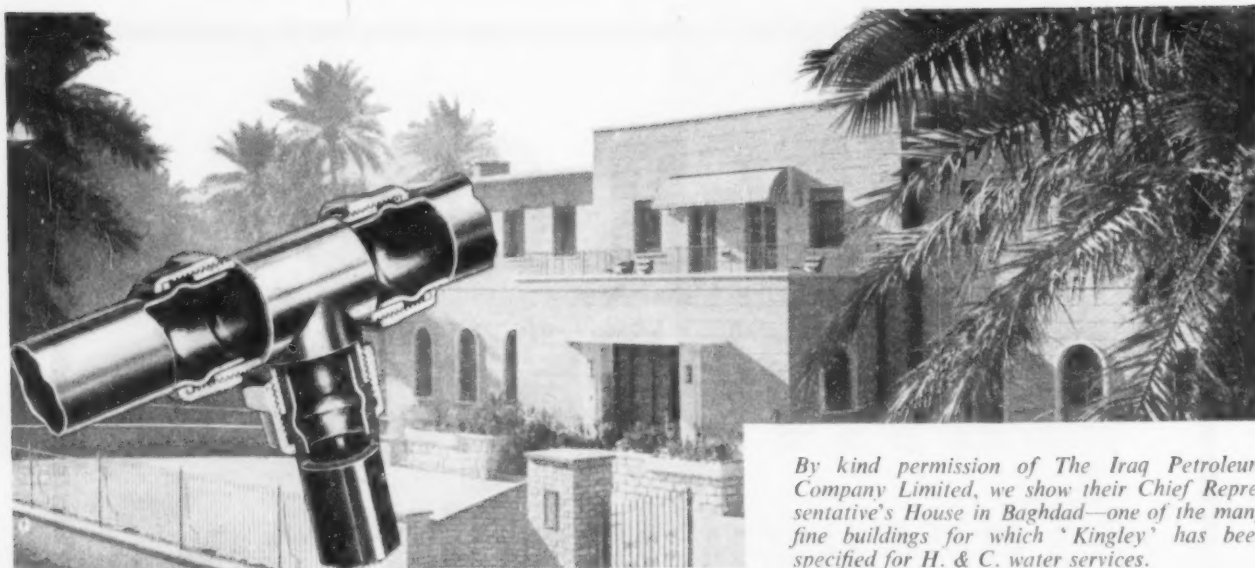
THE GYPSUM PLASTERBOARD DEVELOPMENT ASSOCIATION

MEMBERS The British Plaster Board (Manufacturing) Limited · Gyproc Products Limited · Imperial Chemical Industries Limited.

An Association for the promotion, encouragement and development of the proper use of gypsum plasterboard. Plasterboard made by members meets the highest standards, and their experienced technicians give real after-sales service.

G.P.O. BOX NO. 321, LONDON, N.W.1.

CON. 2



By kind permission of The Iraq Petroleum Company Limited, we show their Chief Representative's House in Baghdad—one of the many fine buildings for which 'Kingley' has been specified for H. & C. water services.



the 100% efficient joint

'KINGLEY' manipulative joints are used in conjunction with both copper and polythene tubing. These joints are being specified to an ever-increasing extent for major building projects in many parts of the world. They have many advantages over other jointing methods, but the most important are:—(1) 100% safety in all climates. (2) Very quick assembly. (3) Low installation costs.

★The 100% safety is ensured by means of a swage in the ends of the pipes on which the joints are made. This swage (which is made in seconds with a fool-proof tool) makes PULL-OFF impossible in heat or frost.

KINGS LANGLEY ENGINEERING CO. LTD., Kings Langley, Herts. Tel.: Kings Langley 4022

Complete laboratory fume extraction in these fine modern Research Buildings was carried out by TANKS & LININGS LTD., using Rigid P.V.C. thermoplastic for ducting and fans.

Photograph (left) reproduced by courtesy of May and Baker Ltd., Dagenham.

Photograph (above) reproduced by courtesy of Ashburton Chemical Works Ltd., Trafford Park, Manchester.

Tanks & Linings Ltd

CORROSION ENGINEERS, 11 TOWN WHARF, DROITWICH, WORCS.
Telephone: Droitwich 2240, 2249 and 3306. Telegrams: Tanks, Droitwich.



PRESSED STEEL CO. LTD. COWLEY



A contract comprising Executive and Secretaries Offices, Waiting Room, Corridor Panelling and Private Entrance was carried out by our organisation to the designs and under the direction of Harry W. Weedon, F.R.I.B.A., and Partners.

Harris and Sheldon Commercial Furniture is used extensively in these offices.

OUR DESIGN AND TECHNICAL SERVICE IS READILY AVAILABLE TO ASSIST IN THE DEVELOPMENT OF ALL TYPES OF DECORATIVE SCHEMES



Harris & Sheldon Limited

The organisation with a background of 75 years experience

BIRMINGHAM · LONDON · GLASGOW · TORONTO

We are exhibiting at
THE MANCHESTER BUILDING CENTRE
115 PORTLAND STREET, MANCHESTER 1.
Information CENtral 6933



SLIDEAWAY



THE ALUMINIUM Sliding Door

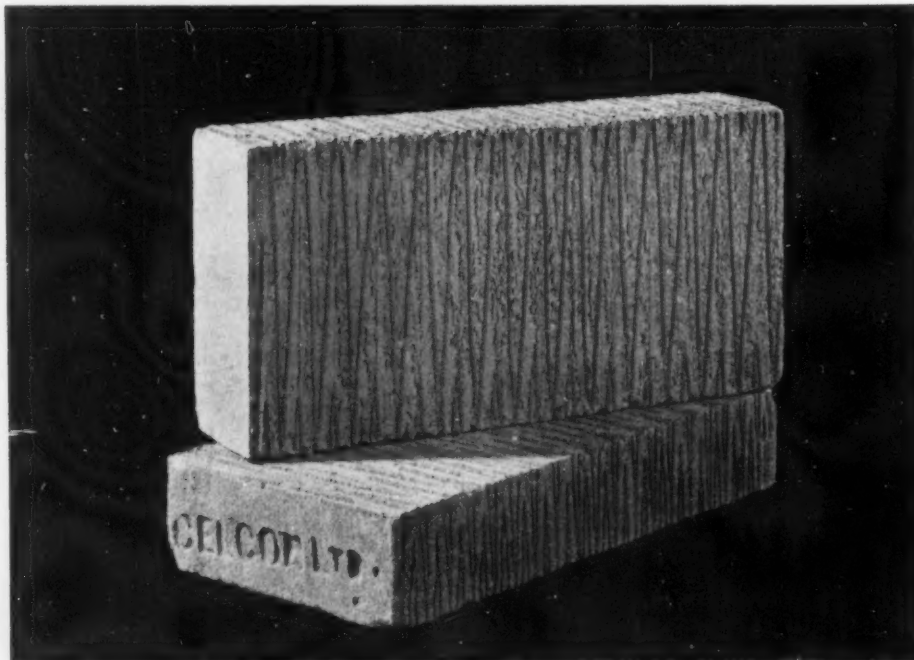
For garages & showrooms

Four systems of sliding doors and windows comprise the AJAX range—from the small access sashes for showcases to the type illustrated here. Standard anodised finishes are self-colour, gold and black and components are available for fabrication by Contractors.



AJAX ALUMINIUM LIMITED
Kangley Bridge Road · London
S.E.26 · Telephone: SYD 3222

Customer: *Crimble of Staines Ltd.*
Contractors: *Frederick Coyle & Co. Ltd.*
Architect: *Edward Mold, A.A.Dipl., A.R.I.B.A., M.S.I.A.*



BUILD WITHOUT BRICKS

in
LIGHTWEIGHT
LOADBEARING
CELLULAR
CONCRETE
BUILDING
BLOCKS

for further information, samples and prices

CELCON LTD.

UNIVERSAL HOUSE,
60 BUCKINGHAM PALACE ROAD,
LONDON, S.W.1. Tel. SLOane 0324/7

Density—50 lbs./cu. ft.

Crushing Strength—
600/800 lbs./sq. inch

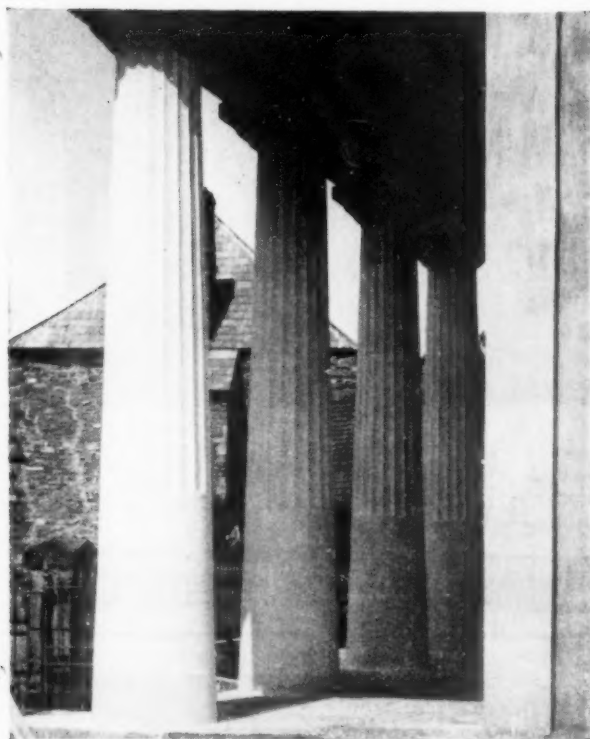
Thermal Conductivity
'K'—1.2 BTU/sq.
ft./hr./°F./inch

Moisture Movement—.05%

Drying Shrinkage—0.5%

Fire Resistance — Satisfies
B.S.476; Part 1 for 4 hours.

A Classic Restoration



— at Caerleon Legionary Museum

(A Branch Museum of the National Museum of Wales)

Architects: T. Alwyn Lloyd & Gordon, 6 Cathedral Road, Cardiff.

Wrought in Caern stone, these classical columns and capitals were in an advanced state of decay, in some places to a depth of two inches. The entire surface stone was cut back approximately two-and-a-half to three inches, carefully dowelled and reinforced with non-ferrous metal, and reformed in exact line and detail by our Plastic Reconstructed Stone Medium, the colour and texture of the original being perfectly matched. This process not only made major structural work unnecessary. It meant a big saving in capital outlay.

If you have a similar problem, our technical staff will be pleased to call and advise.

NEW STONE & RESTORATION LTD.

33 Sloane Street, London S.W.1

Tel. BELgravia 6271

Also at:

1, Belmont Road,
Belfast.

Tel. Belfast 656388/9.

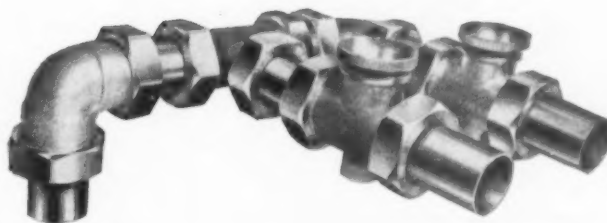
and:

Wimpenny's Stone Quarries,
Crossland Hill, Huddersfield.

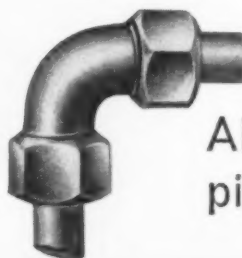
Tel. MILnsbridge 42.

W.S

NON-STANDARD



AND STANDARD TOO



All high standard
pipe fittings from

KONTITE

A MEMBER OF THE ALCO GROUP OF COMPANIES

Kontite's range of over 22,000 different types and sizes of fittings for copper tube, is the biggest in the business. Many of these can be supplied straight from stock. Specials take only a little longer. That's what makes Kontite service the best in the business. First class materials and the proved efficiency of Kontite Gunmetal fittings are your guarantee of complete reliability.



KAY & CO. (ENGINEERS) LTD.
BOLTON BRASS WORKS · BOLTON · LANCs.
TELEPHONE: BOLTON 21041/4



TYPE H. T.
RIVETED BEAM

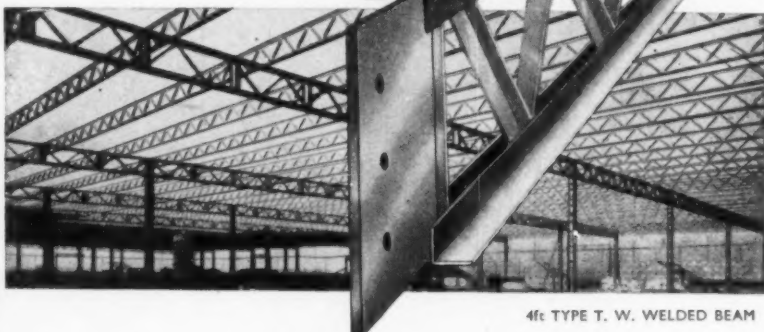
Our Beam system gives a maximum of standardization to obtain economy and yet at the same time allows complete freedom to architectural planning.

SOMMERFELDS
LTD.

LATTICE BEAMS

AND OF COURSE STANCHIONS

These beams are widely used in the modern planning of factories, school classrooms, offices, canteens, etc., where spans of 20ft. to 40ft. are encountered. They are most economic for all light roofing, combine well with the many prefabricated slabs which span directly between supporting joists.



4ft TYPE T. W. WELDED BEAM

Our Structural Design Office are pleased to advise and quote for
THE COMPLETE STEELWORK OF ANY PROJECT.
Please write for full details and data sheets.

Head Office: WELLINGTON SHROPSHIRE ENGLAND
London Office: 167 VICTORIA ST LONDON S.W.1.

Tel: Wellington 1000
Tel: Vic 8843 & 1000

BLACKPETE

A BITUMINOUS PAINT
OF QUALITY



DRIES HARD IN
3 TO 4 HOURS
WITH A BRILLIANT
LUSTRE



GIVING
1st CLASS
PROTECTION

at a sensible price

TO:
STRUCTURAL
IRON & STEELWORK
RAINWATER TANKS
DOWNSPOUTS
GUTTERS
SHEDS
ROOFING FELT
GATES & FENCES
DUTCH BARN
WAGONS, ETC.

1 gall. TIN 10/- per gall.

5 or 10 gall. DRUM 8/- per gall.

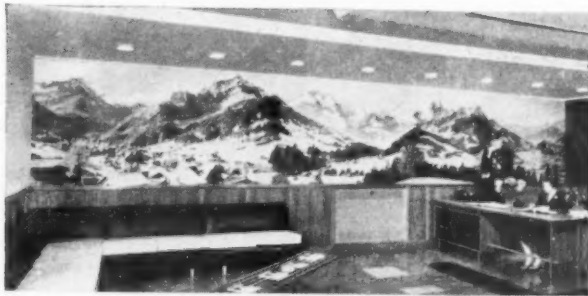
40 gall. DRUM 7/- per gall.

WAREING BROTHERS & CO LTD

CARLTON ST. WORKS,
BOLTON, LANCASHIRE
Tel. No.: BOLton 21566 (3 lines)

C.W. 4891

PHOTOMURALS . . .



. . . ask AUTOTYPE

ARCHITECTS throughout the country are using AUTOTYPE photomural, with great success in reception halls, offices, showrooms, shops, schools, restaurants, cafés, ballrooms, private houses, etc.

In full colours, or black-and-white, mounted on prefabricated panels for fixing on site, or black-and-white unmounted. Photographs, engravings, originals of all kinds available for selection.

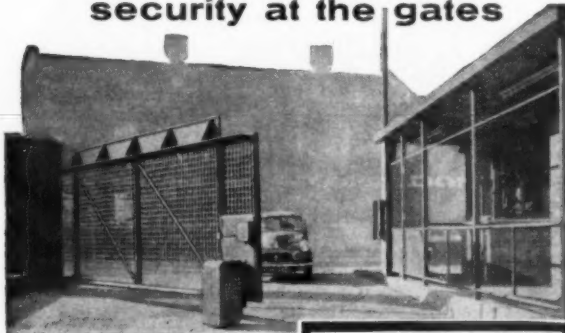
Autotype are acknowledged the leading specialists in this growing development. The benefit of their long experience and advice is yours for the asking. Enquiries welcomed.

See our
photomurals on
exhibition
in the Building
Centres at London,
Manchester, Bristol
and Glasgow

AUTOTYPE

The Autotype Company Limited
Brownlow Road, West Ealing, London, W.13
Ealing 8861

Controlled * security at the gates



*
*Push button operation
from lodge or gatehouse*

Bolton traffic barriers and swing-gate operating units provide the simplest, surest method of controlling traffic in and out of docks and other premises where security must be maintained. Both units are electrically operated and are controlled from lodge or gatehouse. In addition to the tubular traffic barriers shown right, there is a lattice model which provides even greater entrance control. As this model is raised the lattice folds flat thus providing clearance for the largest vehicles and loads.

Write now for fully informative leaflet AJ 394

A "Commissionaire" swing-gate operating unit fitted to a gate 20 ft. 10 ins. wide by 8 ft. high and specially designed to accommodate a fall in the roadway.



CHOOSE BOLTON TRAFFIC BARRIERS
& SWING GATE OPERATING UNITS

BOLTON

The BIG name in doors and gates

BOLTON GATE CO LTD · BOLTON · LANCs

Branches at London, Glasgow, Birmingham, and towns throughout the country

GBG394



Keep
it
quiet
with

"KILNOISE"

TRADE MARK

Cellular Acoustic Tiles

"KILNOISE" improves comfort, protects hearing and prevents speech strain.

"KILNOISE" is a top grade acoustic tile with the highest sound absorption, plus dimensional stability under all humidity/temperature conditions.

"KILNOISE" also provides good thermal insulation, fire protection and the highest light reflectivity.

Easy to fix either by metal suspension or adhesive.

Please write for full details.

**"KILNOISE" — easy on the eye
— easier on the ear!**



**WILLIAM KENYON & SONS
(METAMICA) LIMITED**

DUKINFIELD · CHESHIRE

Telephones AShton-under-Lyne 1614/7 and 3673/6

K.T.5

IT'S HARDLY SURPRISING
that more and more Architects
and Builders are specifying the

BATLEY *Suparise*
SPRING CONTROLLED
UP & OVER DOOR GEAR

because they know that Suparise is exceptionally robust, reliable and easy to fit. Available for new installations, with a choice of Aluminium Alloy or selected Timber Doors; or for converting existing hinged doors to 'Up & Over' Doors. PRICE £11.10.0 (gear only). Alternatively complete Batley Up and Over Doors can be supplied in ribbed Aluminium Alloy (£20) or exterior grade Mahogany Ply (£19), or Roller Shutter doors in selected timber laths.

Generous Trade Terms
available



Brochure from: **ERNEST BATLEY LTD**

63g, Colledge Road, Holbrooks, Coventry

Tel: 87253

PEEL'S
sectional buildings
quickest up!
longest up!



* Extensive range of Standard designs

* Individually designed if required

* Free delivery within 200 miles radius

* Easy to erect

* New timber throughout

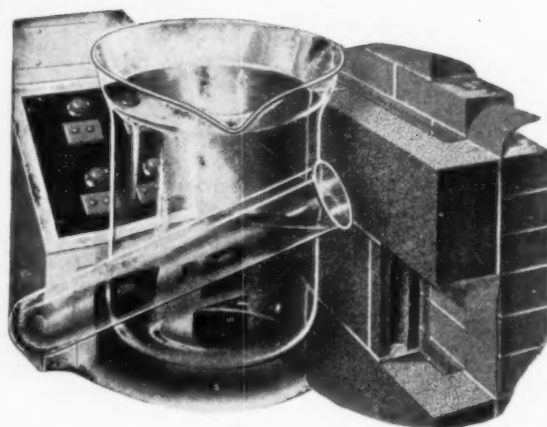
Send for PEEL'S comprehensive catalogue and price list, or ask for representative to call.

H. PEEL LTD.

Dept. AJ Mearclough Works, Wakefield Road,
Sowerby Bridge, Yorkshire. Tel: Halifax 81211



Everything



a block should have . . .

- ★ High Quality
Laboratory control
- ★ Low Cost
Quicker building
- ★ Thermal Insulation
Built-in warmth
- ★ Loadbearing
of course
- ★ Reveal Blocks
and Coursing blocks too
- ★ Cutting Slots
for quick and easy cutting
- ★ Delivery
ex-stock

... the Broad - Acheson Block has .

*The new Technical Brochure is worth having—
a copy will be sent on request*

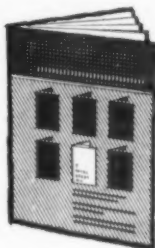


BROAD & CO., LTD.
4 SOUTH WHARF, PADDINGTON, LONDON W.2
Telephone: PADDington 7061(20 lines)

Complete priced bills of quantities... copied speedily!

Now—you can avoid delays, save money, prevent transcription errors! Any set of priced Bills of Quantities—large or small—can be copied quickly and accurately by the Rank-XeroX Copy Service onto ordinary paper, dyeline translucencies or offset masters.

Send for 16-page booklet RX30, and leaflet RX32 giving full details of this service, and of its use by the L.C.C.



40 Wilson Street, London E.C.2. Tel: BISHopsgate 1885
38 Gt. Charles Street, Birmingham. Tel: CENTral 0351
Also in Paris, Amsterdam, Dusseldorf, Munich and Sydney.



PICK THIS UP TO STOP CORROSION!

To solve your corrosion problems, get in touch with Plus-Gas the Anti-Corrosion Specialists: their Technical Advisory Service covers the whole country. Plus-Gas Formula 'A' Dismantling Fluid, (Rust Remover). Plus-Gas Formula 'B' Protective Fluid. Used and approved by all industries for many years. Have you heard of Plus-Gas Formula 'E' External Metal Treatment (Tannating Pre-treatment)?

PLUS-GAS

COMPANY LTD

Trevor House,
100, Brompton Road,
London, S.W.3.
Tel. KNightsbridge
0425/8

PROTIM

PROTECTS TIMBER

All timber used in building construction should be treated before use with **PROTIM WOOD PRESERVATIVE**. **PROTIM** is a modern, water free and water repellant preservative. It provides timber with permanent protection against all known forms of fungal and insect attack.

PROTIM does not cause any dimensional change in treated timber such as twisting, warping, shaking and splitting after treatment, **PROTIM** can therefore be specified with confidence for all joinery work.

PROTIM AUTHORISED PROCESSORS consist of old established highly reputable timber importers and merchants, situated throughout the United Kingdom. They provide a first class service in **PROTIMISED** timber of every kind, quality and description.

A specialist **ERADICATION SERVICE** is also maintained throughout the country. Further information is available from Protim Limited.

Protim

PROTIM LIMITED

16-17 DEVONSHIRE SQ., LONDON, E.C.2. TEL: BIS 0460/0469.

RAWLINGS BROS

LIMITED

ENQUIRIES INVITED FOR

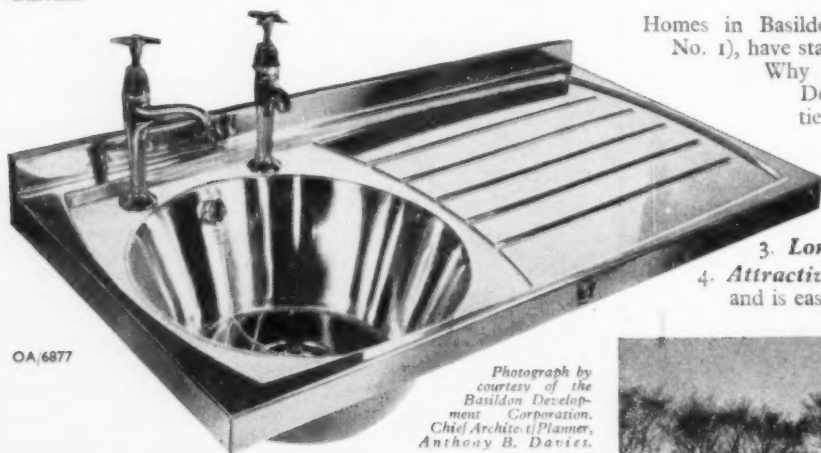
*Conversions. Decorations
Electrical Installations*

RAWLINGS BROS LTD. 85 GLOUCESTER ROAD, LONDON, S.W.7. Telephone: FRE 8161

ESTABLISHED 1887



Many progressive local authorities specify SISSONS STAINLESS STEEL SINKS



OA/6877

*Photograph by
courtesy of the
Basildon Develop-
ment Corporation,
Chief Architect/Planner,
Anthony B. Davies.*

Homes in Basildon New Town (Ghyllgrove Housing Area No. 1), have stainless steel sinks by Sissons.

Why are these products specified by Basildon Development Corporation—and other authorities too? Because of:—

1. **Low initial cost.** See Sissons special housing contract prices.
2. **Saving in maintenance costs.** No chipping, no cracking, no breaking.
3. **Long life.** Heavy gauge (18 S.W.G.) material.
4. **Attractive finish.** Stainless steel enhances kitchen—and is easy to keep clean.

★ IMPORTANT ANNOUNCEMENT

The Sissons satin-finish introduced on May 1
means NEW LOWER PRICES !

May we send further details? Please write, quoting reference number A.1

SISSONS

W & G Sissons Ltd., St. Mary's Road, Sheffield 2. Tel: 22118



LOOK!



over

60

coloured
samples

CORONET

NEW PLASTIC LAMINATES

Coronet is a highly decorative Swedish high pressure plastic laminate.

It's cheaper; and offers you the widest choice of colour combinations — over 60 attractive shades and patterns, including wood grains, plain colours and black or white.

Standard $\frac{1}{8}$ inch thick sheets, either 8 ft. x 4 ft. or 9 ft. x 4 ft., with matt or semi-gloss finish. Delivery ex stock — stockists throughout Britain.

Sole Agents for Coronet
in this country —

PHOENIX

one of Britain's major timber importers

FREE

CORONET
SAMPLES

A

To: The Phoenix Timber Co. Ltd.,
Plastics Division, Frog Island,
New Road, Rainham, Essex.

Please send me free samples of Coronet
laminates and the name of my nearest stockist.

NAME

ADDRESS



yesterday's craft
tomorrow's design

SCULPTURA

THE LILLESALL CO LTD

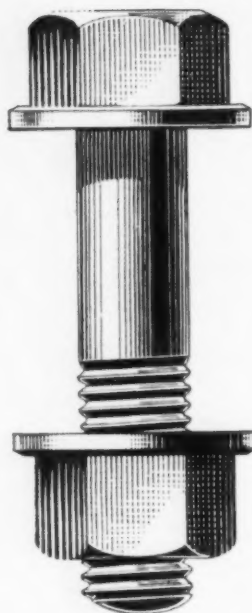
OAKENGATES SHROPSHIRE Oakengates 120
or 121 VICTORIA STREET LONDON SW1
Victoria 9992

Bidet c1960 Marquess of Queensberry MSIA
Fountain of the Innocents c1550 Jean Goujon

RICHARDS

The **BOLT & NUT** People

We produce a range of High Strength Friction Grip Bolts for constructional engineering. They are a practical and economic replacement for rivets. Our other lines include Black, Bright and Cold Headed Bolts and Nuts, "Hi-Strain" Bolts and Nuts, Alloy Steel Studs, Carbon Nuts, Permanent Way Fastenings and Telegraph Ironwork.



Look for these initials on the bolt head.

Send
for our
catalogues &
Stock list



To
Charles Richards & Sons Limited
P.O. Box 23 Darlaston, Wednesbury, Staffs
Telephone: James Bridge 3188 (8 lines)

NAME

ADDRESS

RI

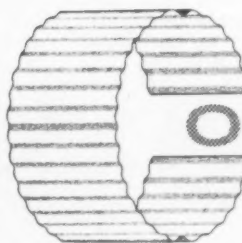
Long as you like
at one go!



... AND it resists
penetration of fire for
more than an hour *

Control has many attractive features — apart from the natural grade which diffuses 85% daylight — it is available in many pleasing, light-fast colours, translucent or opaque . . . is simple to instal in continuous horizontal lengths . . . is economical in use and saves cost of artificial lighting. But — highly important and reassuring — it has been officially tested and has a fire rating of EXT. S. AC. As a result, the London County Council are prepared to consider applications for a modification of the existing bye-laws to permit the use of Control for industrial roof-lighting in continuous lengths. This means, in effect, that similar action will be taken by authorities over a much wider area.

* At the Fire Research Station, Boreham Wood, Control was subjected to the External Fire Exposure Roof Test, in accordance with B.S. 476: Part 3: 1958. It resisted penetration of fire throughout the duration of the test of one hour. The results are given in a Report ref. F.R.O.S.I. No. 1990.



ontIROL

TRANSLUCENT
SHEETING

Control is polyester resin-glass fibre in corrugated or flat sheet and will be available in a wide variety of roofing profiles. It is expressly produced for daylight roof-lighting, north lights, verandahs, covered corridors, canopies and loading bays.

For all particulars, samples, descriptive literature and name of nearest main distributor stockist, write to:

JOSEPH WEIL & SON LTD.

Friars House, 39-41 New Broad Street, London, E.C.2.
Telephone: LONDON Wall 5052. Telex: 22514.

TAS552



**TRUFLUSH
DOORS**

Why Truflush Doors?
Why are BAILEY and WHITES proud
of their TRUFLUSH DOOR?
Because of its unique precision
construction. Because it has been
designed for economy.
Because it will give years of lasting
service at a really competitive price.
Truflush Doors are made from
Kiln-dried Timber throughout, and
knot-free lipping. The interior is
honeycombed and a mortice
block centrally placed is supplied.

Manufactured solely by

BAILEY and WHITES Ltd.

★ Write for the illustrated leaflet—today!

Bailey & Whites Ltd.
451, Commercial Road,
Portsmouth
Tel.: 24441.
Grams: Baileys, Portsmouth.
and from leading Merchant Stockists.

Easthampstead Road,
Bracknell, Berks. Tel.: 680/476.
Queen's Drive, Nottingham.
Tel.: 82138.
Diglis Dock, Worcester. Tel.: 27277



Heetrite

**THE UP TO THE MINUTE
HEATING SYSTEM**

Gives all the year round Air Con-
ditioning. Quicker and easier to
install than any other system.

Lower installation and running costs.

B. J. CAMBRIDGE (HEETRITE) LTD.
(HEATING DIVISION) Dept. A.J. 1
49 BRUNSWICK ROAD GLOUCESTER

Have you sent for your copy of the NEW PRESTEX CATALOGUE?

IT'S FREE - send for your copy NOW

bigger, better, more comprehensive than ever,
tells you all you want to know about the wide
range of top quality—low price joints and fittings.



PEGLERS LTD • BELMONT WORKS • DONCASTER
Also at 28 Thorp Street, Birmingham, 5
PRESTEX HOUSE MARSHALSEA ROAD LONDON SE1

To: Peglers Limited, Prestex House, Marshalsea Road, London SE1
Please send a free copy of your 1960 Prestex Catalogue to

NAME _____

ADDRESS _____

AJ

TGA C148

Applied Lettering

Variety of alphabets and materials for internal or external use, Illuminated Letters and Box Signs. Send for lettering sheets and brochures.

WARD & CO. (Letters) LTD.,
6-12 WILDER ST., BRISTOL 2 TEL. 21536



TURNTABLES — MANUAL OR POWER OPERATED

Flush Fitted New Showrooms, Service Bay or Car Park. Stone Display and Exhibition. Permanent or Portable Designs.

**TECHNIGRAPHIC
BRISTOL
LIMITED**

CREWS HOLE ROAD, ST. GEORGE, BRISTOL 5
51504-5



A range from 1 cwt. loading to 12 tons. Display or industrial. Technical Representatives by appointment.

Contracts are safe with

Benbow

OF TORQUAY

Shopfitters and Bar fitters

Head Office Petitor Road Torquay

Telephone 89234/5

REGULAR CONTRACTORS IN DEVON CORNWALL SOMERSET GLOUCESTERSHIRE WILTSHIRE DORSET HAMPSHIRE SOUTH WALES

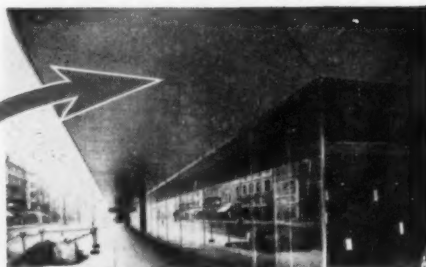
.... **NEW MATERIAL FOR THE ARCHITECT!**

Lamiplate

THE
PVC/METAL
LAMINATE

PANELLING
PARTITIONING
SHELVING
CANOPIES
FASCIAS
DOORS ETC.

WEATHER
RESISTANT
LIGHT FAST
AVAILABLE
ON STEEL,
ALUMINIUM
AND TINPLATE



ARCHITECTS, SLATER & UREN PERIBA.
GENERAL CONTRACTORS RUSH & TOMKINS.

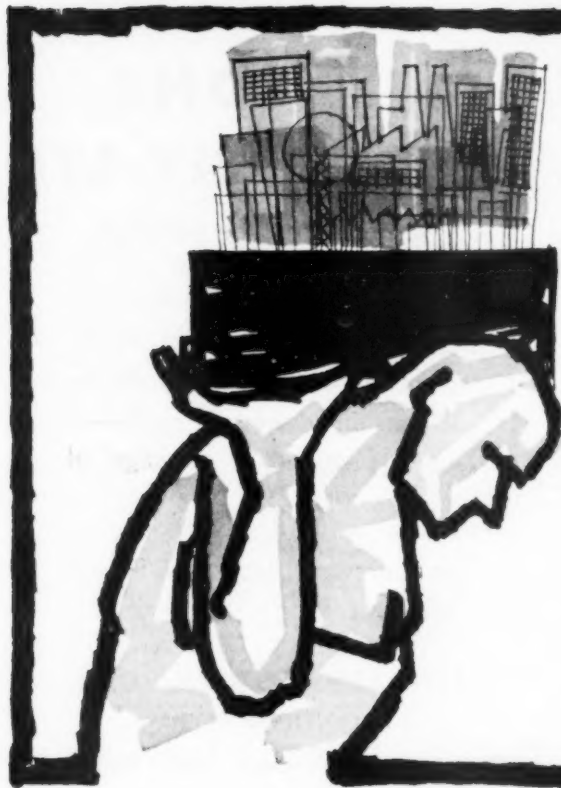
Lamiplate
WAS USED FOR
THE CANOPY
ON JOHN LEWIS'
OXFORD ST. STORE

HUNTLEY BOORNE & STEVENS LTD.

*Phone READING 54466

READING

London Office: Mansion House 0302



THE FOUNDATION OF SUCCESS

The modern piling techniques and systems of Simplex are backed by over half a century of experience. Schemes and quotations for piling or reinforced concrete foundations will be gladly supplied, without obligation, on request.



7 Lygon Place, Grosvenor Gardens,
Westminster, S.W.1. Phone: SLOane 9122 3/4.

MC MANUS

McManus & Co. Ltd.
require

ARCHITECTURAL ASSISTANTS

The Architects Department deals with a wide variety of Estate Development work throughout the Country. Applicants should have a flair for House and Flat Design, and experience of Estate Planning. Pleasant accommodation in new offices in a rural area.

Please write to:
Denis Cooper, A.R.I.B.A.
Chief Architect.

McManus & Co. Ltd.,
Orchard House,
Potters Bar, Middlesex

LAING

JOHN LAING RESEARCH & DEVELOPMENT LTD

H. N. MICHELL, A.R.I.B.A.
Development Architect,

has vacancies for

ARCHITECTS

to work in the Construction Development Department. The work is related to the application of Building Systems and other developments evolved within the Department. Applicants should have a good standard of design and draughtsmanship with a sound knowledge of basic building construction.

Apply giving brief details to—

Group Personnel Officer (R.D.3)
John Laing & Son Limited,
London, N.W.7

ARCHITECTURE

and FOOD!

With its continuing expansion and the new developments taking place in food technology, the food industry offers both unusual interest and potential to the architectural profession.

Foremost in the industry is Heinz with headquarters in North-West London where an extensive new building and modernisation programme is currently in hand. Development is also taking place in two factories in the North.

The following staff are currently required:

QUALIFIED ARCHITECT

Applications are invited from architects over 30 years of age who have previous industrial experience.

The successful candidate will be required to lead a small team responsible for the development and design of a number of interesting projects at our various factories.

The appointment is a permanent one carrying an attractive salary.

ARCHITECTURAL DRAUGHTSMAN

Applications are invited from men of any age with industrial experience.

The successful candidate will become a key member of a small design team engaged on a varied building programme.

An attractive salary will be offered to the right man and young men wishing to qualify will be given every opportunity to do so.

Conditions of employment are excellent and include a non-contributory pension and free life assurance.

Please address applications, which should give a brief summary of personal history to date, to:

THE PERSONNEL OFFICER
H. J. HEINZ COMPANY LIMITED
WAXLOW ROAD, HARLES DEN
LONDON, N.W.10

J. LYONS & COMPANY LTD

ARCHITECTS OFFICE

Appointments are available for Assistants of all grades in the Company's Architects' Office, where an extensive range of work is offered.

Please write or telephone for an interview with the Senior Architect,

143 HAMMERSMITH ROAD,
LONDON W.14.

Telephone : RIVerside 2040, Ext. 248



ARCHITECT

MOBIL OIL COMPANY invites applicants for a position as Architect in their Sheffield Division Offices. A.R.I.B.A. essential and applicants must have had experience of administration, staff control and contemporary design and they will be required to see projects through from start to completion.

Car driver. Pension scheme, L.V.'s and sickness benefits.

Write giving details as to age, experience and salary required to—

Employment Adviser,
Mobil Oil Co. Ltd.,
Caxton House, Tothill Street,
London, S.W.1
quoting DAS 5210

CLASSIFIED ADVERTISEMENTS

Advertisements should be addressed to the Advertisement Manager, "The Architects' Journal," 9, 11 and 13, Queen Anne's Gate, Westminster, S.W.1, and should reach there by first post Friday morning for inclusion in the following Thursday's paper.

Replies to Box Numbers should be addressed care of "The Architects' Journal," at the address given above.

AIR-MAIL SERVICE available on request. In response to requests from a number of Overseas subscribers for air-mail delivery of Public and Official Appointment details and Other Appointments Vacant, we have been pleased to arrange that cuttings of all such classified advertisements appearing in the A.J., shall be despatched by air-mail on Wednesday of each week (one day prior to A.J. publication date). The cost of this special service to Overseas subscribers will be 5s. for four weeks (1s. 3d. for each additional week) and prepayment should be sent by subscribers wishing to take advantage of this service. The charge we are making represents only the actual cost of the postage involved.

Public and Official Appointments

36s. per inch; each additional line 3s.

CITY AND COUNTY OF NEWCASTLE UPON TYNE

CITY ARCHITECT'S DEPARTMENT

A unique opportunity exists in this office for competent Architects to take part in one of the most ambitious programmes of varied building works in the country, and vacancies in the establishment occur for ARCHITECTS who will be considered on their ability in design, experience, and architectural outlook, in the following grades:—

- J.N.C. "C": £1,560—£1,825 per annum.
- J.N.C. "B": £1,410—£1,670 per annum.
- A.P.T. V: £1,310—£1,490 per annum.
- A.P.T. IV: £1,140—£1,310 per annum.
- A.P.T. III: £960—£1,140 per annum.
- A.P.T. II: £815—£960 per annum.
- A.P.T. I: £645—£815 per annum.

The Department is engaged upon a wide and varied programme of major redevelopment schemes embracing multi-storey flats, shopping precincts and associated community buildings, one of which schemes is the Scotland Road Redevelopment Area to rehouse approximately 5,000 people, and which is expected to cost in the region of £12 million.

Planning work has now commenced on the new Education Precinct in the central area, comprising Colleges of Further Education, Art and Industrial Design, Drama, Commerce and Multi-storey Hostels, which will be the largest development of its kind in the country.

Further projects include: Airport Terminal, Abattoir and Fatstock Market; Vegetable Markets; Central Library; and Divisional Police Headquarters, etc., and a varied programme of normal housing development of a stimulating character.

The department is also engaged on the New Town Hall where an exceptional opportunity is presented for working on a building of some £4 million in value, and being executed in materials of the highest quality.

Architects wishing to take part in one of Britain's most stimulating programmes should apply immediately for further details and forms of application to George Kenyon, A.R.I.B.A., A.M.P.I., City Architect, 18, Cloth Market, Newcastle upon Tyne, 1, indicating the grade for which they wish to apply.

JOHN ATKINSON,
Town Clerk.

Town Hall,
Newcastle upon Tyne, 1
26th February, 1961. TC6084

CITY OF GLASGOW

ASSISTANT ARCHITECTS

The Architectural and Planning Department has a number of vacancies for qualified assistant architects.

The Department has in hand a large, varied and interesting programme of work, including Comprehensive Redevelopment, Multi-storey Flats, Schools and Civic Buildings. The work will provide scope for personal initiative in the preparation of designs and details of schemes upon which construction work will follow.

The salary scale for these assistantships is up to £1,550 with placing according to experience.

A five-day week is in operation. Advances up to 100 per cent. of valuation will be made available, where needed, for the purchase of suitable houses in or near Glasgow, by successful applicants.

Form of application may be obtained from the Principal Administrative Officer, 20 Trongate, Glasgow, C.I.

A. G. JURY,
City Architect and Director of Planning.
S7268

METROPOLITAN BOROUGH OF POPLAR ASSISTANT ARCHITECTS (full time or part-time) required by Poplar Borough Council for immediate appointment. Salary scale A.P.T. III/IV (£960—£1,140 p.a.; £1,140—£1,310 p.a. plus 44s p.a. "weighting"). Commencing salary according to qualifications and experience. Projects include multi-storey flats and maisonnettes, etc., in redevelopment areas, and municipal buildings. Application forms from Borough Engineer and Surveyor, Poplar Town Hall, Bow Road, E.3. S7427

AYCLIFFE DEVELOPMENT CORPORATION
(New Town of Newton Aycliffe)
ASSISTANT ARCHITECTSAND
ARCHITECTURAL ASSISTANTS

Applications are invited for the above appointments at salaries within the range of Grades A.P.T. IV and VI of the Whitley Council for New Towns Staff salary scales, i.e. £1,140—£1,565 p.a. The commencing salary and grade will be fixed according to the qualifications and experience of the successful applicant.

The principal work for the successful applicants will be in connection with the development of the Town Centre of the new town.

Appointments subject to N.J.C. Conditions, superannuation, medical examination and to one month's notice, in writing, on either side.

Housing accommodation available, if required. Applications, stating age, qualifications and experience, together with the names of two referees, to be sent to the undersigned.

A. V. WILLIAMS,
General Manager.

Churchill House,
Newton Aycliffe,
Nr. Darlington. TC6672

LINDSEY (LINCOLNSHIRE) COUNTY COUNCIL

ARCHITECT'S DEPARTMENT

North Lincolnshire is developing rapidly and the work in the Department is growing correspondingly and is of a most interesting nature. Vacancies exist for the following grades of Architects/Junior Assistants:—

- (a) A.P.T. 4 Salary £1,140—£1,310
- (b) A.P.T. 3/4 Salary £960/£1,310
- (c) A.P.T. 3 Salary £960/£1,140
- (d) A.P.T. 1 Salary £645/£815
- (e) A vacancy also exists for Engineering Assistant (Heating) A.P.T. 3 £960/£1,140.

Commencing salary within the grade dependent upon qualifications and experience. Five Day Week. Post entry training assistance for study. N.J.C. Conditions of Service. Canvassing will disqualify, and candidates must disclose in writing whether to their knowledge they are related to any member or senior officer of the Council.

Applications giving age, qualifications, experience, present post and salary, and names of two referees to be sent to me, County Architect, County Offices, Lincoln, for posts (a) to (d) by 6th June, (e) by 21st June, 1961. S7612

COUNTY BOROUGH OF NORTHAMPTON

Applications are invited for the following appointments:—

- (1) TEMPORARY SENIOR ASSISTANT ARCHITECT, LETTERED GRADE "C" (£1,560—£1,825) for the building of new Municipal Offices and Shops adjoining the Guildhall, for a period of about three years.
- (2) SENIOR ASSISTANT ARCHITECT, A.P.T.V (£1,310—£1,480) required in the first instance for new Municipal Offices.
- (3) SENIOR ASSISTANT ARCHITECT, A.P.T. IV/V (£1,140—£1,480) for Education & General Section.
- (4) TEMPORARY TOWN PLANNING ASSISTANT, A.P.T.IV/V (£1,140—£1,480) for review of the Development Plan.
- (5) MAINTENANCE SURVEYOR, A.P.T.III (£960—£1,140).

Full particulars and application form, returnable by 5th June, from Borough Architect & Town Planning Officer, Guildhall, Northampton, C. E. VIVIAN ROWE, Town Clerk. S7627

HUNTINGDONSHIRE

COUNTY ARCHITECT'S DEPARTMENT

Applications are invited for the following appointments:—

- (a) ARCHITECTURAL ASSISTANT, Grade A.P.T.4 (£1,140—£1,310). Applicants must hold the A.R.I.B.A. qualification.
- (b) ARCHITECTURAL ASSISTANT, Grade A.P.T.2 (£815—£960).

Application forms may be obtained from the County Architect, County Buildings, Huntingdon, and completed forms should be returned to the undersigned by Monday, 5th June, 1961.

A. C. ATYWARD,
Clerk of the County Council.

County Buildings,
Huntingdon. S7625

CITY OF WORCESTER

APPOINTMENT OF ARCHITECTURAL STAFF Applications are invited to fill vacancies in the Architectural Section of the City Engineer and Surveyor's Department.

Two SENIOR ASSISTANT ARCHITECTS, A.P.T. Grade IV (salary £1,140—£1,310). Applicants must hold the A.R.I.B.A. qualification.

Three ARCHITECTURAL ASSISTANTS, A.P.T. Grades I/II (salary £645—£960). The appointments are superannuable and subject to medical examination.

Housing accommodation will be offered, if necessary, and the Corporation are prepared to make a contribution towards removal expenses.

Casual Users' Car Allowance will be applicable. Applications stating age, present and previous appointments and experience, together with the names of two referees, are to be sent to the City Engineer and Surveyor, 22, Bridge Street, Worcester, by 31st May.

BERTRAM WEBSTER,

Town Clerk.

Guildhall,
Worcester. S7615

ASSISTANT ARCHITECT required by HAYES & HARRINGTON U.D.C. Salary within grade A.P.T. IV, i.e., £1,140—£1,310 p.a. plus appropriate London "Weighting." Preference given to finalists of the R.I.B.A. Successful candidate must be capable of preparing sketch designs, full working drawings, specifications, supervision of building contracts, etc. Housing accommodation provided if necessary. Five day week. Further particulars and conditions of service and form of application obtainable from the undersigned, which when completed must be returned by 5th June, 1961.

GEORGE HOOPER,
Clerk and Solicitor.

Town Hall,
Hayes, Middlesex. S7616

URBAN DISTRICT OF EBBW VALE

ARCHITECT'S DEPARTMENT

ARCHITECTURAL ASSISTANTS (2). Grades III-IV (£960—£1,310).

Applications are invited for the above appointments (two) in the Architect's Department of the Council.

Applicants should be at least Intermediate R.I.B.A. Standard and for Grade IV should be corporate members of the R.I.B.A. Commencing salaries within the grades according to qualifications and experience.

The Department is engaged on an interesting programme of work including new Civic Centre Buildings which involves the construction of an Indoor Swimming Pool (just commencing). Municipal Offices, Council Chamber and Public Hall. In addition there are redevelopment and general housing schemes in course of preparation.

Alternate Saturday mornings free. Canteen facilities. Local Government Superannuation Acts apply.

Applications with usual information and names of two referees to be received by the undersigned not later than Wednesday the 7th June, 1961.

HOWARD J. WILLIAMS,
Clerk of the Council.

District Council Offices,
The Walk,
Ebbw Vale, Mon. S7614

ADMINISTRATIVE COUNTY OF LEICESTER

(a) PRINCIPAL ASSISTANT ARCHITECT,

£1,410—£1,565.

(b) CHIEF ASSISTANT ARCHITECTS, £1,310—£1,410—£1,565.

(c) SENIOR ASSISTANT ARCHITECTS, £1,140—£1,310.

(d) ARCHITECTURAL ASSISTANT, £815—£1,140 (according to qualifications).

Candidates for (a) must be members of the R.I.B.A., have had sound experience and be capable of acting as Group Leaders on an extensive programme of education buildings. Candidates for (b) must be members of the R.I.B.A., have had considerable office experience and be capable of taking charge of contracts from inception to completion. For (c), should be members of the R.I.B.A., have had office experience and be capable of taking charge of small contracts. For (d), should have Intermediate or Final qualifications of the R.I.B.A. and be capable of executing working drawings. Lodging allowance and removal expenses may be paid to a married man. Apply on form obtainable from County Architect, 123 London Road, Leicester. TC7478

SURREY COUNTY COUNCIL

Applications invited for following appointments:—

1. Salary range £960—£1,310 p.a. plus £45 p.a. London Allowance. Successful candidates will be paid according to age and experience and will receive approved removal expenses. Applicants should state salary they expect to receive.

ARCHITECTS. Must be A.R.I.B.A. and have had experience in preparation of drawings and specifications, and be capable of assuming responsibility for medium to large scale contracts.

2. GRADE II. (£815—£960 p.a. plus up to £40 p.a. London Allowance).

ARCHITECTURAL ASSISTANTS. Must be of good general training preference given those who have passed Inter. R.I.B.A.

Candidates will be appointed at the appropriate point within the scale according to age and ability.

Full details, present salary and three copy testimonials, preferably one from present employer, to County Architect, County Hall, Kingston, as soon as possible. S7569

COUNTY BOROUGH OF SOUTH SHIELDS

BOROUGH ENGINEER'S DEPARTMENT

Applications are invited for the appointment of SENIOR PRINCIPAL ASSISTANT QUANTITY SURVEYOR in accordance with J.N.C. Scale A up to £1,565 according to experience.

Applicants must have passed the Final Examination (Quantity Surveying Section) of the Royal Institution of Chartered Surveyors.

Housing accommodation will be made available to successful applicants if necessary and they will be required to pass a medical examination for Superannuation purposes.

Application forms are obtainable from the Borough Engineer, Town Hall, South Shields, and should be returned to him not later than 10 a.m., 5th June, 1961.

R. S. YOUNG,
Town Clerk.
S7486

SCOTTISH SPECIAL HOUSING ASSOCIATION LTD.

**ARCHITECTURAL DIVISION
APPOINTMENT OF ARCHITECTS**

Applications are invited from qualified Architects for the following appointments on the permanent staff:—

Architects Grade I, Salary Scale £1,325—£1,575.
Architects Grade II, Salary Scale £895—£1,385.
The posts are superannuable under the Local Government Superannuation Acts, and placing will be related to experience.

The Association is a Government sponsored and financed body, providing houses and flats throughout Scotland as directed by the Secretary of State.

The Association has at present a large and interesting programme comprising a number of major housing projects, including central redevelopment in Glasgow and other towns, together with an important programme of work in connection with Glasgow's "Overpill." Designs for mixed development layouts, including multi-storey blocks of flats up to 26 storeys in height, are being prepared, and cost analysis techniques are being used in the preparation of drawings. The posts advertised offer considerable valuable experience and opportunities for persons interested in civic design, landscaping and three dimensional planning of urban developments.

The Headquarters of the Association are in Edinburgh where housing accommodation could be provided if required.

Application forms with full details of the appointments from Harold E. Buteux, A.R.I.B.A., A.M.T.P.I., A.R.I.A.S., Chief Technical Officer, Scottish Special Housing Association Ltd., 15/21 Palmerston Place, Edinburgh, 12. S7497

SHROPSHIRE

ARCHITECTS are required in the COUNTY ARCHITECTS' DEPARTMENT to work on projects ranging from the design of the New Shirehall (£1,000,000) to new Schools, Welfare, Police and other public buildings. Salary Grades A.P.T. V (maximum £1,480) and A.P.T. IV (maximum £1,310). Qualified staff who feel they can make a contribution to one or more of these aspects of the Department's work are invited to apply for the necessary forms to Ralph Crowe, A.A.Dipl., A.R.I.B.A., A.M.T.P.I., County Architect, Column House, London Road, Shrewsbury, stating the post to be applied for. A disturbance allowance or weekly separation allowance will be paid to married men taking up the appointments.

Closing date for applications 6th June, 1961. S7555

**COUNTY BOROUGH OF BARNLEY
BOROUGH ENGINEER AND SURVEYOR'S
DEPARTMENT**

Applications are invited for the following vacancies:—

(a) ASSISTANT ARCHITECT—A.P.T. III (£960—£1,140).

(b) ASSISTANT ARCHITECT—A.P.T. II (£815—£960).

(c) JUNIOR ARCHITECTURAL ASSISTANT (Temporary)—A.P.T. I (£645—£815).

Commencing salaries may be fixed above the minimum of the grades.
The appointments are superannuable and subject to N.J.C. Conditions of Service, passing of medical examination and one month's notice on either side.

Housing accommodation can be provided if necessary and 50 per cent. of removal transport expenses will be paid in approved cases.

Five-day week and dining facilities.
Applications, naming vacancy applied for and stating age, qualifications, present and previous appointments and experience, together with the names of two persons for reference, should be sent to the Borough Engineer, Town Hall, Barnsley, by 7th June, 1961.

Canvassing will disqualify.

A. E. GILFILLAN,
Town Clerk.

Town Hall,
Barnsley.
May, 1961. 7716

HAMPSHIRE COUNTY COUNCIL

ARCHITECTURAL ASSISTANT, A.P.T. I/II (£645—£960) required for pensionable post in County Architect's Department. Candidates should be studying for or have passed the Intermediate Examination of the R.I.B.A. and have had several years' experience in an Architect's Office. The commencing salary will be determined by experience and degree of qualification. Assistance with removal and other expenses in approved cases. Five-day week. Canteen facilities.

Application forms, returnable by 31st May, from the Clerk of the County Council, The Castle, Winchester. 7697

BOROUGH OF SWINDON

SENIOR ASSISTANT ARCHITECT

A.P.T. IV (£1,140—£1,310)

Applications are invited for the above appointment in the Borough Architect's Department, for work in connection with a large and varied development programme, including housing schemes, neighbourhood shopping centres, civic works and industrial buildings.

Applicants must have passed the Final Examination of the Royal Institute of British Architects.

Housing accommodation may be offered.
Applications, on forms to be obtained from the Town Clerk, Civic Offices, Swindon, must be returned by 6th June, 1961. 7727

**BOROUGH OF SCARBOROUGH
BOROUGH ENGINEER AND SURVEYOR'S
DEPARTMENT**

Applications are invited for the post of ASSISTANT ARCHITECT at a salary on Grade A.P.T. IV (£1,140—£1,310).

Applicants should be Associates of the R.I.B.A. The appointment is subject to the provisions of the Local Government Superannuation Acts, 1937-1953, and to the passing of a medical examination, and will be terminable by one month's notice on either side. Housing accommodation will be made available for successful applicant, if married, and the Council will pay one-half of the removal expenses incurred.

Applications, in envelopes endorsed Assistant Architect, stating age, present and previous appointments, training, qualifications and experience, together with the names of two referees, to be delivered to the undersigned not later than Saturday, 27th May, 1961.

V. FORSHAW,
Borough Engineer and Surveyor.

Town Hall,
Scarborough. S7496

BRACKNELL DEVELOPMENT CORPORATION

Applications are invited for the following vacancies in the Chief Architect's Department:—
ARCHITECTURAL ASSISTANT, Salary range £945—£1,315.

JUNIOR ARCHITECTURAL ASSISTANT.
Salary up to £630 (commencing salary according to qualifications and experience).

The posts offer the opportunity of working on progressive schemes in Housing, Industrial and Town Centre development. Housing can be made available in suitable circumstances and time allowed, in the junior post, for technical training. Superannuation schemes, medical examination, five-day week. Apply by Thursday, 1st June, giving age, education, experience and any appointments held (with dates and salaries) and the names of two referees, to General Manager (A), Bracknell Development Corporation, Farley Hall, Bracknell, Berks, stating clearly which post is applied for. S7565

**LONDON COUNTY COUNCIL
ARCHITECTS' DEPARTMENT**

VOLUNTARY SCHOOLS SECTION

ARCHITECTS, Grade III, £830—£1,250.

ARCHITECTURAL ASSISTANTS, £720—£960.

BUILDING SURVEYORS, £720—£960.

The work of this section consists of technical examination at all stages of all development proposals for 400 Church schools, Grammar schools and Polytechnics and the preparation of schemes and carrying out building works in connection with school meals accommodation, schoolkeepers' houses and buildings at playing fields. Architects and Architectural Assistants with some knowledge of school planning are required for this work.

The section is also responsible for maintenance works at these schools for which Building Surveyors with experience in maintenance works are required.

Starting salary for all appointments in accordance with qualifications and experience.

Form and particulars from Hubert Bennett, F.R.I.B.A., Architect to the Council (EK/A/1226/5a), County Hall, S.E.1. S7525

**SUNBURY-ON-THAMES URBAN DISTRICT
COUNCIL**

ARCHITECTURAL DRAUGHTSMAN

Applications invited for the above mentioned appointments in the Engineer and Surveyor's Department. Salary in each case A.P.T. II (£815—£960 p.a.) plus London allowance.

Applications giving details as to experience, present and previous appointments, etc., and giving the names of two persons to whom reference may be made should reach the Council's Engineer and Surveyor by 31st May, 1961.

Council Offices,
Sunbury-on-Thames,
Middlesex.

May, 1961. 7661

ARCHITECTURAL ASSISTANTS of Intermediate R.I.B.A. standard required by Ministry of Works in London for the design of interesting and varied types of buildings in all parts of the world.

Salary range from £658 (at age 21) to £1,048. Starting pay according to age and experience. Five-day week; 31 weeks' leave annually. Good prospects of promotion and permanency with non-contributory pension scheme. Apply, giving details of age, training and experience, to:—
E. Bedford, Esq., C.B., C.V.O., A.R.I.B.A., Chief Architect, Ministry of Works (AJ), Abell House, Room 427, John Islip Street, London, S.W.1. Interviews will be held at the above address. S7699

CITY OF PORTSMOUTH

CITY DEVELOPMENT DEPARTMENT

Applications are invited from candidates with Inter A.M.T.P.I. or equivalent for appointment of DEVELOPMENT ASSISTANT A.P.T. Grade III (£960—£1,140), commencing salary according to experience.

Applicants should have a comprehensive knowledge of Town Planning and experience in Development Control.

Consideration will be given to the provision of housing accommodation for successful applicant.

Application forms obtainable from City Development Officer, 1, Western Parade, Portsmouth, to be returned by 29th May, 1961. S7604

ROYAL COUNTY OF BERKSHIRE

SENIOR ASSISTANT ARCHITECT, A.P.T. Grade V, £1,310—£1,480. Candidates must be Associates of the R.I.B.A. and have had considerable experience in design and the running of contracts. The post will rank as second in a group of eight.

ARCHITECTURAL ASSISTANT, A.P.T. Grade II, £815—£960. Candidates should have passed the Intermediate Examination of the R.I.B.A. One day per week will be allowed for study at a recognised School of Architecture.

The office is engaged on all types of County Buildings and owing to the rapid increase in population a very full programme lies ahead.

There is a number of staff houses and flats, some of which become available from time to time, and assistance up to 75 per cent. of removal expenses is given.

Application forms obtainable from the County Architect, Wilton House, Parkside Road, Reading, are to be returned by the 6th June, 1961. 7720

**WESTMORLAND COUNTY COUNCIL
COUNTY ARCHITECTS' DEPARTMENT**

Applications are invited for the appointment of ASSISTANT ARCHITECT, A.P.T. Grade III (within the range £960—£1,140, according to experience).

Candidates must be Associates of the R.I.B.A. and previous Local Government experience will be an advantage. Opportunity exists for experience in a varied programme of capital building.

Applications, stating age, technical training, qualifications, experience, previous and present appointments with salary, and the names of two referees, to the County Architect, County Hall, Kendal, by Wednesday, 7th June, 1961. 7718

**CORPORATION OF LONDON
CITY PLANNING OFFICE**

TWO PLANNING ASSISTANTS in the following salary ranges: (a) £1,195—£1,480; (b) £1,055—£1,310 are required.

The City Planning Office has interesting Planning projects on hand and others in active preparation, e.g. large scale development is now proceeding in Barbican commercial zone where separated pedestrian walkways are planned for a large area.

The vacancies exist in the Civic Design Section for qualified Architectural or Planning Assistants to join small group working on the present important phase of rebuilding in the City. Opportunities for advancement should occur from time to time.

Local Act Superannuation.
Apply to the City Planning Officer, Guildhall, E.C.2. TC7719

ROYAL BURGH OF INVERNESS

AMENDED ADVERTISEMENT

BURGH ARCHITECTS' AND TOWN

PLANNING DEPARTMENT

APPOINTMENT OF CHIEF ASSISTANT

Applications are invited for the above appointment. Salary scale Administration Division Grade "B"—£2,275—£3,200 with placing according to experience. Applicants should be A.R.I.B.A. with a flair for modern design. The post offers a valuable opportunity of obtaining experience in Housing, Town Planning and all allied Local Authority Work.

Housing accommodation will be provided.
The post is superannuated. Medical examination.

Applications, together with the names of two referees, to be lodged with Mr. J. Blackburn, F.R.I.B.A., M.T.P.I., Burgh Architect, 11, High Street, Inverness, within ten days of the publication of this advertisement.

JAMES CAMERON,
Town Clerk.

Town House,
Inverness.
10th May, 1961. 7668

COUNTY BOROUGH OF BURNLEY

Applications are invited for the appointment of QUANTITY SURVEYING ASSISTANT in the Borough Engineer and Surveyor's Department at a salary in accordance with Grade I (£645 to £815 per annum) of the National Scales.

Applicants should have a sound knowledge of building construction and some experience in the preparation of Quantities and Measurement of Work is essential. Five-day week.

Forms of application, etc., may be obtained from the Borough Engineer, 22/24, Nicholas Street, Burnley, to whom applications should be returned not later than Friday, 9th June, 1961.

C. V. THORNLEY,
Town Clerk. 7711

BEESTON AND STAPLEFORD URBAN

DISTRICT COUNCIL

ASSISTANT ARCHITECT—Grade A.P.T. III/IV

(£960—£1,140—£1,310)

Applications from suitably qualified persons, accompanied by the names of two referees, should be forwarded to the Housing Architect, Town Hall, Beeston, Nottingham, within 14 days.

Commencing salary according to qualifications and experience.

Housing accommodation will be made available, if necessary.

H. D. JEFFRIES,
Clerk of the Council.

Town Hall,
Beeston,
Nottingham. 7728

DESIGNING FOR LONDON

New houses, flats, maisonettes, schools, town development schemes (including houses and factories), hostels, youth centres, out county housing, club rooms, shops, supply depots, homes for old people, fire stations, drill towers, pumping stations and sewage works, ambulance stations, maternity and child welfare clinics, health hostels, health training centres, children's homes, reception centres, approved schools, road improvements and associated architectural works.

Adaptations, modernisation, rehabilitation, improvements.

Have you thought of joining the L.C.C.?

- Unique opportunity to produce buildings for the public service with the highest possible standards of design.
- Wide range of buildings enables individuals to be used according to their special abilities.
- Contact with the latest developments and techniques through the central materials and development section.
- Promotion strictly on merit.
- Design opportunities in accordance with ability.
- Flexible salary reviews within grades.
- Permanency after probationary service.
- Recognition grants for outstanding work.

Starting salaries for Architects up to £1,500 according to quality and experience.

Whatever changes may result from the Royal Commission Report the enormous programme of work will have to be done and service now with the L.C.C. provides the best training ground for opportunities in the future.

And there is room for a few part-time architects.

Application forms and further particulars from Hubert Bennett, F.R.I.B.A., Architect to the Council, County Hall, S.E.1 quoting reference EK/1335/5.



Architects and Planners

with design talent and administrative ability will have excellent opportunities for carrying through projects from inception to completion in a wide and stimulating programme of work at the offices of Sir Percy Thomas and Son in Cardiff, Swansea and Shrewsbury. The design policy of the firm envisages the most progressive approach to the projects and special encouragement will be given to initiative and reliability by progressive promotion and Staff plus Government pension schemes, giving considerable security of engagement. There are vacancies at each of the Offices. Applications are invited for:

A	Assistant Architects. Must be A.R.I.B.A., with three to four years, experience.	Basic salary range £1,000/£1,500 according to experience plus generous annual bonus based on individual merit and success of the firm.
B	Architect Planners or Planners. Must be A.R.I.B.A., A.M.T.P.I. or A.R.I.B.A. plus Part I T.P.I. Final or at advanced study stage.	Basic salary range £1,000/£1,500 according to experience plus generous annual bonus based on individual merit and success of the firm.
C	Assistant Architects. Recently qualified A.R.I.B.A. or Inter standard plus some practical experience.	Salary range £800/£1,000 according to experience.

Paid overtime in all positions. Five-day week. Holiday: Summer two weeks; Winter one week.

Cardiff, Swansea and Shrewsbury offer pleasant working environment with attractive sea or country nearby for leisure and recreation.

Applicants should state age, education details, experience, present salary and preference of locale, and should be addressed in the first instance to The Secretary, Sir Percy Thomas and Son, 10 Cathedral Road, Cardiff.

SENIOR ARCHITECTS ARCHITECTS ARCHITECTURAL ASSISTANTS

We have vacancies in the Architects' Department in LONDON & EPSOM for qualified men and those who have passed the Intermediate R. I. B. A. Examination.

These are permanent positions:

Luncheon vouchers, five day week, pension scheme.

Please write fully in confidence to the

**Personnel Manager,
W. S. Atkins & Partners,
158, Victoria Street, London, S.W.1**

B.M.C. SERVICE LIMITED

Keen young Architectural Draughtsmen required for an expanding Department, to work on the re-planning of Distributors' and Dealers' premises throughout the world. Opportunity to gain experience in a new and ever increasing specialist field.

Please apply to
**The Personnel and Welfare Manager,
Morris Motors Ltd.,
Cowley, Oxford.**

COUNTY BOROUGH OF SOUTHEAST-ON-SEA EDUCATION COMMITTEE MUNICIPAL COLLEGE

Principal:
T. L. MORGAN, M.Sc., A.M.I.C.E., A.M.I.Struct.E.
Applications are invited for the post of
STUDIO MASTER (ASSISTANT GRADE B) in the
School of Architecture. Duties to commence
1st September, 1961. Teaching experience is
desirable but not essential. Salary Scale: £700 ×
£27.10.0d. — £1,150, plus allowances for approved
qualification and training.

Further particulars and forms of application
may be obtained from the under-signed on receipt
of a stamped addressed foolscap envelope.

Completed forms should be returned to the
Principal, Municipal College, Victoria Circus,
Southend-on-Sea, within fourteen days of the
appearance of this advertisement.

D. B. BARTLETT,
Chief Education Officer.

Education Office,
Warrior Square,
Southend-on-Sea. 7733

BOROUGH OF ILFORD BOROUGH ENGINEER'S DEPARTMENT APPOINTMENT OF ASSISTANT ARCHITECT, GRADE A.P.T. III

Candidates should preferably have passed the
Intermediate Examination of the R.I.B.A.

The commencing salary will be fixed within
the scale £960—£1,140, according to qualifications
and experience. London Weighting payable in
addition. Five day week.

The candidate appointed will be required for
work in connection with housing and multi-
storey flats.

The appointment will be subject to one month's
notice on either side, to the provisions of the
Local Government Superannuation Acts, to the
National Conditions of Service and to satis-
factory medical examination.

**THE COUNCIL IS PREPARED TO CON-
SIDER IF NECESSARY THE PROVISION OF
HOUSING ACCOMMODATION.**

Application forms, obtainable from the Borough
Engineer, Town Hall, Ilford, should be returned
not later than Monday, 12th June. 87729

BRACKNELL DEVELOPMENT CORPORATION

Applications are invited for the post of
ARCHITECT. Salary range £1,140—£1,310. The
Minister is expected to give his decision shortly
on the proposal to extend the scope of the New
Town by increasing the designated area from
1,150 to 3,530 acres. Superannuation scheme,
medical examination, 5 day week. Good housing
accommodation available. Applications, stating
age, education, qualifications, experience and
appointments held (with dates and salaries), and
the names of two referees, should be addressed
to the General Manager (A), Bracknell Develop-
ment Corporation, Farley Hall, Bracknell,
Berks., to be received not later than 7th June.
87730

BOROUGH OF ENFIELD BOROUGH ENGINEER AND SURVEYOR'S DEPARTMENT

(Population 110,000—Area 12,400 acres)
Applications are invited for the following
established positions within the Grades shown:—

(a) **ASSISTANT ARCHITECT—A.P.T. IV**
(£1,140—£1,310).

(b) **ARCHITECTURAL ASSISTANTS—A.P.T. III**
(£960—£1,140).

(c) **TECHNICAL ASSISTANT—A.P.T. III**
(£960—£1,140).

The commencing salary will be fixed at a
point within the scale commensurate with quali-
fications and experience.

The appropriate London Weighting allowance
will be paid in addition to the above salaries.

Candidates for post (a) must be Associates of
the Royal Institute of British Architects; for post
(b) applicants must have passed the Inter-
mediate Examination of the R.I.B.A.; for post
(c) applicants must have a sound knowledge of
all aspects of the building trade and be able to
carry out inspections, prepare reports, specifica-
tions and estimates for works in connection with
repair and maintenance of Schools, and should
possess the Higher National Certificate in build-
ing.

The Council are prepared to consider the pro-
vision of housing accommodation if required, or
100 per cent. advances to successful applicants
for house purchase within the Borough.

Five-day week.

Details of appointments and application forms
obtainable from Mr. H. D. Peake, M.Sc. (Eng.),
Borough Engineer & Surveyor, 7, Little Park
Gardens, Enfield, Middx.

CYRIL E. C. R. PLATTEN,
Town Clerk.

Civic Centre,
Enfield.
16.5.61. 87725

COUNTY BOROUGH OF EAST HAM HOUSING DEPARTMENT APPOINTMENT OF ARCHITECTURAL ASSISTANT

Applications are invited. Salary Grade A.P.T.
II (£815 × £304) × £25(1)—£960 plus London
Weighting.

Applicants should be experienced in the pre-
paration of working drawings, details for con-
struction of new dwellings and conversion of
existing properties.

Further details and application form (returnable
by 7th June 1961) from the Town Clerk, Town
Hall, East Ham, E.6. 87553

BOROUGH OF ENFIELD BOROUGH ENGINEER AND SURVEYOR'S DEPARTMENT

(Population 110,000—Area 12,400 acres)
Applications are invited for the following
established positions within the Grades shown:—

(a) **CHIEF PLANNING ASSISTANT—A.P.T. IV**
(£1,140—£1,310).

(b) **SENIOR PLANNING ASSISTANT—A.P.T. III**
(£960—£1,140).

(c) **PLANNING ASSISTANT—A.P.T. I** (£645—
£815).

The commencing salary will be fixed at a
point within the scale commensurate with quali-
fications and experience.

The appropriate London Weighting allowance
will be paid in addition to the above salaries.

Applicants for post (a) must have passed the
Final Examination of the Town Planning Insti-
tute and membership of another related pro-
fessional body will be considered an advantage.

Applicants for post (b) should have passed the
Intermediate Examination of the Town Planning
Institute.

The Council are prepared to consider the pro-
vision of housing accommodation if required, or
100 per cent. advances to successful applicants
for house purchase within the Borough.

Five-day week.

Details of appointments and application forms
obtainable from Mr. H. D. Peake, M.Sc. (Eng.),
Borough Engineer & Surveyor, 7, Little Park
Gardens, Enfield, Middx.

CYRIL E. C. R. PLATTEN,
Town Clerk.

Civic Centre,
Enfield.
16.5.61. 87726

KINGSTON UPON HULL EDUCATION COMMITTEE

REGIONAL COLLEGE OF ART AND CRAFTS
Principal: A. D. S. SUGDEN, A.R.E., R.C.A., F.I.E.D.
SCHOOL OF ARCHITECTURE
Head of the School: A. SCHAVIR, M.A., A.R.I.B.A.,
A.M.T.P.I.

Applications are invited for the post of
LECTURER in the **SCHOOL OF ARCHITEC-
TURE** which conducts a five-year full-time
Diploma Course in Architecture and a part-time
course in Town Planning.

Candidates should have had some years of
professional experience and possess a degree or
diploma of a recognised School of Architecture.
They will be expected to present evidence of
outstanding ability in design.

Salary: £1,370 × £35—£1,510 × £40—£1,550.

The Education Committee will consider the
payment in approved cases of the whole or part
of the removal expenses of married teachers
moving into Hull.

Further particulars and application forms, to
be returned as soon as possible, may be obtained
from the Chief Education Officer, Guildhall,
Kingston upon Hull. 7655

METROPOLITAN BOROUGH OF LEWISHAM

Applications are invited from professionally
qualified Architects for the following posts:—

SENIOR ASSISTANT ARCHITECT. Salary
scale A.P.T. V (£1,355—£1,525 per annum).

ASSISTANT ARCHITECT. Salary scale A.P.T.
III (£1,005—£1,185 per annum) or A.P.T.
III-IV (£1,005—£1,355 per annum) or A.P.T.
IV (£1,185—£1,355 per annum) according to
qualifications and experience.

Further particulars and form of application
from Town Clerk (Dept. H), Lewisham Town
Hall, Catford, S.E.6. Closing date 13th June,
1961. 87692

CHELMSFORD CORPORATION

TOWN PLANNING OFFICER, J.N.C. lettered
Grade A (£1,455 by two annual increments of £65
to £1,565), required in a progressive and rapidly
growing County Town. Planning proposals
include central area redevelopment.

Half approved removal expenses; housing
allowance for married applicants, and car allowance.
For further particulars write to Borough
Engineer and Surveyor, Municipal Offices,
Chelmsford. Closing date for applications
Monday, 12th June, 1961. 7662

CHEADLE AND GATLEY URBAN DISTRICT COUNCIL

ARCHITECTURAL ASSISTANT, A.P.T. IV
Applications are invited for this appointment
in the department of the Engineer and Surveyor.

Applicants should be qualified architects, and
have experience in housing design and construc-
tion.

The appointment is subject to the usual con-
ditions of service and one month's notice on
either side. The provision of housing accommo-
dation will be considered. Applications, including
the names and addresses of two referees, must
reach the undersigned by 10th June, 1961.

RICHARD ROBERTS,
Clerk of the Council.

Town Hall,
Abney,
Cheddle, Cheshire.
17th May, 1961. 7710

COUNTY BOROUGH OF NORTHAMPTON DEPUTY BOROUGH ARCHITECT AND TOWN PLANNING OFFICER

SCALE: £1,645—£1,896
Full particulars of this appointment and form
of application, returnable by 5th June, from
Borough Architect and Town Planning Officer,
Guildhall, Northampton.

C. E. VIVIAN ROWE,
Town Clerk.
87626

JOINT COUNTY COUNCIL OF MORAY AND NAIN

APPOINTMENT OF ASSISTANT ARCHITECT
Applications are invited for the post of
Assistant Architect in the County Architect's
Department. Applicants must be Associate
Members of the R.I.B.A. and preference will be
given to applicants with experience of local
authority housing and education building. The
salary for the post will be in accordance with
Grades "C" and "D" of the Administrative
Division of the J.C.C. Scheme of Salaries, viz.
£1,055 to £1,200 with placing according to quali-
fications and experience. Suitable housing
accommodation is available if required. The suc-
cessful applicant will provide a car and will be
entitled to a car allowance in accordance with
the approved scale of allowances. The post is
superannuable and will involve a medical
examination before an appointment is made.
Applications, giving particulars of age, quali-
fications and experience, together with copies of
not more than three recent testimonials, should
be lodged with the County Clerk, County Build-
ings, Elgin, not later than 3rd June, 1961. 7663

BUILDING SURVEYORS

South Western Electricity Board require TWO
BUILDING SURVEYORS, one to be stationed at
Taunton, Somerset, and the other at Pool,
Cornwall.

Salary within the range of £1,105 to £1,325 per
annum.

Duties will include surveying existing premises,
preparation of schedules of dilapidations, draw-
ings, specifications, estimates, etc., for alterations
and additions to existing buildings, preparation
of maintenance programmes, and supervision of
work.

Attractive service conditions, including pen-
sion scheme.

Applicants should be Associate Members of
the Royal Institute of Chartered Surveyors
(Building) or of the Incorporated Association of
Architects and Surveyors (Building).

Applications to be made on Standard Form
AE5/ACT obtainable by postcard only from the
Establishments Officer, South Western Electricity
Board, Electricity House, Colston Avenue, Bristol,
1. Closing date for receipt of completed ap-
plications is 12th June, 1961. 7673

CITY OF YORK

Applications are invited from persons with the
appropriate qualifications for the following
permanent appointments:—

(a) **SENIOR ASSISTANT ARCHITECT (A.P.T. Grade V, £1,310—£1,480 p.a.).**

(b) **ASSISTANT ARCHITECT (A.P.T. Grade IV, £1,140—£1,310 p.a.).**

(c) **SENIOR ASSISTANT QUANTITY SUR-
VEYOR (A.P.T. Grade IV, £1,140—£1,310 p.a.).**

(d) **ARCHITECTURAL ASSISTANT (A.P.T. Grade I, £645—£815 p.a.).**

(e) **ASSISTANT QUANTITY SURVEYOR (A.P.T. Grade I, £645—£815 p.a.).**

In respect of appointments (a), (b) and (c) the
tenancy of a house, if considered necessary, may
be offered for a period of 12 months in order
that the successful applicants may be afforded
time in which to obtain own accommodation.

Details of appointments and application forms
may be obtained from the undersigned, to whom
completed forms must be returned not later than
first post on 9th June, 1961.

E. FIRTH, F.R.I.B.A., A.M.T.P.I.,
City Architect.

8, St. Leonard's Place,
York. 7669

DEPTFORD BOROUGH COUNCIL invites applications for the following appointments:—

(a) **PRINCIPAL ASSISTANT ARCHITECT—
A.P.T. Grade V (£1,310 to £1,480 per annum)**
plus London "weighting" of £45.

(b) **ASSISTANT ARCHITECT—A.P.T. Grade III**
(£960 to £1,140 per annum) plus London
"weighting" dependent on age of appli-
cant.

Applicants must be suitably qualified, prefer-
ably with Local Government experience in the
design of public buildings, and development of
small housing sites.

The commencing salary will not necessarily be
at the minimum of the scale.

Both appointments are superannuable and
subject to N.J.C. Conditions. Five-day week and
Staff Canteen. Applications naming two referees
to Town Clerk, Town Hall, New Cross Road,
S.E.14, by 10th June, 1961. 7676

COUNTY BOROUGH OF DERRY BOROUGH ARCHITECT'S DEPARTMENT

(a) **ASSISTANT ARCHITECT, A.P.T. Grade II**
(£815—£960 per annum). Qualifications:
Intermediate R.I.B.A.

(b) **ASSISTANT QUANTITY SURVEYOR, A.P.T. Grade II**
(£815—£960 per annum). Qualifications:
Intermediate R.I.C.S. or equivalent with good experience in working
up Bills of Quantities and Final Accounts,
measuring on site and taking-off for small
works.

Commencing salary according to qualifications
and experience. Permanent superannuable
appointments, subject to one month's notice and
to medical examination. National Conditions
of Service.

Forms of application obtainable from and to
be returned to the Borough Architect, The
Council House, Corporation Street, Derry, not
later than Monday, 5th June, 1961.

N. S. FISHER,
Town Clerk.
15th May, 1961. 7689

**EAST SUFFOLK COUNTY COUNCIL
ARCHITECTURAL ASSISTANT
A.P.T. Grade II (£915-£960)**

Applications are invited for the above appointment which offers interesting and responsible work in connection with the Council's extensive programme of school and other building.

The starting salary will be fixed according to qualifications and experience; removal expenses and a settling-in grant of £25 will be paid in approved cases and the appointment will be subject to the provisions of the Superannuation Acts.

Applications, stating age, qualifications, experience and present employment, together with the names of two referees, must be delivered to the County Architect, Mr. E. J. Cundliffe, A.R.I.B.A., County Hall, Ipswich, by Wednesday, the 31st May, 1961. 7700

**BOROUGH OF CHELTENHAM
BOROUGH ENGINEER'S DEPARTMENT**

Applications are invited for the following appointments:—

- (a) CHIEF ARCHITECTURAL ASSISTANT—A.P.T. Grade IV/V (£1,140-£1,480 p.a.).
- (b) SENIOR ARCHITECTURAL ASSISTANT—A.P.T. Grade III (£960-£1,140 p.a.).
- (c) JUNIOR QUANTITY SURVEYOR—A.P.T. Grade I (£645-£815 p.a.).

Applicants for:—
(a) and (b) must be Associate Members of the Royal Institute of British Architects and experienced in the design of Public Buildings, Housing and ancillary buildings in connection with Estate Development.

(c) should be experienced in working up quantities and taking off small works.

All appointments are subject to the National Joint Council's conditions of service to one month's notice in writing on either side, to the successful applicants passing a medical examination and contributing to the Council's Superannuation Fund.

The Council will provide housing accommodation, if required, for the successful applicants for posts (a) and (b).

Applications endorsed with the name of the appointment applied for, stating age, qualifications, experience and giving names of two referees, are to reach Mr. W. E. C. Bird, A.M.I.C.E., M.I.Mun.E., Borough Engineer, P.O. Box 12, Municipal Offices, Cheltenham, not later than Monday, 5th June, 1961.

F. D. LITTLEWOOD

Town Clerk.

Municipal Offices,
Cheltenham.

7664

SURREY COUNTY COUNCIL

Applications invited for appointment of ASSISTANT ARCHITECTS ON GRADE V (£1,310-£1,480 p.a. plus £45 p.a. London Allowance). Must be A.R.I.B.A. and capable of leading a small team dealing with medium and large scale contracts.

Candidates will be appointed at the appropriate point within the scale according to age and ability.

Approved removal expenses will be paid to successful candidates.

Full details, present salary and three copy testimonials, preferably one from present employer, to County Architect, County Hall, Kingston, as soon as possible. 87568

**MIDLOTHIAN COUNTY COUNCIL
COUNTY ARCHITECT'S DEPARTMENT,
EDINBURGH**

QUALIFIED ARCHITECTS: Salary Scale £1,135-£1,345-£1,595.

QUALIFIED QUANTITY SURVEYOR: Salary Scale £1,135-£1,345.

Placing according to experience and ability.

Applications specifying post desired, giving full details of experience, together with names of two referees, should be submitted to the County Clerk, County Buildings, George IV Bridge, Edinburgh, 1. 7666

**BOROUGH OF NEWCASTLE UNDER LYME
REQUIRES:**

- (a) ASSISTANT ARCHITECTS—Grade A.P.T. IV, £1,140-£1,310 p.a.
- (b) ARCHITECTURAL ASSISTANTS—A.P.T. III-IV, £960-£1,310 p.a.
- (c) ARCHITECTURAL ASSISTANT—A.P.T. II, £815-£960 p.a.

Qualifications for the posts must be as follows: (a) A.R.I.B.A. (b) Parts 1 and 2 of Final or Special Final. (c) Intermediate R.I.B.A.

Commencing salaries will be in accordance with experience and ability. A car allowance will be granted on the casual users scale for post (a) and the person appointed for post (c) will be allowed to attend a one-day-a-week school course leading to the Final Examination.

The Department's programme includes housing, shops, offices and schools.

Favourable consideration will be given to the provision of housing accommodation in suitable cases.

Application forms and further particulars may be obtained from the Borough Engineer & Surveyor, Lancaster Building, High Street, Newcastle, Staffs., and should be returned to him not later than Tuesday, 6th June, 1961.

C. J. MORTON

Town Clerk.

7715

**CITY OF OXFORD EDUCATION COMMITTEE
COLLEGE OF TECHNOLOGY
LECTURER IN TOWN PLANNING**

Applications for this new full-time teaching post in the Oxford School of Architecture and Building are invited from architects who are Corporate Members of the Town Planning Institute and who have recent experience of Planning.

The candidate appointed will, in the first instance, be required to develop a part-time post-graduate course for architects and others who seek a planning qualification.

Salary—Burnham Scale.

Further particulars and application forms (stamped addressed envelope) can be obtained from The Principal, College of Technology, Headington Road, Oxford, to whom they should be returned by June 1, 1961. 7701

**NORTHERN POLYTECHNIC, HOLLOWAY,
LONDON, N.7.**

The Governing Body invites immediate applications for the following full-time appointments to commence in September, 1961, in the Department of Architecture, Surveying, Building and Interior Design:—

TEACHER OF PLUMBING & SANITATION.

Applicants should hold the Full Technological Certificate of the City & Guilds of London Institute and have had previous teaching experience. Duties will involve teaching theoretical and practical plumbing, sanitary science and associated subjects to senior day and evening students and apprentices.

TEACHER OF BUILDING CONSTRUCTION.

Applicants should hold a professional qualification. Some teaching experience would be an advantage. Duties will involve teaching building construction and associated subjects to senior day and evening students.

ASSISTANT STUDIO INSTRUCTOR.

Applicants must be Associates of the Royal Institute of British Architects by examination and have had experience after qualification. Some teaching experience an advantage. Duties will involve teaching in the Studios and lecturing on related subjects.

Salary within scale £738-£1,201 with additions as approved for degree and suitable full-time training. Point of entry and maximum dependent on relevant industrial or teaching experience and qualifications.

Apply for further particulars (state appointment in which interested) and form of application.

R. H. CURRELL, F.C.A.

Clerk.
7709

THE ARCHITECT'S DEPARTMENT

of a well-known Building and Civil Engineering Contractors, with offices near Hyde Park, London, requires ADDITIONAL STAFF, for work on COMMERCIAL & RESIDENTIAL PROJECTS

Vacancies exist for qualified

ARCHITECTS

and also for

ASSISTANTS

with R.I.B.A. Inter. or equivalent experience.

Salary range from
£800 to £1300 p.a.

Please write to Box No. 7735 c/o paper with brief details of age, experience and qualifications. All communications will be acknowledged and treated as confidential.

ARCHITECTURAL STAFF

**SENIOR &
INTERMEDIATE
ASSISTANTS &
DRAUGHTSMEN**

required by

F. W. Woolworth & Co Ltd

Five day week. Pension scheme. Dining facilities. Modern office building. Good salaries according to experience and qualifications. Apply giving details of salary required, age and experience to:—

**District Architect,
F. W. Woolworth & Co Ltd,
1264 London Road,
Norbury, S.W.16**

LONDON COUNTY COUNCIL ARCHITECTS' DEPARTMENT

ARCHITECT required in Historic Buildings Section for work relating to Sections 29 and 30 of the Town and Country Planning Act, 1947, including collecting relevant historical information, advising on proposals of private owners relating to listed buildings and preparing Building Preservation Orders. Applicants must have special knowledge of the history of architecture in England, preferably with experience in town and country planning. Up to £1,500 according to qualifications and experience.

Form, returnable by 3rd June, and particulars from Hubert Bennett, F.R.I.B.A. (EK/A/1391/5), Architect to the Council, County Hall, S.E.1.

7681

LONDON COUNTY COUNCIL QUALIFYING EXAMINATION FOR THE OFFICE OF DISTRICT SURVEYOR

An examination for the certificate of proficiency to perform the duties of district surveyor will be conducted in London in the week commencing 9th October, 1961. The minimum age limit for candidates is 25.

Possession of this certificate is necessary for appointment to positions as District Surveyor (salary scales £1,925 to £3,700 a year) or as Assistant District Surveyor (present salary scale £1,500 to £1,700 a year, plus £61 10s. a year).

Apply to the Architect to the Council (EP/A/1045/5), County Hall, Westminster Bridge, S.E.1, for application forms and further particulars. Completed applications to be submitted before 1st September, 1961.

S7181

Tenders Invited

36s. per inch; each additional line 3s.

NORTH RIDING COUNTY COUNCIL COUNTY HALL, NORTHALLERTON

Applications are invited from BUILDING CONTRACTORS having the necessary resources and experience to be included amongst firms invited to tender for the Extensions at the above, consisting of a three-storey building of 30,000 square feet.

Applications are also invited from firms willing to tender for the erection of the Reinforced Concrete Frame and Foundations thereto, as Sub-Contractors to the Main Contractor.

Applications for both the Contract and Sub-Contract should be supported by evidence of recent work of a similar nature and size, and of resources in plant and labour.

Applications should be addressed to the County Architect, County Hall, Northallerton, to reach him by the 1st June. Bills will be sent out to accepted Contractors on the 7th July. Tenders to be received by the 4th August, addressed to the Clerk of the County Council.

R. A. WOTHERSPOON,

Clerk of the County Council.

7678

Competition

36s. per inch; each additional line 3s.

HOUSE DESIGN COMPETITION

An Open Competition for four types of house design is being sponsored by the Gas Council. Conditions are now available, and designs must be in by 31st August, 1961.

Designers are called on for the minimum amount of work in presenting their ideas, so that effort may be concentrated on solving design problems in new ways, offering exciting new possibilities for living in modern society.

Assessor: Mr. George Grenfell Baines, O.B.E., F.R.I.B.A., M.T.P.I.

The competition is open to Registered Architects, and Students R.I.B.A. if in association with a Registered Architect.

Applications for Conditions to:

Secretary.

HOUSE DESIGN COMPETITION, THE GAS COUNCIL,

1, GROSVENOR PLACE,

LONDON, S.W.1.

S7554.

Architectural Appointments Vacant

3s. per line; minimum 12s. Box Number, including forwarding replies, 2s. extra.

RONALD WARD AND PARTNERS invite applications from ARCHITECTS, Senior and Junior. Long-term prospects. Scope for initiative and responsibility in interesting commercial, industrial and civic projects in British Isles, West Africa and Australia. Salaries commensurate with ability. Non-contributory Pension and Life Insurance schemes. Five-day week. Pleasant offices. Apply 29, Chesham Place, Belgrave Square, London, S.W.1. Tel.: BELgravia 3361. TC2960

BOOTH, LEDEBOER AND PINCKHEARD require ASSISTANTS in the salary range £750-£1,250. Apply 17-20, Mason's Yard, Duke Street, St. James's, S.W.1. Tel.: TRAFalgar 1966. TC3119

£850-£1,600. ARCHITECTURAL ASSISTANTS required. Long term prospects. Non-contributory pension and life assurance schemes. Five-day week. Telephone or write: Ronald Ward & Partners, 29, Chesham Place, Belgrave Square, S.W.1. Belgravia 3361. TC6105

ARCHITECTURAL ASSISTANTS of all grades required in a busy provincial practice. Good salaries to right applicants. Pension Scheme. Accommodation. Apply with full details to:

Ruddle & Wilkinson, F/L A.R.I.B.A., Long Causeway Chambers, Peterborough.

TC6984

EDWARD D. MILLS & PARTNERS require additional qualified STAFF for a variety of new work including housing, schools, industrial and churches. Enthusiasm and initiative important. Five-day week. Write giving full details to 9/11, Richmond Buildings, Dean Street, London, W.1. TC7051

COMPLETE CONTROL £½ million contract in Home Counties. Hyde Park Corner office. Qualified and experienced architect. Up to £1,400 salary. Appointments BEL 6595. TC6951

GEORGE, TREW & DUNN.

Interesting projects include new hospitals, university buildings and multi-storey flats.

Qualified ARCHITECTS are invited to apply to 50, Eastbourne Terrace, W.2. Tel. PAD 6611. TC6403

£950-£1,500. ARCHITECTURAL ASSISTANTS with imagination and designing ability required to assist with large and important new developments in the central London Area. Telephone or write: Trehearne & Norman, Preston & Partners, 83, Kingsway, W.C.2. HOLborn 4071. TC4934

INTERMEDIATE to Final ASSISTANTS required immediately. Salary according to ability and experience. Theo. H. Birks, 38, Portland Place, London, W.1. L.N. 7236. TC9739

SENIOR ASSISTANTS required. Please apply to F. G. Prizzell, A.R.I.B.A., 80, Portland Place, W.1. LANGham 1732. TC4943

ARCHITECTURAL ASSISTANTS of all grades, particularly Intermediate standard, required on varied and interesting projects. High salaries will be paid in accordance with skill or experience of applicant. Lewis Solomon, Kaye & Partners, City 8811. TC5970

PLAYNE & LACEY require experienced and enthusiastic SENIOR ARCHITECTURAL ASSISTANT for work on University project. Salary range £1,200 to £1,500. Write 19, Queen Anne's Gate, Westminster, S.W.1, or ring WHI 2552 for interview. TC5617

BRYAN & NORMAN WESTWOOD & PARTNERS require ASSISTANT ARCHITECTS. Salaries up to £1,200. Apply to 21, Suffolk Street, S.W.1. TRAFalgar 1106. TC6736

SENIOR ASSISTANTS required for work on large Hospital programme, excellent opportunities for the right men, salary £1,000-£1,400. Luncheon Vouchers and five-day week. Write giving full particulars to W. H. Watkins, Gray and Partners, 57, Catherine Place, S.W.1. TC5633

ARCHITECTURAL ASSISTANTS required for interesting work, including schools and hospitals, in Croydon office. Commencing salaries offered: £900-£1,150 for Associates, £600-£850 for students, according to age and experience. Five-day week and annual bonus. Write to George Lowe & Partner, 79, George Street, Croydon. TC5197

ARCHITECTURAL ASSISTANTS required in busy Bloomsbury office with varied practice. Good salary and prospects for suitable applicants. Five-day week. Write giving particulars of age, qualifications, experience, etc., to Box 918, c/o 7, Coptic Street, W.C.1. TC5647

ARCHITECTS' ASSISTANTS required, both Intermediate R.I.B.A. and Finals standard, with experience in this country. Good salary offered. Bernard Gold & Partners, 4/6, Savile Row, W.1. Regent 7551. TC6170

YORKE, ROSENBERG AND MARDALE have some vacancies for experienced STAFF, starting salary according to qualifications and experience, in the range £950-£1,200. Ring AMBassador 4521 for appointment. TC6200

TWO Intermediate or Senior ASSISTANTS required. Salaries from £1,000 to £1,250 per annum according to age and experience. Apply to Box 6546.

PLAYNE & LACEY require experienced and enthusiastic ARCHITECTURAL ASSISTANTS. Salary range £900-£1,050. Write 19, Queen Anne's Gate, Westminster, S.W.1, or ring WHI 2552 for interview. TC6260

OPPORTUNITY for Intermediate or newly-qualified ASSISTANT with initiative and all-round ability, to join youthful expanding practice in Croydon. Apply to Donald Rowsell & Partners, 11/11a, George Street, Croydon, or telephone CROYdon 4080. TC5723

ASSISTANT ARCHITECT required for Branch Office in Bournemouth. Ten years' experience. Please apply: B. Newton, A.R.I.B.A., M.R.S.H., 307 Finchley Road, N.W.3. Tel.: SWISS Cottage 5152. S7468

ARCHITECTURAL ASSISTANT required for North Devon Office. Box TC6673.

SENIOR AND JUNIOR ASSISTANTS. Only those who prefer a small office and an interesting variety of work on both old and new buildings should apply to: L. H. Bond & R. W. Read, 44, Castlegate, Grantham. TC6404

H. ELSOM & PARTNERS require two SENIOR ARCHITECTS with good technical experience and design ability for large scale projects. Pension scheme and luncheon vouchers. 10, Lower Grosvenor Place, S.W.1. VICToria 4304. TC6733

LEICESTER. SENIOR ARCHITECTS AND ASSISTANTS required for general practice. Appropriate salary paid. Apply by telephone or in writing for an interview to Herbert, Son & Sawday, 18, Friar Lane, Leicester. Tel. 56476. TC5307

ELIE MAYORCAS requires ARCHITECTURAL ASSISTANTS with a minimum of three years' office experience in this country. Write, giving brief particulars of architectural education and experience, and salary required, to: 13, David Mews, Baker Street, W.1. TC7014

£1,000-£1,500 P.A. ASSISTANT required to work directly under partners in small, expanding, commercial practice in Victoria. Telephone: Willoughby Fletcher & Associates, 122, Wilton Road, S.W.1. VICToria 8711 for appointment. 7721

STRATFORD-UPON-AVON Architects have further vacancies for ASSISTANTS up to R.I.B.A. Intermediate standard, and for JUNIOR ASSISTANTS. Opportunities to carry out varied and interesting work in delightful surroundings. Scope for initiative and advancement. Write stating age, experience and salary required to: Earp, Badger & Harrison, A.R.I.B.A., Guild Chambers, Scholars Lane, Stratford-upon-Avon, or phone Stratford-upon-Avon 3424. S7712

ARCHITECTURAL ASSISTANTS required by J. Downlass Mathews & Partners. Salary range £700 to £1,000. Group system operated, giving opportunity for taking part in all aspects of work. Graded salary system. Annual bonuses. Pension Scheme. Luncheon Vouchers. Written applications to 3, Ebury Street, London, S.W.1. TC6627

ARCHITECTS with busy practice in Brighton require ASSISTANTS with practical experience for varied work. Salary up to £750 per annum. Five-day week, pension scheme, etc. Box TC5848.

ARCHITECTS in Watford and London require capable ASSISTANTS with at least three years' office experience for work on interesting commercial and industrial projects. Salary range £800-£1,200 per annum. Non-contributory pension scheme. Apply Box TC5148.

IMMEDIATE VACANCIES in leading Bristol office for all grades of ARCHITECTS and ARCHITECTURAL ASSISTANTS. Modern approach to design essential and considerable freedom of expression allowed. Top salaries paid according to ability and experience. Outstandingly good working conditions; five-day week; annual bonus; contributory pension scheme available; existing holiday commitments honoured. Apply giving particulars of age and experience to W. H. Watkins, Gray and Partners, 8 Colston Avenue, Bristol. Telephone Bristol 292333, reverse charge calls accepted. TC7675

INTERMEDIATE STANDARD ASSISTANT required by a progressive firm on the Isle of Wight. Excellent opportunity for working on own initiative with interesting prospects. Waters & Ridett, Fourways House, North Road, Shanklin, I.O.W. Telephone Shanklin 3211. 7674

TWO MINS. BEACH, FIVE MINS. MOUNTAINS. YOUNG SCHOOL TRAINED ARCHITECTS REQUIRED FOR CONTEMPORARY PRACTICE. WRITE OR PHONE: LINGARD & ASSOCIATES, 90 CONWAY ROAD, COLWYN BAY, 2838. S7677

SOUTH WALES BREWERY COMPANY at Cardiff require an ARCHITECTURAL ASSISTANT, age 25 to 35 preferred. Previous experience in alterations to licensed premises an advantage but not essential. Good salary offered, according to qualifications and experience. Superannuation scheme and car expenses paid. Write, giving full details, to Company Architect, Rhymney Breweries Limited, Glyn Teg House, Ely, Cardiff. 7684

SCHERRER AND HICKS require Assistants in LONDON AND MANCHESTER All grades. Interesting and varied work.

19 Cavendish Square, W.1. Museum 1105.

S7682

MUNCE & KENNEDY, ARCHITECTS AND CONSULTING ENGINEERS, URGENTLY REQUIRE ASSISTANTS FOR THEIR EXPANDING LONDON OFFICE. SALARY RANGE £900 (INTERMEDIATE STANDARD) TO £1,200 (FINAL STANDARD) DEPENDING ON EXPERIENCE AND ABILITY. PLUS BONUS. APPLY IN WRITING TO JOHN SHELDON, A.R.I.B.A., M.S.I.A., AT 10/11 BULSTRODE PLACE, LONDON, W.1. 7690

CO-PARTNERSHIP offered to young qualified ARCHITECTS with some experience and desire to get on. Busy north east practice with a wide variety of work including Urban Planning in addition to architecture. No capital necessary but opportunities may arise later for full partnership. Box TC7341.

BRIGHTON & HOVE: Senior and Intermediate standard ASSISTANTS required for work along South Coast. Salaries up to £1,200 per annum. Five-day week. Three weeks annual holiday. Superannuation and Free Life Insurance. H. Hubbard Ford & Associates, 67, Church Road, Hove, 3, Sussex. S7247

LANCHESTER & LODGE urgently require ARCHITECTURAL ASSISTANTS of all grades. Work includes hospitals, laboratories, universities, offices, housing, etc. Write full particulars or ring for interview: 10, Woburn Square, W.C.1. MUS 0845-6-7. TC7248

TWO ARCHITECTURAL ASSISTANTS with at least three years' office experience and prepared to take responsibility and maintain site contact. Salary £1,000 per annum. Five-day week. L.V.s. Telephone CENTRAL 7748 or write R. N. Wakelin, F.R.I.B.A., 9, Dowgate Hill, London, E.C.4. S7255

EXPERIENCED ASSISTANT required in old established office. General practice. Apply stating experience, salary, etc. Apply: Manning & Steel, F.R.I.B.A., Architects & Surveyors, 3, George Street West, Luton, Beds. S6876

ARCHITECTURAL ASSISTANTS wanted for varied and interesting work in Devon and Somerset; salary up to £1,000 per annum, according to experience. Antony Lamb, A.R.I.B.A., A.M.T.P.I., 2, Prospect Place, Ottery St. Mary, Devon. TC7451

FEW vacancies still left for experienced and confident ARCHITECTS to fill positions of responsibility in a growing and varied practice with industrial and commercial work throughout the southern half of the country. Applicants must have initiative as well as architectural ability to carry through contracts up to £100,000, working directly with Principals but with minimum supervision. Apply in writing to Thomas Mitchell & Partners, 20 Bedford Square, London, W.C.1. TC7443

ASSISTANT ARCHITECT THERE is a vacancy in the Works Dept. of a well known Multiple Shop Company in Birmingham. The Company has an extensive expansion programme offering wide scope for a man of ability. Salary £1,000 per annum upwards according to age, qualifications and experience. Staff Superannuation Fund. Apply with full details to Box S7446.

HITCHIN—£750 to £1,000 for ARCHITECTURAL ASSISTANT with sound office experience. Please write to Martin Priestman, A.R.I.B.A., One, Churchyard, Hitchin, Hertfordshire. S7516

A. M. GEAR & ASSOCIATES HAVE VACANCIES FOR STAFF INTERESTED IN RESEARCH AND DEVELOPMENT WORK IN CONNECTION WITH VARIOUS TYPES OF BUILDINGS AND BUILDING TECHNIQUES. ALTERNATIVELY TO WORK ON SOME INTERESTING BUILDING PROJECTS. PLEASE WRITE GIVING BRIEF DETAILS OF TRAINING AND EXPERIENCE, STATING WHICH TYPE OF WORK PREFERRED, TO 12, MANCHESTER SQUARE, LONDON, W.1. S7520

£1,000-£1,400. ASSISTANTS required in West End Architect's office. Holidays this year respected. Apply stating experience. Box S7528.

SENIOR AND JUNIOR ASSISTANTS URGENTLY REQUIRED IN SMALL PROGRESSIVE PRACTICE IN WEST END. SALARIES FROM £1,500 ACCORDING TO ABILITY. WHI 0865. S7620
small practice requires small assistant, maximum effort for minimum return, qualified man (or a.r.i.b.a.) preferred. no sundays. whi 0865. S7621

SENIOR AND JUNIOR ASSISTANTS Urgently required for busy City Office. Excellent modern facilities and long term engagements. Holidays with pay this year. Salary increments and bonus. Luncheon Vouchers. Qualifications unnecessary but experience and ability imperative. Salaries varying from £1,000 to £1,650 according to ability. Box S7642.

ARCHITECTURAL ASSISTANTS required at Poole or Bolton offices, salaries £650 to £1,050 according to experience. W. Leslie Jones & Partners, 59 High Street, Great Missenden, Bucks. S7641

SIR JOHN BURNET, TAIT & PARTNERS have vacancies for ARCHITECTURAL ASSISTANTS of all grades. Salaries from £1,000 per annum upwards. Non-contributory pension, life assurance, medical schemes and luncheon vouchers, five day week, generous holidays. Apply 10, Bedford Square, London, W.C.1. TC7640

INTERMEDIATE STANDARD ASSISTANT required. Enthusiasm essential, office experience desired. Excellent opportunities for advancement, handling interesting work of a varied nature. Write or phone Andrews & Son, Architects, 95 Colmore Row, Birmingham 3. CEN. 4664. S7637

SENIOR ARCHITECTURAL ASSISTANTS REQUIRED. Good superannuation scheme for permanent staff. Apply in first instance stating age, experience and salary required. Bernard H. Dale & Partners, 19, Carlton Crescent, Southampton. S7636

ARCHITECT over 30 years of age with previous industrial experience is required to lead a small team responsible for the design and development of a number of interesting projects at our various factories. Attractive salary and excellent employment conditions. Please apply briefly to the Personnel Officer, H. J. Heinz Company Limited, Waxlow Road, Harlesden, London, N.W.10. 7629

ARCHITECTS with general practice require ASSISTANTS (Senior and Junior). Good opportunities of gaining experience on a variety of work. Salaries according to qualifications and experience. Pension Scheme and five-day week. Apply to Cullen, Lockhead & Brown, Cadzow House, 10, Auchingramont Road, Hamilton. S7605

SLOUGH ESTATES LTD. require an ARCHITECTURAL ASSISTANT with at least five years' experience, chiefly for industrial work. Five-day week, good working conditions, luncheon vouchers, pension scheme, etc. Please apply, stating age, experience and salary, to The Chief Architect, Slough Estates Ltd., Bedford Avenue, Trading Estate, Slough, Bucks. TC7509

ARCHITECTURAL ASSISTANTS required immediately for interesting work in private practice situated 12 miles south of Birmingham. Five-day week and luncheon voucher scheme in operation. Apply Hasker & Hall, Longdon House, High Street, Knowle, Solihull, Warwickshire. Telephone Knowle 3502. TC7538

A. G. PORRI & PARTNERS need Intermediate and/or newly qualified ASSISTANTS with design ability to assist in handling a variety of interesting projects. Write to 13, St. James Street, Bedford Row, W.C.1. Tel.: HOL 8588. S7535

EXPERIENCED ARCHITECTURAL ASSISTANTS REQUIRED. SUPERANNUATION. FIVE-DAY WEEK. SALARY FROM £900 ACCORDING TO EXPERIENCE. COTTON, BALARD & BLOW, 5, BAKER STREET, LONDON, W.1. TELEPHONE WELBECK 3564. S7534

GENERAL ASSISTANTS required. Good opportunity in expanding office. Intermediate and Final standard. Interesting variety of work. Staff Pension scheme. Evening interviews if required. Write or phone: George E. Clay & Partners, 198, Parrock Street, Gravesend, Kent. Gravesend 1401/2. S7531

ARCHITECTS and ASSISTANTS required in expanding Development Company for housing, flats, shops and office projects. Good salaries offered for men with ideas and knowledge of construction. Superannuation scheme in operation. Apply with full details to Chief Architect, Davis Estates Ltd., 346/350, Kilburn High Road, London, N.W.6. S7521

NORTH LONDON—ASSISTANTS required about R.I.B.A. Intermediate standard. Wide variety of interesting work. Five-day week. Facilities for part-time day study. Apply C. E. Owen Ward, L.R.I.B.A., Midland Bank Chambers, Palmers Green, London, N.13. PAL 1186/7. S7308

SENIOR ASSISTANT ARCHITECT required in private practice South East Coast town. Must be experienced with ability to handle contracts from sketch plan to completion. Work consists of industrial, flats, schools, shops, etc. Starting salary £1,200 or according to ability. Housing accommodation available. Apply in own handwriting. Box TC7452.

ARCHITECTURAL ASSISTANT of Intermediate standard, five years' office experience, required in expanding Hampstead office. Apply B. Newton, A.R.I.B.A., M.R.S.H., 307, Finchley Road, N.W.3. Tel. SWI 5152. S7463

EXPERIENCED ARCHITECTS and ARCHITECTURAL ASSISTANTS of all grades urgently required for the Architect's Department of a firm of Consultants for their offices in Southern England. Progressive salaries commensurate with experience and qualifications, up to £1,500 p.a. Please apply in writing giving details of experience, training, etc., to Box S7470.

ARCHITECTS' ASSISTANTS required, Final and Intermediate standard, to work on large and interesting projects. Salary £850 to £1,000. Applicants must be good draughtsmen, with sound knowledge of detailing. Please write giving full particulars of experience, age, etc., to: F. W. Beech & E. Curnow Cooke, F.R.I.B.A., 15, Dix's Field, Exeter. TC6945

CHALLEN AND FLOYD require an ASSISTANT of Intermediate to Final standard with a minimum of five years' experience. Work will be interesting, varied and responsible. Salary according to age and experience. Luncheon vouchers provided. Apply to 7, Cromwell Road, London, S.W.7. KENSINGTON 834/849. TC6491

ARCHITECTURAL ASSISTANT at Intermediate standard required for West End Branch of Provincial Architects. Interesting and varied work. Five-day week. Luncheon Vouchers. Write full particulars of age, experience and salary required to Box TC6925.

QUALIFIED ARCHITECTURAL ASSISTANT required immediately in Home Counties office. Considerable scope for work on industrial, commercial and housing schemes. Five-day week. Write full particulars of age, experience and salary required to Box TC6926.

ARCHITECTURAL ASSISTANT required, R.I.B.A. Intermediate standard, with some office experience. Varied and interesting work. Five-day week. L.V.s. Good salary for keen and competent person. William Crabtree, F.R.I.B.A., 8, Robert Adam Street, W.1 (WELBECK 9909). TC6776

SENIOR ARCHITECTURAL ASSISTANTS. Large Office has a limited number of vacancies for Senior Architectural Assistants, salary range £900-£1,500, to undertake work of a varied and interesting character. Reply with particulars of experience to Box TC6875.

ROBERT MATTHEW & JOHNSON-MARSHALL have vacancies in London office for ARCHITECTS at all levels of experience for a variety of interesting jobs. Apply to Robert Matthew & Johnson-Marshall, 24, Park Square East, N.W.1. TC6547

THREE ARCHITECTURAL ASSISTANTS required for established firm with varied and growing practice.
1 CHIEF ASSISTANT with A.R.I.B.A.
1 SENIOR ASSISTANT at Final R.I.B.A. standard.
1 JUNIOR ASSISTANT at Intermediate R.I.B.A. standard.

Details of age, experience, salary required, phone or write, Herbert Cox & Gear, 2, Harpenden Road, St. Albans. Tel.: 54367. S7223

cladding

cills

copings

flooring

paving

fireplaces

surrounds

skirtings

stairtreads

shelves

THE BOW SLATE & ENAMEL CO LTD

THE TOWN HALL BOW ROAD E.3

QUARRIES ABERLEEN NORTH WALES

TODAY'S SLATE AND TOMORROW'S WINGILATE

£1,000/£2,000 p.a. will be paid to experienced competent ARCHITECTS by a private practice in the City of London. The work will be primarily on the drawing board on new and interesting projects of magnitude. A high standard of design and detailing ability is required. Please apply in writing to Box TC9360.

BASIL SPENCE & PARTNERS require qualified and experienced ARCHITECTS to fill positions of responsibility on a major building programme. Write to 1, Fitzroy Square, W.1, stating experience and salary required. TC9824

HARRY S. FAIRHURST & SON have vacancies for progressive and responsible ARCHITECTS, both Senior and Junior, to work on a wide variety of interesting projects. Pleasant offices and conditions. Salary in accordance with ability. Pension Scheme. Write with details to 55 Brown Street, Manchester. S7354

SENIOR ASSISTANTS required immediately. Salary by arrangement. Theo. H. Birks, 38, Portland Place, London, W.1. LAN. 7236. TC1486

ARCHITECT REQUIRED

BY . . . leading prefabricated timber building manufacturers

WITH . . . originality and initiative

TO . . . design and develop building systems

IN . . . friendly, congenial surroundings

SALARY RANGE £1,100—£1,400 p.a.

PLUS . . . bonus, superannuation, five-day week. Apply in writing, giving details of experience and salary required to: Sales Director, Middlesex Prefabricated Buildings Ltd., Green Lane, Hounslow, Middlesex. TC7171

BIRMINGHAM. Experienced ASSISTANTS required. Good salary and bonuses. Three weeks holiday. Varied and interesting projects. Apply by phone or letter to: D. R. Harper, Esq., A.F.C., D.F.C., A.R.I.B.A., Messrs. Francis V. B. Yorke, Harper & Harvey, 191 Corporation Street, Birmingham 4. Tel. CENTRAL 6901-2-3. S7115

ARCHITECTURAL ASSISTANT (Intermediate Standard) required with some office experience for City Office on interesting and varied work. Write full particulars, age, experience and salary required to Box S7549.

MORRIS DE METZ, F.R.I.B.A., now requires several ASSISTANTS of Intermediate standard with some office experience. Interesting work on offices, luxury flats, hospitals, multi-storey garages, etc. High salaries and pension scheme. Please telephone HUNTER 2581 or write to 29 Gloucester Place, Portman Square, London, W.1. TC7166

URGENTLY required, one or two SENIOR ASSISTANTS of Final standard, with about five years' experience. Capable of preparing sketch plans, and supervision of contracts. Write stating age, experience, and salary required to Box TC7082, or telephone MAYfair 9556.

BIRMINGHAM

Leonard J. Multon & Partners require **QUALIFIED ARCHITECTS AND ASSISTANTS.** Five-day week; Private Pension Scheme. Salary up to £1,600 per annum, according to qualifications and experience. Work includes Multi-Storey Flats, Hospital Work, Factories and Centre City Development. If you require a progressive position please write to 6, Greenfield Crescent, Edgbaston, or telephone Edgbaston 4188. S7560

ARCHITECTS' CO-PARTNERSHIP require ASSISTANTS for research and development team now forming. Write 44, Charlotte Street, W.1, or phone LANgham 5791. S7518

GOTCH AND PARTNERS, Architects, have vacancies for **ARCHITECTURAL ASSISTANTS** with a few years' office experience. Five-day week; a good salary, with luncheon vouchers. Apply in writing to 8, City Road, London, E.C.1, stating age, experience, qualifications, if any, and salary required. S7281

£800 - £1,600. LIVERPOOL, and YORK offices

require **ARCHITECTS AND ASSISTANTS** with the experience, drive and design ability to handle Church, College, School and Industrial projects from preliminary sketch to final account.

5 DAY WEEK, BONUS & PENSION SCHEME

Apply Weightman & Bullen
76 Rodney Street, Liverpool 1,
and Acorn House, Front Street, York.

ARCHITECTURAL ASSISTANT required by Liverpool practice. Must have had previous practical experience and be up to Intermediate standard. Qualifications not essential. Box Y 660, Lee & Nightingale, Liverpool, 2. S7611

C.W.S. ARCHITECTS' DEPARTMENT NEWCASTLE UPON TYNE

APPLICATIONS are invited for the following positions in a busy office dealing with Industrial and Commercial Developments in the Northern Counties—

(a) **SENIOR ASSISTANT ARCHITECTS**, Group 4. Salary range £1,125 to £1,500 per annum.

(b) **ASSISTANT ARCHITECTS**, Group 3. Salary range £800 to £1,200 per annum.

(c) **ARCHITECTURAL ASSISTANTS**, Groups 1 and 2. Salary range £275 (at 16 years) to £750 per annum.

(d) **SHOPFITTING DRAUGHTSMEN**. Salary range £800 to £1,200 per annum.

Reply, stating age, experience, etc., to R. A. Thomas, A.R.I.B.A., Chief Architect, C.W.S. Ltd., 90 Westmorland Road, Newcastle upon Tyne 1. S7639

W. S. HATTRELL & PARTNERS

invite applications to fill vacancies for **ASSISTANTS** of Intermediate to Final Standard, capable of preparing full working drawings, specifications, etc., under supervision, and of taking responsibility for smaller contracts. Salary within the range £750—£1,000 depending on experience and ability.

Salaries reviewed annually. 5-day week.

Replies to 1 Queens Road, Coventry. (Coventry 26446.) S7617

INTERMEDIATE AND SENIOR ASSISTANTS REQUIRED FOR EXPANDING PRACTICE W.C.1 AREA. BONUS AND EXCELLENT PROSPECTS FOR ENERGETIC APPLICANTS. **SALARY RANGE** £900—£1,500 ACCORDING TO EXPERIENCE. BOX S7517.

SENIOR ASSISTANTS required in medium sized office doing industrial work. Five-day week, lunch facilities, good working conditions. Applicants must be good designers and capable of taking responsibility. Apply by telephone to CITY 4400 or in writing to Alan A. Briggs, F.R.I.B.A., 10, Fleet Street, E.C.4. S7556

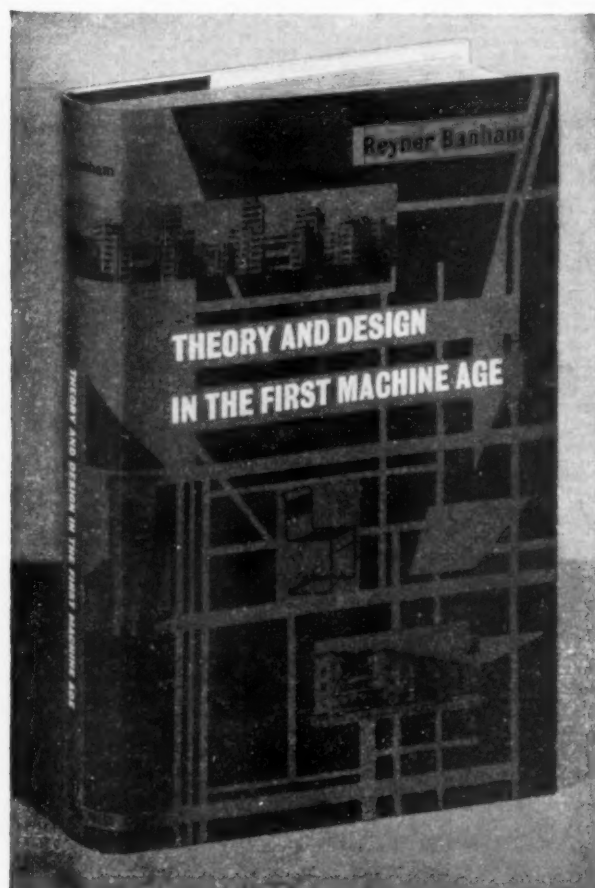
REYNOLDS & SCOTT have vacancies for **SENIOR AND JUNIOR ASSISTANT ARCHITECTS** in their Manchester Office. Full programme of School and Church Contracts. Applicants, not necessarily qualified, should write giving full details, salary required, to 9, Albert Square, Manchester, 2. Telephone DEAnsgate 6598. 7596

REYNER BANHAM

THEORY AND DESIGN IN THE FIRST MACHINE AGE

IN THE FIRST THIRTY years of the twentieth century, architects made a tremendous effort to adapt themselves and their art to a new set of circumstances—life in a Machine Age. The whole theory of architecture was brought under scrutiny—some of it for the first time since Antiquity—in a wave of self-examination unparalleled in the history of art. Not only was a new climate of ideas created, but the Masters of Modern Architecture—Gropius, Mies van der Rohe, Le Corbusier and others of less fame but no less interest—used their writings to justify their buildings, and their buildings to confirm their theoretical writings. Dr. Banham's subject covers not only a mass of theoretical writings—much of it unknown to English readers—but also buildings, projects, industrial designs, painting and sculptures—many of them illustrated in an English-language publication for the first time. Dr. Banham shows how one unifying theme finally emerges from this melting pot of exciting designs and excited discussion—the theme of a Machine Age Architecture; the architecture of the International Style, as the historians term it; Modern Architecture with its white walls, flat roofs and big windows, as the man in the street understands it. Into the growth of this theme went many highly inventive designs, which the author illustrates and analyses; many and varied publications, ranging from the scholarly to the scandalous, from which he quotes extensively, showing not only how the theories are related to the finished products, but also how the theories—and even the theorists—are related to one another.

The size of the book is 8½ × 5½ in. 340 pages including over 150 half-tone and line illustrations. 45s. net, postage 1s. 9d. The Architectural Press, 9-13 Queen Anne's Gate, S.W.1.



W. S. HATTRELL & PARTNERS urgently require
SENIOR ASSISTANTS in
COVENTRY, LONDON AND MANCHESTER

to take part in a varied programme of work including Schools, Office Blocks, T.V. Studios, Central Redevelopment Schemes and Industrial Developments.

Salary within the range £1,000-£1,500.

Write or telephone 1 Queens Road, Coventry (Coventry 26446); 21 Cleveland Place, King Street, S.W.1 (Whitehall 4076); 15 Piccadilly, Manchester, 1 (Deansgate 5706). 87618

ARCHITECTURAL ASSISTANTS required for most interesting and varied work. Salary grades ranging from £550 to £1,350. Five-day week. Excellent working conditions in new building. Pension Scheme and three weeks' holiday. Paid overtime. Car allowance. Apply Gordon Payne and Freese, Grosvenor House, Gloucester. 7607

VACANCIES FOR SENIOR AND INTER-MEDIATE GRADES on varied and interesting work. Good salary in accordance with experience. Five-day week. Filroy Robinson & Partners, CHANCERY 2111. Ref. G.W.J. 87548

PASCAL J. STIENLET & SON require enthusiastic **ASSISTANT ARCHITECT** for work on R.C. Churches and Schools. Full holiday this year. Salary by arrangement. Excellent conditions and prospects. Write, giving details of qualifications and experience, to 4, Queens Square, Saville Row, Newcastle upon Tyne, 1. 87547

MITCHELLS & BUTLERS LIMITED, INVITE APPLICATIONS FOR THE FOLLOWING APPOINTMENTS IN THE ARCHITECTS' DEPARTMENT. THESE APPOINTMENTS ARE PERMANENT AND PENSIONABLE WITHIN THE COMPANY'S TERMS AND CONDITIONS OF EMPLOYMENT.

(a) 1 **ARCHITECTURAL ASSISTANT.** Applicants must have passed the Intermediate examination of the R.I.B.A. or be ready to qualify at the November, 1961, examinations. Applicants must be 21 years or under on the 1st July, 1961.
(b) 2 **ARCHITECTURAL ASSISTANTS (Junior).** Applicants must have an enthusiastic desire eventually to qualify as an Architect, and must be able to produce evidence showing their aptitude for this career. Applicants must be 18 years or under on the 1st July, 1961, and should have obtained, or be eligible for, probationership R.I.B.A.

The three successful applicants will be appointed on the understanding that they will undertake a part-time course of study at a recognised School or Department of Architecture with the aim of qualifying within a reasonable period of time. Facilities are available for part-time studies to be taken during office hours.

These appointments offer a wide variety of experience as well as a rewarding future for those possessing drive and ambition.

All applications to be received by 5th June, 1961, must be addressed to:—
The Personnel Manager.

Mitchells & Butlers Ltd.,
Cape Hill Brewery,
Southwick

and should give details of age, qualifications and experience. 87567

FINAL STANDARD OR QUALIFIED: FOR WORK AT LONDON AIRPORT, INTERESTING POST OFFERING SCOPE FOR HELPING JOB THROUGH ALL STAGES: MANY OTHER VARIOUS CONTRACTS IN HAND. SALARY BY ARRANGEMENT AND COMMENSURATE WITH ABILITY. F. GREENWOOD, A.R.I.B.A., 18 THE GREEN, RICHMOND, SURREY. PHONE RIC 6316. OR WRITE FOR APPLICATION. 87428

STOP THAT COMMUTING! TO QUALIFIED ASSISTANTS IN WEST SUSSEX WE OFFER WORK ON A WIDE VARIETY OF WEST AFRICAN PROJECTS. PROSPECTS OF SERVICE ABROAD, AND UP TO £1,000 PER ANNUM. APPLY IN WRITING TO TRIC, ARCHITECTS AND TOWN PLANNERS, 30 SUDLEY ROAD, BOGNOR REGIS. 7441

A SMALL expanding practice about to take larger premises in Wembley, carrying out varied and interesting projects, requires the services of a **QUALIFIED ARCHITECT** aged 25/30, also an **INTER-MEDIATE STANDARD ASSISTANT**, with initiative, willing and able to accept responsibility, and to work with the minimum of supervision, in return for the rewards merited from a progressive and expanding practice. Will applicants kindly write details of age, experience and salary required to: Kenneth C. Saunders, A.R.I.B.A., Lynton House, 341, Finchley Road, N.W.3. 87422

A FIRM of private Architects in Nassau, Bahamas, require two **ASSISTANTS** on two-year Contracts. Applicants must be single, good draughtsmen, having a good knowledge of construction and office procedure. Return passage will be paid. Salaries will commence at £1,500, with annual increments, depending upon ability. Applicants will be interviewed in London during the month of June and should be prepared to take up employment soon afterwards. Please reply in own handwriting enclosing references to Box 7389.

LEWELLYN SMITH & WATERS require staff in the following categories:
JOB ORGANISERS to take charge of jobs, able to control drawing office and site work and deal with consultants and specialists. This could be someone qualified as a Building Surveyor. £1,000-£1,250.

ASSISTANTS interested in working on a wide range of projects. Good opportunities for young men of ability. £700-£1,000.

Salaries listed are commencing salaries and there is scope for advancement.

Vacancies in both **LONDON** and **WORCESTER** offices. Write: 103 Old Brompton Road, S.W.7 (KEN 4477). 87429

COWES, ASSISTANT required either qualified or intermediate standard with some office experience. Salary by arrangement. Please write to Howard V. Lobb & Partners, 16 Bath Road, Cowes, I.O.W. 87406

SENIOR ASSISTANT TO CHIEF ARCHITECT sought by Group of Property Development Companies for work in Commercial, Industrial and Domestic Development. Commencing salary in the range of £1,250-£1,500 according to ability and experience. The position offered is a responsible one and the applicant would be expected to work with little supervision. Pension Scheme, Staff Canteen and assistance with accommodation in N.W. Kent if desired. Apply to: Chief Architect, Rodney J. Allen, A.R.I.B.A., Wilmington House, Wilmington, Dartford, Kent. Telephone: Dartford 20288. 87388

ARCHITECT'S ASSISTANT about or above intermediate standard required for small interesting and varied practice at Clapham Junction. Apply Box 87386.

ARCHITECTS' Co-partnership require **ASSISTANTS** now for varied and interesting projects. Holidays honoured. Write 44 Charlotte Street, W.1, or phone LANham 5791. 87383

VACANCIES for Senior and Intermediate Grade **ASSISTANTS** available in extensive and interesting South Coast practice. Salaries from £700 to £1,250, according to experience and ability, with excellent opportunities for advance. Five-day week and good working conditions. Apply in writing with details of experience and salary required to H. Hubbard Ford, F.R.I.B.A., 24, Cornfield Road, Eastbourne. 87358

JAMES STIRLING AND JAMES GOWAN require experienced **ASSISTANTS** to participate in a variety of work (university, school, housing). Please write to 37 York Terrace, Regents Park, N.W.1, or telephone WEL 9436. 7653

COMPETENT ASSISTANTS required, large industrial buildings, London and Home Counties. Salary and bonus according to experience and ability; five-day week; excellent opportunities. Howard Kelly & Partners, Chartered Architects, No. 11 Duke Street, W.1. WELbeck 3996. 87364

ASSISTANTS of Intermediate Standard required in busy provincial office. Contemporary outlook welcomed. Opportunity given to handle contracts from inception to completion. Facilities given for study at London Schools one day per week, if required—fare and fees paid. Salary £750-£900 according to ability. Hare & Pert, A.A.R.I.B.A., 29, Elm Street, Ipswich. 87431

MESSRS. GOTCH & PARTNERS, Architects, require **ASSISTANTS** with some years' experience. Salary up to £1,500 a year, plus Lunches Vouchers. Five-day week. Reply in writing to 8, City Road, stating age, experience and qualifications. 87439

ASSISTANTS who have recently qualified are required in busy provincial office. Contemporary outlook welcomed. Salary in accordance with experience, plus bonus scheme. Hare & Pert, A.A.R.I.B.A., 29, Elm Street, Ipswich. 87432

ENFIELD, Middlesex office requires **SENIOR ASSISTANT** and **INTER-MEDIATE ASSISTANT**. Wide and interesting range of work available without the tedium and expense of travelling to Town. Practice established over 25 years. Projects in hand include Hospital, Industrial, Domestic and Commercial schemes. Five-day week, three weeks' annual leave. Write giving full details of training, experience and salary required to: E. William Palmer & Partners, Chartered Architects, 8 The Town, Enfield, Middlesex. 87659

MARKET RESEARCH. A large Company in the Manchester manufacturing material for the Building Industry has a vacancy in its Market Research Department for a **SENIOR ASSISTANT**. Applications are invited from men who have building and sales experience with knowledge and interest in Market Research. The commencing salary will be attractive and conditions of service are good. Apply giving full details of career and present salary to The Chief Personnel Manager, Box 7654.

OPPORTUNITY for keen young **ASSISTANT** to gain valuable experience in a busy general practice at Sidcup. Intermediate/Final standard with drawing and design ability. Excellent working conditions and generous salary to right person. Footscray 7008. 87656

ESSEX Office requires qualified **ASSISTANTS** required in advanced design. Please write to Jan Farber and Bartholomew, Nevendon Hall, Basildon, Essex 87651

ARCHITECTURAL ASSISTANTS of all grades urgently required. Salaries by arrangement. Bonus-Pensions Schemes in operation. Schools, Industrial, Commercial, Hospital and Domestic work. Write to Firth, Son & Blackburn, A.A.R.I.B.A., Broadway House, Crackenedge Lane, Dewsbury. 87362

DESIGN GROUP require **ARCHITECTURAL ASSISTANTS** or **ARCHITECTURAL DRAUGHTSMEN**. Experience in housing and flats an advantage. Good quality interesting work, five-day week, luncheon vouchers. Write, giving age and full details of experience, to Dolphin Development Co. Ltd., Duncan House, Dolphin Square, London, S.W.1. TC7657

ARCHITECTURAL ASSISTANTS. The London Co-operative Society Ltd. invite applications for Architectural Assistants at their Works Dept., Whitta Road, Manor Park, London, E.12. The successful candidates will be required to pass a medical examination and after a probationary period to participate in the Society's contributory Pension Scheme. Applicants should have reached Intermediate R.I.B.A. standard; particularised experience in design of shopfronts and layout and design of shopfronts will be an advantage. Salary within the scale £779 12s. to £831 12s., according to age and experience. Write Staff Office, L.C.S. Ltd., 54, Maryland Street, Stratford, London, E.15, stating age, details of career and technical qualifications. Endorse application "Architectural Assistant." 7670

SUTTON, ARCHITECTURAL ASSISTANTS of Intermediate standard or above, required at Branch Office at Sutton, Surrey, and at London Office. Varied practice. Five-day week. Salary according to experience. Write or telephone Gerald Shenstone & Partners, 34, Bloomsbury Way, W.C.1. Chancery 3444. 7696

£1,000 PLUS.

With . . . non-con. superannuation; canteen for . . . two Intermediate/Final Assistants in . . . expanding department of West End Contractors on . . . Schools and other interesting projects. Write . . . in confidence to Box 87704.

WANTED, PRINCIPAL ASSISTANT ARCHITECT to work with me on a pioneer scheme of architecture and planning of a high income community in Scotland. Starting salary £1,500. The right applicant will find that there is no problem of housing accommodation. Please apply by June 1 to Peter Daniel, A.R.I.B.A., A.I.L.A., Cambusnethan Priory, Wishaw, Lanarkshire. Telephone Wishaw 2245. 7702

ARCHITECTS in private practice in the Home Counties will pay £1,000 to £1,500 per annum to competent **ARCHITECTURAL ASSISTANTS**. Will also pay up to £1,000 per annum for competent **JUNIOR ARCHITECTURAL ASSISTANTS**. Varied and interesting work in hand. Write stating age, experience and salary required to Box 87694.

ARCHITECTURAL ASSISTANTS REQUIRED FOR OFFICE WITH VARIED PRACTICE. WRITE W. F. HOWARD, 35, THURLOE STREET, S.W.7. 87708

BLACKFRIARS, SMALL BUSY OFFICE IN BLACKFRIARS ROAD HAS VARIED AND INTERESTING WORK AND VACANCIES FOR ONE INTER-MEDIATE AND ONE JUNIOR ASSISTANT. PLEASE TELEPHONE WATERLOO 4362 OR WRITE BOX 7722.

VIVIAN PILLEY requires **ARCHITECTS' ASSISTANT** WITH EXPERIENCE IN LONDON OFFICE. GOOD SALARY BY ARRANGEMENT AND EXTREMELY PLEASANT WORKING CONDITIONS IN GARDEN STUDIO IN ST. JOHN'S WOOD. RING ANY TIME: CUNNINGHAM 3384. 7705

ALPH TUBBS requires **ARCHITECTS AND ASSISTANTS**. The work includes a new hospital, a television centre and university hostels. Phone WELbeck 2129 or write 46 Queen Anne Street, London, W.1. 7707

ARCHITECTS' SENIOR ASSISTANTS required for the preparation of working drawings and details; also **JUNIOR ASSISTANT** for the preparation of general detailed drawings under supervision. Full details to A. T. Butler & Partners, 31, Priory Street, Dudley, Worcestershire. 7706

ARCHITECTURAL ASSISTANTS with practical experience required in small informal office having varied and interesting work, and where every opportunity is given to acquire site experience. Salaries according to ability. Lunches Vouchers. Five-day week and holiday arrangements respected. Details to Hooper, Belgrave & Gray, Donington House, Norfolk Street, W.C.2. Temple Bar 1346/7. 7723

JUNIOR, INTER-MEDIATE AND SENIOR ASSISTANTS required, and offered scope in all aspects of work and opportunity to consolidate position in a small practice engaged on interesting progressive work. Salary according to experience and ability. Write to Julian Sofaer, 1 Montagu Square, W.1. 7724

ARCHITECT age 27-35 required as head of consulting engineers Architectural department, work varied including industrial, commercial and domestic schemes. Pension scheme, progressive salary, initially £1,500 p.a. Box 87713.

RESPONSIBILITY! ASSISTANT ARCHITECT urgently required to take over major projects. Five-day week, bonus scheme. Attractive up-to-date offices in pleasant surroundings. Salary range £900 to £1,200 according to age and experience. Apply John L. Bakewell, 8 Green Lane, Belper, Derbyshire. 7679

ARCHITECT, Qualified, required by Building Contractors to control department dealing with the design and development of Housing Estates, Industrial and Commercial premises, etc. An excellent opportunity for a keen man who requires a permanent position. Pension scheme in operation. Write, in strict confidence, giving full details, including age and salary expected, to E. & J. Cotton Ltd., High Street, Iver, Bucks. 7688

BIRMINGHAM. We are in the process of reorganising our office and urgently require senior staff to take charge of groups engaged upon interesting and varied projects. We seek young men with experience in running contracts and a sincere interest in progressive architecture. Salaries will be entirely commensurate with ability. Good prospects; non-contributory pension fund operates. Apply F. Potter and Associates F.A.R.I.B.A., Chartered Architects, 3 Vicarage Road, Edgbaston, Birmingham 15. 87687

QUALIFIED ARCHITECTURAL ASSISTANT required for work in mixed rural practice, S.E. Cornwall; scope for expansion. Would consider possibility of partnership. Pension scheme available. Apply with references and particulars to Henry S. Tucker, F.R.I.C.S., M.R.S.H., The Parade, Liskeard, Cornwall. 87686

MORGAN & BRANCH require qualified **ARCHITECTURAL ASSISTANT** in their City Office to run interesting projects in expanding organisation. Salary £1,000/£1,500 depending on experience. Five-day week. 8716, Great New Street, E.C.4. Tel. FLEet Street 2771. 7691

ARCHITECTS required with initiative and ability to work with minimum supervision, by important firm with practice in City of London. Excellent salary, holiday commitments accepted. L.V. Non-contributory Pension Scheme. Write Box 7695.

INTERESTING and varied work with accent on good design in a growing practice for **ASSISTANT**, intermediate standard. Pomeroy & Partners, 176, Old Brompton Road, S.W.5. FRE 631/2. 87734

Architectural Appointments Wanted

3s. per line; minimum 12s. Box Number, including forwarding replies, 2s. extra.

MANCHESTER AREA. SENIOR ARCHITECT (50) available soon. Wide range of designing, supervising and negotiating experience. Long term appointment required, with prospects. Salary £1,800 plus bonus, etc. Box 87559.

FIRST CLASS ASSISTANT requires lucrative part time work. London/Surrey area. Box 87605.

QUALIFIED ARCHITECT, 13 YEARS' EXPERIENCE, FOUR YEARS SCANDINAVIA AND AFRICA. REQUIRES OVERSEAS POST. BOX 7703.

SPANISH ARCHITECT, qualified but with limited experience, requires a post as **ASSISTANT** in London office. Salary secondary consideration. Box 7652.

ASSOCIATE ARCHITECT AND BUILDING SURVEYOR, 15 years' experience, now Chief Architect to City Authority, requires similar appointment with industrial organisation or partnership. Southern England preferred. Box 7668.

ARCHITECT (Associate) with 15 years' varied experience and own small part-time practice, seeks senior position leading to partnership. Box 7660.

LANCE CORPORAL'S Full 1942 Regulars pay is not enough! N.S. man wishes to utilise his School Dipl. and A.R.I.B.A. qualifications once more soon. What are the best W.R. positions paying now-a-days? Box 7680.

Other Appointments Vacant

3s. per line; minimum 12s. Box Number, including forwarding replies, 2s. extra.

QUANTITY SURVEYOR, approaching final standard, capable of carrying out final accounts and all normal Quantity Surveyor's duties, required for West End Office. Salary according to age and experience. Please write giving full particulars to Box TC4584.

ARCHITECTURAL DRAUGHTSMAN, with industrial experience, required to become a key member of a small design team engaged on a varied building programme. No age restrictions. Attractive salary to right man. Excellent employment conditions. Young men wishing to qualify will be given every opportunity to do so. Please apply to the Personnel Officer, H. J. Heinz Company Limited, Waxlow Road, Harlesden, London, N.W.10. 87630

DESIGNERS: Two required by West End Architect, Portman Square, for Interiors and Exhibitions. Minimum Inter R.I.B.A. qualifications. Excellent opportunities for advancement and outdoor work. Apply Box 87557.

ASSISTANT BUILDING SURVEYOR required for Surveyors and Land Agents. Efficient in structural surveys, plans, specifications and dilapidations. Apply Geering & Colyer, 24 High Street, Tunbridge Wells. 87695

ARDIN & BROOKES & PARTNERS is a young partnership with progressive ideas and plenty of varied work. There are opportunities for good designers who are not afraid of hard work and capable of running their own jobs. A bonus scheme operates so that the more the firm produces the more the staff benefits. We have spacious offices near the R.I.B.A. and work five days a week. There are also opportunities for countrywide travel. We are prepared to pay up to £1,350 plus bonus to the right men, qualified or nearly so, to write or phone 6 Cavendish Place, Cavendish Square, W.1. LAN 5227. 7698

REPRESENTATIVES. A leading Manchester company manufacturing products for the Building Industry has vacancies for representatives in the main centres of England. Applications are invited from men aged between 25 and 40 years who are mobile and have a knowledge of the Building Industry. A car will be provided and conditions of service are excellent. Apply giving full details of career and present salary to the Chief Personnel Manager, Box 7666.

TWO BUILDING DRAUGHTSMEN required by the London Co-operative Society Ltd., to operate respectively from Parson's Green Lane, Fulham, S.W.6, Works Depot, and from Clements Lane, Ilford Works Depot. Salary at the rate of £694 17s. per annum. Applicants must be capable of working up details from Architects' drawings and producing drawings for minor jobs and preferably have a knowledge of the London Building Acts. The successful candidates will be required to pass a medical examination and after a probationary period to participate in the Society's contributory Pension Scheme. Applications giving details of age, experience and qualifications should be addressed to Staff Office, L.C.S. Ltd., 54, Maryland Street, Stratford, E.15, endorsed "Building Draughtsman." 7671

ASSISTANT QUANTITY SURVEYOR required by the London Co-operative Society Ltd., for their Works Dept., at Whitta Road, Manor Park, London, E.12. Applicants should have reached intermediate standard of The Institute of Quantity Surveyors and should be fully experienced in taking off, working up and Billing for new works and conversion of existing properties. A knowledge of estimating and/or Specification writing would be an advantage. Salary within the scale £779 12s. to £831 12s., according to age and experience. The successful candidate will be required to pass a medical examination and after a probationary period to participate in the Society's contributory Pension Scheme. Applications giving details of age, experience and qualifications should be addressed to Staff Office, L.C.S. Ltd., 54, Maryland Street, Stratford, E.15, endorsed "Assistant Quantity Surveyor." 7672

EXPERIENCED SURVEYOR required in Architects and Surveyors office with general practice. Salary according to qualifications and experience. £900 per annum minimum. Pension scheme. Holiday arrangements honoured this year. Apply: Manning & Steel, F.R.I.B.A., 3, George Street West, Luton, Beds. TC7685

DESIGN. ARCHITECTURAL MANAGER to lead group of Storefront and Shon Interior Designers. Age 30 to 40. Start £2,000 experienced applicant. Write in confidence to R. H. Johnston, 15, Queen's Gate Terrace, S.W.7. 7731

Services Offered

3s. per line; minimum 12s. Box Number, including forwarding replies, 2s. extra.

"DON" ARCHITECTURAL MODEL MAKERS. We offer the highest grade work with speed and reliability.—Please Phone Woolwich 1262 or write 6, Pelham Crescent, Hastings. TC1673

FULLY experienced in all Building and Architectural work. I am available to undertake: Designs, Working Drawings, Details, Surveys, Specifications, Models, etc. Just telephone Wallington 9883 (near Croydon) and I will call anywhere and take your instructions. Box TC5548.

SURVEY OF SITES or buildings carried out for the Profession. Livingstone 1839. TC5071

ALLMODELS STUDIO. If it's a model you require we are the craftsmen to make it. Serving every industry and profession. Allmodels Studio, 2, Burlington Mews, London, W.3. Acorn 7655. 87087

MODELS AND COLOUR PERSPECTIVES. Charles Houshous offers work of the highest quality. 16, Thames Street, Sunbury-on-Thames, Middlesex. Sunbury 3728. TC2339

"NAPIER MODELS." Specialists in Architectural work. Stanley Studios, S.W.10. FLAXman 2118. TC3551

ARCHITECTURAL MODELS.—Thomas K. Bartlett and Partners specialise in this work. 5, King's Ave., W.5. Phone Perivale 6283. TC6176

SURVEYS. Large or small, drawn to large scales, accuracy guaranteed. Structural sewerage, sewage disposal, sanitary plumbing and drainage design. The Site Survey Company, London, S.E.3. Telephone LEE Green 7444. TC6988

BUILDING A CHURCH OR COLLEGE?

AN ELECTRONIC ORGAN is likely to be required. It's wiser to get details as to prices, dimensions, cabling, etc., early. Re-acoustics, did you know that a new three dimensional device produces cathedral effects in a small building? Advice and brochures free. Stockists leading makes including HAMMOND. A. W. COOKE & SON, 19, St. Benedicta, Norwich. Tel. 25970. Organ consultants 2 century. 87542

ARCHITECTURAL AND EDUCATIONAL MODELS of all kinds, accurately made to scale with latest up-to-date materials. Models of realistic and artistic appearance made for clients in all parts of the world for over 20 years. Send drawings for free estimate to: Educational Models, 4, Avenue Road, Duffield, Derby, England. Telephone: Duffield 2081. 87495

FREELANCE ARCHITECTURAL ASSISTANT (40) available to prepare working drawings, details, coloured perspectives and tracings. Own office facilities (Victoria). Phone VIC 9282 or write Box 7657.

A.R.I.B.A., ex. refs., 25 yrs' wide exp., offers conscientious free-lance assistance to profession from home. Finished work from rough notes, sketches. Box 7732.

Premises To Let

3s. per line; minimum 12s. Box Number, including forwarding replies, 2s. extra.

OFFICES TO LET. 2-intercommunicating rooms, 425 sq. ft., available immediately. Apply A. Green, A.R.I.B.A., 23, Fitzroy Street, W.1. LANGham 5061. 87633

PRESTIGE offices near Berkeley Sq., over Estate Agents, to be let on lease. Approx. 800 sq. ft., 30s. per ft. Might be advantageous both ways. Apply Box 7683.

For Sale and Wanted

3s. per line; minimum 12s. Box Number, including forwarding replies, 2s. extra.

OF interest to firms with gang saws, Irish Grey Limestone Blocks now available, first class stone to suit inside or outside, takes high polish, prices competitive, good delivery. Box 2002, Eason's Advertising Service, Dublin 1. 7714

Partnership and Financial

3s. per line; minimum 12s. Box Number, including forwarding replies, 2s. extra.

CHARTERED STRUCTURAL ENGINEER, in private practice, desires collaboration with Architect. Sharing London office considered. Box 7717.

Miscellaneous

3s. per line; minimum 12s. Box Number, including forwarding replies, 2s. extra.

A. J. BINNS, LTD., Specialists in the supply and fixing of all types of Fencing, Gates and Cloakroom Equipment.—Harvest Works, 96/107, St. Pauls Road, N.1. Canonbury 2861. TC2093

CROGGON & CO., LTD.—Chain Link Fencing and all types of Wrought Iron Fencing supplied and erected—230, Upper Thames Street, London, E.C.4. CENTral 4382. TC9429

HANDMADE CLAY TILES available in many beautiful colours. The perfect roofing material with the longest life. Particulars, samples and brochure from G. Tucker & Son Ltd., Loughborough, Leicestershire. Phone: Loughborough 2446/7. TC1609

The unique beauty of Broughton Moor Green slate

remains unimpaired through centuries of climatic extremes and atmospheric pollution. That is why growing numbers of contemporary architects turn to this natural material for external and internal facings, flooring, coping and cills. It is available naturally riven, frame sawn or fine rubbed in three distinct colours, Light Sea Green, Olive Green, Pale Green Barred. Send for leaflet and details of easy fixing.

Broughton Moor

GREEN SLATE QUARRIES LTD

Coniston, The Lake District, Lancs.
Tel: Coniston 225/6

We've got nothing to sell...

... except service and experience.

We are specialist constructors of many kinds of buildings in wood, and we like to discuss with architects the purpose for which a building is needed and the features that they wish to incorporate.

We mass produce nothing. Everything is designed to meet a special requirement. Only when agreement is reached on design and price have we anything concrete to sell. Even then it is in wood!

Full details and brochures on request

GREGORY OF HEDGERLEY
HEDGERLEY BUCKS
Telephone: Farnham Common 666

"COHAR FOR CARPETS" offer 20 per cent. discount on all leading makes. Can be seen at Showrooms—London, Birmingham, Manchester, Edinburgh, Nottingham, Dundee, Aberdeen, Newcastle, Cardiff. Write "Cohar," 47, Oswald Street, Glasgow. S7416

Educational Announcements

3s. per line: minimum 12s. Box Number, including forwarding replies, 2s. extra.

R. I.B.A. and T.P.I. EXAMS.—Stuart Stanley (Ex. Tutor Sch. of Arch. Lon. Univ.), and G. A. Crockett, M.A./D.A., F.F.R.I.B.A., M./A.M.T.P.I., prepare Students by correspondence. 10, Adelaide Street, Strand, W.C.2. TEM. 1603/4. TC9953

INTERIOR DESIGN AND DECORATION.

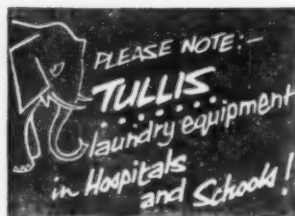
The Rhodoc School offers a home study course in interior design and decoration. Course 1, for professional use. Course 2, for personal use about your home. Send 4d. stamp for free booklet to Dept. A.J. BCM/Rhodoc, London, W.C.1. TC4989

FULL OR SUPPLEMENTARY TUITION

Provided by correspondence for R.I.B.A. examinations. Revision Courses also available in any subject. Descriptive brochure on application

ELLIS SCHOOL OF ARCHITECTURE

Principal: A. B. Waters, F.R.I.B.A., F.I.Arb.
103B, Old Brompton Rd., London, S.W.7
and at Albany House, Worcester.



D. & J. TULLIS LTD.
CLYDEBANK, SCOTLAND

Tel.: Clydebank 1861/2/3/4/5

Branches also at London, Birmingham and Manchester

IT SAVES TIME & MONEY
to specify

FURSE

STAGE EQUIPMENT

A very comprehensive design and advisory service is available to Architects for Schools, Public Halls and the like.

W. J. FURSE & CO. LTD.
TRAFFIC ST., NOTTINGHAM — LONDON, MANCHESTER

KIRKSTONE

GREEN SLATE FOR WALL
CLADDING, CILLS,
COPING, FLOORING PAV-
ING ETC.

The slate from our quarries has been used for these purposes for over 50 years. Our accumulated experience is offered to Architects in the services of our Technical Staff and illustrated literature.

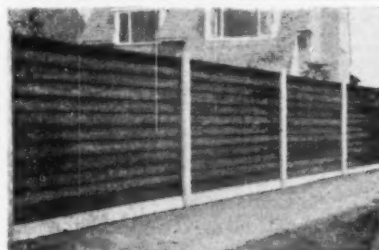
Service in Slate
KIRKSTONE GREEN
SLATE QUARRIES Ltd.
Ambleside, Westmorland

Tel.: Amb. 3296-7

HY-RIB

combined shuttering and reinforcement
long span metal lathing

HY-RIB DIVISION, TRUSCON LIMITED
35-41 Lower Marsh, London SE.1. Telephone: WATerloo 6922



No other type of fence is as strong and durable. The panels are pressure creosoted timber and posts of granite concrete.

ALL CONDITIONS PROVIDED FOR
T. G. FENCING, Elborow Street, RUGBY

MODELS

for Architects & Civil Engineers
by **John B. Thorp**

EST 1883
98 GRAY'S INN ROAD, LONDON
W.C.1 Tel: HOLborn 1011

HATHERNWARE

Send for full details to:

HATHERNWARE LTD • DEPT. AR • LOUGHBOROUGH • LEICS. Tel: Hathern 273

IN GLASGOW

BLACK GLAZED AND GREY
STONE-FACED SLABS AND
BLOCKS have been effectively used for
the Offices at Bridgeton, Glasgow for
Messrs. Mavor & Coulson Ltd. (Architect:
John B. Wingate Esq., L.R.I.B.A.)

©H.L. 101

FIRST FOLD HERE

AJ enquiry service

If you require catalogues and further information on building products and services referred to in the advertisements appearing in this issue of the Architects' Journal please mark with a tick the relevant names given in the index to advertisers overleaf. Then detach this page, write in block letters, or type, your name, profession or trade and address in the space overleaf, fold the page so that the post-paid address is on the outside and despatch. We will ensure that your request reaches the advertisers concerned.

Postage
will be paid
by
Licensee

FOLD HERE

No Postage Stamp
necessary
if posted
in Great Britain or
Northern Ireland

BUSINESS REPLY FOLDER
Licence No. S.W. 1761

THE ARCHITECTS' JOURNAL

9-13 Queen Anne's Gate

London, S.W.1.

FOLD HERE

TUCK IN THIS FOLD

Alphabetical index to advertisers

	PAGE	CODE		PAGE	CODE		PAGE	CODE
Acme Flooring & Paving Co. (1904), Ltd.	2	0004	Federated Foundries, Ltd.	87	0217	Peel, H., Ltd.	114	0160
Aidas Electric, Ltd.	64	0009	Ferodo, Ltd.	90	0218	Peglers, Ltd.	119	0453
Aircrow Company & Jewood, Ltd.	92	0011	Fibreglass, Ltd.	55	0219	Permanite, Ltd.	99	0458
Ajax Aluminium, Ltd.	110	0012	Flinkote Co., Ltd.	104	0229	Permoglaze, Ltd.	42	0459
Architectural Press, Ltd.	124, 131	0026	Fordham Pressings, Ltd.	21	0232	Philips Electrical, Ltd.	17	0462
Ascot Gas Water Heaters, Ltd.	94	0031	Freeman, Joseph, Sons & Co., Ltd.	83	0236	Phoenix Timber Co., Ltd.	117	1304
Association of Steel Conduit Manufacturers	57	0037	Furse, W. J., & Co., Ltd.	134	0241	Pickerings, Ltd.	34	1101
Association of Vermiculite Exfoliators	93	0144	Gas Council	8	0246	Pilkington Brothers, Ltd.	60	0475
Autotype Co., Ltd.	113	0043	Gent & Co., Ltd.	20	0251	Plus-Gas Co., Ltd.	115	0725
B.B. Chemicals, Ltd.	54	0055	Gliksten Doors, Ltd.	50	0255	Potterton, Thomas, Ltd.	81	0485
B.I.P. Reinforced Products, Ltd.	78	0066	Goodyear Tyre & Rubber Co. (G.B.), Ltd.	68	1116	Precast Utilities (London), Ltd.	85	1020
Balley & Whites, Ltd.	119	1172	Gregory (Hedgerley), Ltd.	134	1215	Protim, Ltd.	115	0897
Barry, Ostlere & Shepherd, Ltd.	70	0050	Gyproc Products, Ltd.	41	0266	Pyrok, Ltd.	137	0741
Batley, Ernest, Ltd.	114	0052	Gypsum Plasterboard Development Assn.	107	0267	Rank Precision Industries, Ltd.	115	0723
Bayliss, Jones & Bayliss, Ltd.	65	0054	Harris & Sheldon, Ltd.	109	0279	Rawlings Bros. Ltd.	116	0499
Benbow of Torquay, Ltd.	120	1262	Hartley, V. & N., Ltd.	19	0282	Reynolds & Co., Ltd.	36	0696
Benjamin Electric, Ltd.	27	0058	Hathernware, Ltd.	134	0691	Richards, Charles, & Sons, Ltd.	118	0728
Berry, Z. D., & Sons, Ltd.	11	0060	Hattersley (Ormskirk), Ltd.	69	0846	Roller Shutters, Ltd.	48	0517
Bolton Gate Co., Ltd.	113	0078	High Duty Alloys, Ltd.	29	0292	Savage & Parsons, Ltd.	12, 13	0539
Boot, Henry, & Son, Ltd.	56	0821	Hill, Richard, Ltd.	39	0708	Seaboard Lumber Sales Co., Ltd.	53	0542
Bow Slate & Enamel Co., Ltd.	62, 130	0083	Hills (West Bromwich), Ltd.	30	0297	Shannon, The, Ltd.	74	0549
British Monorail, Ltd.	4	0097	Hollow Seal Glass Co., Ltd.	80	0301	Shell Chemical Co., Ltd.	44	0964
Broad & Co., Ltd.	114	0111	Holoplast, Ltd.	58, 59	0801	Simplex Concrete Piles	121	1157
Broads Manufacturing Co., Ltd.	43	0112	Hope, Henry & Sons, Ltd.	98	0309	Sissons, W. & G., Ltd.	116	0565
Broughton Moor Green Slate Quarries, Ltd.	134	0115	Huntley Boorne & Stevens, Ltd.	120	1259	Sommerfelds, Ltd.	112	0576
C.I.B.A. (A.R.L.), Ltd.	22	0736	Hy-Rib Division, Truscon, Ltd.	134	0645	Stewart & Gray, Ltd.	37	0600
Calders, Ltd.	63	0127	Imperial Chemical Industries, Ltd.	40	0319	Swedish Perstop	51	0612
Cambridge, B. J. (Heetrite), Ltd.	119	1310	Kay & Co. (Engineers), Ltd.	111	0715	T.G. Fencing, Ltd.	134	1184
Caswell Ltd.	35	0784	Kenyon, Wm. & Sons (Metamica), Ltd.	113	0982	Tanks & Linings, Ltd.	108	0616
Celcon, Ltd.	110	0908	Kerner-Greenwood & Co., Ltd.	32	0339	Technigraphic Bristol, Ltd.	120	1198
Cement Marketing Co., Ltd.	14	0136	King, Geo. W., Ltd.	106	0342	Temperature, Ltd.	52	0746
Chloride Batteries, Ltd.	88	0141	Kings Langley Engineering Co., Ltd.	108	0120	Tentest Co., Ltd.	46	0627
Coal Utilisation Council	95	0147	Kirkstone Green Slate Quarries, Ltd.	134	0739	Thermacoust, Ltd.	82	0629
Colt Ventilation, Ltd.	3	0152	Laing, John, & Son, Ltd.	138	0345	Thompson, John, Ltd.	49	1269
Compactom, Ltd.	28	0153	Lanarkshire Steel Co., Ltd.	24, 25	1309	Thorp, John B.	134	0633
Constructors, Ltd.	106	0157	Lilleshall Co., Ltd.	117	0910	Troughton & Young (Lighting), Ltd.	100	0640
Costain Concrete Co., Ltd.	96	1100	London Brick Co., Ltd.	47	0366	Tullis, D. & J., Ltd.	134	1164
Danks, Edwin & Co. (Oldbury), Ltd.	102	0175	M.K. Electric, Ltd.	15	0416	Tunnel Portland Cement Co., Ltd.	75	0647
Denton Edwards Paints, Ltd.	66	0181	Manger, J., & Son, Ltd.	2	0383	Turners Asbestos Cement Co., Ltd.	77	0644
Dorman Long (Steel), Ltd.	46	0185	Marley Concrete, Ltd.	137	1135	Unistrut Division of Sankey-Sheldon, Ltd.	97	1252
E.U.K. Catering Machinery, Ltd.	23	0460	Marley Tile Co., Ltd.	91	0398	United Ebonite & Lorival, Ltd.	50	0805
Ellis School of Architecture	134	0202	Mellows & Co., Ltd.	105	0406	Venesta Plywood, Ltd.	86	0816
Engert & Rolfe, Ltd.	70	0204	Merchant Adventurers, Ltd.	103	0407	Wall Paper Manufacturers, Ltd.	16	0671
English Clock Systems, Ltd.	67	0205	Merchant Trading Co., Ltd.	101	0408	Ward Brothers (Sherburn), Ltd.	45	1192
English Joinery Manf. Assoc. (Inc.)	61	0788	Merthyrware Tiles, Ltd.	89	0409	Ward & Co. (Letters), Ltd.	120	0676
Evode, Ltd.	7	0878	Metal Sections, Ltd.	38	0403	Wareing Bros. & Co., Ltd.	112	0679
Expanded Metal Co., Ltd.	72, 73	0211	Morris, M. A., Ltd.	10	0914	Weatherfoil, Ltd.	84	0685
Expandite, Ltd.	79	0212	New Stone Restoration, Ltd.	111	0794	Weil, Joseph, & Son, Ltd.	118	1021
F.E.B. (Great Britain), Ltd.	5, 9	0216	North British Plastics, Ltd.	26	0440	Wiggins-Sankey, Ltd.	137	1038
Fablon, Ltd.	6	0213	Olsson, Martin (Fibreboards), Ltd.	33	0445	Wright, John, & Sons, Ltd.	31	1176
Falk, Stadelmann & Co., Ltd.	71	0214				Yale & Towne Manufacturing Co.	18	0701

Write in block letters, or type, your name, profession, and address below, and fold so that the post-paid address is on the outside.

NAME

PROFESSION

ADDRESS



Everyone loves a Terrace!

In fact, a terrace *makes* a property; and in the word 'Terrace' is included every kind of garden construction—drives, walls, copings, surrounds and paths. Marlite is a very 'natural' man-made paving imparting distinction, even to a site which might otherwise be insignificant. It is easy to lay, uniform in size and colour, non-slip and economical. The five mellow colours in a wide range of sizes—12 in all—give the architect almost unlimited scope.

MARLITE PAVING



MARLEY CONCRETE LIMITED Dept. T2/18

Peasmarsh, Guildford, Surrey. (Head Office) Guildford 69171
Shurdington, Cheltenham, Glos. Shurdington 334/0
Waterloo, Poole, Dorset. Broadstone 911/2
London Showrooms: 251 Tottenham Court Road, W.1.



Regd. Trade Mark

for FIRE PROTECTION
SOUND ABSORPTION
THERMAL INSULATION
EXTERNAL PROTECTION
COLOUR DECORATION and
ANTI-CONDENSATION TREATMENTS

Pyrok has been used successfully in

SWIMMING BATHS
BREWERIES
KITCHENS
DAIRIES
SCHOOLS
FACTORIES etc.

For further details of the treatment and of the properties of Pyrok apply to :

PYROK LIMITED

491-404 Montrose Avenue,
Slough
Tel.: Slough 24601

2-5 Old Bond Street, W.1
Tel.: HYD 1491



MIPOLAM

thermoplastic handrail covering

Applied with heat, it takes the true line to bends and angles down to 2" internal radius. It is shaped to a natural handgrip, and can be installed with matt or gloss finish in two sizes and seven colours. For further details apply to main distributors;

WIGGINS-SANKEY LIMITED
Wyfold Road, London SW6. tel: FULham 1250

Alphabetical index to advertisers

	PAGE	CODE
Acme Flooring & Paving Co. (1904), Ltd.	2	0004
Aidas Electric, Ltd.	64	0009
Aircrow Company & Jicwood, Ltd.	92	0011
Ajax Aluminium, Ltd.	110	0012
Architectural Press, Ltd.	124, 131	0026
Ascot Gas Water Heaters, Ltd.	94	0031
Association of Steel Conduit Manufacturers	57	0037
Association of Vermiculite Exfoliators	93	0144
Autotype Co., Ltd.	113	0043
B.B. Chemicals, Ltd.	54	0055
B.I.P. Reinforced Products, Ltd.	78	0066
Bailey & Whites, Ltd.	119	1172
Barry, Ostlere & Shepherd, Ltd.	76	0050
Batley, Ernest, Ltd.	114	0052
Bayliss, Jones & Bayliss, Ltd.	65	0054
Benbow of Torquay, Ltd.	120	1262
Benjamin Electric, Ltd.	27	0058
Berry, Z. D., & Sons, Ltd.	11	0060
Bolton Gate Co., Ltd.	113	0078
Boot, Henry, & Son, Ltd.	56	0821
Bow Slate & Enamel Co., Ltd.	62, 130	0083
British Monoral, Ltd.	4	0097
Broad & Co., Ltd.	114	0111
Broads Manufacturing Co., Ltd.	43	0112
Broughton Moor Green Slate Quarries, Ltd.	134	0115
C.I.B.A. (A.R.L.), Ltd.	22	0736
Calders, Ltd.	63	0127
Cambridge, B. J. (Hestrite), Ltd.	119	1310
Cascolloid	35	0784
Celcon, Ltd.	110	0908
Cement Marketing Co., Ltd.	14	0136
Chloride Batteries, Ltd.	88	0141
Coal Utilisation Council	95	0147
Colt Ventilation, Ltd.	3	0152
Compactom, Ltd.	28	0153
Constructors, Ltd.	106	0157
Costain Concrete Co., Ltd.	96	1100
Danks, Edwin & Co. (Oldbury), Ltd.	102	0175
Denton Edwards Paints, Ltd.	66	0181
Dorman Long (Steel), Ltd.	48	0185
E.U.K. Catering Machinery, Ltd.	23	0160
Ellis School of Architecture	134	0202
Engert & Rolfe, Ltd.	70	0204
English Clock Systems, Ltd.	67	0205
English Joinery Manf. Assoc. (Inc.)	61	0788
Evode, Ltd.	7	0878
Expanded Metal Co., Ltd.	72, 73	0211
Expundite, Ltd.	79	0212
F.E.B. (Great Britain), Ltd.	5, 9	0216
Fablon, Ltd.	6	0213
Falk, Stadelmann & Co., Ltd.	71	0214

Federated Foundries, Ltd.	87	0217
Ferodo, Ltd.	90	0218
Fibreglass, Ltd.	55	0219
Flinkote Co., Ltd.	104	0229
Fordham Pressings, Ltd.	21	0232
Freeman, Joseph, Sons & Co., Ltd.	83	0236
Furse, W. J., & Co., Ltd.	134	0241
Gas Council	8	0246
Gent & Co., Ltd.	20	0251
Gliksten Doors, Ltd.	50	0255
Goodyear Tyre & Rubber Co. (G.B.), Ltd.	68	1116
Gregory (Hodgerley), Ltd.	134	1215
Gyproc Products, Ltd.	41	0266
Gypsum Plasterboard Development Assn.	107	0267
Harris & Sheldon, Ltd.	109	0279
Hartley, V. & N., Ltd.	19	0282
Hatherware, Ltd.	134	0691
Hattersley (Ormskirk), Ltd.	69	0846
High Duty Alloys, Ltd.	29	0292
Hill, Richard, Ltd.	39	0708
Hills (West Bromwich), Ltd.	30	0297
Hollow Seal Glass Co., Ltd.	80	0301
Holoplast, Ltd.	58, 59	0801
Hope, Henry & Sons, Ltd.	98	0309
Huntley Roome & Stevens, Ltd.	120	1259
Hy-Rib Division, Truscon, Ltd.	134	0645
Imperial Chemical Industries, Ltd.	40	0319
Kay & Co. (Engineers), Ltd.	111	0715
Kenyon, Wm. & Sons (Metamical), Ltd.	113	0982
Kerner-Greenwood & Co., Ltd.	32	0339
King, Geo. W., Ltd.	106	0342
Kings Langley Engineering Co., Ltd.	108	0120
Kirkstone Green Slate Quarries, Ltd.	134	0739
Laird, John, & Son, Ltd.	138	0345
Lanarkshire Steel Co., Ltd.	24, 25	1309
Lilleshall Co., Ltd.	117	0910
London Brick Co., Ltd.	47	0366
M.K. Electric, Ltd.	15	0416
Manger, J., & Son, Ltd.	2	0383
Marley Concrete, Ltd.	137	1135
Marley Tile Co., Ltd.	91	0398
Mellows & Co., Ltd.	105	0406
Merchant Adventurers, Ltd.	103	0407
Merchant Trading Co., Ltd.	101	0408
Merthyrware Tiles, Ltd.	89	0409
Metal Sections, Ltd.	38	0403
Morris, M. A., Ltd.	10	0914
New Stone Restoration, Ltd.	111	0794
North British Plastics, Ltd.	26	0440
Olsson, Martin (Fibreboards), Ltd.	33	0445

Peel, H., Ltd.	114	1190
Peglers, Ltd.	119	0455
Permanite, Ltd.	99	0458
Permaglaze, Ltd.	42	0459
Philips Electrical, Ltd.	17	0462
Phoenix Timber Co., Ltd.	117	1104
Pickerings, Ltd.	34	1101
Pilkington Brothers, Ltd.	60	0473
Plus-Gas Co., Ltd.	115	0725
Potterton, Thomas, Ltd.	81	0485
Precast Utilities (London), Ltd.	85	1020
Protim, Ltd.	115	0897
Pyrok, Ltd.	137	0741
Rank Precision Industries, Ltd.	115	0723
Rawlings Bros. Ltd.	116	0499
Reynolds & Co., Ltd.	36	0696
Richards, Charles, & Sons, Ltd.	118	0728
Roller Shutters, Ltd.	48	0517
Savage & Parsons, Ltd.	12, 13	0539
Seaboard Lumber Sales Co., Ltd.	53	0542
Shannon, The, Ltd.	74	0549
Shell Chemical Co., Ltd.	44	0904
Simplex Concrete Piles	121	1157
Sissons, W. & G., Ltd.	116	0563
Sommerfelds, Ltd.	112	0576
Stewart & Gray, Ltd.	37	0600
Swedish Perstop	51	0612
T.G. Fencing, Ltd.	134	1184
Tanks & Linings, Ltd.	108	0616
Technigraphic Bristol, Ltd.	120	1198
Temperature, Ltd.	52	0746
Tentest Co., Ltd.	46	0627
Thermacoust, Ltd.	82	0629
Thompson, John, Ltd.	49	1269
Thorp, John B.	134	0633
Troughton & Young (Lighting), Ltd.	100	0610
Tullis, D. & J., Ltd.	134	1161
Tunnel Portland Cement Co., Ltd.	75	0647
Turners Asbestos Cement Co., Ltd.	77	0644
Unistrut Division of Sankey-Sheldon, Ltd.	97	1242
United Ebonite & Lortival, Ltd.	50	0803
Venesta Plywood, Ltd.	86	0816
Wall Paper Manufacturers, Ltd.	16	0671
Ward Brothers (Sherburn), Ltd.	45	1192
Ward & Co. (Letters), Ltd.	120	0676
Wareing Bros. & Co., Ltd.	113	0679
Weatherfoil, Ltd.	84	0684
Weil, Joseph, & Son, Ltd.	118	1021
Wiggins-Sankey, Ltd.	137	1018
Wright, John, & Sons, Ltd.	31	1170
Yale & Towne Manufacturing Co.	18	0749

Write in block letters, or type, your name, profession, and address below, and fold so that the post-paid address is on the outside.

NAME

PROFESSION

ADDRESS



Everyone loves a Terrace!

In fact, a terrace *makes* a property; and in the word 'Terrace' is included every kind of garden construction—drives, walls, copings, surrounds and paths. Marlite is a very 'natural' man-made paving imparting distinction, even to a site which might otherwise be insignificant. It is easy to lay, uniform in size and colour, non-slip and economical. The five mellow colours in a wide range of sizes—12 in all—give the architect almost unlimited scope.

MARLITE PAVING



MARLEY CONCRETE LIMITED Dept. T2/18

Peasmarsh, Guildford, Surrey. (Head Office) Guildford 80171
Shurdington, Cheltenham, Glos. Shurdington 334/5
Waterloo, Poole, Dorset. Broadstone 911/2
London Showrooms: 251 Tottenham Court Road, W.1.



Regd. Trade Mark

for FIRE PROTECTION
SOUND ABSORPTION
THERMAL INSULATION
EXTERNAL PROTECTION
COLOUR DECORATION and
ANTI-CONDENSATION TREATMENTS

Pyrok has been used successfully in

SWIMMING BATHS
BREWERIES
KITCHENS
DAIRIES
SCHOOLS
FACTORIES etc.

For further details of the treatment and of the properties of Pyrok apply to :

PYROK LIMITED

401-404 Montrose Avenue,

Slough

Tel.: Slough 24601

2-5 Old Bond Street, W.1

Tel.: HYD 1491



grace economy speed

architects with
a firm grasp of
handrails specify

MIPOLAM

thermoplastic handrail covering

Applied with heat, it takes the true line to bends and angles down to 2" internal radius. It is shaped to a natural handgrip, and can be installed with matt or gloss finish in two sizes and seven colours. For further details apply to main distributors;

WIGGINS-SANKEY LIMITED

Wyfold Road, London SW6. tel: FULham 1250

23-storey flats in the City of Westminster

High above the City of Westminster, London's tallest block of flats, the 23-storey, 212 ft. Hide Tower, Hide Place, Westminster, is due for completion in June.

Speed and economy of construction have been achieved by efficient design; the superstructure up to second floor level is of *in situ* reinforced concrete; above this, precast concrete frame units, lifted by tower crane, are anchored by precast reinforced concrete floor slabs to a central core which runs the full height of the building and contains the lift well, refuse chutes and central landing. The reinforced concrete cladding panels, which are faced with Norwegian quartz white crystal exposed aggregate, have been designed for fixing from within - dispensing with the need for scaffolding.

Hide Tower will accommodate 160 flats on 20 floors, above a double-storey height open ground floor, and surmounted by a single-storey laundry and club room. Two high-speed inter-connected lifts will serve all floors.



Director of Housing, City of Westminster,
E. J. Edwards, F.R.I.B.A., F.R.I.C.S., F.Inst.Hsg
Architects: Stillman and Eastwick-Field
Structural Engineers: Charles Weiss and Partners
Quantity Surveyors: Harry Trinick and Partners

LAING

John Laing and Son Limited Great Britain and Overseas

