

# 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*

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*Information Sheets*

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*Working Details*

*Questions and Answers*

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## 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. 3443]

[Vol. 133

THE ARCHITECTURAL PRESS

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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. 31, Chester Terrace, N.W.1.	Welbeck 0619
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.	Macaulay 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
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

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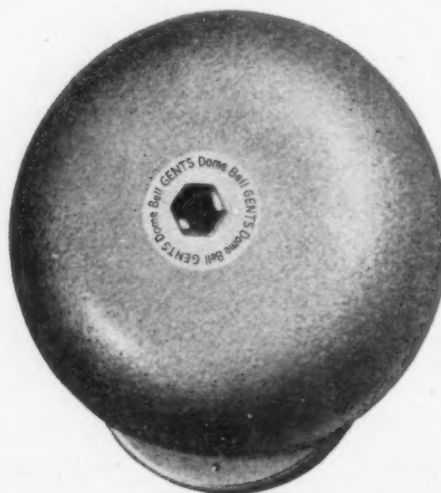
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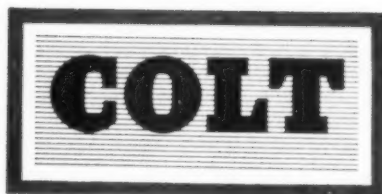




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Solution:



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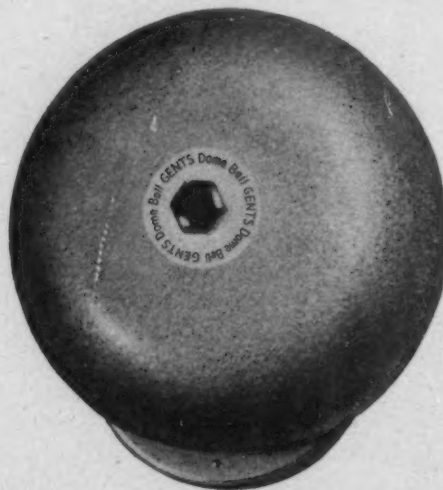
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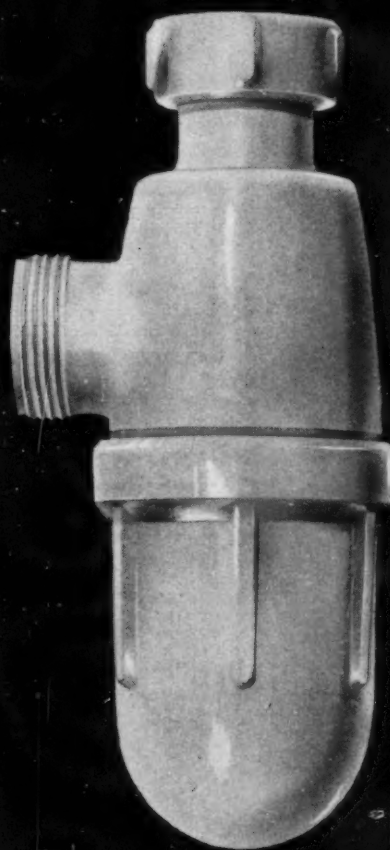
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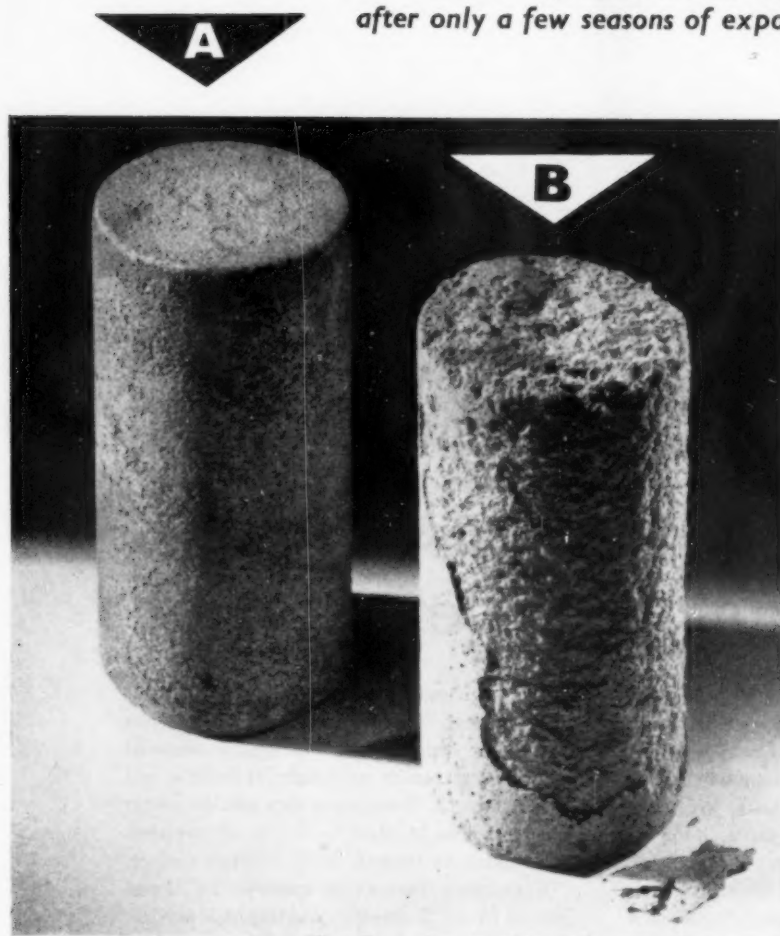


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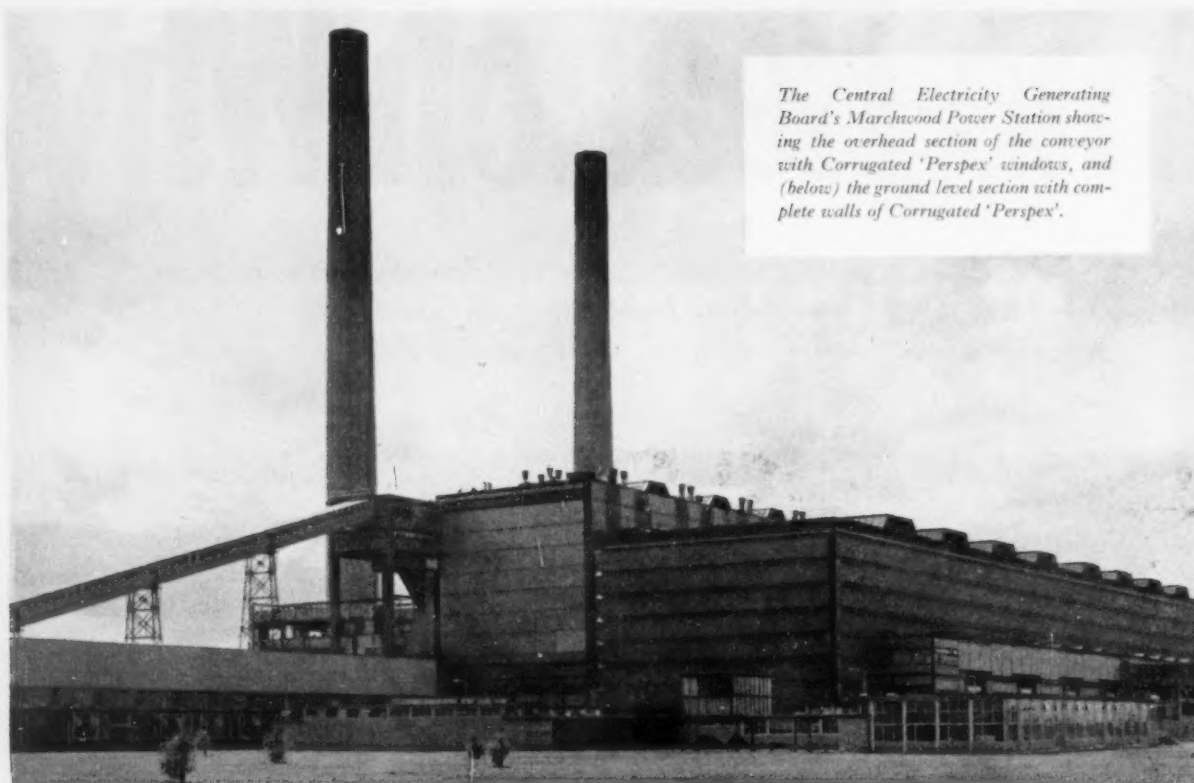
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*The Central Electricity Generating Board's Marchwood Power Station showing the overhead section of the conveyor with Corrugated 'Perspex' windows, and (below) the ground level section with complete walls of Corrugated 'Perspex'.*

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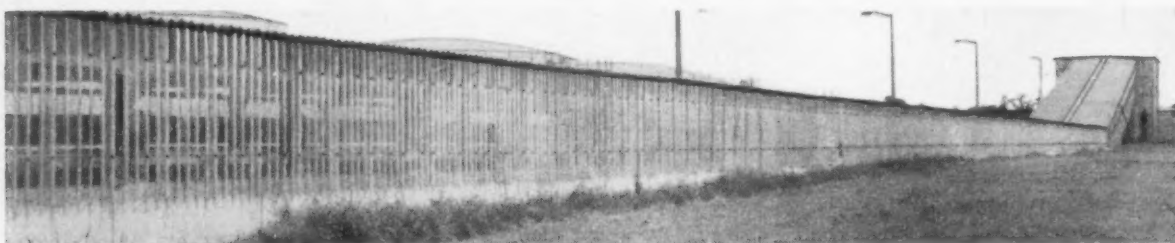
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Insist on — **CORRUGATED 'PERSPEX'**

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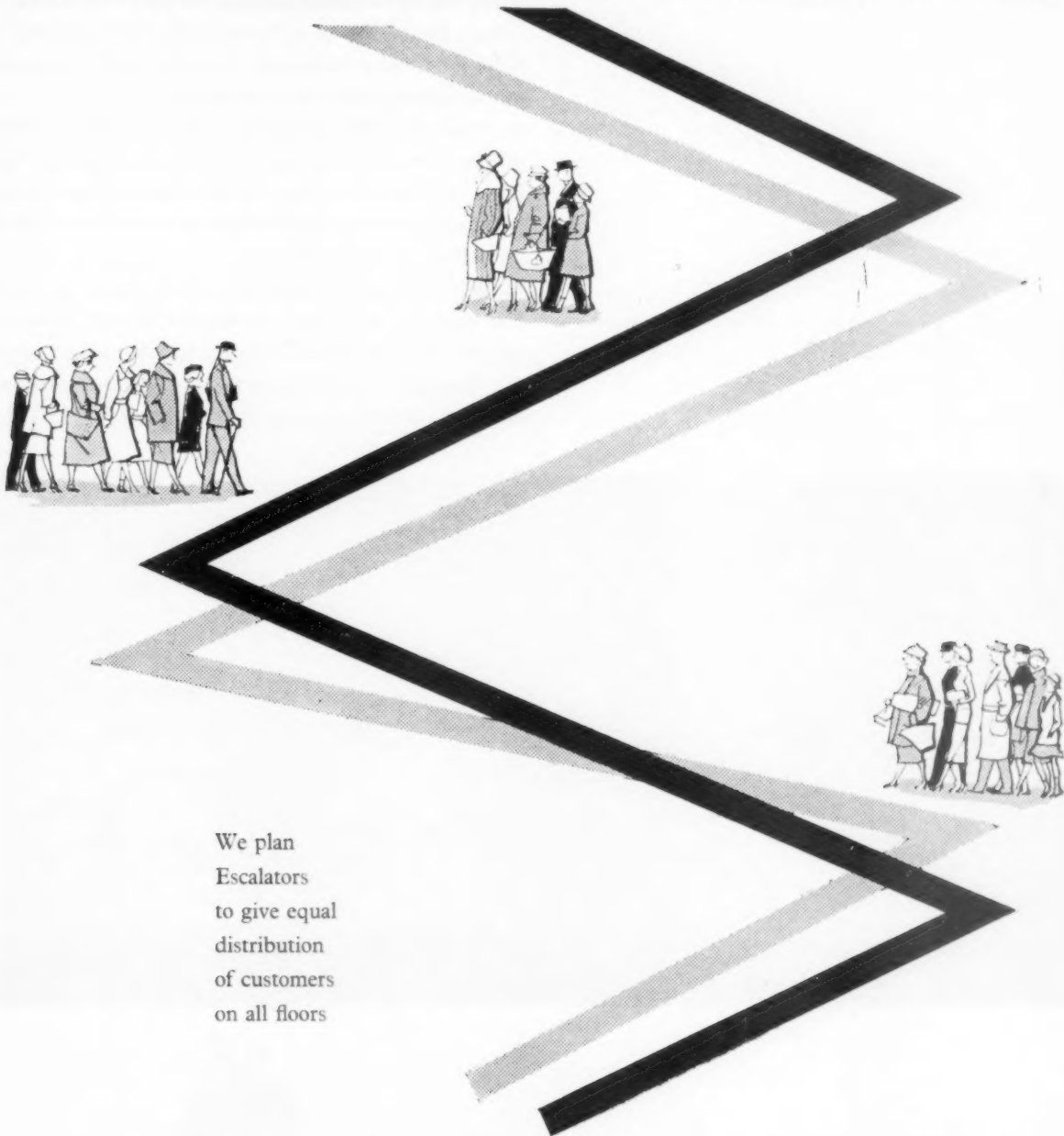
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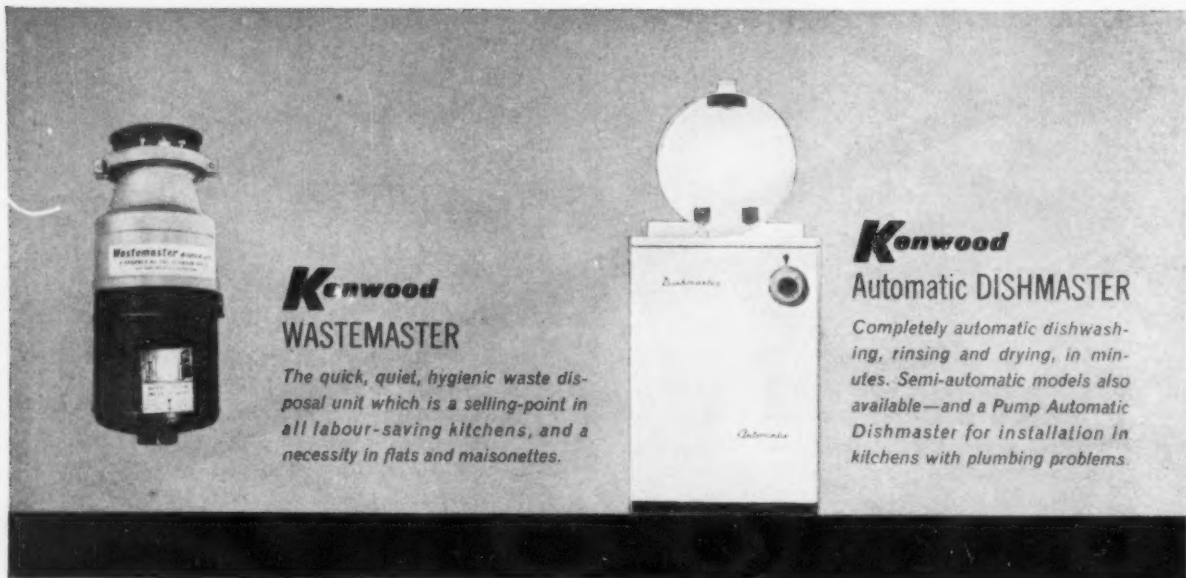
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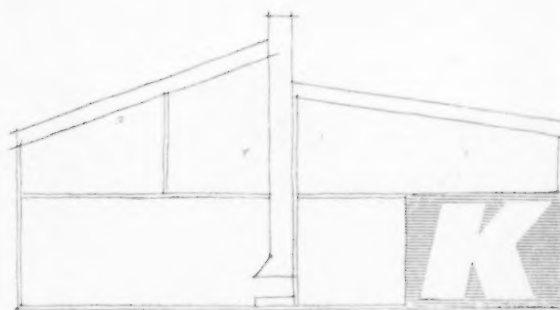
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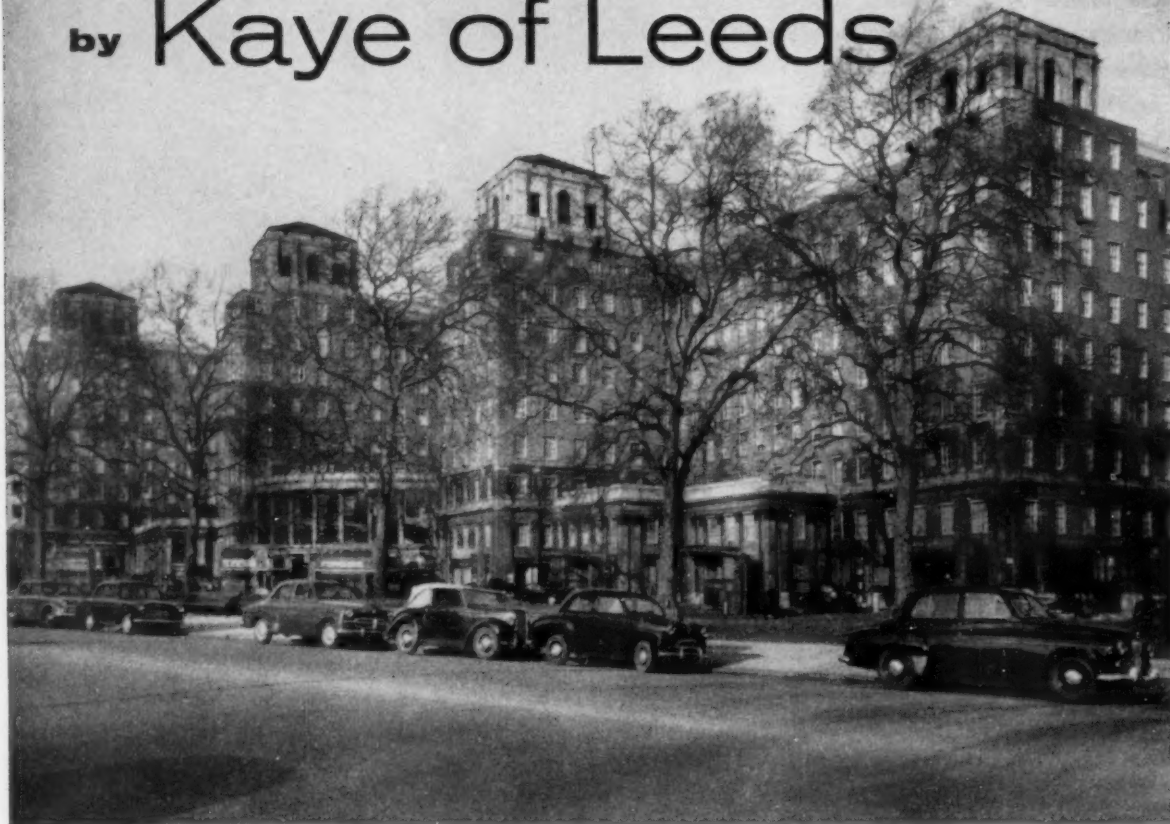
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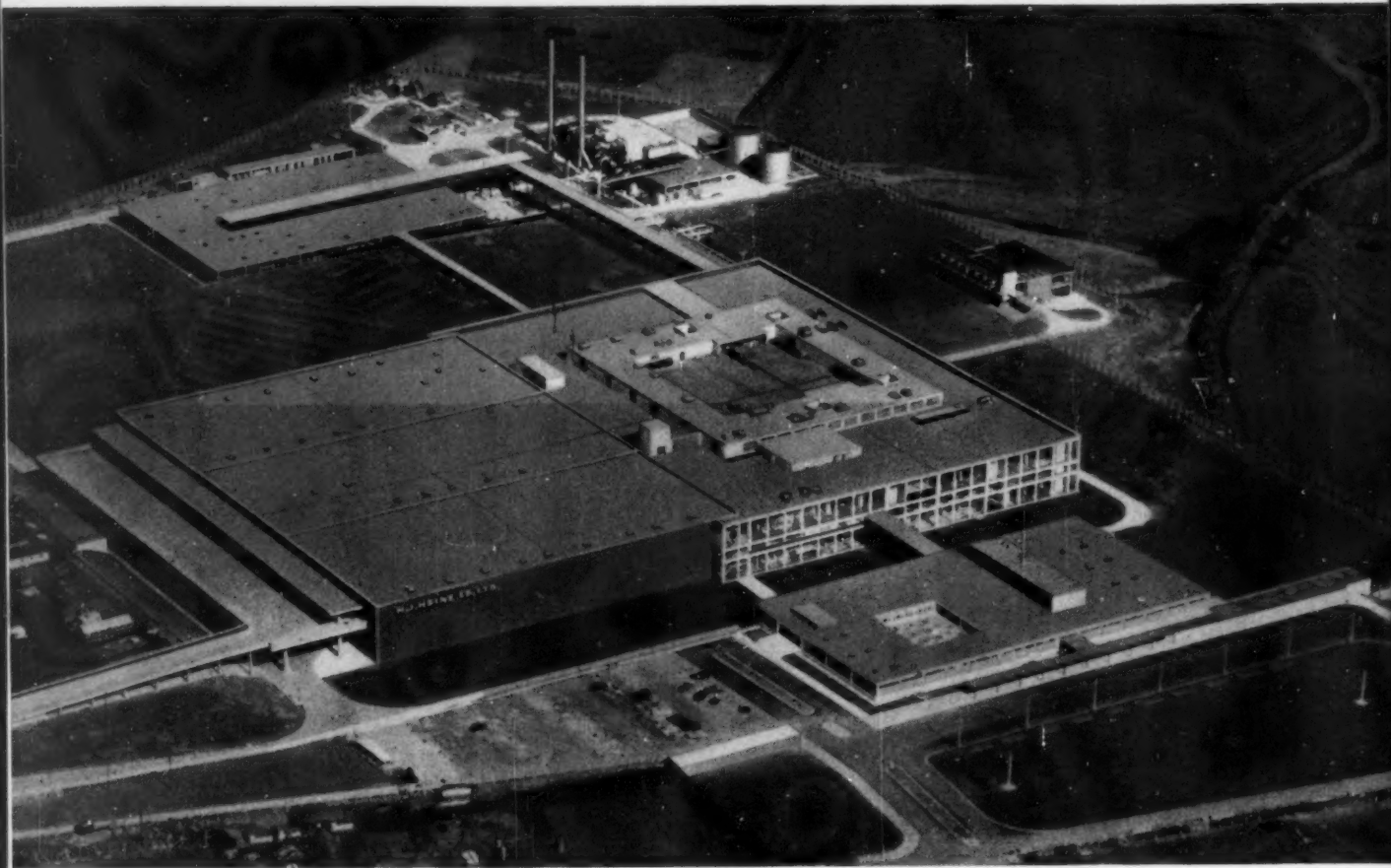
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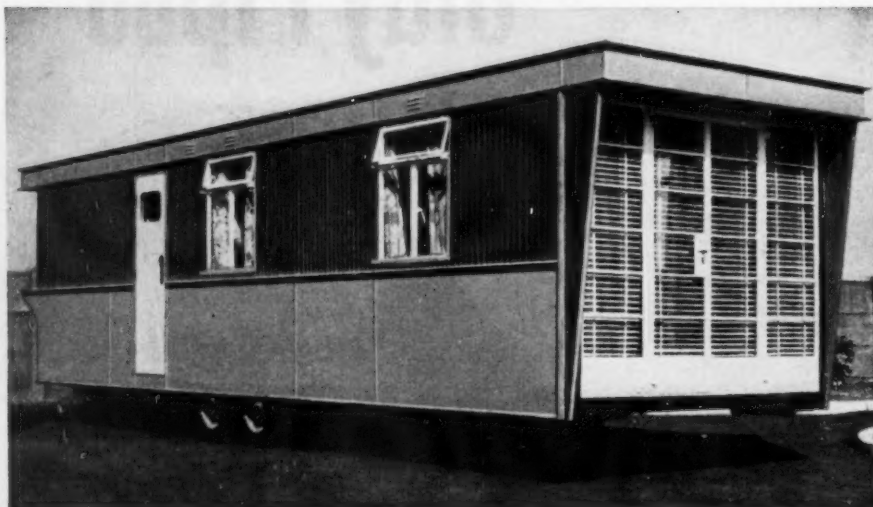
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● EASY TO USE—place matter for disposal in Warden—burning cycle commences and ends automatically.

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● ADJUSTABLE TIMING—Automatic burning cycle can be varied to suit requirements.

● EASY TO INSTALL.

● GUARANTEED for 12 months.

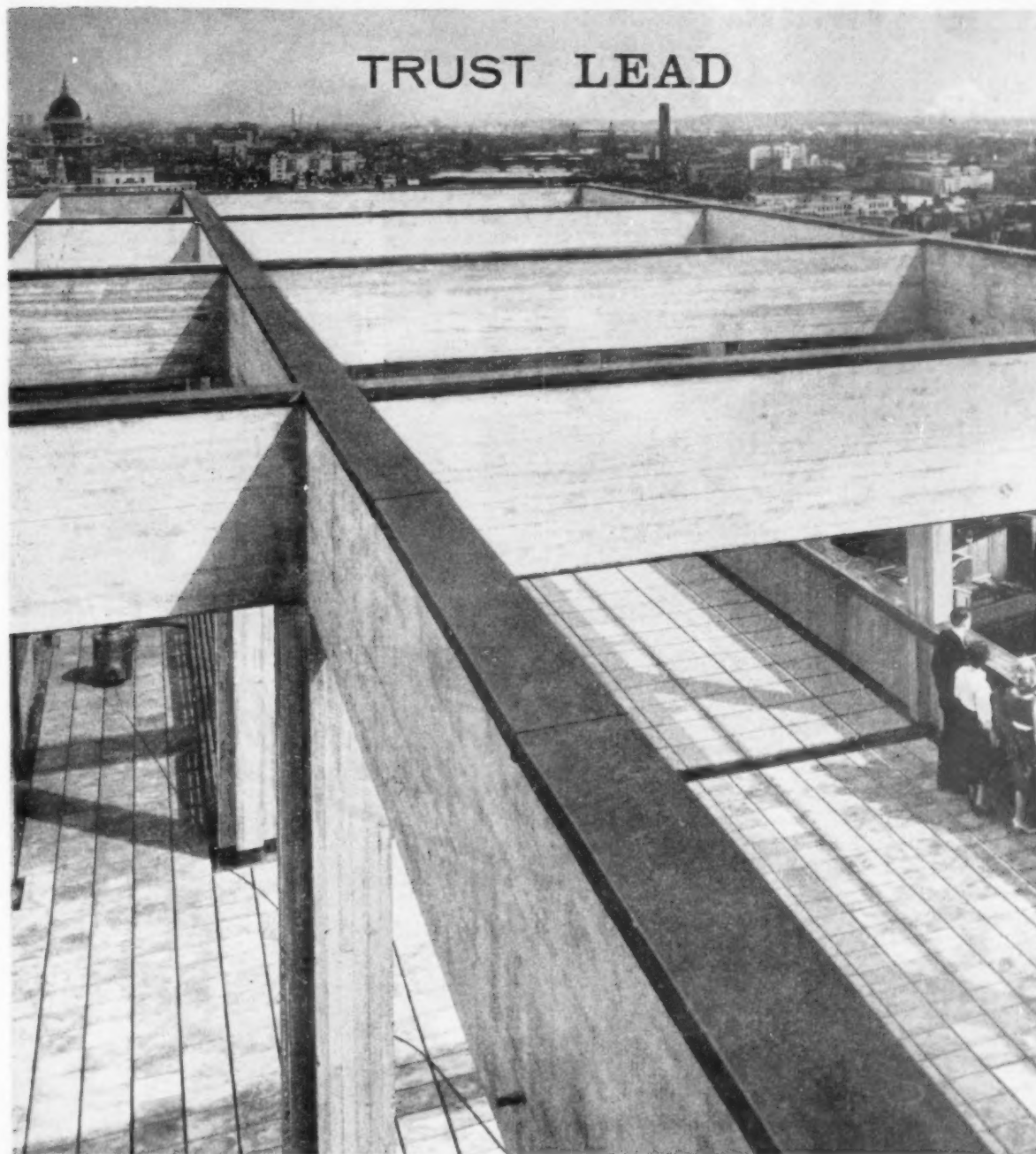
● DESCRIBED FULLY in new Incinerator Booklet. Burning Test Report gives detailed performance figures. Send for copies now.

The only incinerator  
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**For advice** on the use of lead in building work . . .

Most of the many uses are detailed in the Association's publications, and in addition the Bureau's technical officers are always glad to give individual assistance.

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Telegrams: Leadevop, Lond. Telephone: Whitehall 4175

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*Telephones and Telegrams - Sherburn 355 and 356*

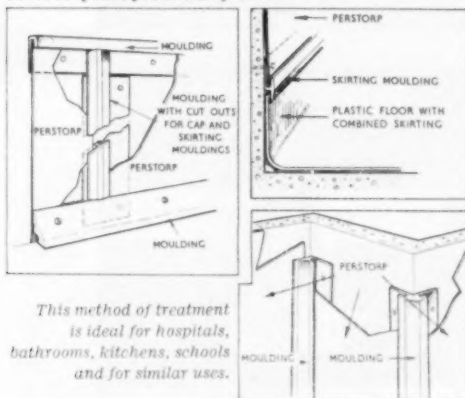
# SWEDISH PERSTORP DATA SHEET 4

## FIXING PERSTORP TO WALLS AND PARTITIONS

- 1 Walls should be made smooth.
- 2 Plastered walls should contain cement and be dry.
- 3 Any timber studs should be aligned with joining strips.
- 4 Before mounting, Perstorp should be stacked for 3 days, outer surfaces together—with sheets of newspaper soaked in water between them. The panels may buckle but after keeping for 1 hour at room temperature they will again be flat and easy to handle.
- 5 On wood framing ordinary nails may be specified. On plastered and brick walls specify steel nails. Otherwise drill and plug. The distance between nails should not exceed 10".
- 6 If the wall is good, it is possible to stick Perstorp straight on to it. Otherwise you should use normal blockboard and wooden batten type of construction with mouldings. Standard wood mouldings can be specified but metal insertion mouldings are specially recommended. There are many to choose from—we are illustrating some appropriate ones.

## MOUNTING PERSTORP USING MOULDINGS

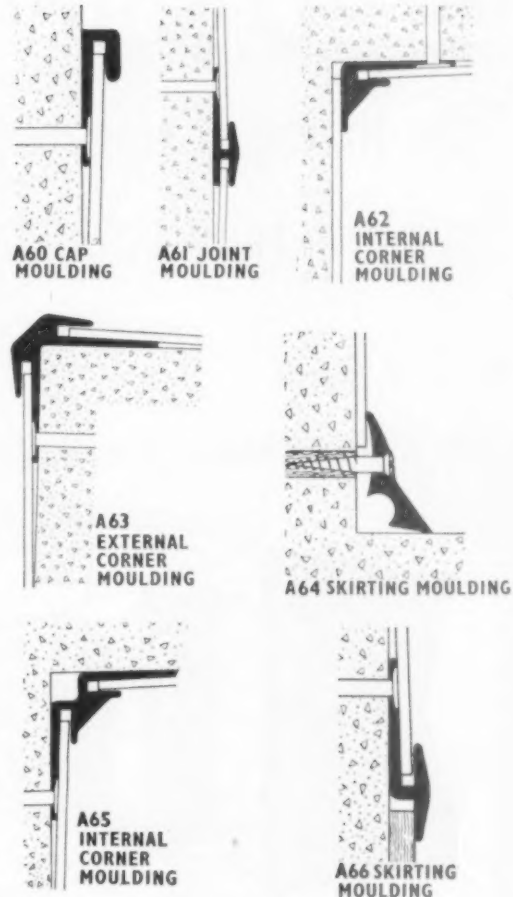
- 1 Where Perstorp is to reach floor, prepare skirting and walls to take countersunk screws.
- 2 Pre-cut joint and cap mouldings (A60 & A61).
- 3 Set up cap moulding. Fix a vertical joint moulding in middle of wall span.
- 4 Apply impact adhesive to wall and back of Perstorp leaving 6" strip round edge of Perstorp uncovered. When sufficiently dry fix in place against mouldings.
- 5 Fix next vertical joint leaving 1/8" for clearance and repeat.
- 6 At corners use mouldings A62 and A63.
- 7 When applying panels with fixed mouldings on 3 sides first bend outwards and slip into vertical mouldings before bending top into place. Glass worker's suction discs are a great help.
- 8 Finally, screw on skirting, using rubber cement or mastic to waterproof joint if required.



## CUT OUT THIS PAGE AND PLACE IT ON FILE

Swedish Perstorp Data Sheet 5 gives you information about BUILDING PARTITION WALLS

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



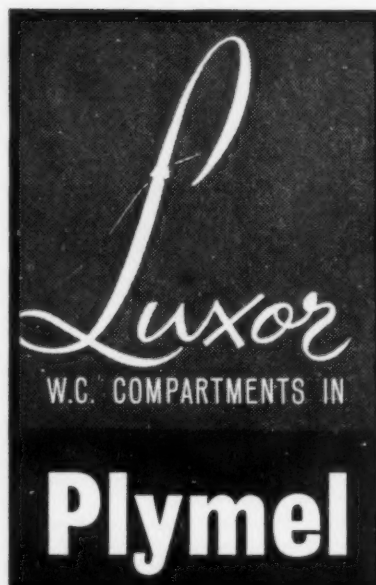
## PERSTORP DISTRIBUTORS

<b>London &amp; Home Counties</b> 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.	<b>N.E. England</b> A. J. Wares Ltd., King Street, South Shields. <b>N.W. England &amp; North Wales</b> Heaton Tabb & Co. Ltd., 55 Bold Street, Liverpool, 1.
<b>West Country &amp; South Wales</b> Channel Plastics Ltd., Flowers Hill, Brislington, Bristol, 4.	<b>Scotland</b> G. & R. (Boards & Plastics) Ltd., Rivalsgreen Works, Linthgow, West Lothian.
<b>Midlands Area &amp; East Anglia</b> Rudders & Paynes Ltd., Chester Street, Aston, Birmingham, 6.	<b>N. Ireland</b> John McNeill Ltd., 109 Corporation Street, Belfast.

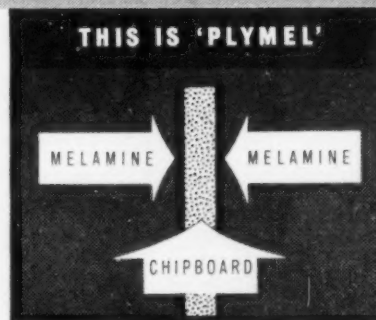


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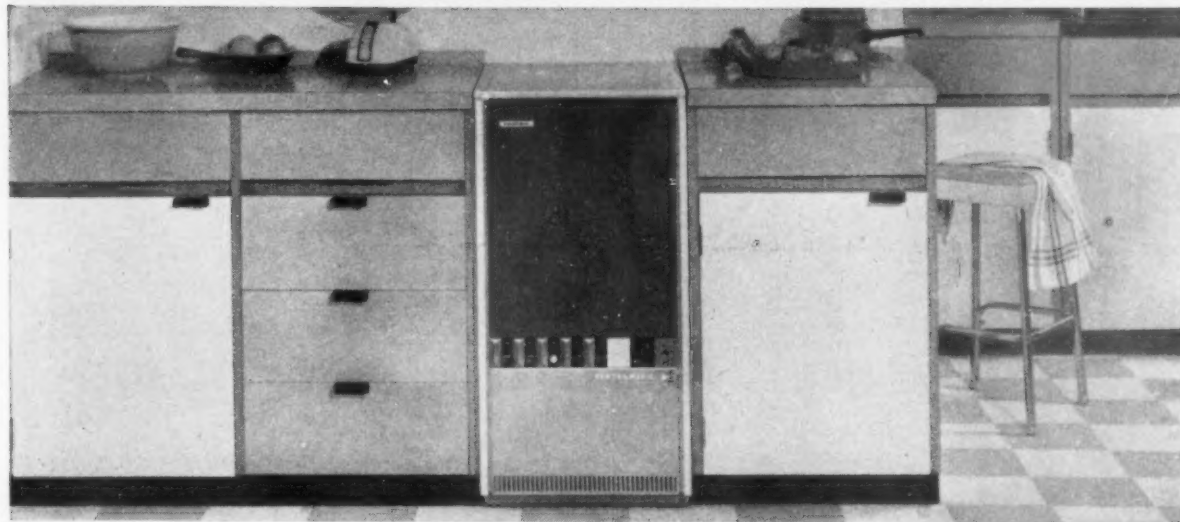
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Vintry House, Queen Street Place,  
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From the makers of the 'Redfyre' Centramatic 50 and 80 comes the

# REDFYRE CENTRAMATIC 35



fully automatic oil-fired boiler—specially designed for smaller houses

## Unique automatic control system

Indicator lights on the Redfyre Centramatic 35 act as a constant reminder of the temperature selected by the user and the boiler is automatically operated to this setting by a sealed printed-circuit control unit. When the correct temperature is reached, the boiler switches itself off.

## Exceptional fuel economy

When heat is needed the Redfyre Centramatic 35 lights itself electrically and reaches full operating efficiency almost at once. No pilot flame or low-pressure 'idling' to dribble away the fuel wastefully.

## Perfect for the kitchenette

The Redfyre Centramatic 35 has dimensions to fit the smallest kitchen. The attractive enamelled casing is in white or cream; the bottom front panel is anodised aluminium; and for the easily interchangeable top front panel there is a choice of: Atlantic Grey, Nursery Blue, Eau-de-Nil, Flame Red, Cream, White, Buttercup, and Lilac. And because the 35 is totally enclosed, permanently installed, and fed with oil from outside the house, it is of course always safe.

## Automatic combustion

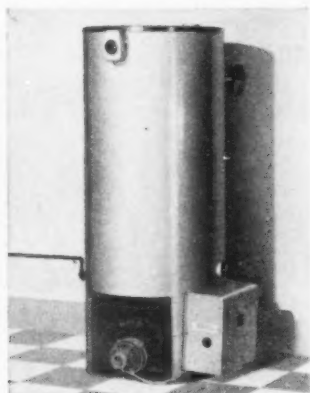
The Redfyre Centramatic 35 does not rely on a good constant chimney draught to provide air for correct combustion. The fan on the unit does this and a 5" diameter chimney flue (top or back outlet) with some updraught is all that is needed.

## Brief specification

Output — 35,000 B.Th.U's/hr. continuous rating (water transfer). Overall size — 36" high x 18" wide x 21" deep. Steel boiler with 1½" B.S.P. tapings.

**Retail price of the Redfyre CENTRAMATIC 35 is £89**

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*The Redfyre Centramatic 50*

Newton Chambers and Company Limited, Redfyre Products, Thorncliffe, Sheffield  
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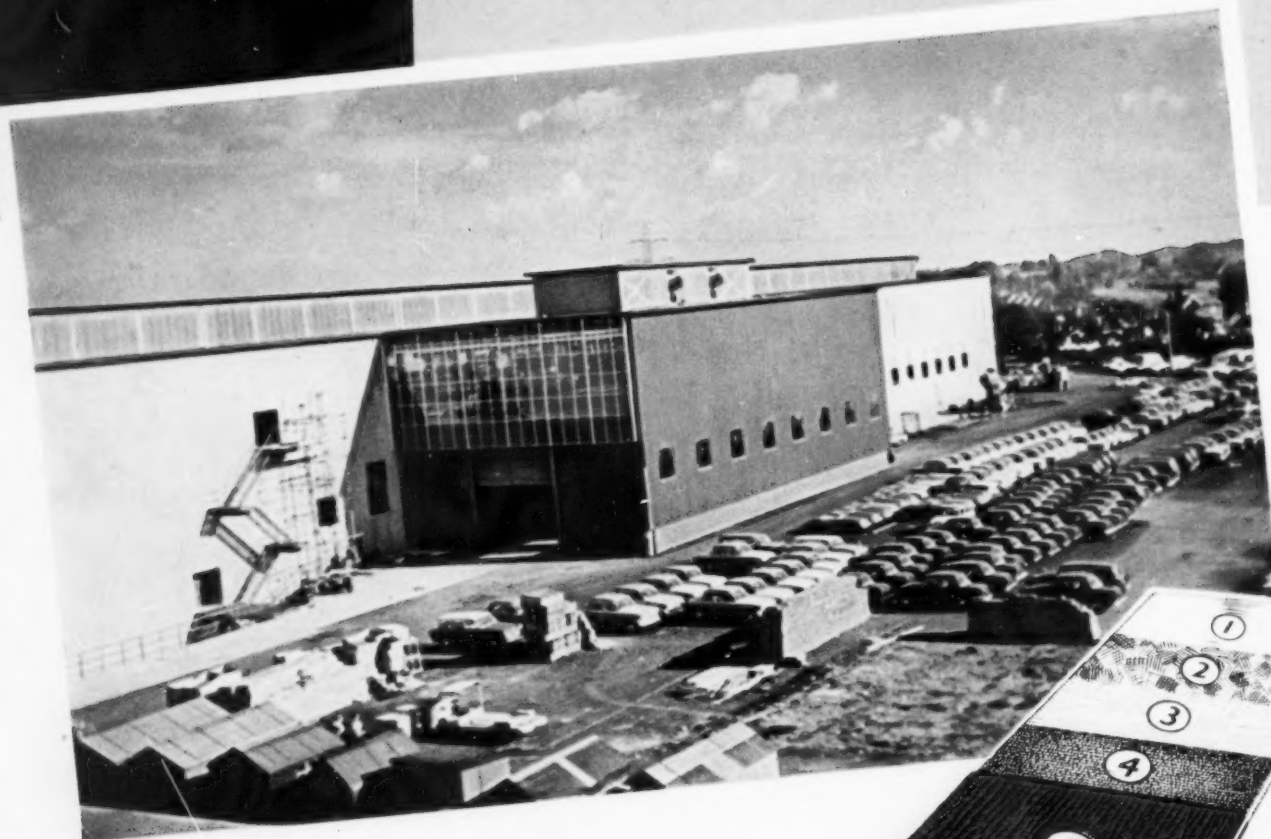
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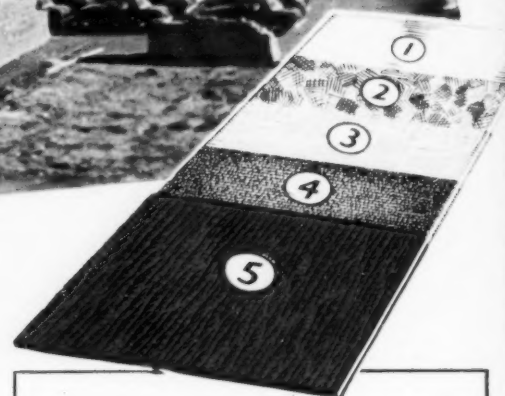


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Our picture above shows part of the Main Assembly Hall at the Standard-Triumph Company Factory, Canley, Coventry. **COLOUR GALBESTOS** has been extensively used at this plant.

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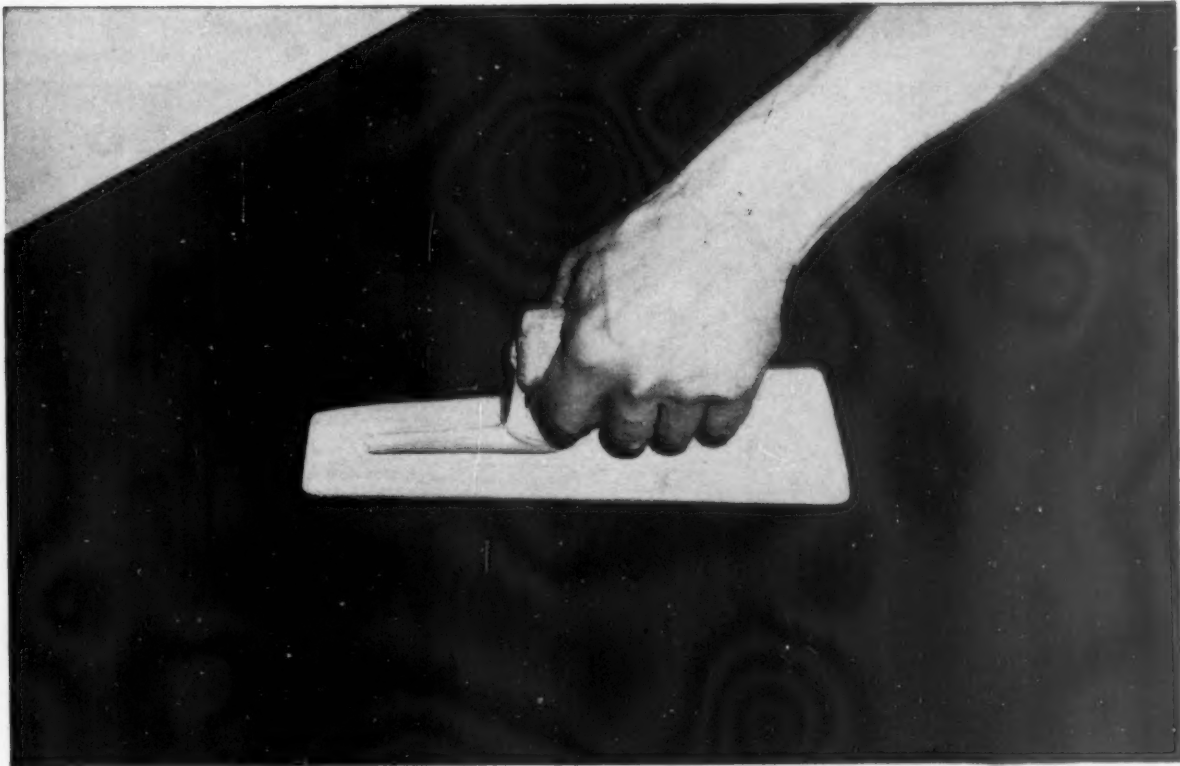
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# WOULD YOU BELIEVE IT?



When specifying a coloured cement floor, a coloured wall rendering or joints in brickwork, ensure that the colouring agent to be used conforms with British Standard. In doing so, you may avoid specifying a product that contains adulterants and cheap earth colours.

A material cheaper than the pure pigment is added, but the adulterant plays no part in producing colour, and high proportions of this type of colouring compound must be used to stain the concrete to which it is added. Consumer cost is thus increased and strength of the concrete or mortar is reduced.

For example, to stain concrete to a brick red shade, only 3 lbs. of Febtone are required per cwt. of cement. In contrast, if an adulterated colour is used, the proportion of colour may have to be increased up to 10 lbs. per cwt. of cement to form the same shade.

The reason for this is easy to see—because the colouring matter of Febtone consists of pure pigment, free from adulterants, it conforms with British Standard 1014—1942, Type A, and in consequence maximum staining power is obtained with a relatively small amount of colour.

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Febstone Shade Card**

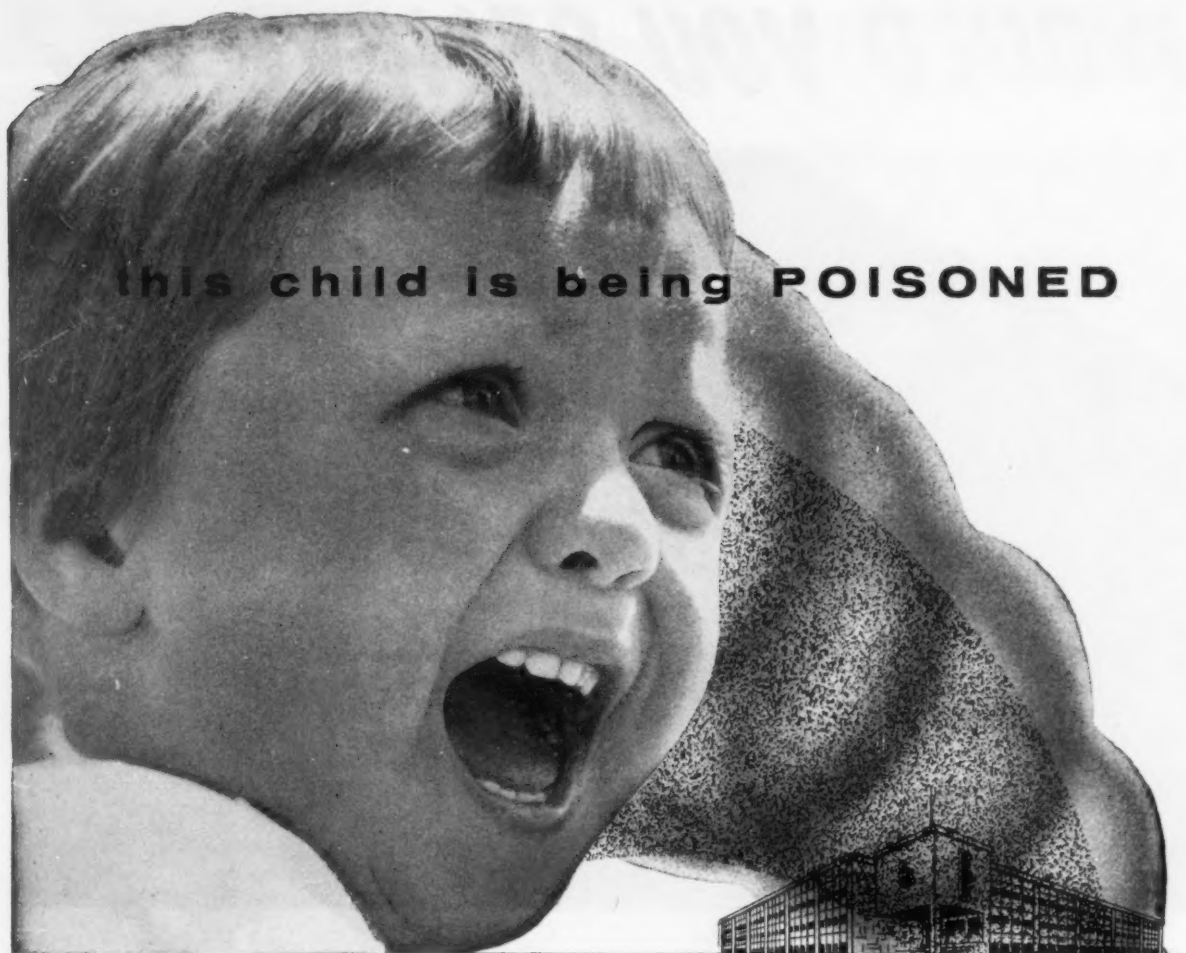
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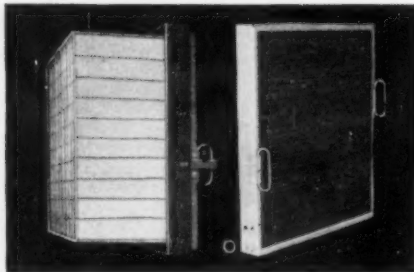
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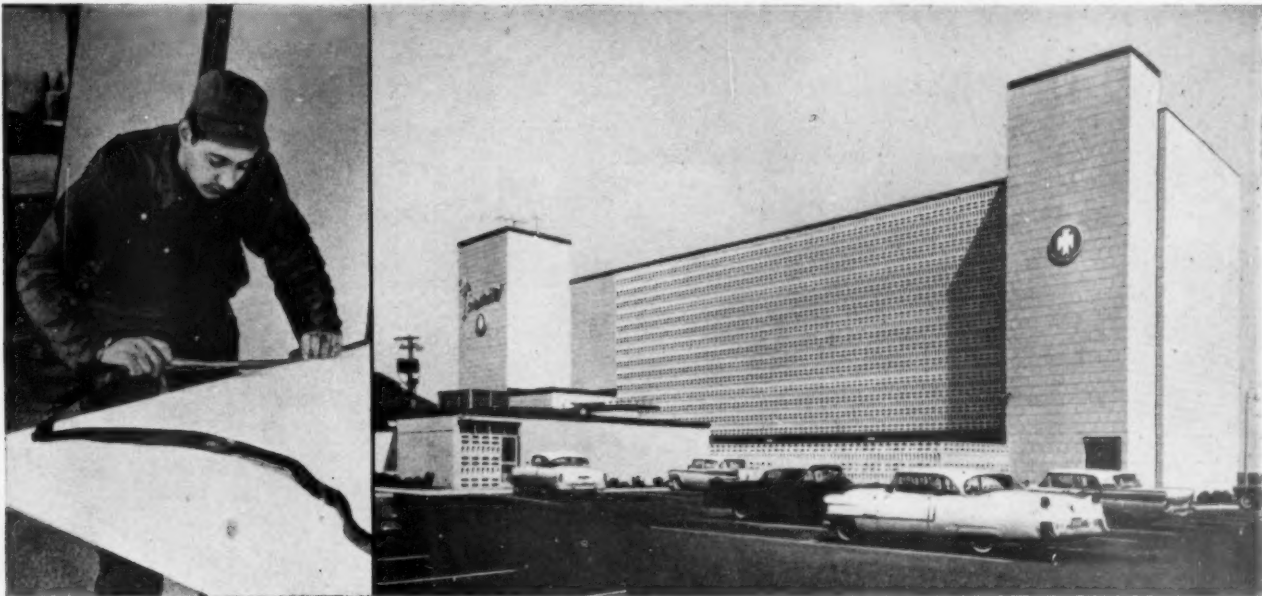


**FIT FAR-AIR FILTERS**



*The illustration shows a standard panel filter and an H.P. After Filter—full details in Barbour Index File 28.*

# Build better with Du Pont ELASTOMERS



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Weatherproof coating of "Hypalon" over concrete provides colourful exteriors . . . lasting protection against sun, weather and ozone attack.

The Du Pont elastomers — neoprene, and Hypalon\* synthetic rubber — make for better buildings by assuring utmost quality and longest life in a variety of building products. Du Pont neoprene and "Hypalon" have proved outstanding in resistance to sunlight, heat, extremes of climate and weather, oil and grease, stress and strain, and other deteriorating influences which

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**FLOORING**—durable floor tile of "Hypalon" retains its colour, will not shrink, much more stable dimensionally, resists heat, flame, cigarette burns, permanent indentations, and strong oxidizing chemicals.

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\*Hypalon is Du Pont's registered trade mark for one of its synthetic rubbers.



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Architects' Journal 4/61

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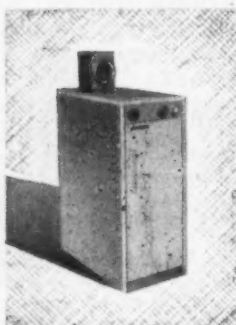
You will see how the installation costs of a system employing equipment to use SUNBRITE Hard Coke are considerably cheaper than with any other fuel system. Running costs are lower, there are no regular maintenance charges, and solid fuel boilers are trouble-free.

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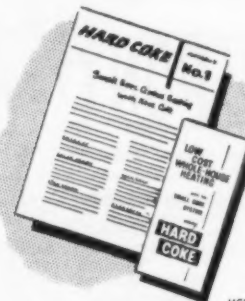
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Address .....

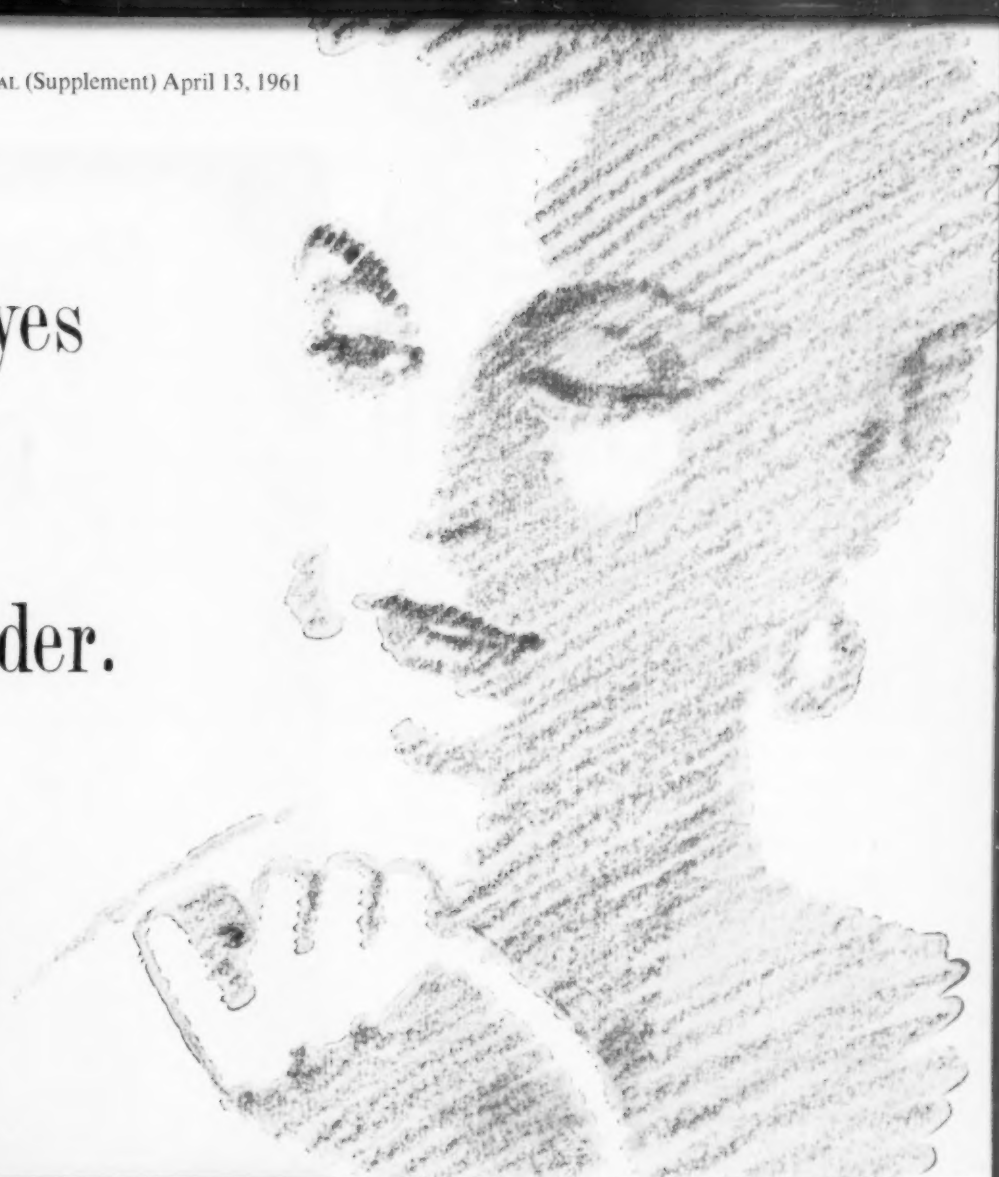
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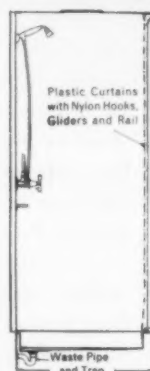


### Standard fittings

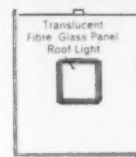
Anti-scald hot and cold mixer unit with single handle operation. Choice of fixed swan neck spray tube or flexible spray tube with 2 wall brackets. Natural colour plastic curtains with nylon hooks, gliders and rail. Chromium plated robe hook. Chromium plated soap dish. Fibre glass roof light. Chromium plated waste and copper waste trap. Plug.

Price complete: £53

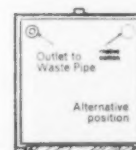
Minus mixer and spray with back panel undrilled: £42



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- is of course RUBBER BASED giving the invaluable RESILIENT BOND.\*
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- is probably EASIEST TO APPLY of all tile adhesives.
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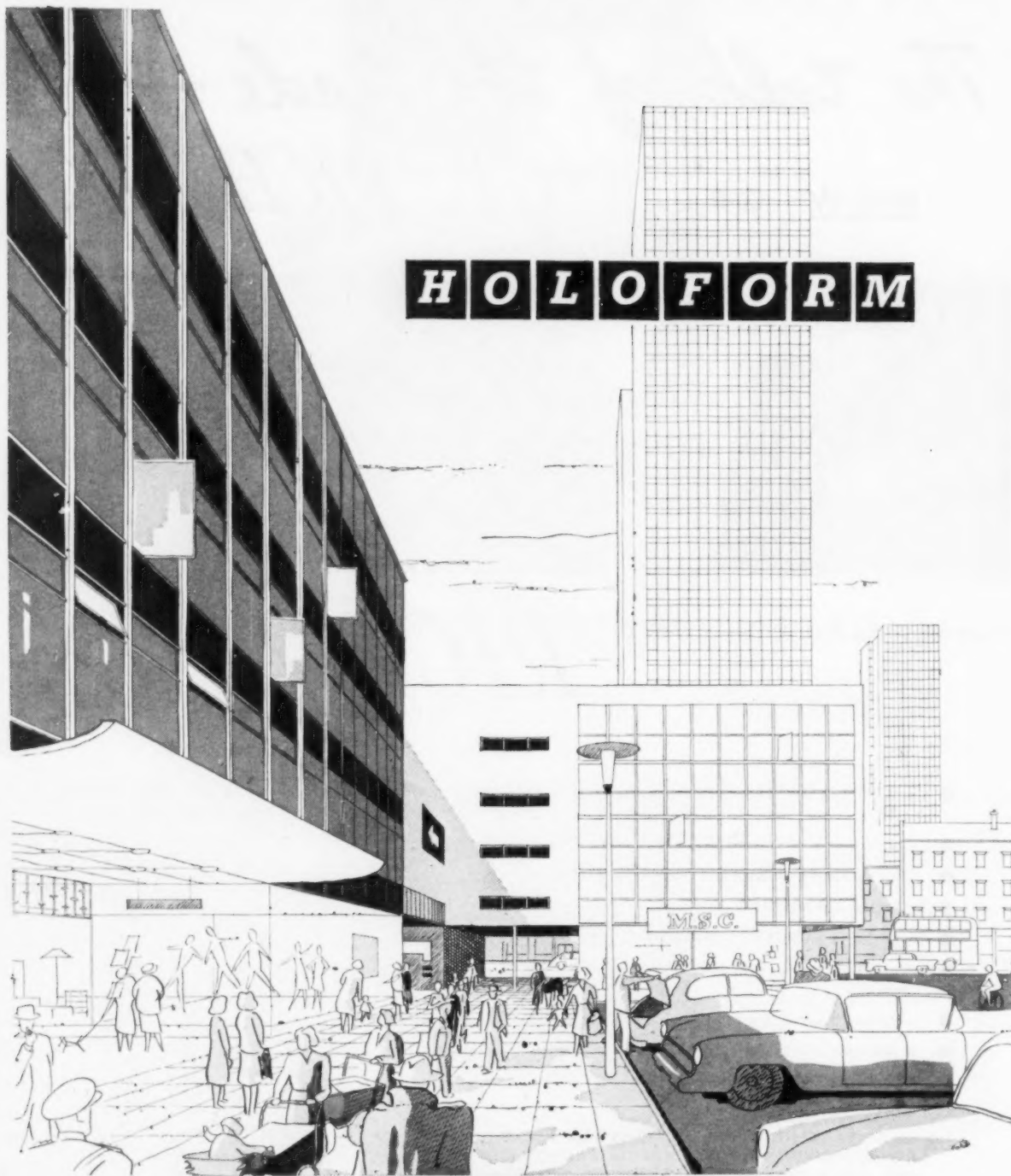


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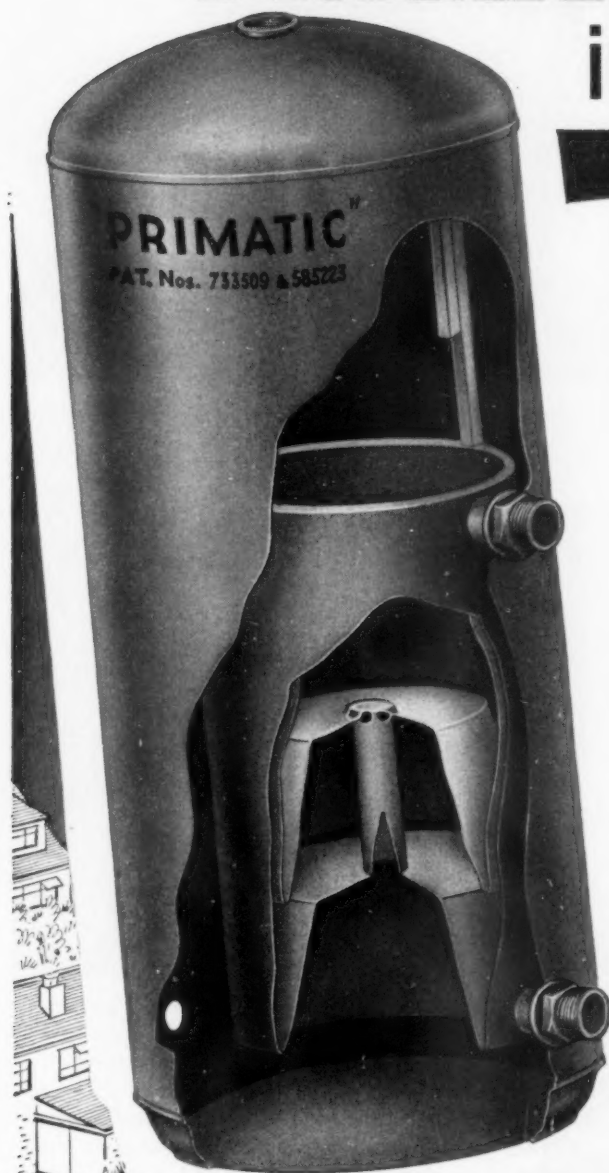
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Small Bore Pipe Heating requires an indirect cylinder.

The PRIMATIC Copper indirect cylinder is outstanding for this purpose.

ECONOMICAL for a new installation because it requires only one cold feed tank which means:-

LESS PIPEWORK, LESS FIXING  
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PERFECT when altering an existing system from direct to indirect heating because it requires PRACTICALLY NO ALTERATION TO THE PIPEWORK.

An immersion heater can be operated in the primary circuit if required. This prevents scale deposit on the heater in hard water areas.

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Manufactured from Copper Sheet to B.S.899.

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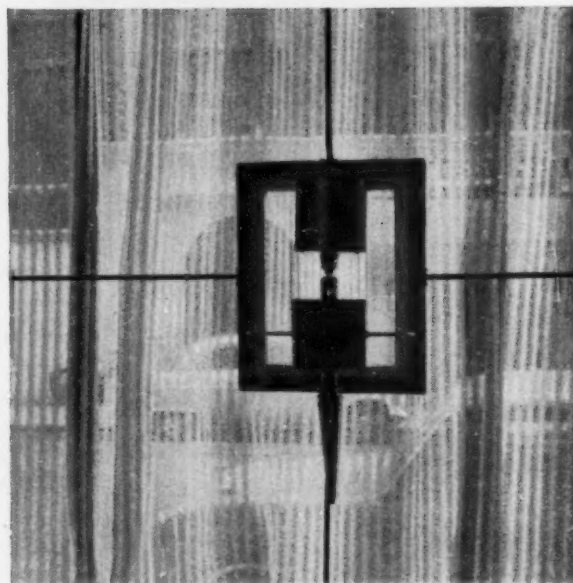
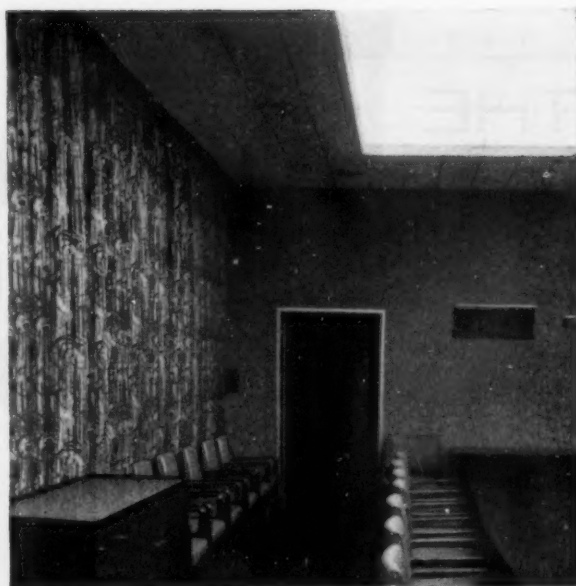
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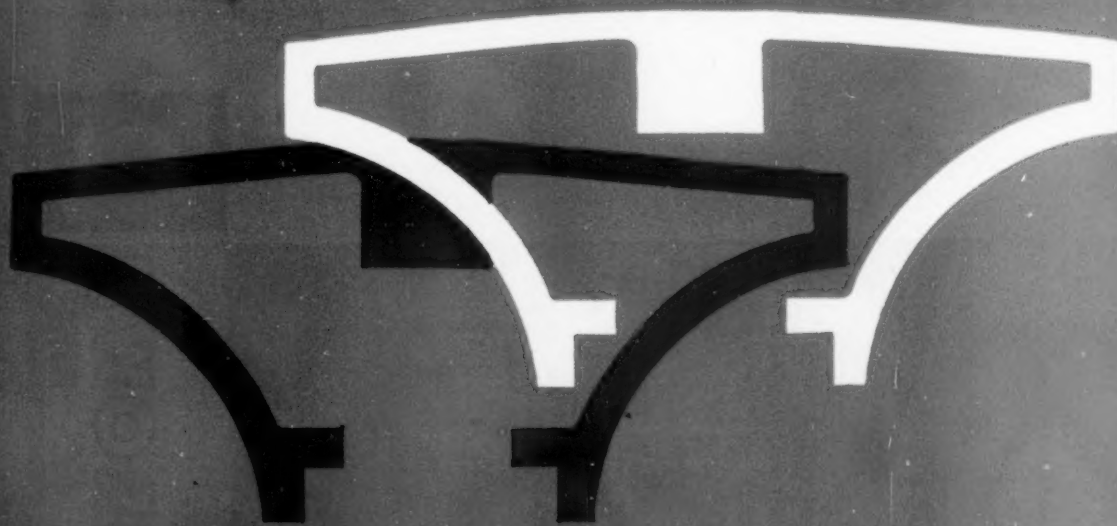
Vetrona is the furnishing fabric without peer. For display work, for contract work and for domestic design it has unique advantages. It is stable (cannot shrink, crease or droop); it is hygienic (it cannot absorb dirt, drip-dries in minutes and never needs ironing). Because it is made of glass Vetrona literally *cannot burn*. And it is charming. In all its many weights and designs, Vetrona filters and reflects

light in the most attractive manner, while yet preserving privacy. Translucent, falling in rich folds, it gives space and splendour wherever it is hung. Above you can see three examples of Vetrona in displayed use; in the Thermoplastics Ltd Stand at the Ideal Home Exhibition (1960), in the Ford Motor Works Conference Room and in the Cocktail Bar of the Mayfair Hotel, London W1.

# VETRONA<sup>REGD</sup>

the fabric made of glass

*Vetrona Fabrics Limited, 90 Great Bridgewater Street, Manchester, 1*



Modern elegant design can often be enhanced by the use of Delta Bronze No. IV. Here is a new bridge at Cambridge, for example, which combines modern design with traditional elegance and is all the more attractive for the use of bronze. Delta Bronze No. IV has great strength, long lasting corrosion-resistant qualities and requires no machining. Extruded sections are always clean and smooth, resulting in maintenance free construction. No wonder more and more modern architects are specifying Delta Bronze.

THERE'S  
BEAUTY

IN  
BRONZE



*Photograph reproduced by courtesy of 'The Times'*

The New Garret Hostel Bridge, Cambridge, uses hand rails and balustrade of Delta Bronze No. IV.

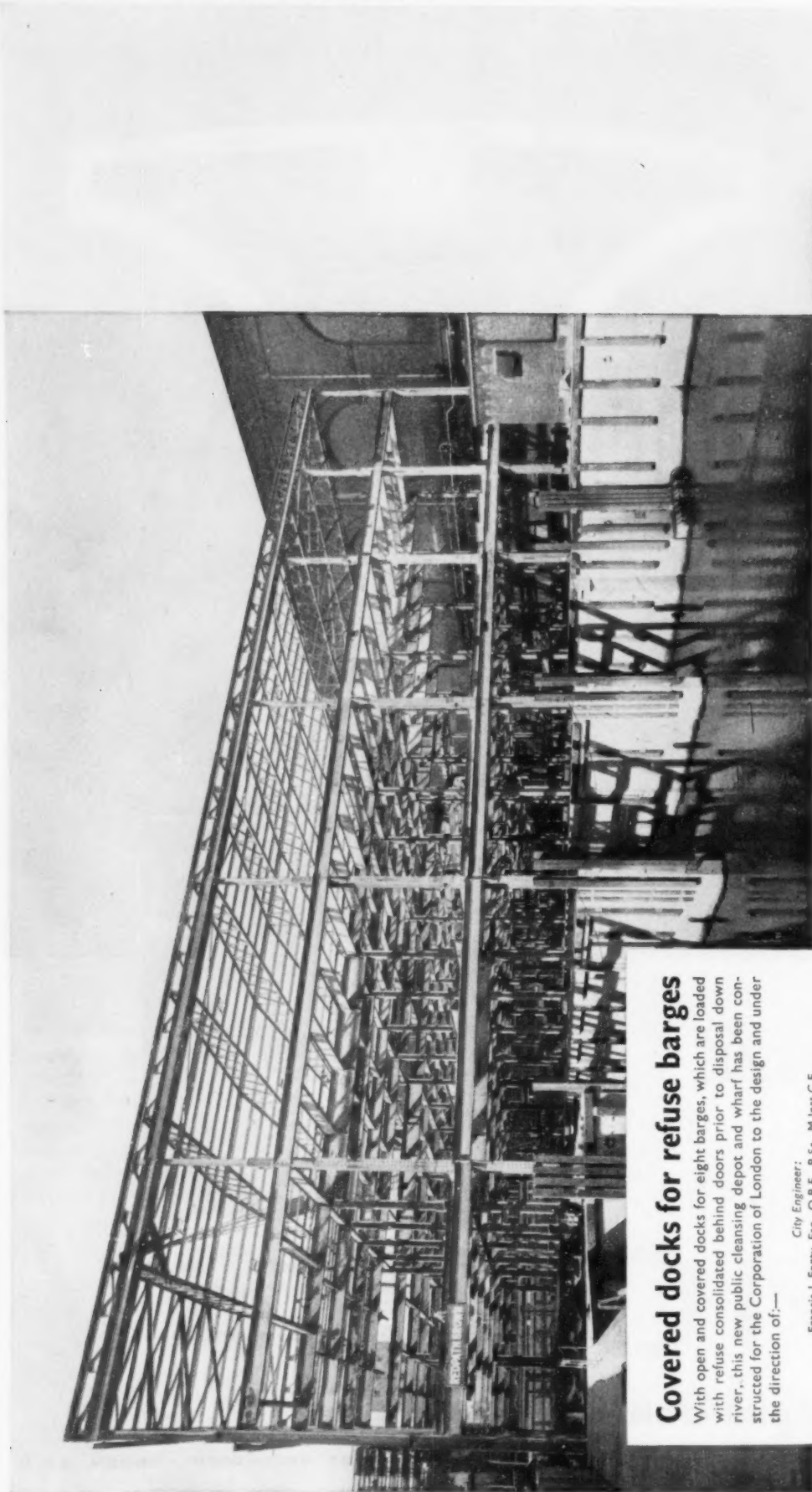
Architects:  
Timothy Guy Morgan in conjunction with Guy Morgan, F.R.I.B.A.

**The Delta Metal Company Limited**

TUNNEL AVENUE, EAST GREENWICH, LONDON, S.E.10

Telephone: Greenwich 0123. Telegrams: Delta London S.E.10





### Covered docks for refuse barges

With open and covered docks for eight barges, which are loaded with refuse consolidated behind doors prior to disposal down river, this new public cleansing depot and wharf has been constructed for the Corporation of London to the design and under the direction of—

*City Engineer:*  
Francis J. Forty, Esq., O.B.E., B.Sc., M.Inst.C.E.

*Consultants:*  
Messrs. Hay & Anderson, Civil Engineers for Dock and Depot Foundation.  
Sir Hugh Casson, M.A., R.D.I.,  
for Architectural Cladding, Administrative Block layout.  
H. A. Sandford, Esq., M.A., F.G.S., M.I.Mech.E.,  
for Electrical and Mechanical work.

The illustration shows the structural steelwork as designed in the City Engineer's Office, 1,700 tons, before cladding.



STEELWORK BY  
**REDPATH BROWN**

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Full technical information will gladly be supplied on request to our Slough Office or your nearest distributor.

**London and South West** N. V. Appleton Pty. Ltd. Liverpool Road, Trading Estate, Slough, Buckinghamshire. Telephone: Slough 25715/25368.

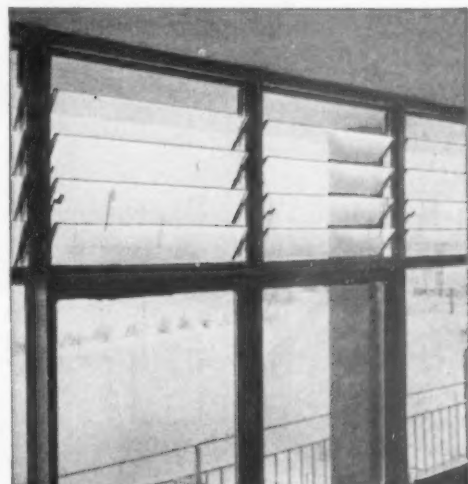
**West Scotland** City Glass Company Limited, 130 Denmark Street, Glasgow N2.

**Midlands** Glass Coventry Limited, Raglan Works, Coventry.

**North East** Thos. Bennett and Sons Limited, Meadow Lane, Leeds 11, Yorks.

**North West** R. H. Armstrong and Co. (Pendleton) Ltd. Frederick Road, Salford 6, Lancs.

**South East** Cumberland Refrigeration & Ventilation Ltd. 127 North Avenue, Southend-on-Sea



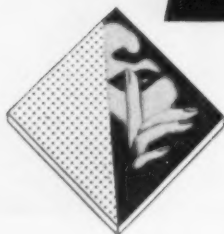
# NACO

SUNSASH

THE WORLD'S LARGEST SELLING LOUVRE WINDOW



**But why have  
holes in a  
ceiling?**



**ACOUSTI-**

*THE WORLD'S MOST WIDELY*





THE ANSWER is a simple one. The perforations in Acousti-Celotex 'Extra' tiles (more than 500 to every square foot) are scientifically designed to absorb unwanted noise into millions of dead air cells formed in the long sugar cane fibres from which Acousti-Celotex 'Extra' is made. To this 'quiet' feature are coupled durability and an attractive appearance to a degree that turns the luxury of sound-conditioning into a practicable and economical possibility in offices, schools, hospitals, hotels and theatres, churches and, indeed, wherever noise creates a lasting problem. Acousti-Celotex 'Extra' tiles can be decorated or painted as often as desired without loss of efficiency. They form an ideal ceiling—modern, efficient and attractive. Moreover they can be speedily erected with Celotex suspension systems.

## Consult **CELOTEX** at ceiling level

Two important free Celotex services—the Celotex Acoustical Advisory Service and the Celotex Technical Advisory Service—are both at your immediate disposal for discussion and advice at the planning stage. Whatever your ceiling problem, Celotex can solve it. There is, of course, no obligation—simply 'phone London, Elgar 5717.

Information can also be given regarding the complete and extensive range of Celotex products for every type of building construction. 'Phone as above or write to Celotex Limited, North Circular Road, Stonebridge Park, London, N.W.10.

**EXTRA**

# CELOTEX CEILINGS

USED ACOUSTIC MATERIALS

## Other **CELOTEX**\* Acoustical Products

### \* ACOUSTI-CELOTEX 'RANDOM' AND PATTERN 'A' TILES

Made to standard Acousti-Celotex specifications, Acousti-Celotex tiles can also be obtained in two new patterns: 'Random', with perforations of various sizes, blending into an overall pattern across the ceiling and Pattern 'A', which gives a unique irregular pattern.

### \* CELOTONE AND STRIATONE

The very latest Celotex acoustic tiles... manufactured from inorganic rock, melted down and spun into masses of incombustible fibres. The deep fissures of Celotone absorb excessive sound, they also form a contrasting decorative pattern. Striatone is finished in close corrugations across the fissures, thus lending emphasis to the basic design; placed at right angles, one to another, these tiles achieve a new approach to expressive decor.

### C.I.M.A.T. CELOTEX INCOMBUSTIBLE METAL ACOUSTIC TILES

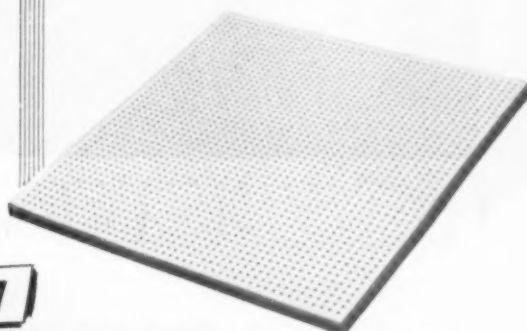
Made of steel—or aluminium—Celotex Incombustible Metal Acoustic Tiles have successfully passed D.S.I.R. fire-resistance tests. C.I.M.A.T. tiles are Shell 'Epikote' resin coated to provide a baked-on rust resistant coating that ensures long life. They can be fixed speedily by means of a steel channelling system and are supplied with a decorative finish that does not need to be painted following installation.

### CELOTEX H & T METAL SUSPENSION SYSTEM

This system is designed for use with Acousti-Celotex, Celotone and Striatone tiles. Pioneered and developed by Celotex it is the answer to the problem of minimising labour costs of installations. It is speedily erected, light in weight and provides a rigid flat ceiling.

### SERVICE

Installation of Celotex materials is carried out by highly skilled specialist contractors operating throughout the United Kingdom.



\* Registered trade marks of Celotex Limited



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

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(Brush Patent No. 835075 Pending)



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*A Duport Company famous for cookers, fires, fluorescent and industrial light fittings, power tools, street lighting, switch and fusegear etc.*

W & W 74





**WILLIAMS & WILLIAMS** rustproofed  
steel windows  
welcome the traveller

Light, ventilation, ease of cleaning, sound control, a happy colour scheme—whatever the requirements for today's hotels, Williams & Williams rustproofed steel windows can be specially designed to meet them.

**WILLIAMS & WILLIAMS**

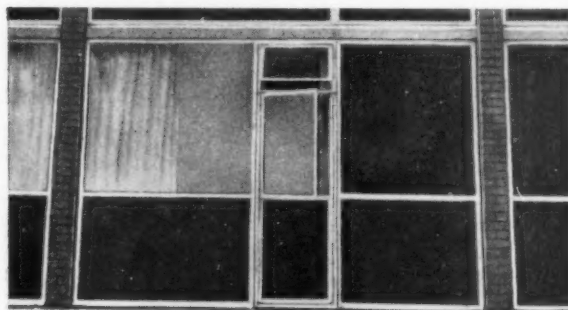
## at Europe's largest air hotel



This view of the bedroom block and escape staircase illustrates the contrasting blue and white colour scheme chosen for Skyway. The blue Plyglass infilling panels are backed by Thermalite insulation blocks. With quarter inch glass throughout the building, this effectively reduces airport noise to a minimum.

With years of experience in catering for the traveller, Skyway Hotels Ltd. had no doubt about the way they wanted to build at London Airport. A room for the night or a few hours, breakfast at mid-day, or a banquet at short notice for a party delayed by fog—these are a few of the things today's air passengers may need. And, of course, the right atmosphere must be part of the service. Williams & Williams purpose made steel windows were specified throughout this contract. Amongst

its requirements the brief called for maximum sound insulation and a creative use of exterior colour. In addition, the installation had to keep pace with an eight months building schedule. Skyway was handed over three weeks ahead of time—and has proved to be just what the traveller wanted. A new bedroom wing, commissioned soon after the hotel opened, has just been completed. Once again Williams & Williams purpose-made windows were used throughout.



For bedrooms at ground level a stall door was specially designed to give direct access to a car park outside. The clean, simple lines of the general design are preserved by installing the opening window and ventilator light in the upper half of the door.

*Architects:* Fitzroy Robinson & Partners.  
*Contractors:* Bernard Sunley & Sons Ltd.



In the shopping arcade, passengers can make their purchases and then enjoy a few moments peace and quiet between flights. A feature of the arcade is the glazed front set at an angle. These Williams & Williams windows were specially designed to bring in the maximum amount of light and make room for the plant trough.

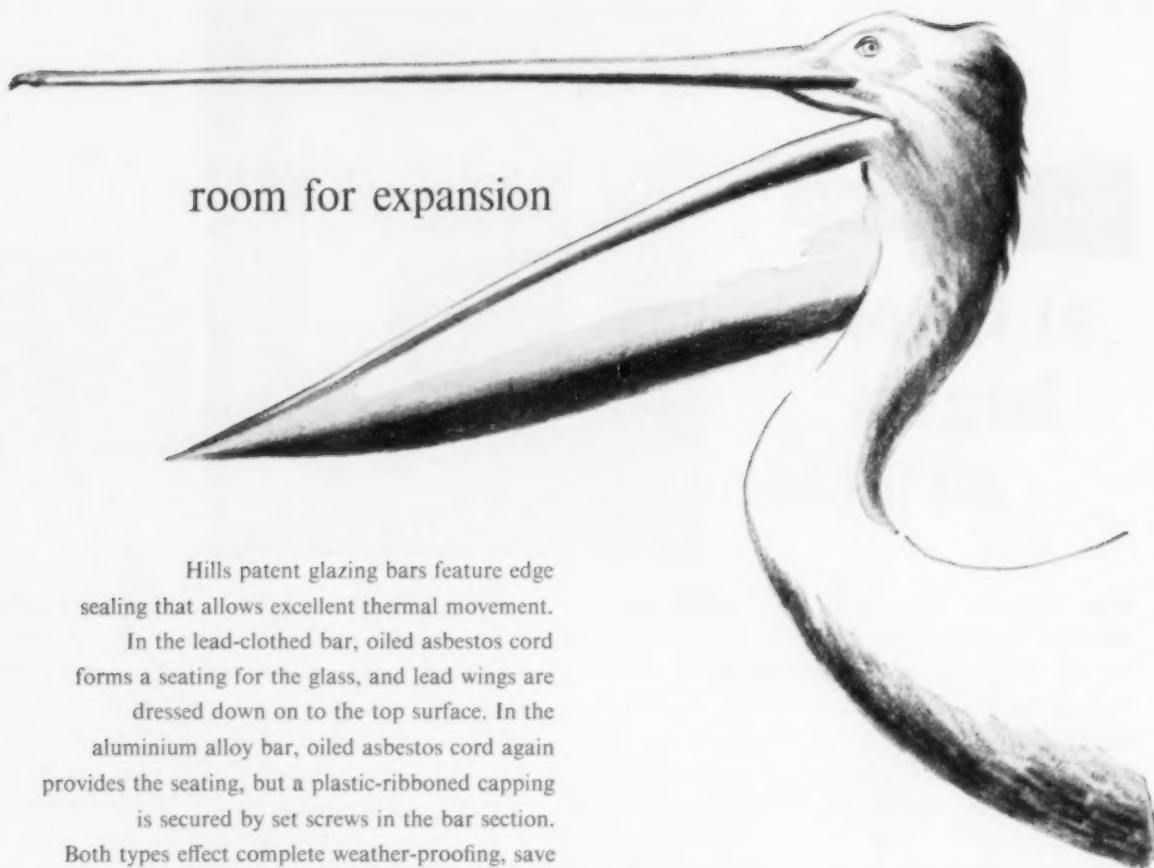
**WILLIAMS & WILLIAMS**

*forward looking building products*

Williams & Williams make RELIANCE steel windows of every description, ALOMEGA and other aluminium windows, ROFTEN movable steel partitioning, ALUMINEX patent glazing, WALLSPAN curtain walling and many other products, all of which can be seen at our permanent exhibition at 36, High Holborn, London, W.C.1.

WILLIAMS & WILLIAMS, RELIANCE WORKS, CHESTER · WILLIAMS HOUSE, 37-39 HIGH HOLBORN, W.C.1

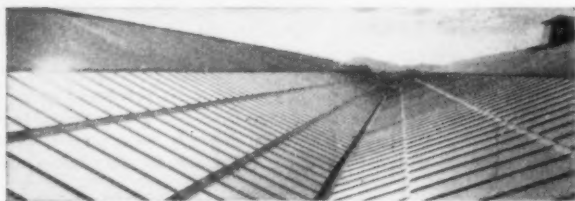
## room for expansion



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.

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**Paint bright  
gloss colours  
straight on to  
Bitumen**

**NO SEALER REQUIRED**

*(think of the saving)*

\* Does not contain bitumen—bright colours retain gloss. \* Good anti-corrosive paint on primed steel.

**EVOTECT**

**ANTI-BITUMINOUS PAINT**

A PRODUCT OF **EVODE** LIMITED OF STAFFORD, THE **EVO-STIK** 'IMPACT' ADHESIVES SPECIALISTS.

Manufacturers of BITUGEL, EVODYNE and EVO-LED paints

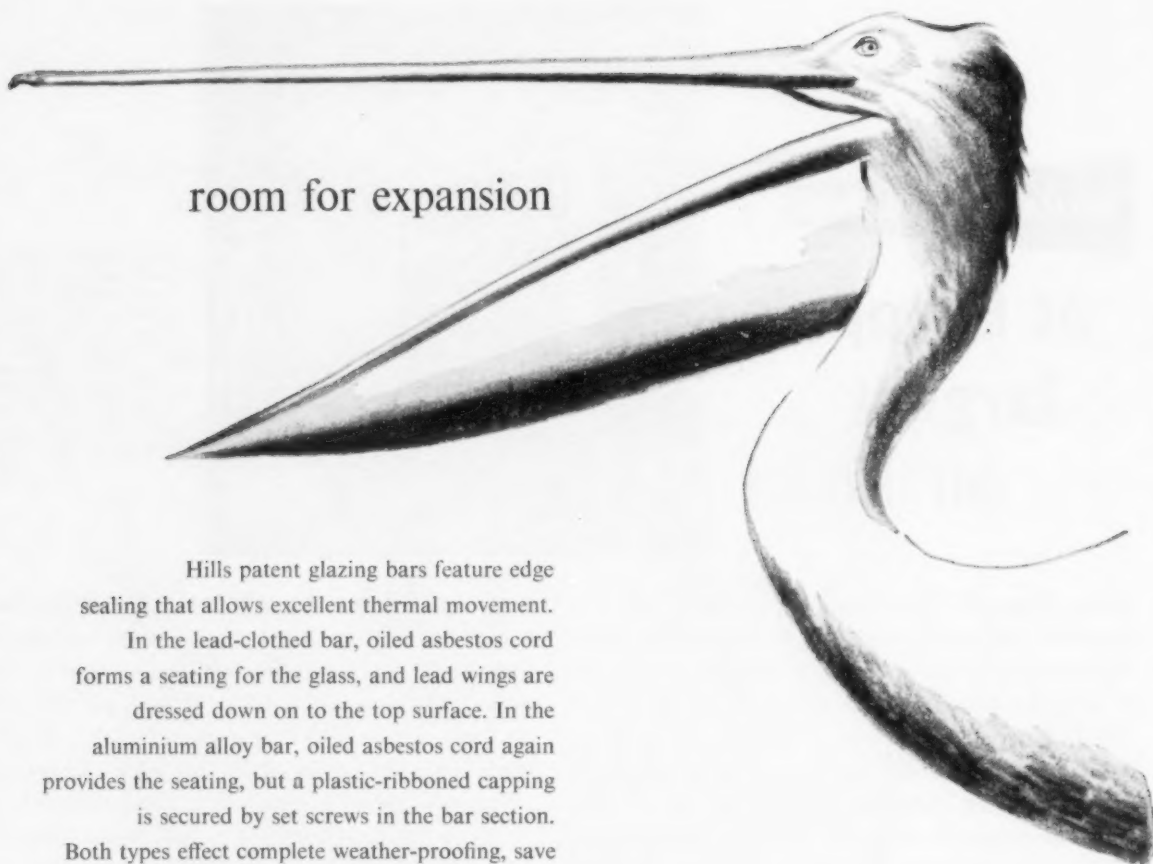
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M-W 168

## room for expansion

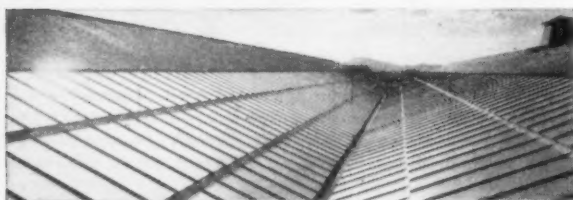


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**Paint bright  
gloss colours  
straight on to  
Bitumen**

**NO SEALER REQUIRED**

*(think of the saving)*



\* Does not contain bitumen—bright colours retain gloss. \* Good anti-corrosive paint on primed steel.

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M-W 168



# FIRST CARPET TO HAVE A HEAD FOR BUSINESS

*New high-performance fibre—  
Acrilan 15—dramatically lowers cost  
of carpet maintenance*

New Acrilan 15 carpet fibre is a real business proposition. It has been specially developed by Chemstrand Ltd. for the carpet industry and it is very well worth considering for anyone involved in large-scale carpeting projects. Consider its many advantages:

Acrilan 15 has excellent soil and stain resistance. The individual fibres are smooth and rounded, so loose grime is not ground in, but easily lifted out by vacuuming. The fibre also has very low moisture absorbency, which means that stains are quickly washed off by ordinary spot-cleaning methods, without special solvents. Carpet of Acrilan 15 responds excellently to overall shampooing when necessary, and dries fast.

Acrilan 15 is the most resilient fibre ever used in carpets. This means, of course, that the pile of a carpet of Acrilan 15 stays rich and springy long after other carpets would crush or mat down.

Acrilan 15 has excellent abrasion resistance too. Tests in which hard twist carpets of Acrilan 15 and traditional carpet were shampooed with high-speed rotary brushes proved that Acrilan 15 has far greater twist and texture retention than traditional carpet. Commercial cleaning methods blur neither the texture nor the pattern of carpets of Acrilan 15. Acrilan 15 is proof against moth and mildew.

To sum up, carpets of Acrilan 15 save money in two main ways. First, in maintenance, because Acrilan 15 cleans so



easily and resists permanent stains. And second, in replacement costs, because Acrilan 15 resists both wear and crushing so magnificently. Carpets of Acrilan 15 are now made by many leading manufacturers in all modern weaves and textures. And they cost no more than traditional carpets of equivalent quality.

If you would like more detailed information about the capabilities of carpet in Acrilan 15, write to Chemstrand Ltd., 8 Waterloo Place, London, S.W.1, for list of manufacturers.

Big hotels throughout the world use carpet made with Acrilan 15. Naturally—it's sound business. This picture of the dining-room of the Bauer au Lac Hotel, Zurich, shows new Acrilan 15 carpet. It is not difficult to imagine the tremendously hard wear, and the constant traffic to which this carpet is subjected. Wherever carpet made with Acrilan 15 is laid—in public buildings, restaurants, luxury liners, reports on wear, colour retention, and easy maintenance, are always *completely satisfactory*. Now, very soon, look out for further dramatic proof of this new high-performance fibre—Acrilan 15!

# ACRILAN

15

Acrilan is the regd. trade mark for the acrylic fibre supplied by Chemstrand Ltd. Chemstrand makes only the fibre—Britain's finest Carpet Manufacturers do the rest.



*Here's a Bouquet  
for a Floor  
Quarry..*

*because*

Floor Quarries are economical... to buy AND to lay... they're resistant to acids, alkalis and grease. They're virtually indestructible... the inherited skills of a traditional craft go into the making of a Floor Quarry—the name for a rectangle of natural clay hardened in fire. Floor Quarries, being dustless, are easily cleaned and maintained and come in a variety of sizes, thicknesses and attractive colour shades. Advice and information is obtainable from Builder's Merchants, Tiling Contractors or direct from the Floor Quarry Association.

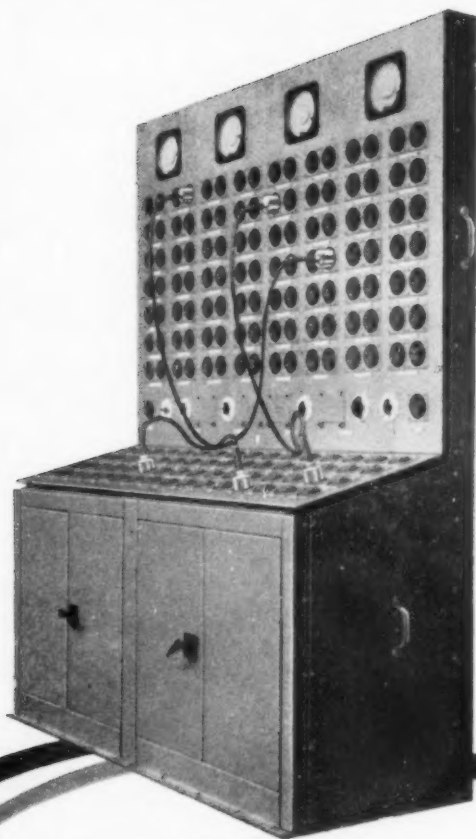
THE FLOOR QUARRY ASSOCIATION

FEDERATION HOUSE

STOKE-ON-TRENT STAFFORDSHIRE

FQA 9

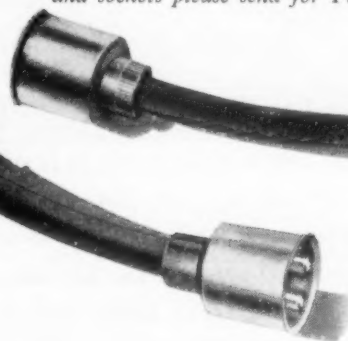




### **REYROLLE PLUGS AND SOCKETS**

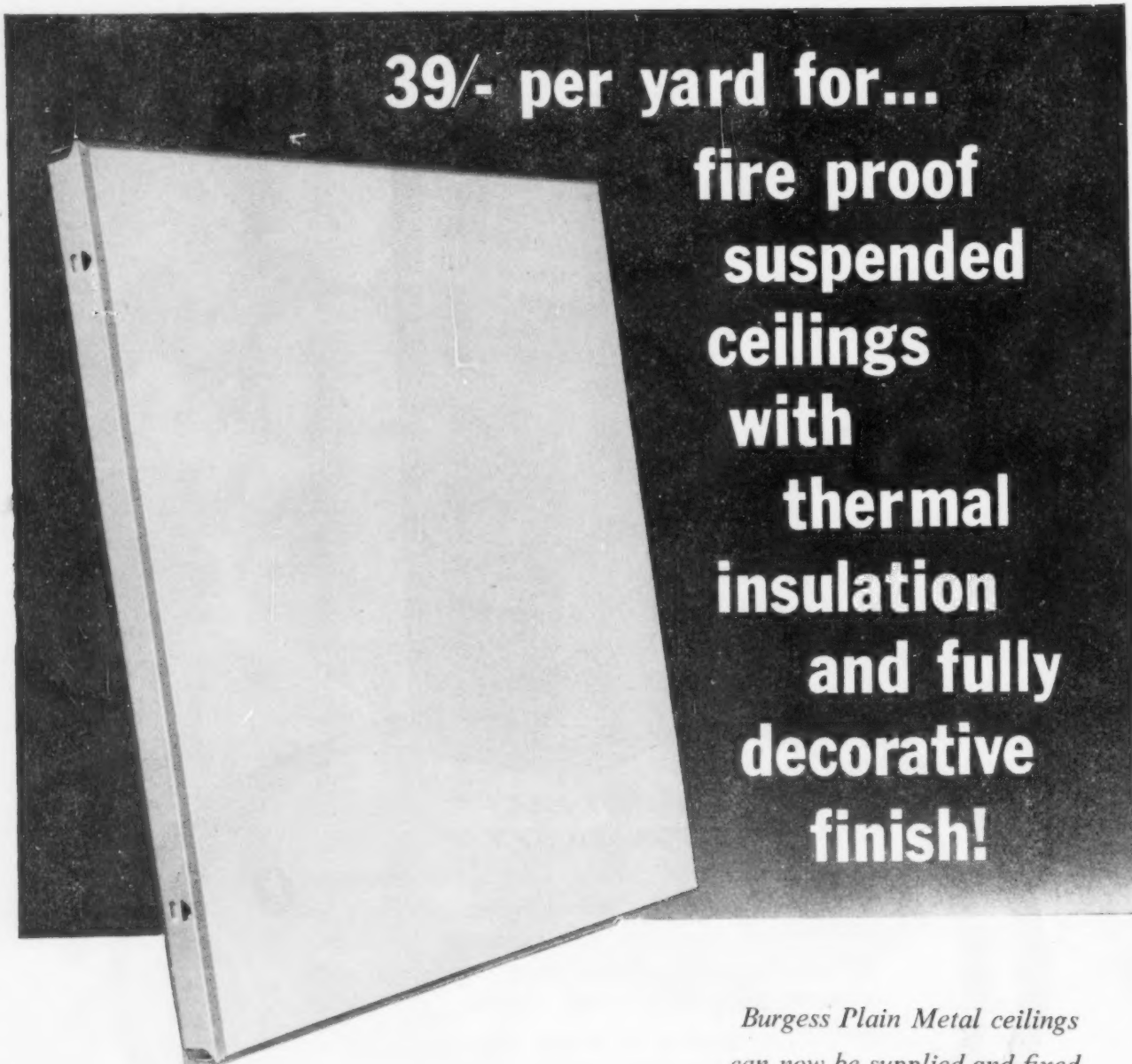
The illustration shows one of a number of multi-system distribution-boards of various types, designed and manufactured by Reyrolle to customers' specification. System selection is achieved with "Easigo" metalclad protected-type plugs and sockets to B.S. 196.

*For details of our extensive range of plugs and sockets please send for Pamphlet 1252.*



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A. Reyrolle & Company Limited - Hebburn - County Durham - England



**39/- per yard for...**

**fire proof  
suspended  
ceilings  
with  
thermal  
insulation  
and fully  
decorative  
finish!**

*Burgess Plain Metal ceilings  
can now be supplied and fixed  
complete by the undermentioned distributors  
at prices ranging from 39/- per yard.*

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DRAFTSELE LTD., 44 Dean Street, Newcastle-upon-Tyne 1.

DRAFTSELE (London) LTD., 47 The Parade, Leamington Spa.

DRAFTSELE (London) LTD., 231 Station Road, Harrow, Middlesex

ROOF & LINING CONSTRUCTION LTD., Buckingham House, 19/31 Palace Street, London, S.W.1.

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**BURGESS PRODUCTS COMPANY LIMITED, ACOUSTICAL DIVISION, HINCKLEY, LEICESTERSHIRE**

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**THE NEW**

**FLEXPIPE**

**DRAINAGE**

**SYSTEM**

3"

## 2 FT EXTRA LENGTH PER SECTION—4 DIAMETERS

New from Bowaters comes an improved Flexpipe drainage system. To all its well-known advantages (notably its 2 ft. extra length per pipe for faster, cheaper laying) we have added 2 extra diameters and a whole new range of polypropylene fittings. And as a result of production in our new British factory, you get better quality, quicker delivery.

4"

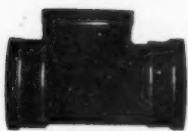
- 10 ft lengths, in diameters of 3", 4", 5" and 6"
- Faster to lay in any weather
- Can be tapered and saw-cut on site
- Unaffected by normal earth movement and resistant to root penetration
- Acid and alkali resistant
- Liquids flow faster, easier

**For electrical and other conduit work**

Flexpipe is available in diameters of 2", 3", 3½", 4", 5" and 6"



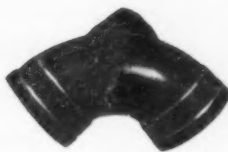
5"



Junction 90°



Adaptors—Flexpipe to stoneware and cast iron



Knuckle Bends—45° - 90°



Junctions 135° - 120°  
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CRC 4

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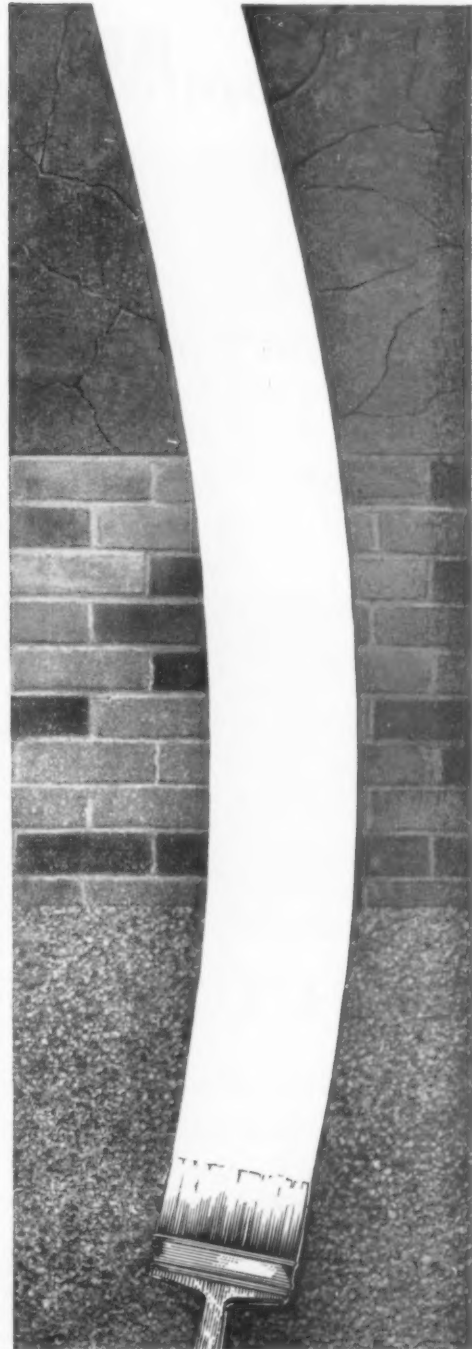
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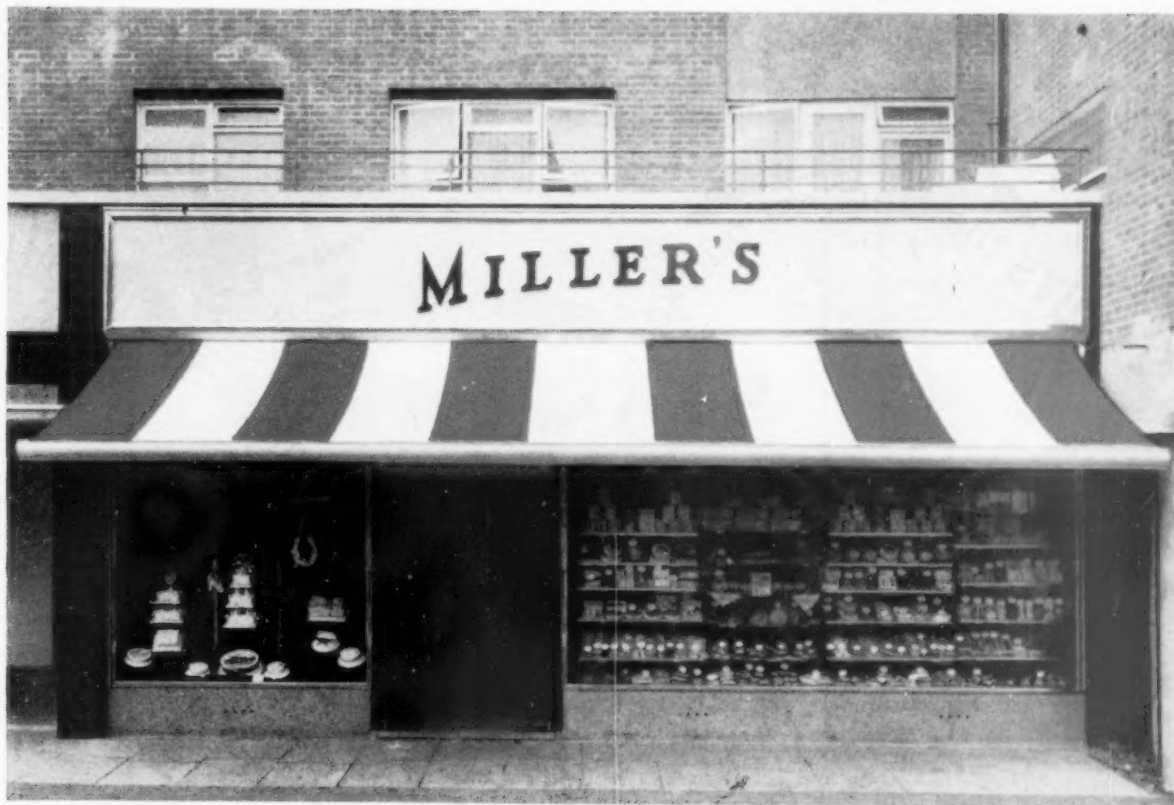


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FIRM \_\_\_\_\_

NAME & INITIALS \_\_\_\_\_

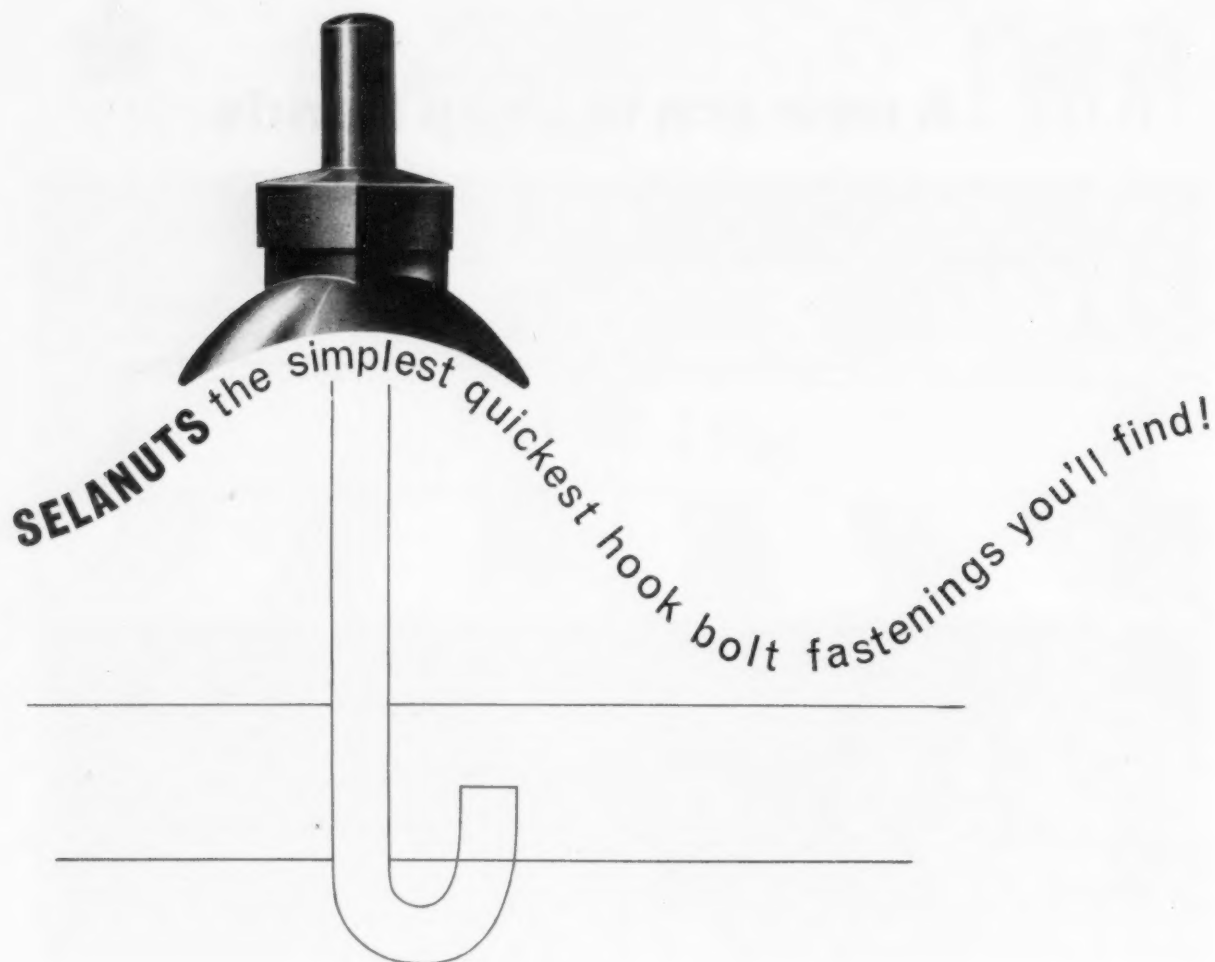
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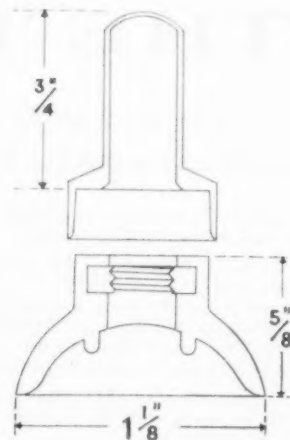


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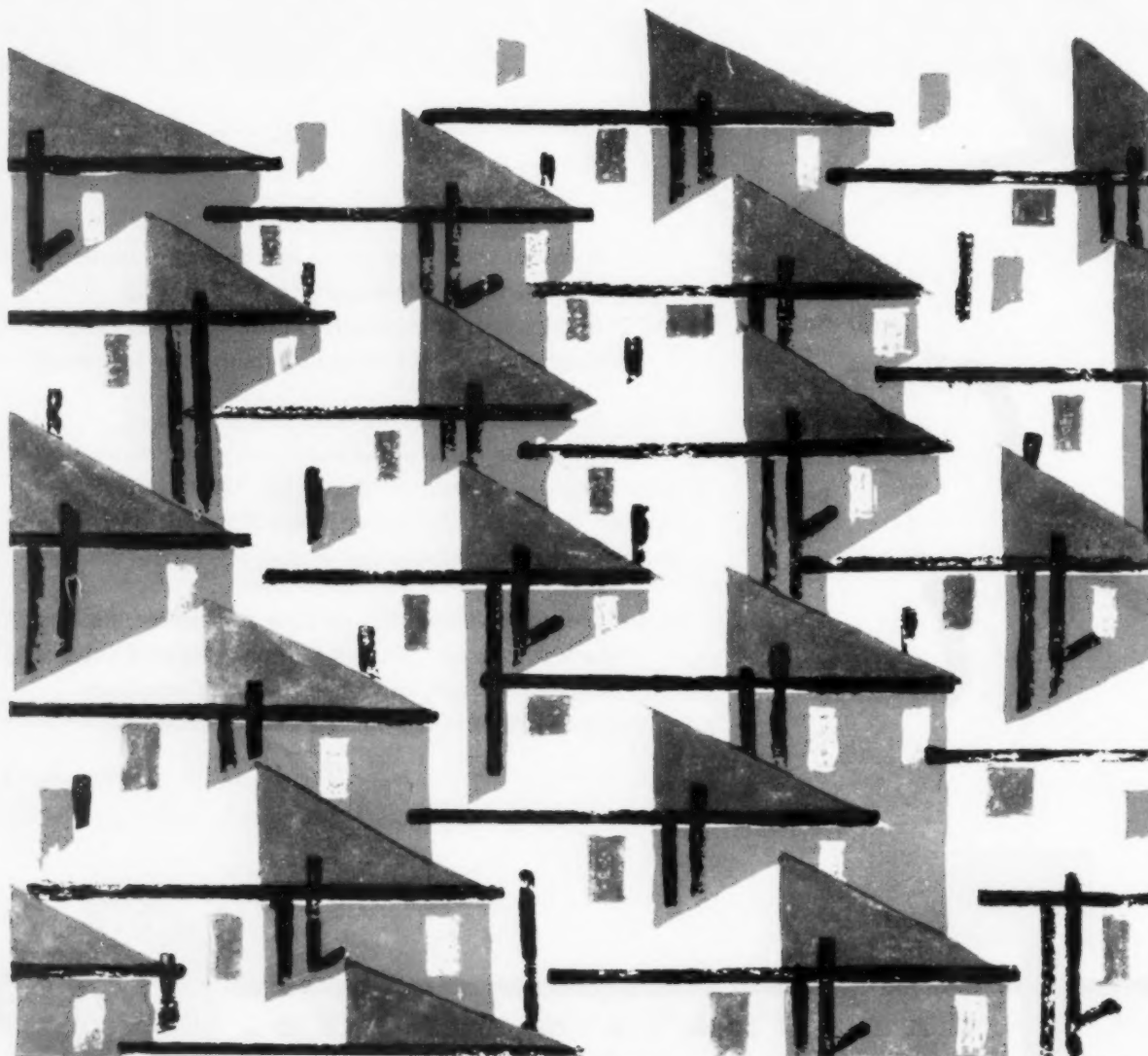
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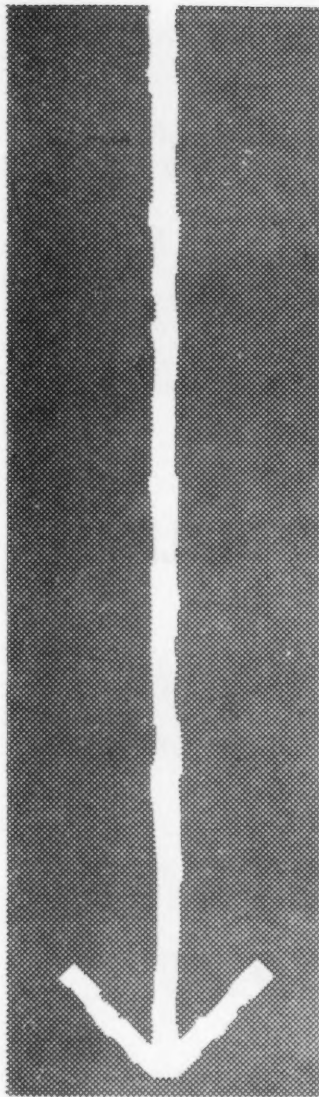
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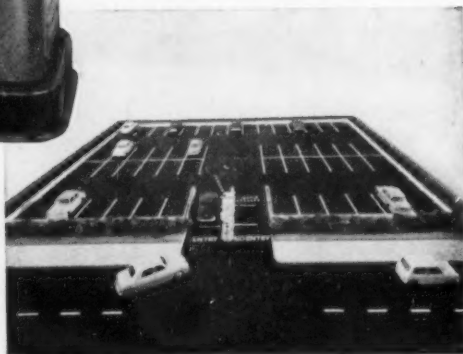
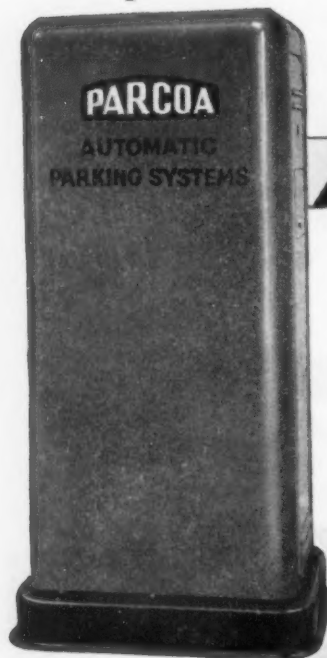


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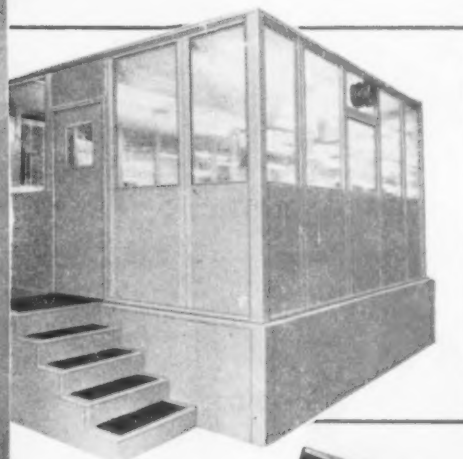
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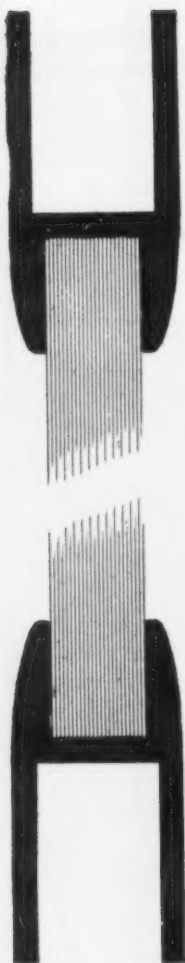
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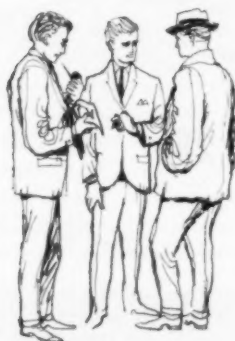
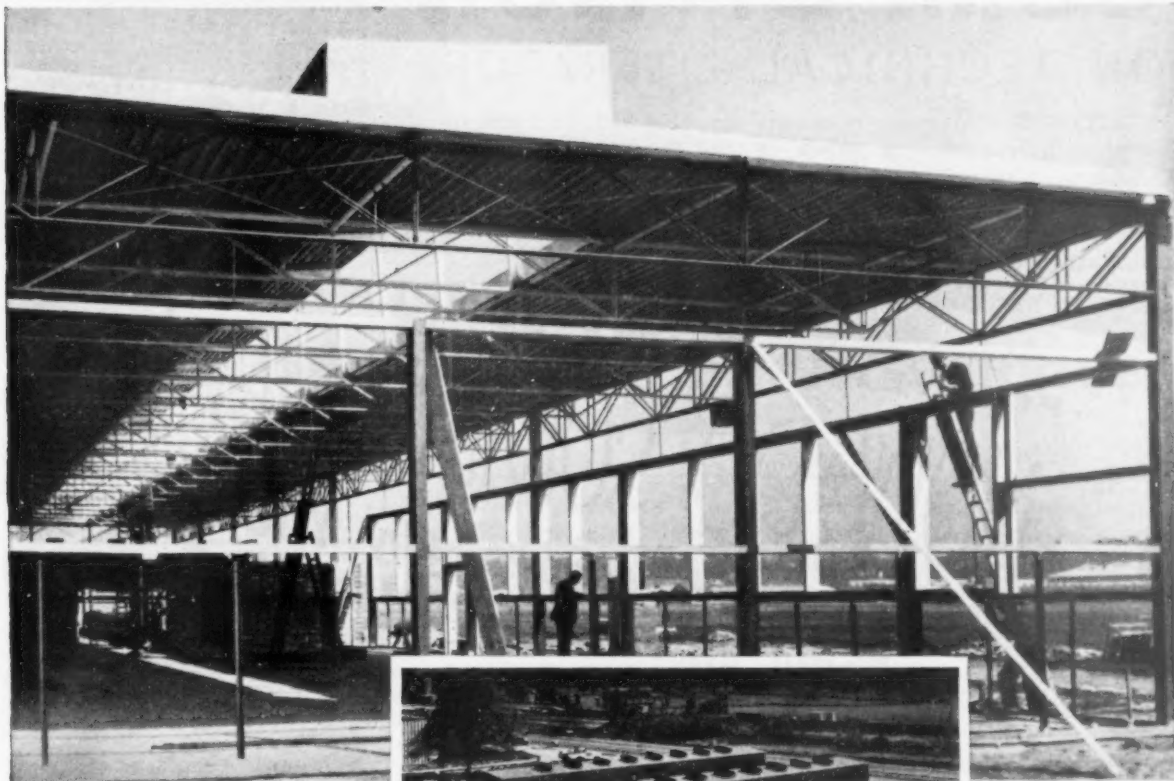
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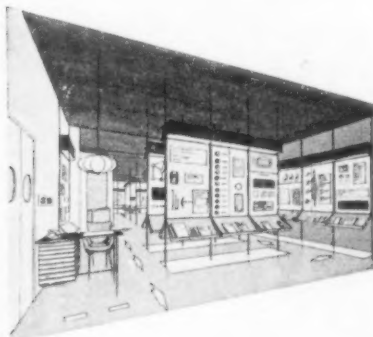
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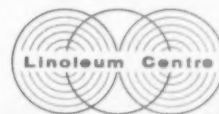
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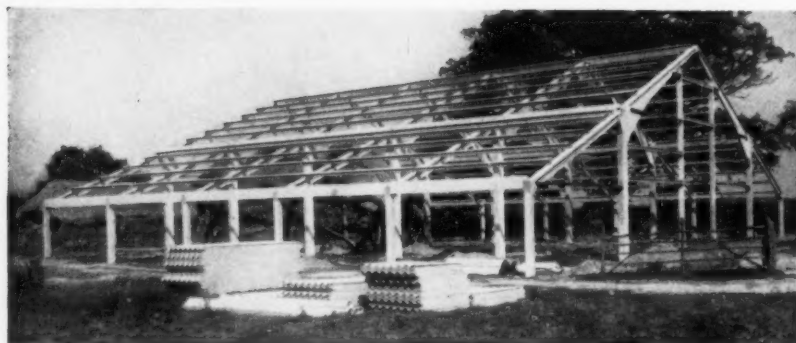


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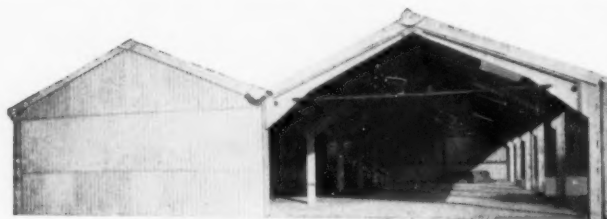
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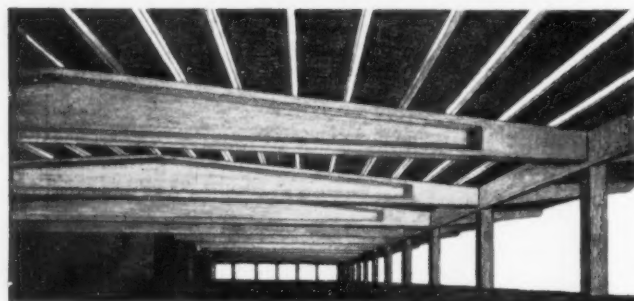


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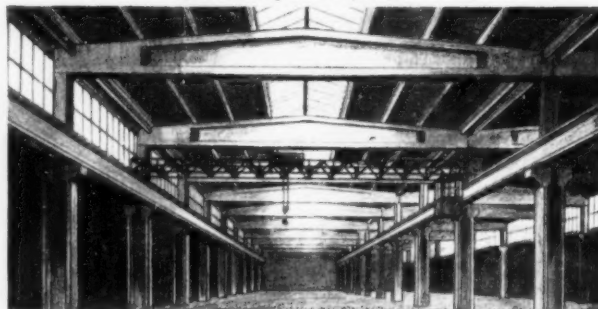


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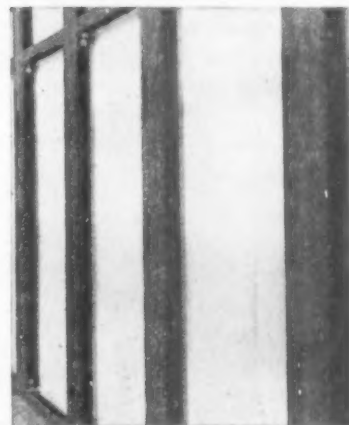
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(Right) Unistrut used for partition framework. Here, Asbestolux cladding was used to form a fire-resistant partition, but any type of in-fill can be used for the purpose of space division only.

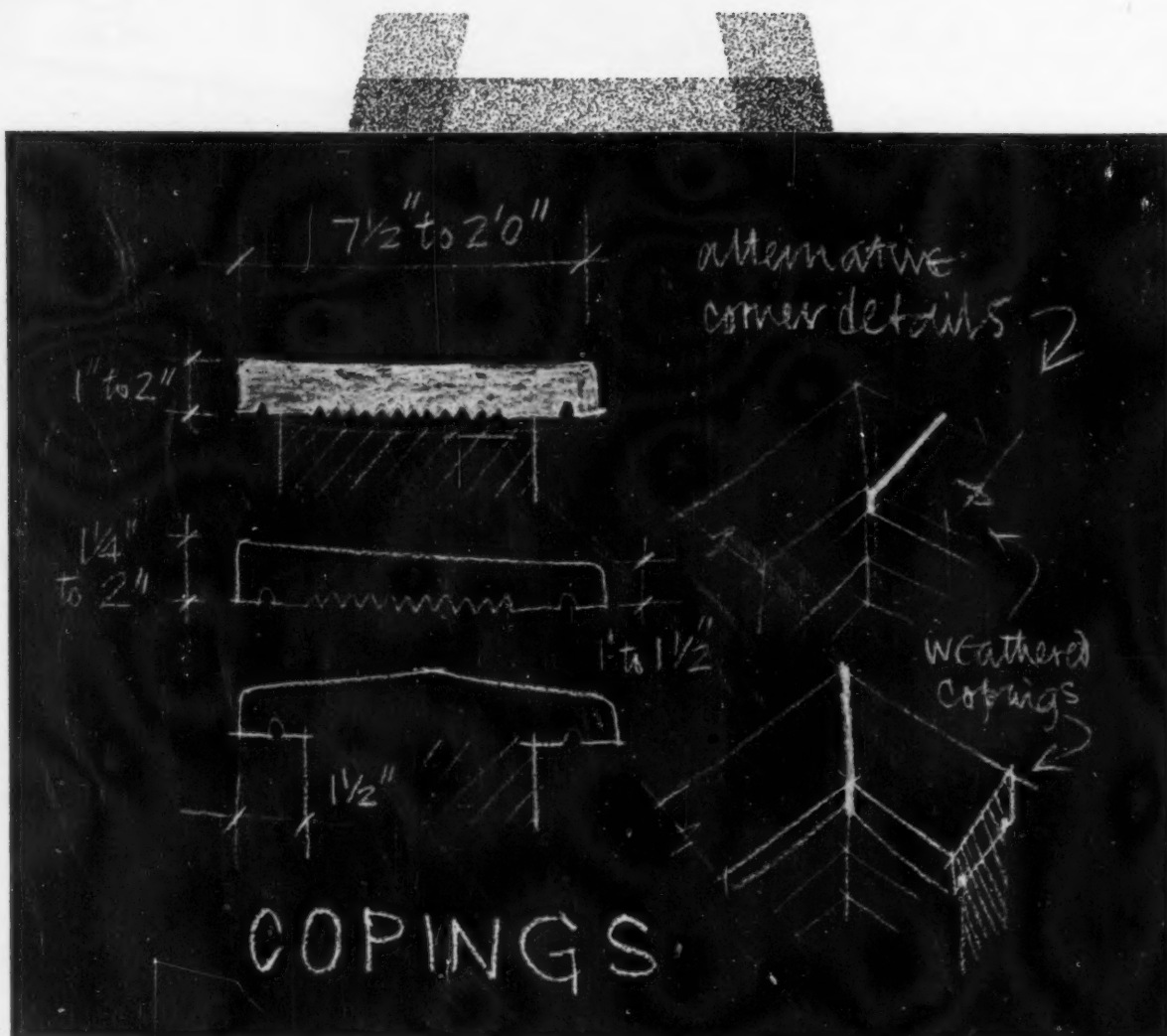


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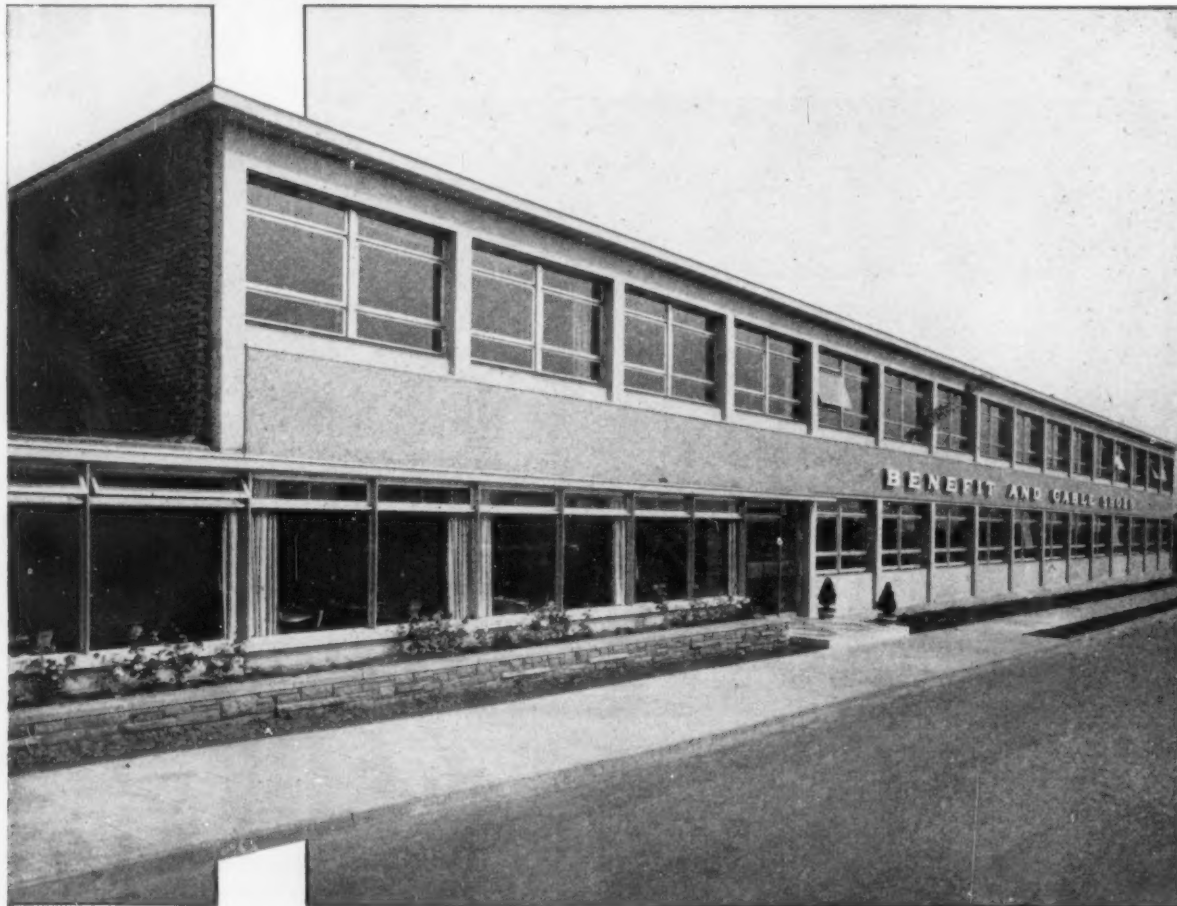
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*by*

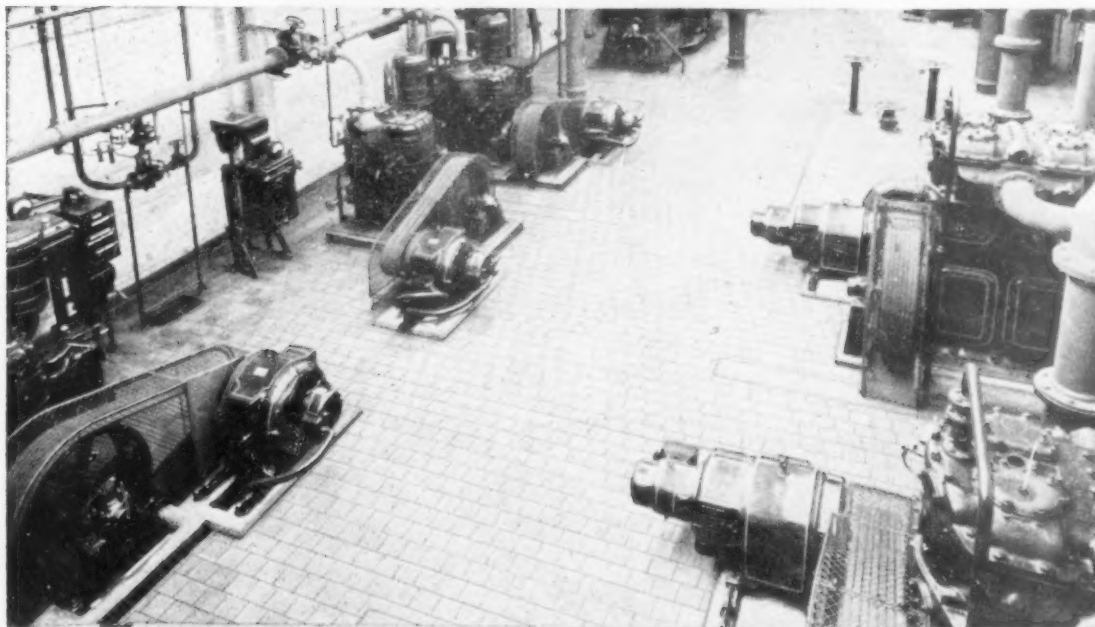
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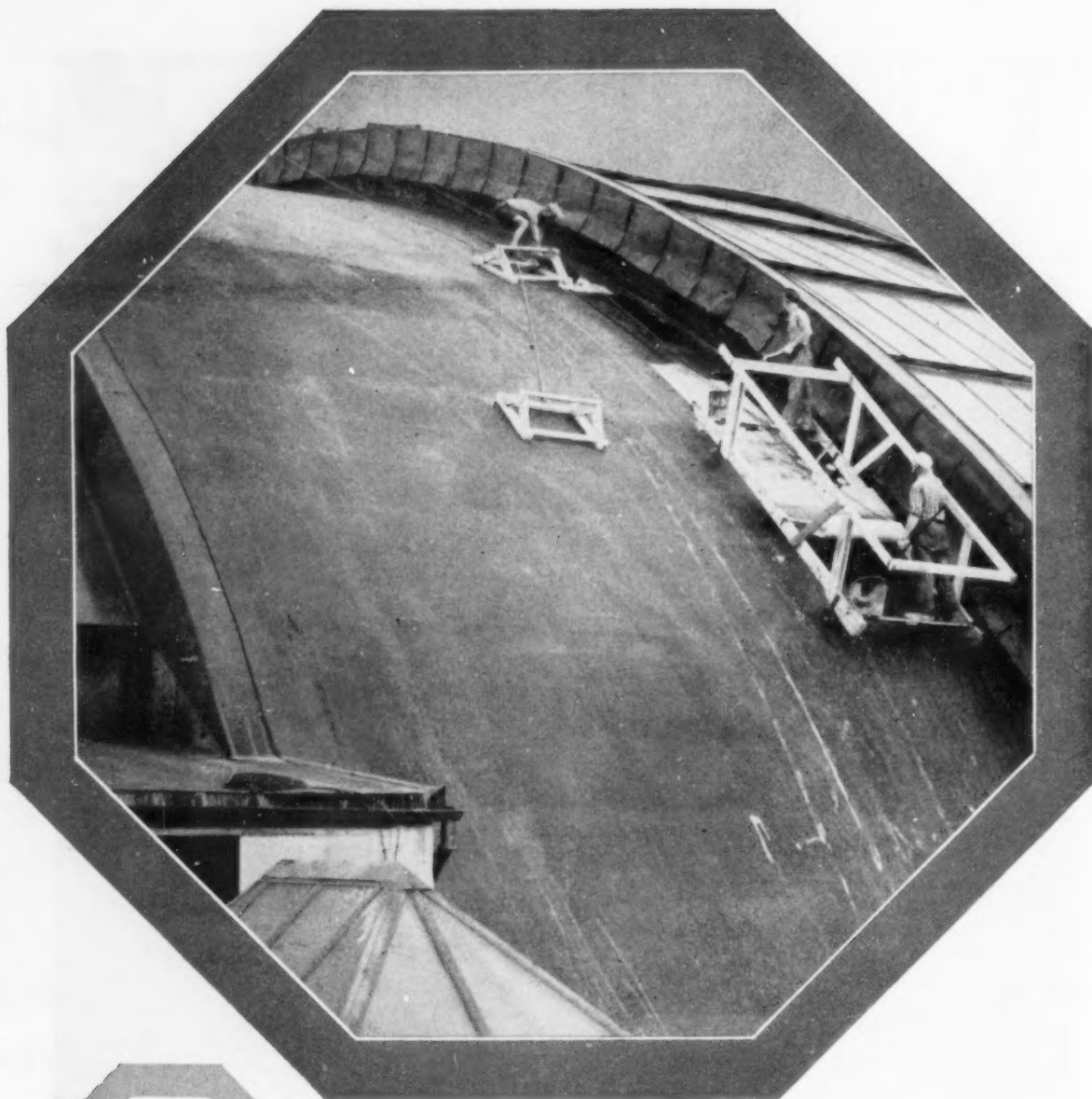
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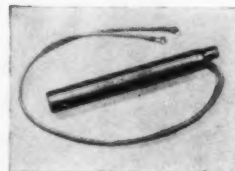
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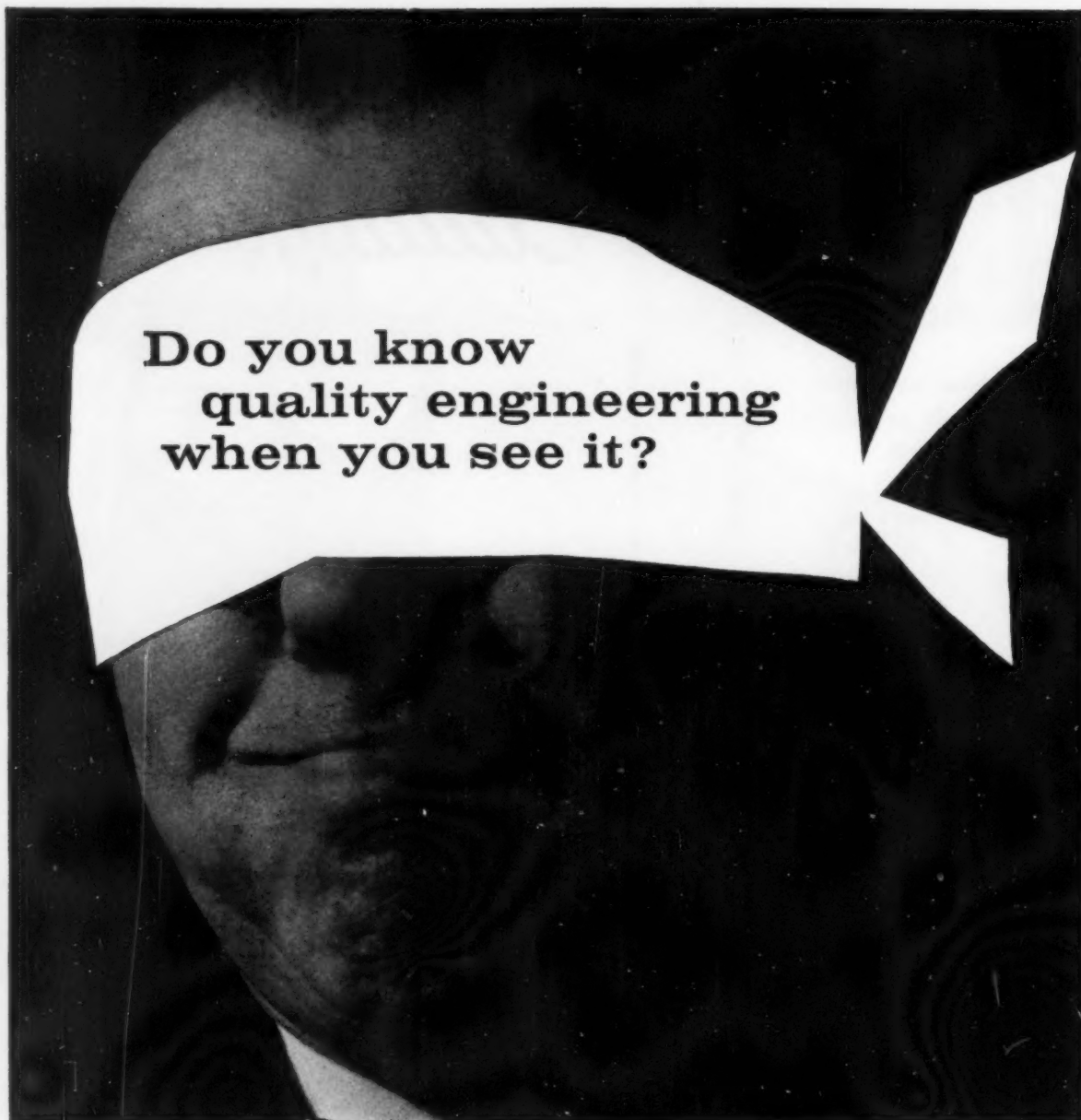
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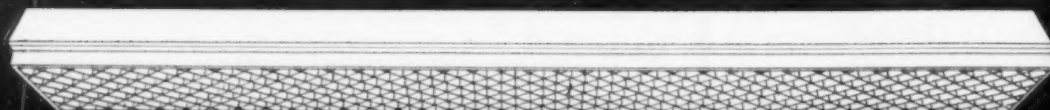
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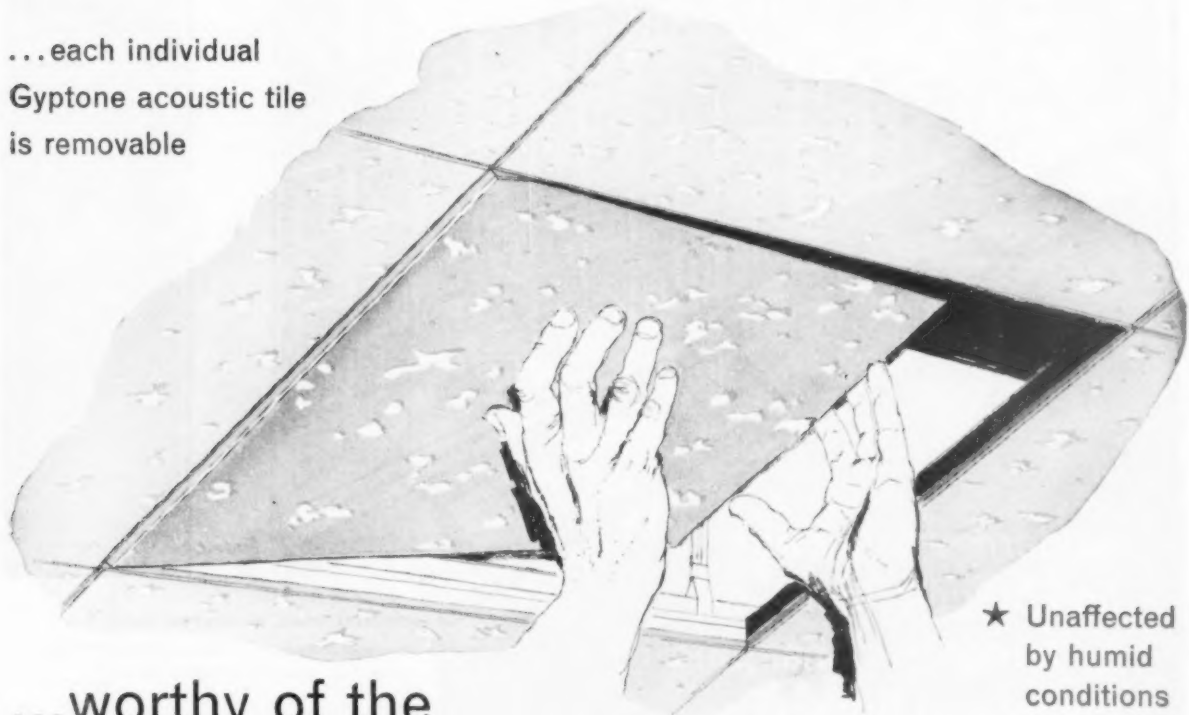
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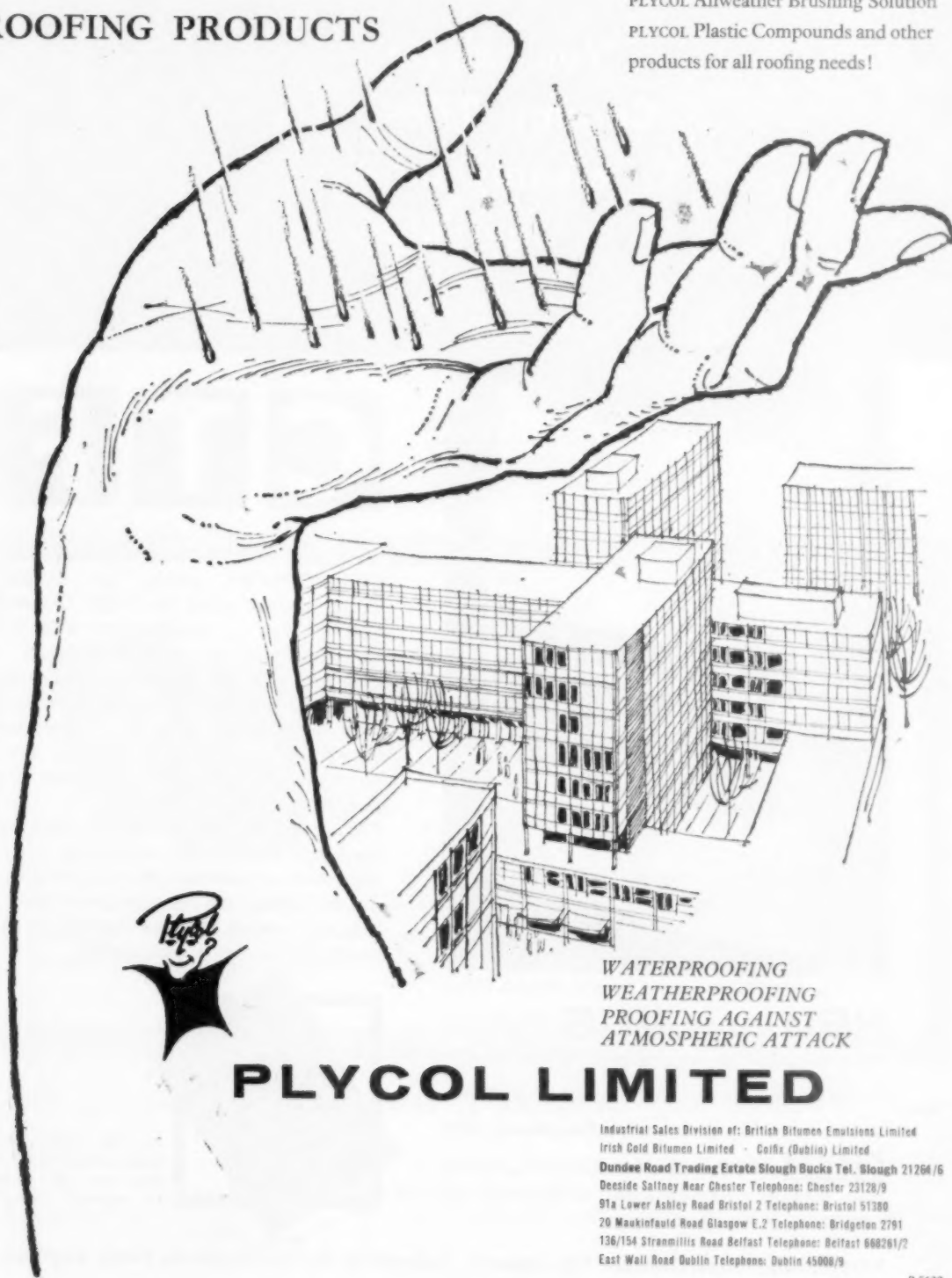
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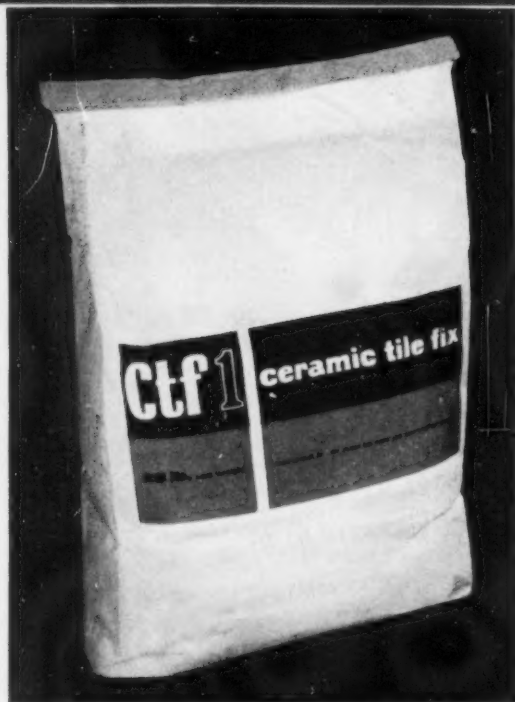
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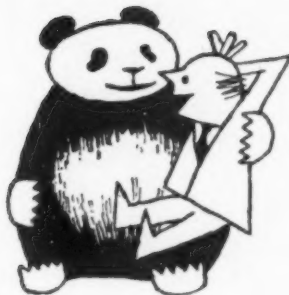
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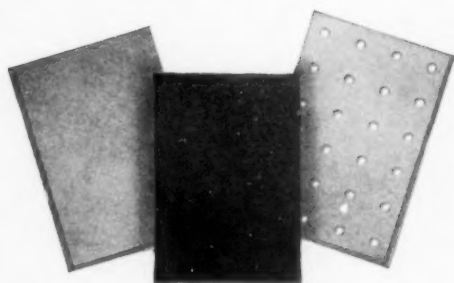


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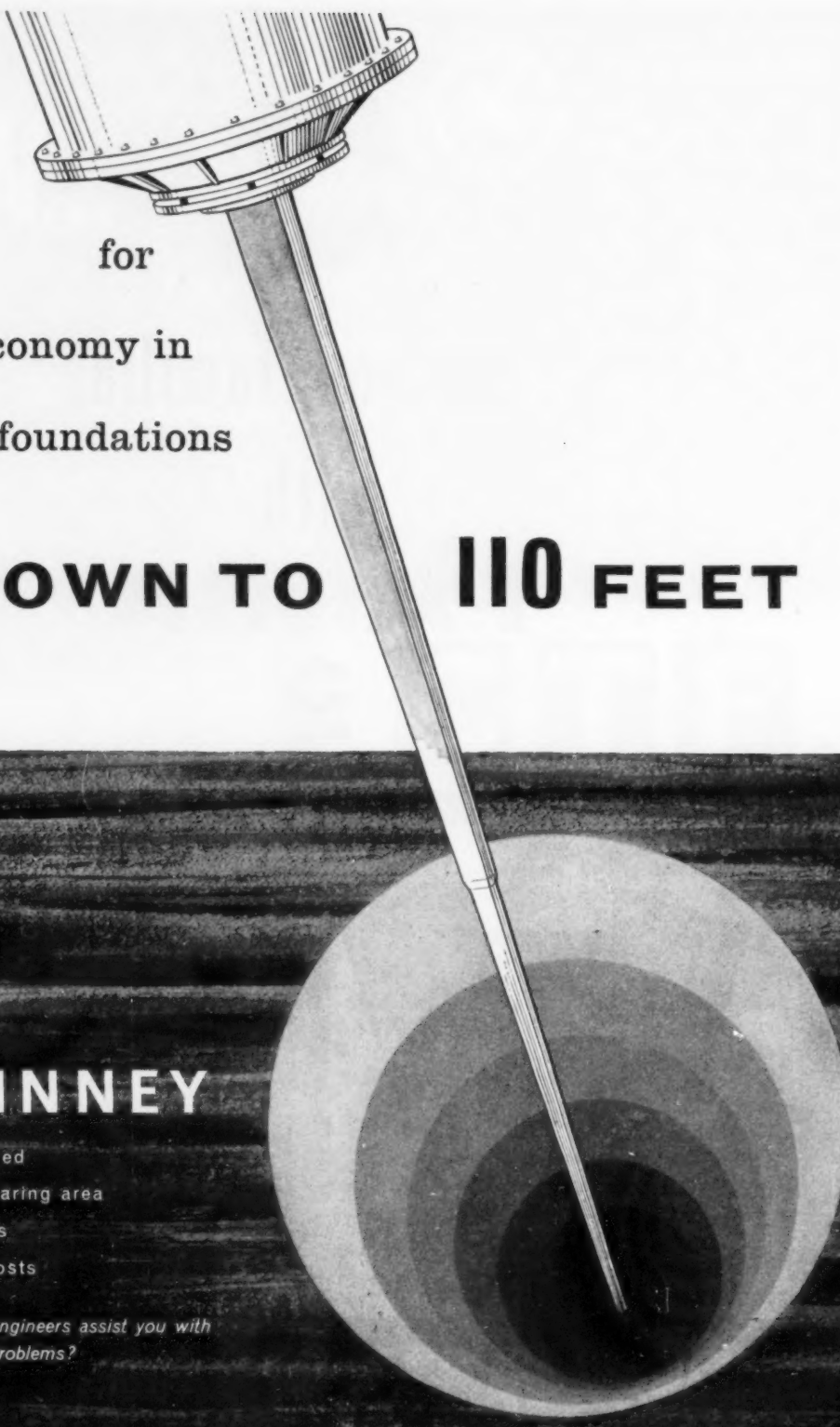
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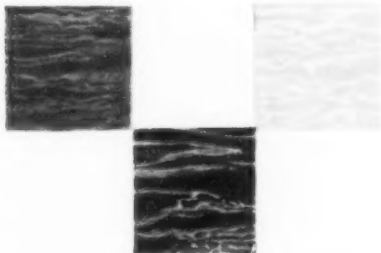
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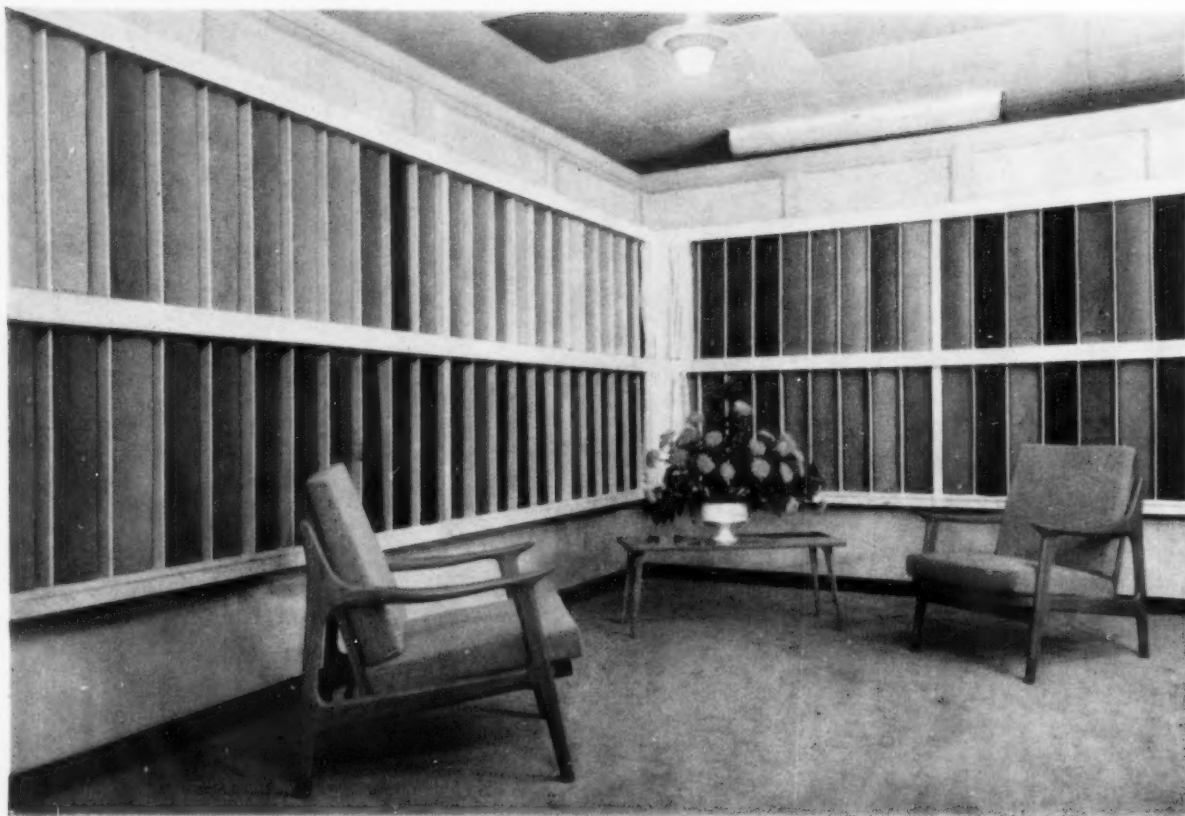
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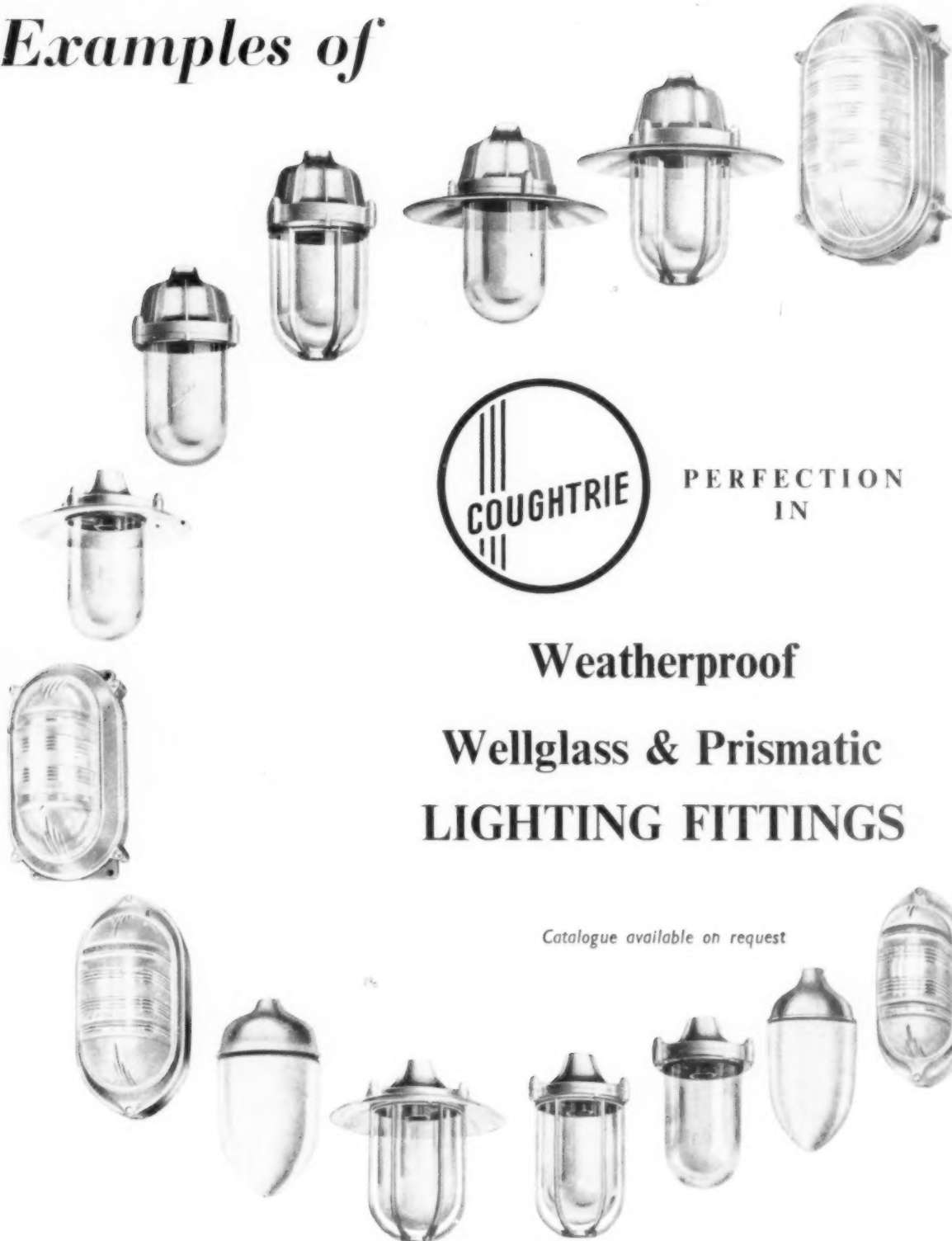
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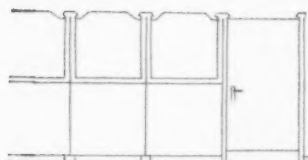
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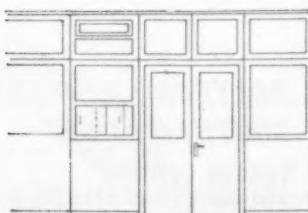
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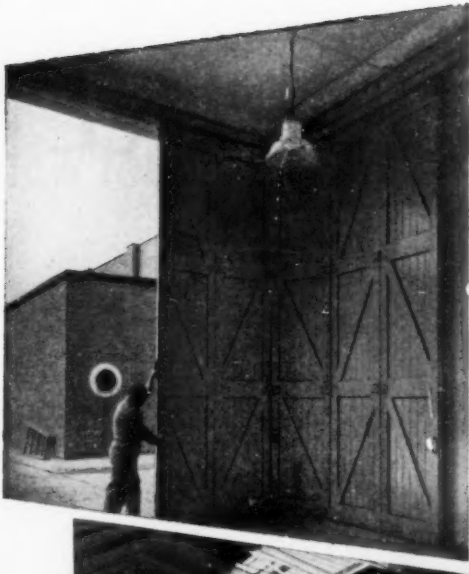
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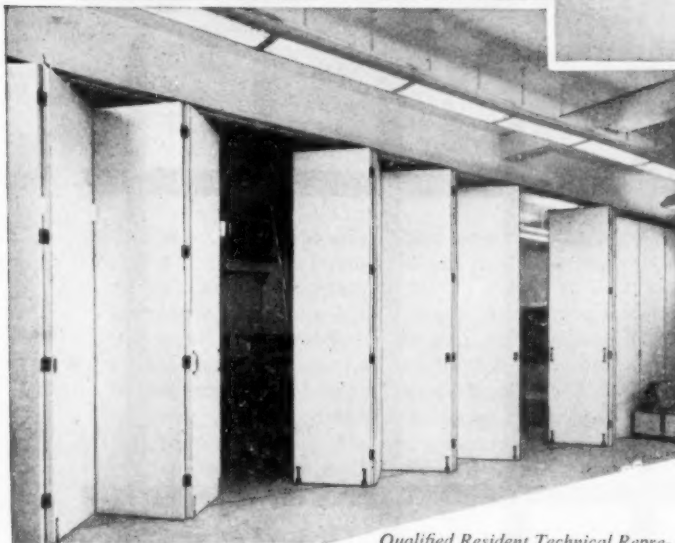
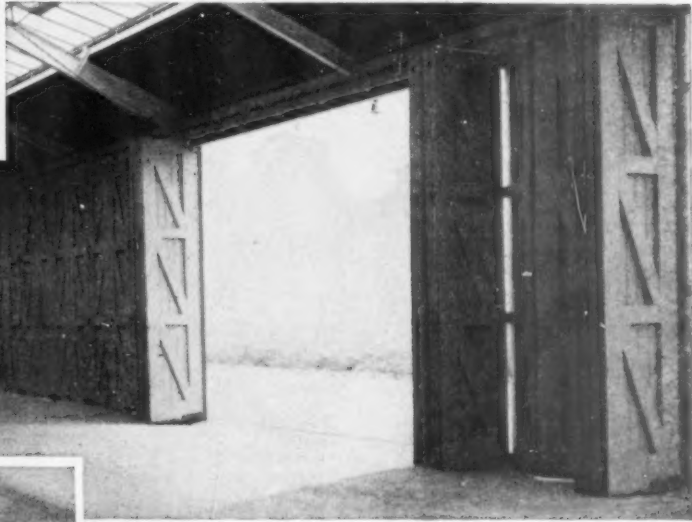
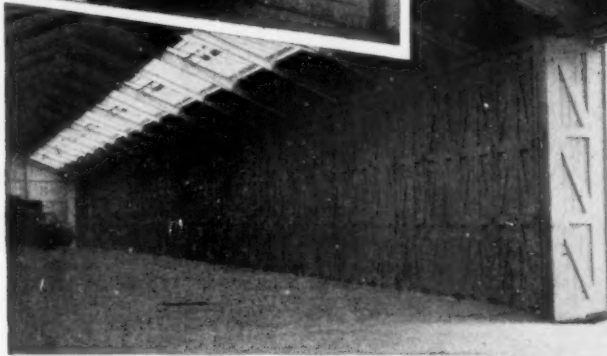
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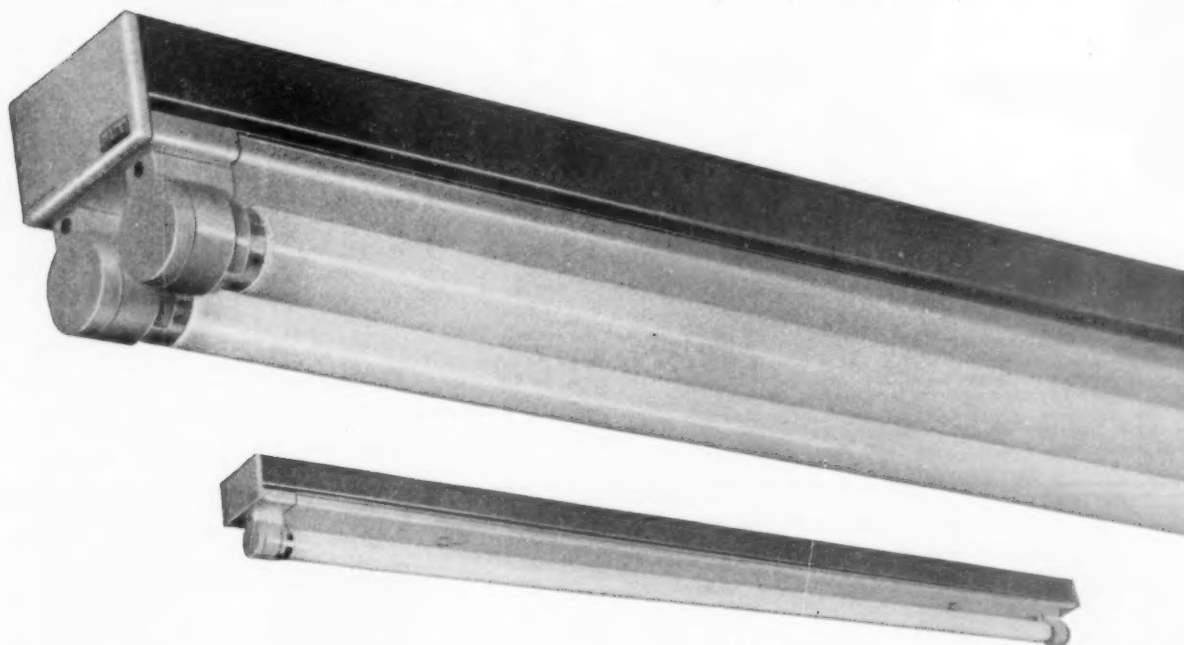


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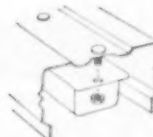


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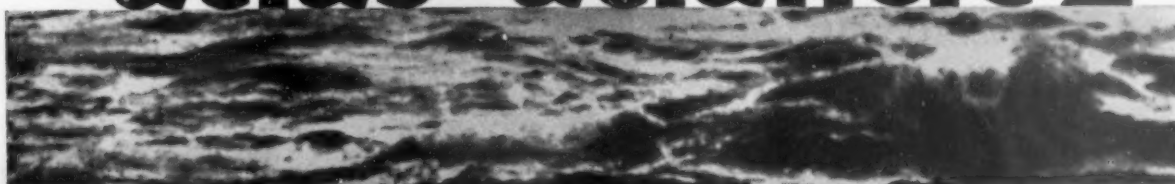


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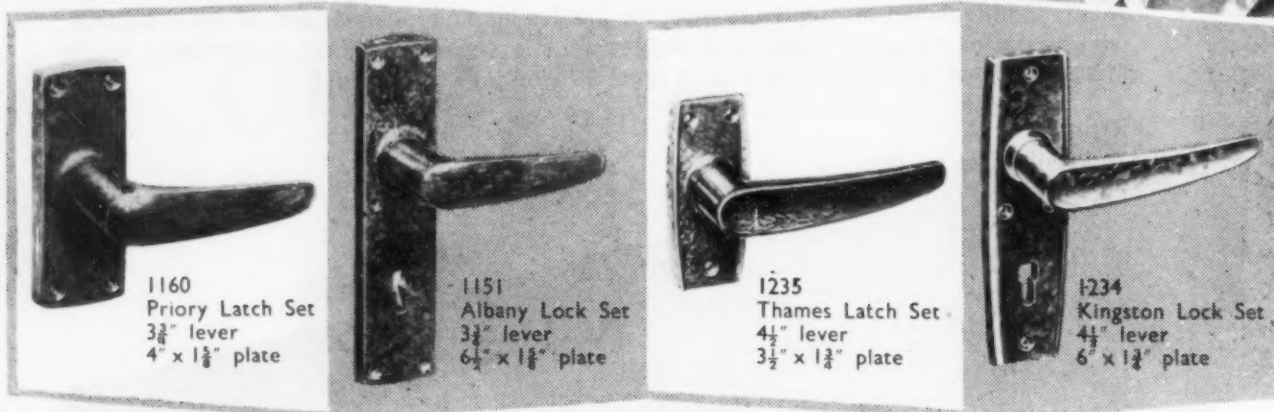


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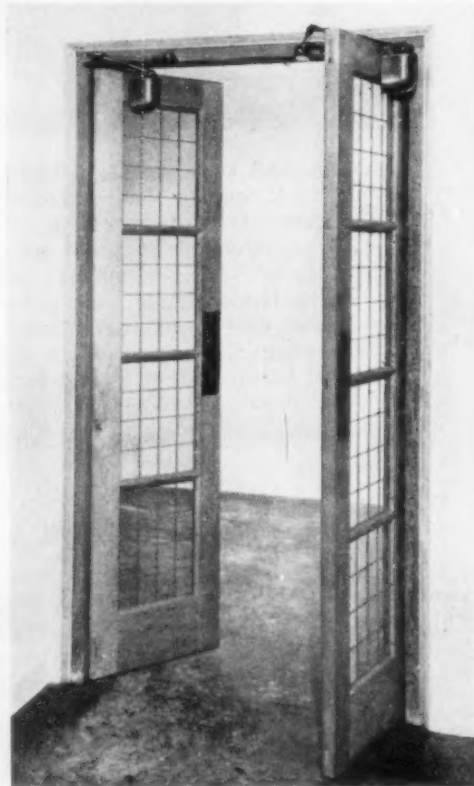
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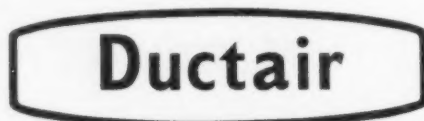
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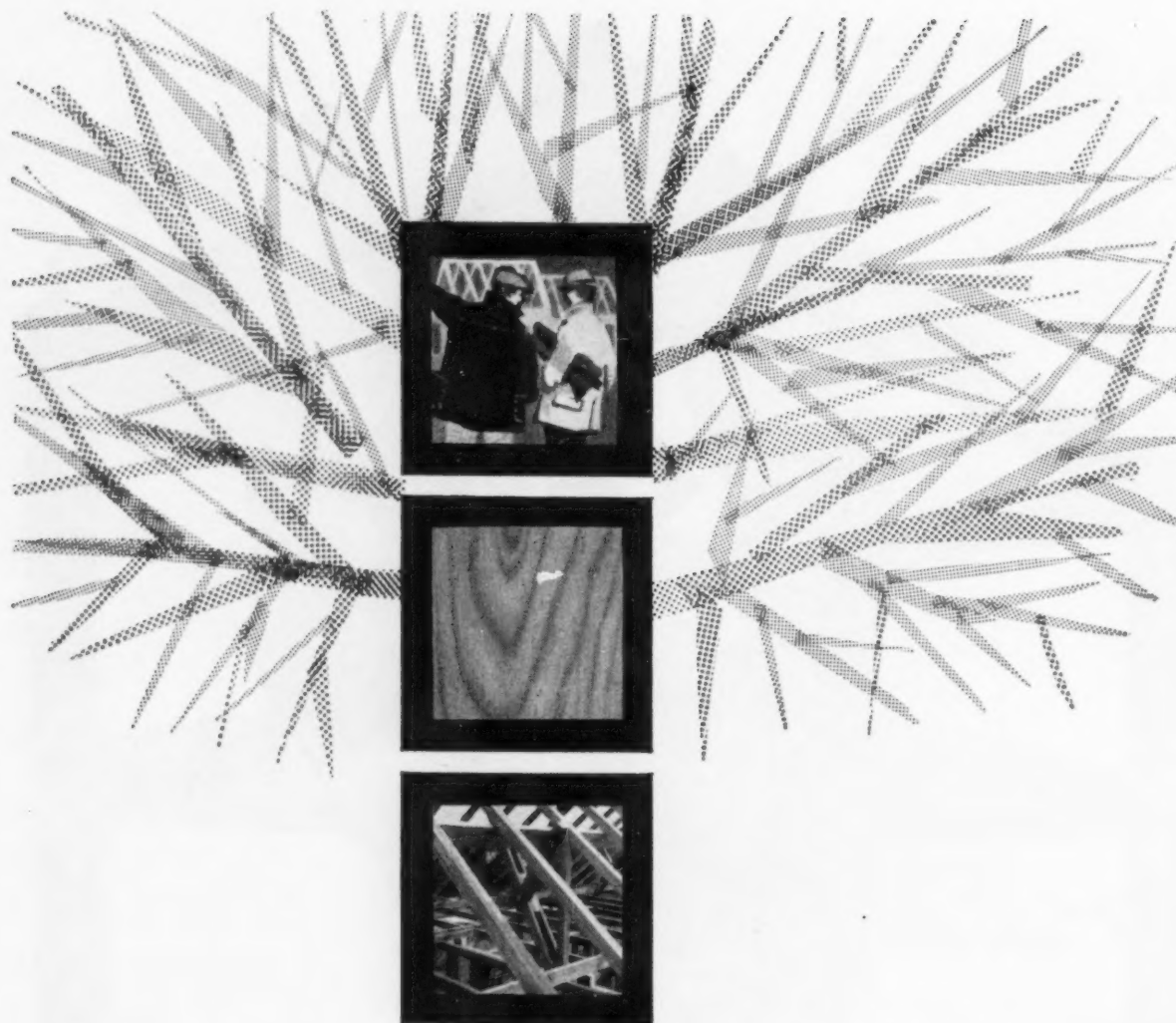
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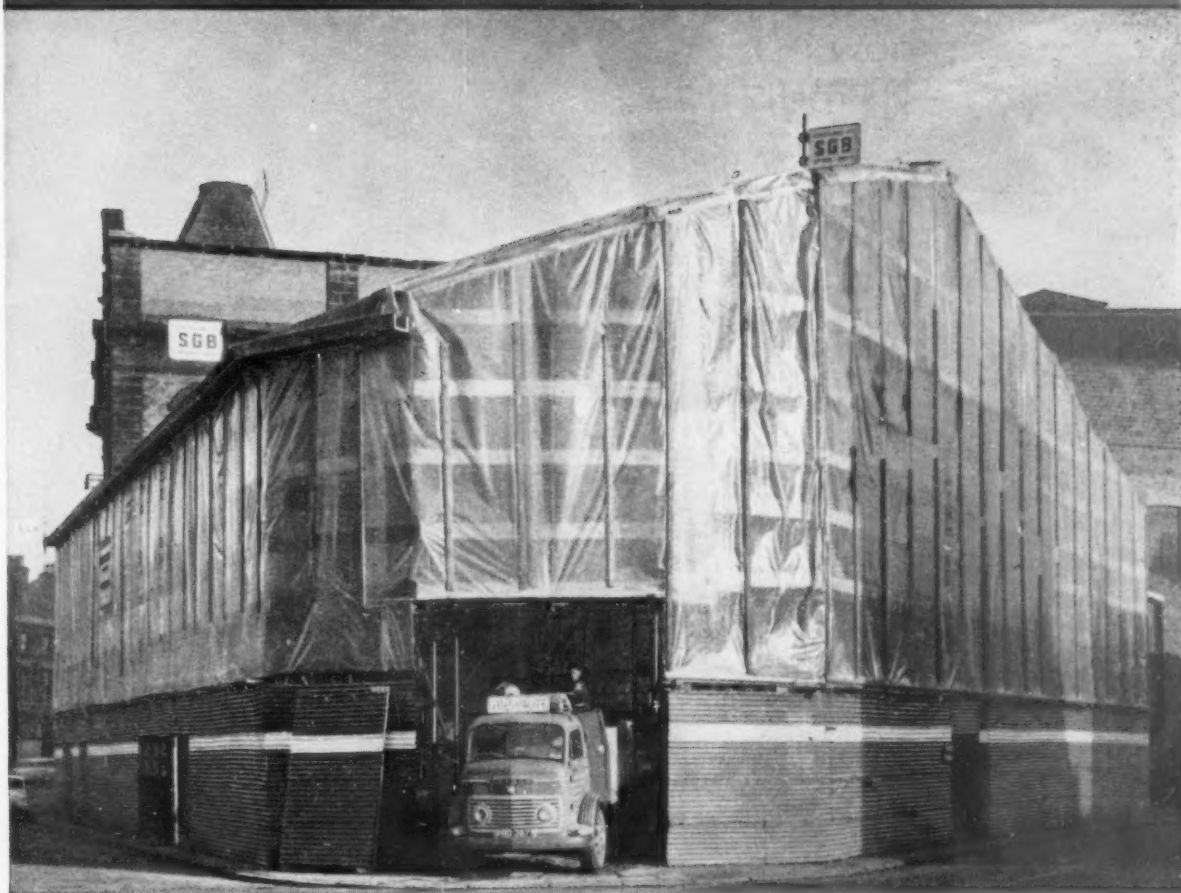
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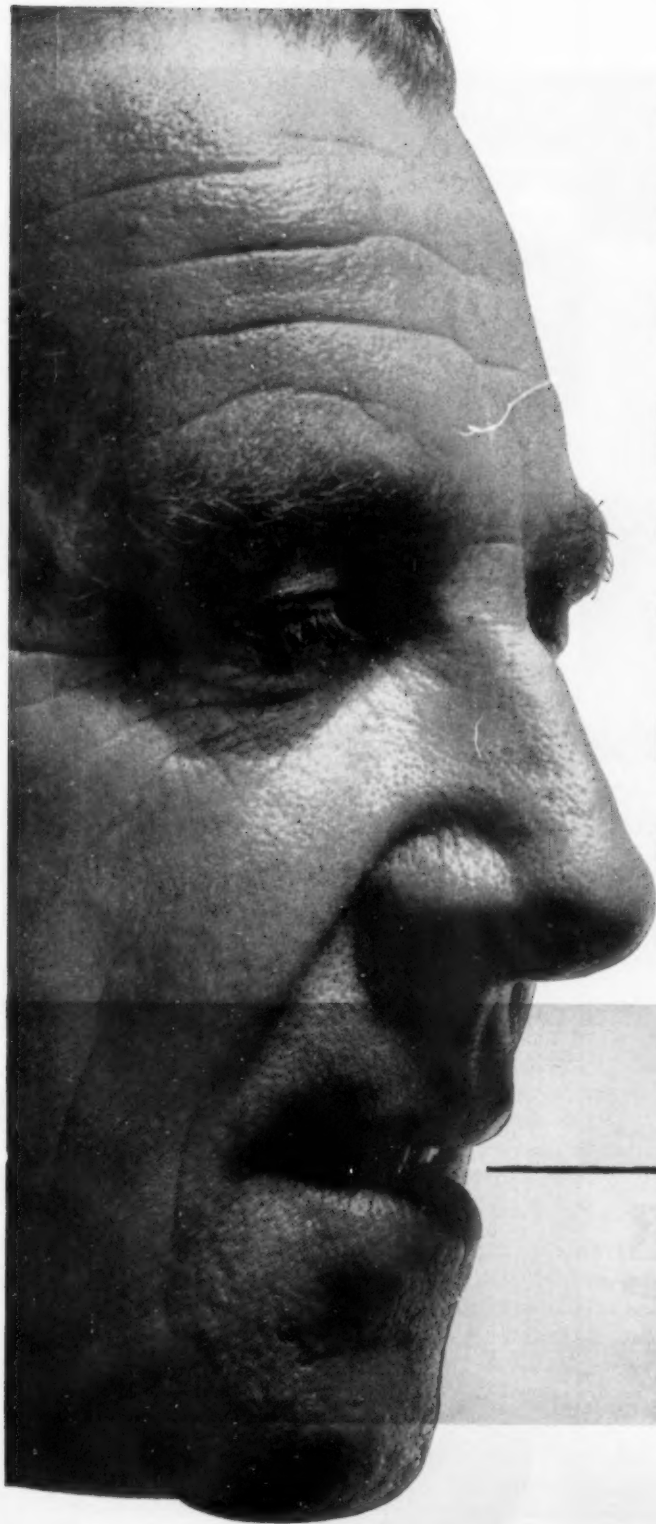
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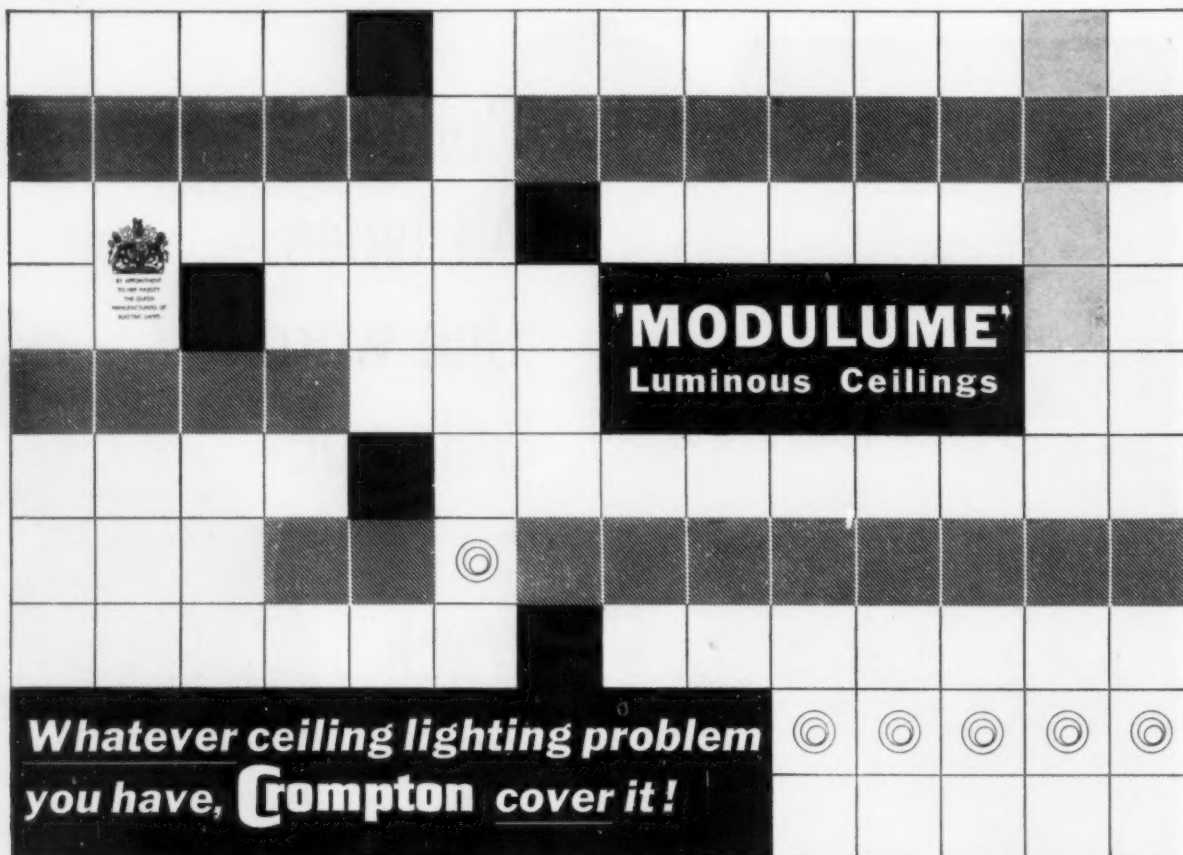
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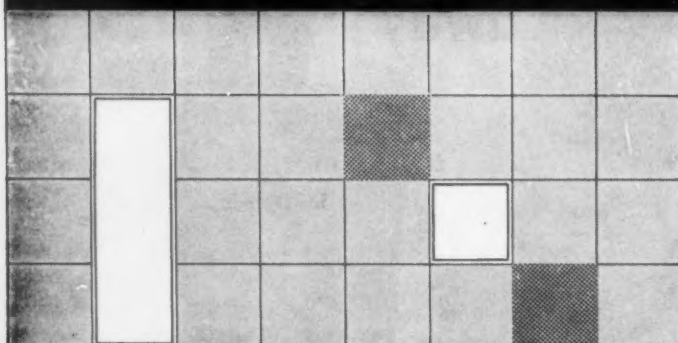


  
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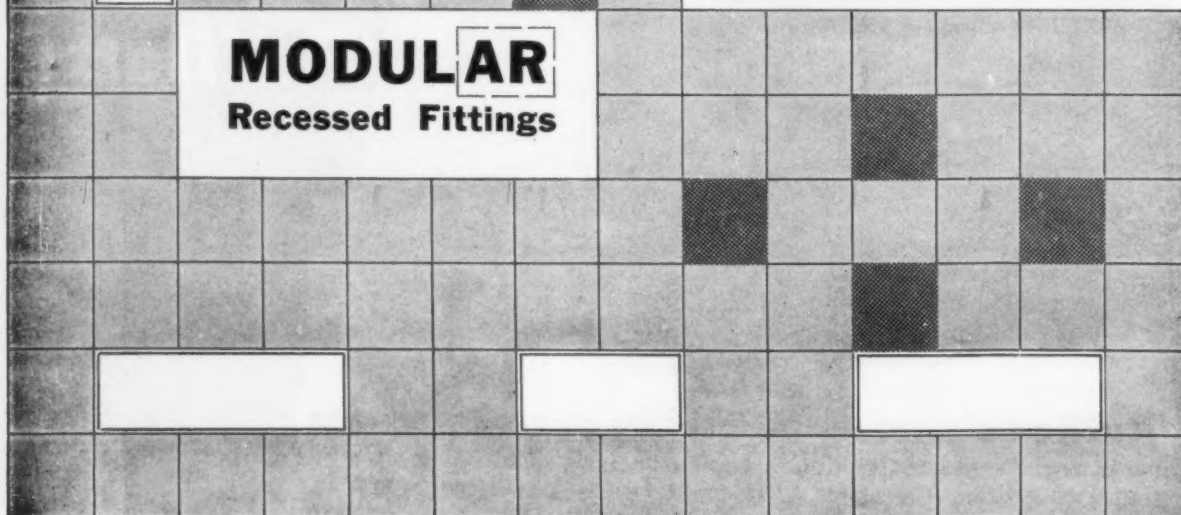


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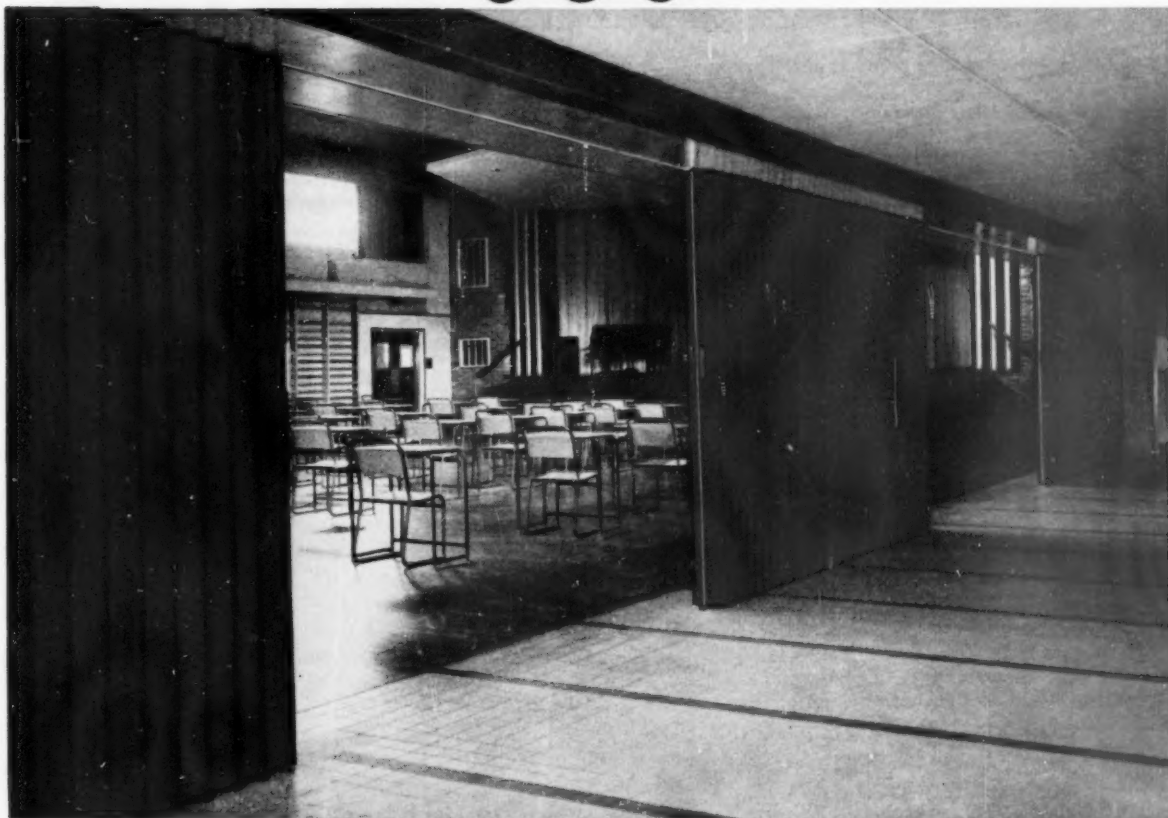
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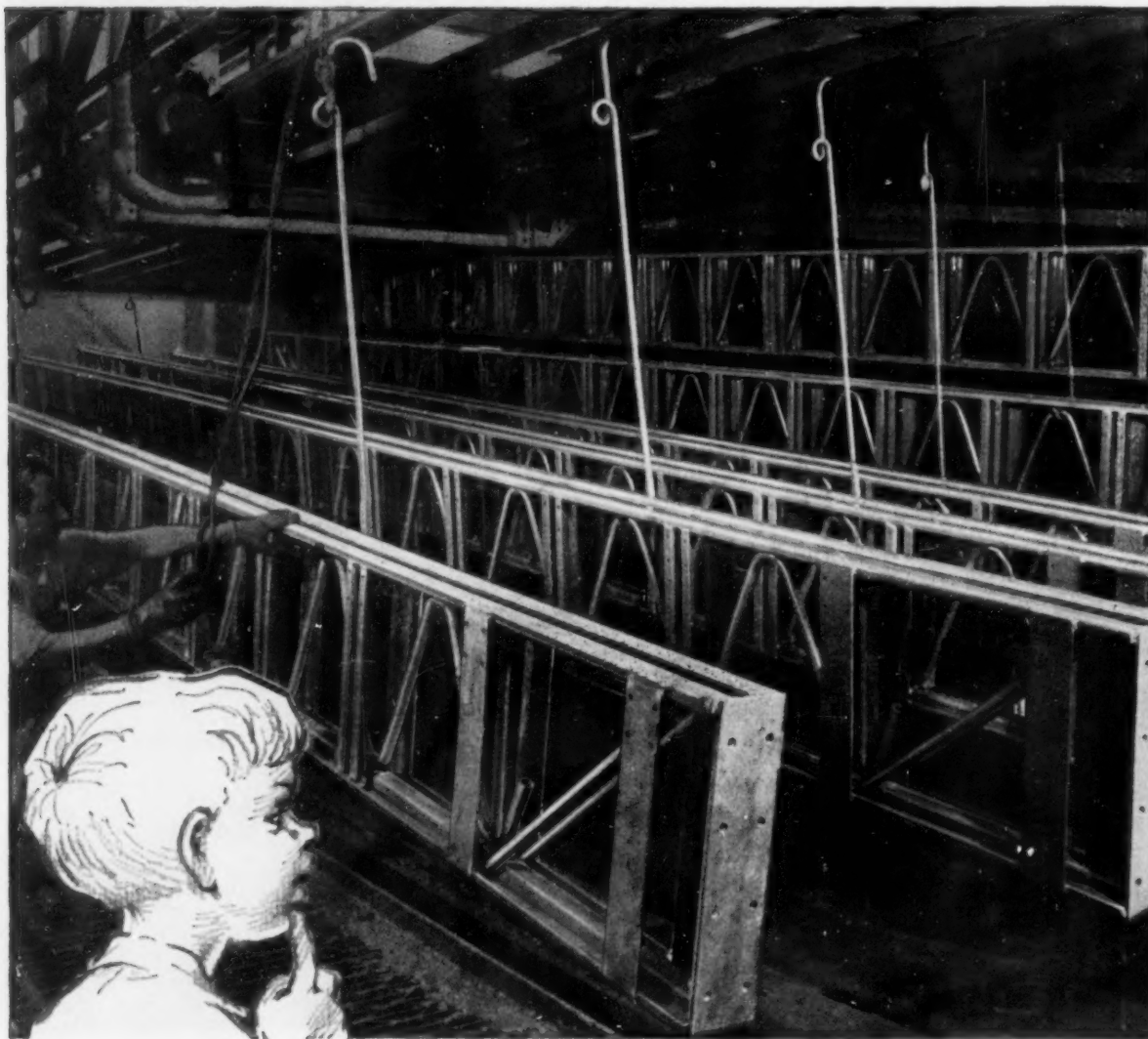
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The Architects' Journal

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### NOT QUITE ARCHITECTURE

#### Baum Gets With It

"Cruel?"

"Cruel client, cruel man. I fought him hard; the underlings all aghast. It was vile, oh grotesque! But in the end he respected me."

We were down in the Bride\* on a dark night and I filled Baum's glass and tried for the story. But lion, mirrors, choice Victoriana and pungent chiaroscuro failed to stage Baum the assassin of the DIA debates, where belated in the doorway he lurks for the Tsar, his impassioned orations preceding sticks of dynamite.

"Not quite yourself tonight?"

"I know," Baum said.

"It's a pity."

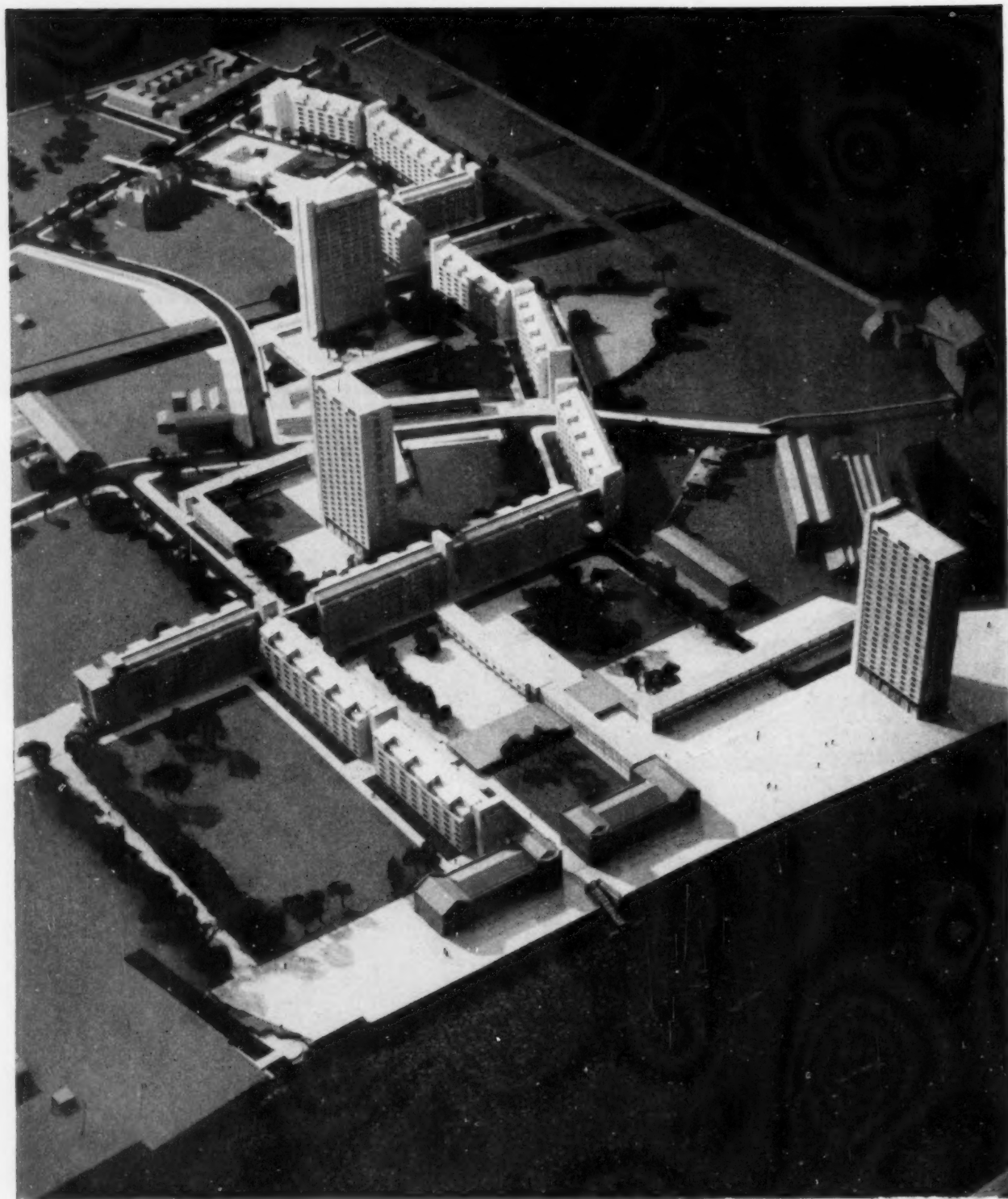
Stanislav Aloysius Baum, architect and designer, now emerging as the associate of Britain's best architect and of Britain's best designer, had, in discussing plans for a new departmental stores interior, very nearly punched the nose of Hamish Hopper-Cloud, Britain's worst provincial tycoon. All I wanted was the story. All Baum wanted was for titbits of scandal to reach his ears from Astragal's hubbub behind the curtain in the public. Or to wonder at the weird women that proceed through the Bride every night dragging horrid purple sacks. Or to bother with water that was beginning to trickle with egregious stealth across the flagstones. My last resort was two squibs. I mentioned the drawings. I mentioned the model.

"The drawings?" he said, black eyes suddenly smouldering. "Oh vile, vile—imagine that grotesque paunch crumpling the originals as he slowly craned across his desk, curtly waving aside the dyelines. And the model, the swine scratching on the gem with a penknife!"

"Good."

\* The Bride of Denmark, a private pub at the above address.





*Thames-side Development  
at Deptford*

Londoners will regain access to the Thames where industry has formed a continuous barrier for a century and more, when London County Council redevelops the Royal Victoria dockyard site on the south bank at Deptford. The scheme, on show at Deptford Town Hall until Saturday, and shown here from down-river, provides for 1,300 new dwellings and a shopping centre linked by pedestrian walks, and 12½ acres of new open space including a wide riverside walk of a "quayside" character, backed by two fine eighteenth-century warehouses, converted for modern use, and ending at a 24-storey block. (For further details, see Astragal and p. 529.)

"That's what, 50 words?"

"I want 600."

Suddenly there is commotion. The top light springs on and Mrs. Mop and Mrs. Pail are running around in panic and Astragal's knot can be heard breaking up and over most of the floor there is water welt-high. An AJ technical man comes meandering in, perfunctorily inspecting the bone-dry dung-coloured ceiling and bone-dry bottle-packed wall, although the trouble is obviously next door in No. 9, and when he's gone Baum looks at me and says, "So?"

"Baum, what artist at work would not eschew personal relationships or be hampered? But what art can go along without them? Understand your Hopper-Things and handle them. It's as much a part of your schooling as aesthetics."

"On earth," Baum said, "as it is in heaven?" Then he vanished. Where, to the loo? Ten minutes later he returned.

"I've found it."

What, the loo?

"No, the burst."

•

Past the imitation marble falls and up half a flight Baum dragged me to a locked door. I was trying the 999, 3-heave, Inspector Higginbottom drill when Mrs. Mop slipped a key in and Baum turned it and entered the tiny cluttered-up boxroom. It was bone-dry. Cramped, S-shaped in it Baum cleared a way to an aperture, then wriggled through on hands, knees and belly to be consumed by nether darkness as he cried out for light, while AJ functionaries took their leave—*Night night old boy, Who's that man in there? You coping? What about the boilers?* There weren't any boilers.

A box and a half of matches went and then Baum's head and shoulders popped out, black with cobweb fluff. "It's here. You need a plumber. If you can't find the mains send for MWB."

We all foregathered in the Bride. The flood had spread. There was a sense of siege. Mrs. Mop and Mrs. Pail asked for drinks. They both looked very brave. Mrs. Mop worried how they'd think she'd got hold of the box room key. I said I'd leave a note for the morning, a communiqué. Baum asked to be left out of it and objected to the passage (reading it upside down): *The burst is in the black hole beyond the boxroom. Colin Boyne told Mrs. Mop where the key was. Stanislaw Baum crawled in and coped manfully.* "Making Colin Boyne the master mind," he said, "and Stanislaw Baum a mere factotum."

But with that put right and the little old moustached MWB man from Passchendaele given a drink who turned the water off, all was well. "Except for Hopper-Cloud," Baum said.

"Oh well, the designs weren't bad when done, were they, although you try to keep them from your friends? All that really rankles is the client's treatment of the drawings and the model. I'll try to bring that in."

ROBIN MUDIE

## The Editors

### STEP ONE TOWARDS A SIMPLER LIFE

THE status of an architect depends on his professional competence. An essential aid to achieving and maintaining that competence is some form of technical reference system which is succinct, reliable and up-to-date. The AJ is now engaged—see page 525—in organising a programme of work which should go a long way towards realising that ideal reference system. Together with dozens of architects in leading public and private offices we are trying to assess *how much of the vast mass of printed matter which has been published for the building industry is pertinent to architects.*

The pace of research is making the architect more and more aware of the fact that the library is becoming an essential tool for him in order to maintain professional competence.

Nevertheless, the average architect today does not often engage in academic study of a subject which is new to him because he rarely has the time to sort out from the myriads of references in the index of a large architectural library those items which are particularly relevant to his problem.

The AJ's aim is that of simplification and rationalisation. We are asking busy practising architects to work overtime and produce, for the sake of the profession at large, two things: a check list on the design procedure for all building elements; and the names of the best technical references to help the architect come to a decision. When these are published, every architect at the drawing board will have in his hands the nucleus for his own reference library.

### PLANS FOR PLANNERS

The Town and Country Planning Association has embarked on a series of studies of "the amount of overspill that recent redevelopment and growth of population necessitates" and will be making suggestions for the number of new towns required and for the expansion of specified existing towns. The views of local authorities have been, or are to be, got at special conferences before the resulting memoranda are given to the Ministry and publicised. The first statement, on the London region, is to be published this week, and others, on the West Midlands and Merseyside and Manchester, will follow. With the TCPA probably thus being as busy and influential as it has ever been, it is an appropriate time for the new-town and garden-city advocate and great protagonist of planning, Sir Frederic Osborn, to retire from the chairmanship of the executive committee of the TCPA after twenty-five years in office. As announced at last week's AGM he has been succeeded by Peter Self, author of *Cities in Flood*, and lecturer in public administration at the London School of Economics, who will doubtless always remember Sir Frederic's demand that we "do our damndest to get a stronger and more co-ordinated policy into action."



## NOT-SO-CONQUERING EERO

It was only because Eero Saarinen was billed in the *Radio Times* that I managed to sit through Dr. Bronowski's TV feature on "The Vision of Our Age." And when we got to Saarinen it simply wasn't worth it. He looked thoroughly embarrassed in his film sequence with the garrulous doctor, as they talked beneath the curves of the Idlewild airport building. It was clear that the interviewer was out to prove something ("Is this building mathematical or romantic?") and the architect was trying to be polite. All we got from a stumbling exposition by Saarinen was the revelation that three fundamental principles of architecture had been generally recognised up to 10 years ago (function, honest expression of structure and the "technological expression of our time"), and that one more had been added since then—"in some way a building must express what it is doing." Bronowski missed a good chance of asking exactly what Idlewild was doing (Springing on its prey? Taking off?), and also lost the opportunity of challenging his quizzee on the statement that "the Grosvenor Square Embassy had to relate to its surroundings."

\*

Still, Dr. Bronowski did think up one good phrase for the programme.

"The architect," he said, "should be a leader of society." This made up for some peculiarities elsewhere in his discourse. Greek mathematicians, he said, as he showed us round the Parthenon, "didn't resent what the architect did with their blueprint." The implication was that modern mathematicians (or engineers?) do nurse resentment. Perish, to coin a phrase, the thought.

## DAZE OF RECKONING

Dr. Bronowski was helped in his programme with Saarinen by advice from the Council of Industrial Design, who presumably recommended what particular chair, coffee pot and electric mixer he should show as examples of how "our way of looking at things is being wholly transformed." Later in the week another BBC programme gave a useful hint on how the CoID themselves might find a new way of looking at things. In "Lifeline" a typist was hypnotised and asked what she would think of the design of the chair she was sitting on after eight hours' work. Although she had only been on it for two minutes she gave a detailed description of the discomfort it would cause after another four hundred and seventy-eight minutes. We were then told that people who had been hypnotised for two hours were able to give criticisms of a piece of machinery which were just as constructive as those made by people who had worked on it for five years. It seems that all the British Standards Institution and the CoID need on their pay roll now is a good hypnotist. Away with the anthropometrists; bring on the Svengalis!

## ANOTHER SOUTH BANK

An exhibition of the Deptford housing scheme, which is illustrated elsewhere in this issue, is being put on by the LCC at the local town hall until the end of the week. (No notices outside though: is someone afraid of being accused of political propaganda in LCC election week?). It was particularly smart of the Council to leap in and buy the old Naval Victualling Yard when its use ran out, and even smarter of them to design the housing scheme for this 45-acre site (which includes adjoining land still to be acquired) in such a way that twelve and a half acres

could also be used for public open space. By opening up the waterfront as a paved, landscaped promenade they will give the borough its only access to the river and to the fine views of the Royal Nautical College and the Cutty Sark in dry dock—an earlier nautical touch by the LCC.

## RUM GO, BUT STORE STAY

I was glad to hear that the LCC hopes to preserve two massive rum stores at Deptford as bachelor flats ("without deodorising, we hope," said an architect), and that a fine Georgian terrace is being retained for use by the Navy. The warehouses are good, solid examples of the functional tradition with a central spine wall, pierced by arched openings, carrying main timber beams which in turn support 10 in. by 4 in. joists at close centres. (In short, enough timber to roof and floor a neighbourhood unit by economic TDA standards.) They will not be easy to convert, but they are worth any trouble taken over them.

\*

Who, by the way, would take this trouble—and who would provide housing for four and a half thousand people for £4.5 m. if the LCC were to be abolished on the recommendation of the Herbert Commission?

## MORRIS &amp; CO.

A correspondent who went to the opening of the centenary exhibition of Morris & Co. at the Victoria and Albert this week reports:

For anyone like me, brought up from infancy in a bower of myrtle pattern wallpaper, this show produces pangs of nostalgia rather like cutting one's first teeth. I have looked Morris's myrtles up and down—searching hopefully for a few birds or butterflies which I thought would much improve it—in every light, from early dawn to nightlight glow, and I still consider it the most satisfactory of all wallpapers. So why is it not on show at the V & A? Perhaps because it is still one of the best known.

Not everything the firm of Morris did still has the same appeal—there is something repellent about those very complicated curly patterns in bice green and mustard colour, and even



some of the wallpapers are more enchanting in imagination than reality. Perhaps in another 50 years we shall find them quite beautiful again.

Meanwhile the V & A's small exhibition presents a bit of every characteristic product of the good old firm, from stained glass windows to the famous and beautiful "Sussex" chair, the tapestries and chintzes to candlesticks, copper lamps and spirit kettles which breath the atmosphere of cosily luxurious but progressive tea and conversation against a background of butlers and parlourmaids.

In fact it can be said that the simpler Morris and his partners were, the better they were: the myrtle and willow patterns are the most successful papers, the "Eyebright" chintz preferable to the "Acanthus." Wealthy patrons, in fact, were a bit of a menace, even when they were up in arms against crimson plush.

What the firm would have flourished on was the utility regulations—but unhappily the glory had departed long before the company was wound up in 1940. Had anything new of merit been added since Morris and Rosetti's day? If so, I missed it at the exhibition.

The documents on show, by the way, are all full of interest and charm, such as dye books, day books and a nice minute, written in Morris's hand, which records: "Agreed that Rosetti having drawing or cartoon of the 'Crucifixion' for the Dedlicote window centre light, Jones do one of 'Nativity' for one side light and Morris one of the 'Resurrection' for the other, and that Jones's price be £5 but that Morris only have £3."

#### FINNY-MINOR

Do you like a vehicle with "built-in comfort, superb suspension, positive brakes?" My quote comes, unbelievably, not from the "E" type Jaguar hand-out, but from one about the new Pedigree pram with its "fin" finish and its suggestions of stop lights and directional wipers. Fun for the baby, no doubt, but what about the proud pusher? For him there is good news from America, where a designer has perfected a perforated shoe which gives an air change with every step. A convertible model with a sliding top is available for hot weather.

ASTRAGAL

## Architects and Technical Information

What should be the contents of the practising architect's personal reference system?

It has now been officially recommended that the SfB system of classification should be adopted for filing technical information. What has not been recommended is what technical literature should be beside every architect's drawing board.

The JOURNAL, with the co-operation of a number of leading public and private architectural offices, is now attempting to solve the problem of what literature should be available.

In brief we are proposing to make SfB classification the formal framework into which technical information must be fitted. We are using the "Building Element" headings (1) to (9), as it is in the design of the elements of a building that architectural problems mainly arise. It is therefore appropriate to file the technical information which can help solve these problems under these element headings also.

We are asking our architect collaborators to do three things:—

- (1) To prepare a design procedure for each of the 60 or so principal element headings: that is, a check list of all the aspects of design which must be borne in mind.
- (2) To prepare a list of references related to this check list, telling the architect where to look for data needed in all stages of the design process.
- (3) To prepare a short article which will amplify or simplify one or more aspects of the bibliography.

The result of this work will be published in a special series of weekly supplements to the JOURNAL. This will be planned to start in mid-1961 and the list of SfB building element headings will be completed in about a year. The series will give every architect the essential skeleton for his own personal library.

Our aim is simple, but the detailed implementation of it is extremely complex. It is because of this that we have already asked for help from a number of busy offices. This invitation we now extend to any architect who can help make this venture a success.

## A.J. Fellowships: £3,000 to be awarded

Following the success of Dargan Bullivant, the last holder of an AJ Award, in his study of information for the architect, the AJ now offers £3,000 to be shared, according to skills and experience, between two architects who can devote a period of about a year to developing, co-ordinating and editing the programme briefly outlined above. They will be required to work in the AJ's offices. They will receive secretarial assistance. The holders of the award will work under the direction of the JOURNAL's Editors. Applicants should write to the Editor, THE ARCHITECTS' JOURNAL, 9-13 Queen Anne's Gate, Westminster, S.W.1, giving full details of their experience.



# LETTERS

*John Madge, M.A., A.R.I.B.A.*

*William G. Reed,*

*M.C.D., B.Arch., A.R.I.B.A., A.M.T.P.I.*

*Henry R. Humphreys, A.R.I.B.A.*

*H. V. Molesworth Roberts*

*K. M. G. Kirkbride,*

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

*Kent Reader*

*E. A. Tornbohm,*

*A.R.I.B.A., A.M.T.P.I.*

*D. L. Robinson,*

*Dipl.Arch., A.R.I.B.A.*

## Science and Dr. Banham

SIR: Your letter from Mr. Ritter (AJ, March 30), in which he attacks the human sciences, is both muddled and inaccurate. He imagines that one can and should contrast the function of creative imagination with the function of scientific analysis.

In fact, the scientist is just as capable of creative imagination as anyone else, and the human scientist is at least as likely to produce fruitful insights about human needs as the architect, who may only be echoing the needs felt by himself and his own circle; in at least two of the seven cases cited by Mr. Ritter the attributions are wrong.

When it comes to scientific testing and analysis we naturally have to rely on professional skills which, even in the human and social sciences, are now quite well developed. The fact that a client cannot easily articulate his needs is a challenge and not an excuse for relying on the intuitions of the architect. The architect is kept quite busy enough in exercising his skills in satisfying needs without also having to gauge them.

Mr. Ritter's last sentence, in which he blames the "Human Sciences" for closing down the Peckham Health Centre, is merely ludicrous.

JOHN MADGE

Rickmansworth.

SIR: While still struggling to sort out the 23 authorities mentioned by Mr. Ritter in his letter under the heading "Science and Dr. Banham" and of course charmed by his cows that are loved and plants that are blessed, I cannot agree that there is anything invalid in my letter about his articles.

My point is simply that in a series of articles under the heading "Radburn Planning" his examples do not, except in a very few cases, fully indicate the potential in the Radburn idea, and that there is, at present, a lot of loose talk about "Radburn" plans which is very inaccurate.

Stein and Wright accepted the motor vehicle

and were not afraid to face its consequences, so they avoided many of the anomalies in the layouts with which Mr. Ritter illustrated his series. They also accepted that wherever possible, and certainly in schemes where there were houses with gardens, open space associated with dwellings should communicate with the pedestrian system of routes to schools, shops, play areas and local open spaces.

It must be clear to anyone from most of the layouts illustrated that this is not happening: garages and vehicle access ways are all mixed up with the only available private open spaces and a separate system of visitors' parking areas and access paths has to be provided to serve "fronts" of dwellings, thus increasing the cost of road and external works and to some extent, duplicating certain means of access.

As one would expect in a country more traditionally used to the motor car, the most straightforward and logical examples are in America and the recent schemes by Mies Van Der Rohe and Doxiadis exhibit this simplicity: most British schemes still have implicit in them the idea that (a) the car and its garage must be kept out of sight, (b) the street, pedestrian type, is the thing and to blazes with what goes on behind the street façade; if it is a mess of chain link and corrugated asbestos, it is just too bad.

Since we have to live with what is behind the street façade as well as what is in front of it, the use of every square foot of space in and around a dwelling and its exact relationship with the dwelling and its environment, is of primary importance, and we cannot afford to have any inaccurate terminology when describing housing layouts.

WILLIAM G. REED

Basildon, Essex.

## Detail of a Fallacy

SIR: I was amazed to see a hoary old fallacy raising its ugly head in the working detail (22) 110 published in the March 30 AJ. It says, "The sound transmission through this partition is reduced by the inclusion of the cupboards. . . ."

Cupboards hardly ever add to sound insulation unless the cupboard doors have a proper seal. These seem to have "normal cracks." Secondly the cupboards in this example occupy only a proportion of the total area of the partition, and therefore the overall insulation would be unlikely to exceed by more than a decibel or so that of the rest of the partition which is a single sheet of (admittedly thick) glass, even if the insulation through the cupboards were particularly high.

Lastly, although it says there is a rubber door seal nothing is shown of this in the bottom r.h. corner of the detail (hinge side of door). This detail shows the usual generous  $\frac{1}{4}$  inch crack which is customary round frameless glass doors and whether there is actually a rubber seal there or not, it seems quite clear from the photograph that there is none at the bottom of the door.

There is no indication of how the partition

is sealed where it touches the floor or ceiling and there seems plenty of opportunity for the production of built-in cracks at the junctions between the cupboard sides, top and bottom with the metal mullions and transoms. I would predict the net overall insulation of this partition to be in the region of 25 dB, a value which hardly justifies the claims made.

I think it completely wrong to give the idea that any such technique produces good sound insulation. Indeed, only by exercising extreme care in detailing is it possible to get even moderate insulation out of this kind of construction.

HENRY R. HUMPHREYS

Chesham, Bucks.

## The Library and Information Services

SIR: As it was not practicable to make certain points at the meeting addressed by Mr. Bullivant recently, may I do so through your columns, as one who was responsible for cataloguing and classification in the RIBA Library for 30 years?

(1) Is there not danger in the joint use, in any institution, of two different classifications (in the case described, UDC and Sfb)? Use of both means double labour (as indexing the AJ volumes reveals); the complete difference of notation may prevent confusion in that respect but the difference of subject sequence may be bewildering; on the other hand, any attempt at assimilation, e.g., by subdivision, by intercalation, might produce unpredictable chaos. (This is said independently of any question of the merits or demerits of the specific systems; but it may be remarked in passing that the UDC need not be as cumbersome as many seem to fear, since shorter numbers can be selected as desired.) (2) Is it wise for the RIBA Library's "technical section" to continue separately, structurally removed from the existing extensive building science shelves? It might, by tacit antithesis, convey the idea that the latter does not exist. Obviously the small collection of recent "star" works cannot exhaust all still-useful sources. Would it not be better to publicise the main section, differentiating the "approved" books by marking on the spines? (This is apart from the disruption of an existing shelf sequence made to accommodate the section.)

(3) The only answer to the lecturer's problem of the scattering of information in different publications would obviously be to combine all those of general scope. The RIBA Library Bulletin (to take one instance) could be more comprehensive than it is: e.g., the "Accessions" section, in my day, contained individual entries for all B.S.'s, and similar publications, under the relevant subjects, but (it seems) no longer does so.

H. V. MOLESWORTH ROBERTS

Chairman of the U.D.C. Panel on 69/71 Building, Town Planning and Architecture, B.S.I. Wallington, Surrey

## Tin Mine at Zennor

SIR: The proposal to open the Carnellloe mine at Zennor has received so much pub-

licity both locally and nationally, that I read Astragal's paragraph with some dismay in March 16th's *Journal*: particularly as he seems to add nothing of value to the subject. Within the boundaries of Cornwall the less said from now on the better, until the public enquiry is held in May. But since yours is the first mention in the *Architectural press*, and as some architects may not have television but may read *THE ARCHITECTS' JOURNAL*; may I be allowed to redress the bias that Astragal shows, as he is clearly on the side of the opposers.

Firstly, may I give you some idea of the true nature of the protagonists. The "Pros" include the developers, the tinner's lobby (which includes all with a not necessarily financial interest in tinning past or present), those with an interest in the growth of industry in Cornwall and its economic and social condition, out of work miners (now only a few), others suffering chronic unemployment, some artists. The "Cons" include the preservationists, the thoughtful ones such as the National Trust, and "stop industry in rural areas at any price" boys at the other extreme, and those who hate industry of any sort anyway, some with a vested interest in tourism, some artists.

Secondly, some arguments in favour of the mine that you ignore. Unemployment in the area (West Penwith) is constantly well above the national average, particularly outside the tourist season. Tourism is an unstable employer and many consider it a demoralising one. The money made out of mining (in wages) may actually benefit more local, that is, Zennor families than tourism does. Zennor was once a mining parish whose population in the last century has reduced by about three quarters.

The tin mining industry in Cornwall badly needs the encouragement a successful venture would give if you concede that metalliferous mining is an activity that is worth encouraging in Britain in an absolute sense. (Ores do not conveniently confine their existence to the less beautiful parts of the country.) On this issue two points.

1. The Carnellor mine happens to be the chosen one for what I understand are good technical reasons.

2. Your remarks on the price of tin need contradicting. The period of slump was from about 1890 to 1920. Reasons: cheap Malayan tin (still the West's main producer). Results, very high costs of pumping dry and installing modern equipment. Unlike some countries (e.g., Canada), there is no fiscal benefit on capital put into mining. The world price of tin since 1920 has not been enough to encourage people to risk capital. But in Malaya alluvial tin ore is running into short supply, labour costs have risen and expensive equipment is being installed (much of it is made in Cornwall). Thus present higher prices show clear signs of continuing. Two mines, Geevor and South Crofty have remained open and presumably make a profit.

Thirdly, may I put some of the arguments about the effect of a mine on the amenity of a beauty spot. Before following the main argument one must remind you that Cornwall and particularly Penwith has come to

terms with, and has been to some extent created by the mining industry over a period of about 3,500 years.

The problem as the artist you quoted said, is one of making sure that the mine is positively a thing which gives visual delight (one thinks of Aalto's Sunila factory); and of creating a situation where industry of any sort can live with a countryside of any sort, so as not to drive away those who come to enjoy the country for what is unique in it. This has worked with dams in Wales and Scotland, why not a mine at Zennor?

In practical terms there are three problems: 1. To design the surface buildings, wire-scape, roadscape, etc.

2. To design any new housing that may be required. This must obviously be in Zennor. Cannot there be such a thing as a modern mining village which is not a slum?

3. To control the dumping of mine waste. 1 and 2 are obviously jobs for an architect of the highest calibre. If it can't be done what hope is there for any such project anywhere? 3 is obviously a job for the planners. It is a difficult one, but if they can't do it what is the use of having them at all? This is just the job they were created to do.

This is the true *casus belli*, and the opposers have done a lot of harm in obscuring it. If instead of opting out of the 20th century they had used their energies for these ends, the public at large might have had a glimpse of what the real problem is, and we might have had some assurance that the whole project is carried out properly. It will not be easy to persuade the developers and the local authority to employ highly qualified architects and landscapers. After the enquiry, whatever the decision, the problem will remain, because if it is not Carnellor it will be St. Agnes, or Castel an Dinas, or Cripples Ease or any of a hundred other places.

MICHAEL KIRKBRIDE

Feock, Cornwall.

## Margate Redeveloped

SIR: The scheme for the development of Margate published in the *AJ* for March 16 is not the first to be put forward for the town: an earlier scheme was prepared by Frederick Gibberd but this was set to one

*Margate harbour—destined to become a car park?*



side and the present scheme prepared by the borough engineer.

It is in my opinion a very poor scheme generally and in some respects extremely bad. It would grieve me more than I can say to see the harbour partly filled in and used to display standing cars all through the summer. That may perhaps be discounted as merely a sentimental desire to retain what is no longer useful, but there is no setting aside of the fact that if certain proposals are executed the whole of the upper part of the old town will cease to exist as we have known it, that most of the small traders will eventually go out of business, and the very heart of the town will be despoiled by the kind of commercial development associated with speculation.

One of the two fine early nineteenth-century squares will be brutally mishandled and a ponderous Civic Centre will browbeat and bully the other. It is, in my opinion, wrong in any case to site a new Civic Centre as is now proposed flanking a square which should be the heart of a very lively other kind of activity, as it has always been in the past.

KENT READER

Canterbury.

## Two TV Victories?

SIR: All the words that you can conjure up will not make a resounding victory for the architectural profession out of the TV interview showing Peter Chamberlin at Southwark School.

It was unkind to highlight the unforgivable and elementary blunders in a school which may be good as a whole, but, judging by what was put over to the viewing public, the impression was most disconcerting.

Many potential clients of the profession have ribbed me about the adverse publicity and I have had to blush. The only laurels went to the well primed schoolgirl. Victor Pasmore also cut a sorry figure on TV and his comical verbiage did little to convince the cleanshaven listeners. I wonder how many of his disciples have seen the town which he claims to have saved.

By all means publicise the profession on this excellent medium, but *the essential is to attract clients*, not frighten them away.

E. TORNBOHM

Darlington

## Cricketers wanted

SIR: The playing members of the RIBA Cricket Club now total 23. The Committee feel that there must be other members of the profession who play cricket and who could be persuaded to represent the Institute's Cricket Club.

The Hon. Secretary, D. L. Robinson of Ronald Ward & Partners, 29, Chesham Place, S.W.1, would be very pleased to hear from any prospective member. Membership of the Club is open to probationers, students, associate and fellow members of the RIBA.

D. L. ROBINSON

London, S.W.1

# NEWS

## RIBA

### *Statement on Scales of Fees for State-Aided Housing*

The RIBA is to end the present scales for State-aided housing schemes and multi-storey flats from this May 31—a subject of prolonged but hitherto unfruitful negotiations with local authorities.

In a statement published last Friday, the Council announced that "From June 1, 1961, the normal RIBA conditions of engagement and scale of professional charges will apply to all work previously covered by the RIBA scales of fees for state-aided housing and state-aided multi-storey flats.

"As housing involves a repetitive use of type drawings which is not contemplated by the scale of professional charges, an application of the scale to work in respect of repetitive housing has been drawn up and will be effective from June 1, 1961. This will not affect the arrangements sanctioned by the Council in 1959 for work in connection with private housing development, in which the fee is based on the selling price of the house to the public."

## LIGHTING

### *The New IES Code*

In recent years, the Code of the Illuminating Engineering Society has been the only established reference available for architects and electrical consultants to use as the basis for natural and artificial lighting design. The appearance this week of a new and completely revised edition is thus a matter

of considerable importance; particularly so, because it includes a general increase in the recommended levels of artificial illumination for many types of interior.

The first section of the Code, which defines the principles of good lighting, is both precise and comprehensive. It sets out the now generally accepted approach to lighting design, considering it systematically as one aspect of the human environment. In addition, this first part deals with such matters as the maintenance of installations, and the provision of emergency lighting. So far excellent, but the rest of the Code is by comparison a document sadly out of balance. This is largely due to a great deal of attention being paid to the calculation of glare, whilst daylight levels have been almost completely omitted. The Code includes a recently developed technique, consisting mainly of a series of tables, whereby the glare resulting from artificial sources can be predicted for almost any normal installation. This important new information is indeed a notable step forward, but you cannot help wondering whether it deserves to be included in the Code (occupying as it does about a third of its total length) and whether IES should not have published it as a separate document. Alternatively, if the Code is to include such material, this should surely be alongside the tables and other material necessary to carry out all the standard lighting calculation techniques. This is a matter of editorial policy, of course, but much more serious is the difficulty that the drafting committee have evidently got into with regard to daylighting. They have stepped up the recommended levels for artificial lighting, and this has left the natural lighting side in a completely unresolved state. The long-established assumption has gone, that 5 lumens per square foot was the equivalent of 1 per cent daylight factor, so that you can no longer convert the artificial levels for the

purposes of daylight calculation. Instead, they have given six recommended daylight levels (in comparison with 350-odd for the artificial). Consequently the usefulness of the Code for daylight design has been almost completely destroyed, and one hesitates as a result to say that it still earns a place on the architect's shelves as a design reference. All this may seem rather severe criticism, but the preface to the Code makes it quite clear that it is specifically intended as a design reference for architects just as much as for lighting engineers. Despite this one cannot help noticing that there is no architect on the drafting committee.

A BS Code of Practice on Lighting is now desperately required, and it is to be hoped that one can be prepared quickly, with the co-operation of *all* the various interests concerned, not only architects and lighting engineers, but manufacturers and users.

## COMPETITION RESULT

### *Hospital for Sheffield Regional Board*

The result has been announced as we go to press of the architectural competition for a general hospital at Boston, Lincolnshire.

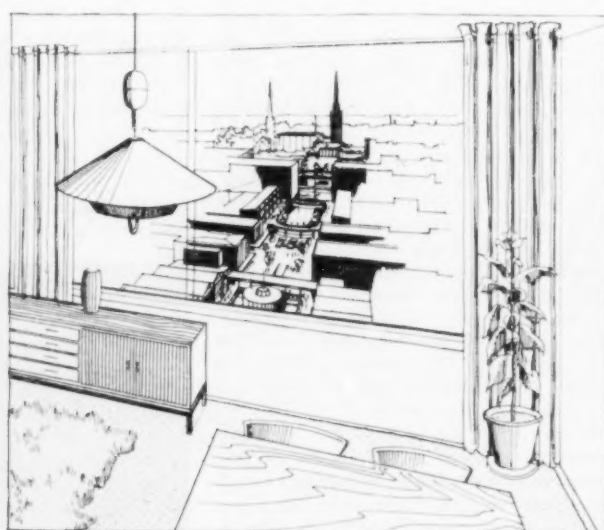
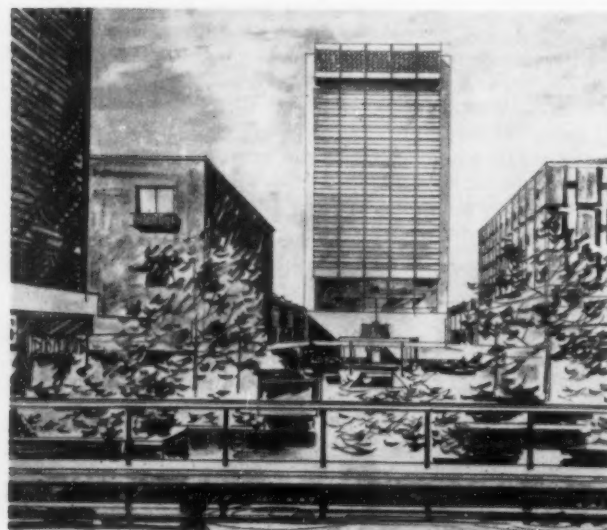
The winners, who will receive a premium of £2,000, are Grenfell Baines & Hargreaves (who last week announced that they are in future to be known as Design Partnership). Other competitors who reached the second stage and receive premiums of £500, are Charles B. Pearson & Son, V. J. Sames, John R. B. Green, Charles H. Hyde and Clifford Kingstone.

The assessor, S. E. T. Cusdin, O.B.E., F.R.I.B.A., who replaced John Murray Easton for the second stage, for medical reasons, highly commended the entry by Charles B. Pearson & Son.

Full results will be published next week.

## COVENTRY'S TALLEST BLOCK

This 23-storey block of flats has been designed by Arthur Ling for the Coventry Architectural and Planning Department to complete the city's central precinct, forming the western end of the shopping area which extends the cathedral precinct and balancing the spire of the old cathedral which completes the eastern end of the vista. Left, the flats, seen from the pedestrian precinct; right, the view of the cathedral that will be seen from the flats.



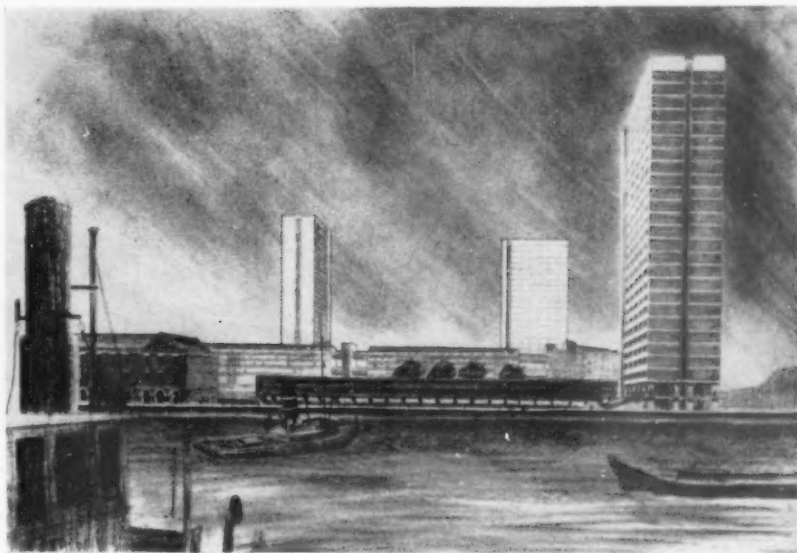


# Thames-side Development at Deptford

In redeveloping this 45-acre site on the south (actually the west) bank of the Thames, the LCC (Chief Architect, Hubert Bennett, Chief Housing Architect, Kenneth Campbell) has taken into account the nautical and historic associations of the area, as well as the need to preserve and renovate the dignified Georgian houses and warehouses and old, walled garden with vine and mulberry tree which have remained embedded in the confusion of dockside developments since their time. The riverside area will open up this Georgian enclave, while behind it will be contained by a "city wall" of eight-storey dwellings, to which the three 24-storey blocks provide a stimulating contrast. These dwellings, an old people's home and a new shopping centre will be linked by a two-level pedestrian circulation system, separate from wheeled traffic, for which, however, a new road bridge across the Surrey Canal will later be provided. The tower blocks and "city wall" will provide a new type of "split-level" flat now being developed. In these, tenants go either upstairs or down, in alternate dwellings, to their bedrooms, bathrooms being at an intermediate level, the dwelling units interlocking vertically. The quayside warehouses to be preserved will be converted either to dwellings or to provide communal facilities for the area: in any case a tea room is to be included. The whole scheme is expected to cost between £4 and £5 million.

*Right, the model from the east showing how pedestrian walkways link Deptford Park (in the foreground) with the central shopping area and new flats.*

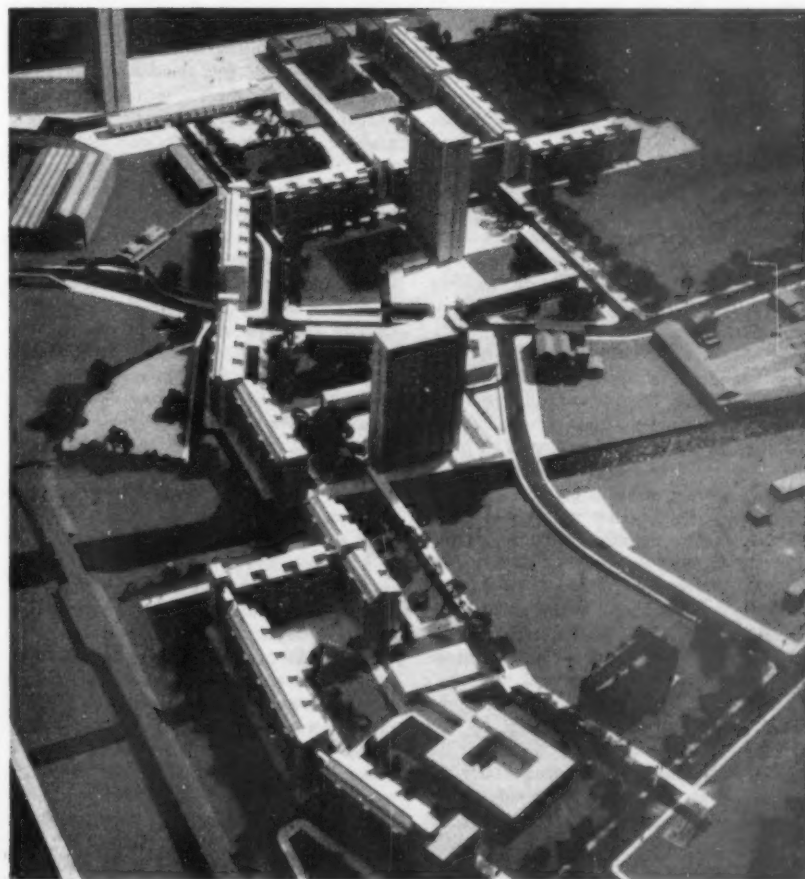
*Below, sketch of the existing waterfront at the Royal Victoria Yard*



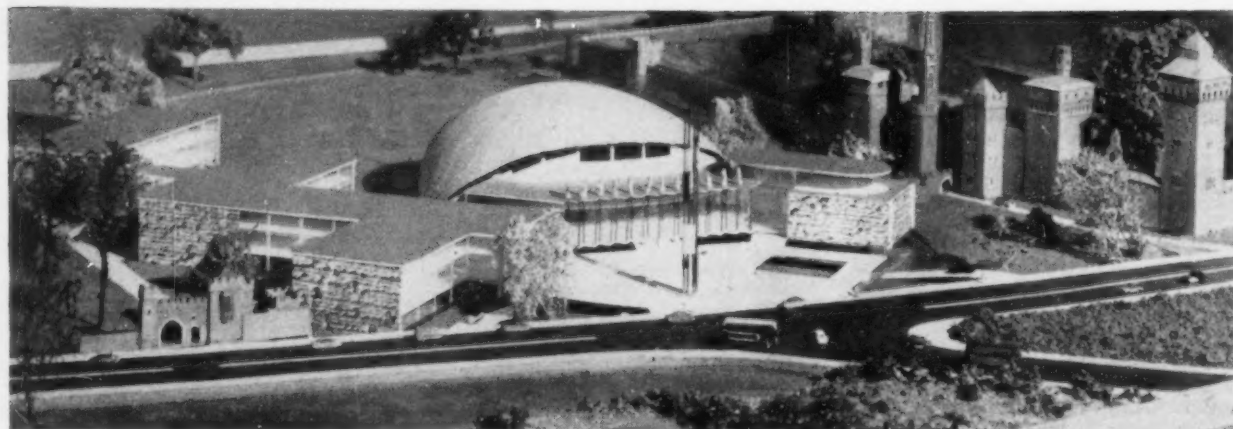
*Above, sketch of the scheme from across the river, showing old warehouses on left, "city wall" of flats behind, and the three tall blocks*



*Left, sketch of the quayside walk, which incorporates the famous River Side steps. Paving bollards and cannon are to give it a nautical air*







How much is it due to Welsh quickness and fervour, and how much to lack of competing entertainment buildings in Cardiff, that within little more than a year of the setting up of the St. David's Theatre Trust plans have been presented to Cardiff City Council for a National Theatre and cultural centre in the park alongside Cardiff Castle? The Trust was set up on the initiative of the Welsh Committee of the Arts Council, and is now to appeal for £275,000 to build the project designed by Elidir Davies (who had a successful rehearsal in the Mermaid Theatre). The model, seen from the front here, shows the melon-slice dome of the main theatre building, with high-level windows peering rather oddly under the rim. This front part of the building will house a foyer and art gallery, behind which the fan-shaped auditorium holding 900 will be designed in one tier (as at the Mermaid), fronting a many-purpose stage of some ingenuity, with revolving central area, backed by a platform which can be raised or lowered as desired, and with removable "picture frame" side walls. To the right of the front courtyard is a restaurant and student theatre, while the double-Z-shaped building on the left contains a library and offices.

## HOUSE OF COMMONS

### *Housing Bill Debate*

The debate on the Housing Bill Second Reading, which took place just before the House of Commons adjourned for Easter, made clear that the main purpose of the MOHLG is to achieve a greater flexibility in the distribution of a fairly steady amount of subsidy—the current amount of £61 million a year is increasing at a rate of about £3 million a year, part of which must be set against rising costs.

Describing it as "a major Housing Bill," Mr. Henry Brooke said the time had come for "a radical change in our traditional system of housing subsidies" to give extra help to councils which are concerned with overspill building or which are tackling heavy slum clearance costs, as well as rural districts.

Under the new proposals, subsidy will be either £8 or £24 a house, according to the assessment of a particular authority's resources, while subsidy for overspill housing and new towns is to be raised to £28 a year. And the annual contribution which the Ministry may pay towards the cost of houses under town development schemes is to be raised from £8 maximum to £12 maximum, so that the total possible financial assistance in such cases goes up from £32 a year to £40.

Mr. Brooke went on to explain how the differential subsidy of £8 or £24 is to be calculated, by measuring the local authority's resources from rent against its expenditure. "This will be tested by putting on one side the expenditure actually borne on the authority's housing revenue account for the relevant year . . . on the other side of the ledger an assumed income." This "assumed income" is to be twice the 1939 gross value of all the authority's housing, "a contribu-

tion which every local authority can reasonably be expected to make from its own resources in the shape of potential rent income."

This point brought Mr. Brooke to deal with one puzzling feature of the White Paper which preceded the Bill, in which it was claimed that this method of calculating subsidy was intended to encourage Councils to introduce differential rent schemes. Housing Committees have been scratching their heads as to how it does so ever since. What seemed more serious was the danger that a large pre-war housing programme, by increasing the notional income from rents, might reduce the chances of some of the local authorities with the largest housing problems of qualifying for the higher subsidy.

The Minister dismissed the first point, but said of the second, "I have no doubt that I shall be told that it may mean loss of subsidy to some of the authorities which are still faced with some of the biggest housing problems, but the fact remains that no authority will drop down to the £8 level unless, by definition, it has ample resources for the time being to carry on."

"If as a result of continued building, local authorities come to the point where they have used up their surplus resources then they will automatically qualify for a higher rate of subsidy, which will go up to £24, or £29, or £34 or even £40 per house if . . . their financial resources warrant it."

He went on to defend the proposal in the Bill to make possible the abolition or reduction of subsidies after ten years, if changes in income levels had changed so as to make continued payments "absurd."

Mr. Brooke then turned to the proposal to make loans, totalling up to £25 million a year, to non-profit-making Housing Associations set up to build private houses to rent.

The housing association must be a *bona fide*

non-profit-making organisation, and there must be a real local need, he said, and hoped that co-operative Housing Associations would also spring up as a result of the Bill. Apart from the general criticism that this could not be a "major housing bill" since it does not provide the means of tackling the housing shortage as a major operation but redistributes more or less the same amount of public money as before, Labour criticisms were concentrated on two of its main features: first, the basis on which the subsidy rate is to be calculated, and second the power to be taken by the Government to withdraw the subsidy before the 60 years expire. Mr. Michael Stewart, M.P. for Fulham, opening the debate for Labour pointed out that, while a local authority could not determine by their rent policy what rate of subsidy they would get, those "who have many pre-war houses are likely to fare worse and authorities with few pre-war houses are likely to fare better from the Bill." The last Housing Statistics issued by the municipal treasurers (Housing Statistics 1959-60) gave some startling results when one tried to calculate which local authorities would qualify for the higher subsidy.

His other major point of criticism was of the proposal that after ten years the Government might withdraw a subsidy or reduce it, if the economic condition of the country seemed to warrant it. "A local authority is invited to build houses on which it will get . . . a certain rate of subsidy and will have to enter into loan commitments that will last for sixty years," he said, "yet it is told that some time during that sixty years the amount of subsidy . . . may be cut down or finished altogether." This made "any calculations made by local authorities . . . extremely hypothetical." The element of uncertainty about future subsidy payment restricted the freedom of local authorities and did nothing to encourage an increased rate of council house building.

## TPI

*Gold Medal for Holford*

At the March meeting of the Council of the Town Planning Institute it was unanimously resolved that Sir William Holford be invited to accept the Gold Medal of the Institute for 1961. Sir William, who is a past president of the TPI, has declared his willingness to accept the award and his appreciation of the Council's decision. The presentation will be made on October 4.

Previous awards were made in 1953 to Sir George Pepler, in 1955 to Sir Patrick Abercrombie and in 1957 to Lewis Mumford.

*Summer School at Reading University*

The Town and Country Planning Summer School is to be held from September 6 to 13 at Reading University, the Overseas Section being held from September 12 to 16, beginning with a joint session. Of particular interest will be an account of the abandoned Hook Project by J. C. Craig, head of the LCC's Town Development Division. Other papers will be on "Problems of Urban Development," by Eric Lyons; "The Future of Conurbations," by Professor P. Sargent Florence; "The Changing Landscape," by Professor H. C. Darby; the Hook Project and other research for Town Development, J. C. Craig; and "Planning Legislation—an International Review," by Desmond Heap. The Vice-Chancellor of the University, Sir John Wolfenden, will open the conference with an address on "Planning for the Use of Leisure."

Full details available from P. R. Rathbone, Secretary, TPI, 18, Ashley Place, London, S.W.1.

## IULA

*Conference in Washington*

With its theme "Recent Trends and Developments in Local Government," a World Conference of Local Government is to be held in Washington, DC, from June 15 to 20, organised by the International Union of Local Authorities. Keynote speakers on the opening day are the Mayors of New York and Rotterdam.

As this is the first IULA conference in the Western hemisphere, the subjects chosen "are related to the most interesting aspects of American municipal life," confronting American experience and views with those from other continents.

Main subject is to be "Local Government Structure and Organisation," to be discussed in general sessions on three main aspects—council, executive and administrative machinery, paying special attention to the measures taken in various countries to transfer council functions to official or voluntary bodies and to achieve effective consultation between councils and citizens. Smaller seminar meetings will help the experts to exchange ideas on public relations,

personnel management, administrative mechanisation and automation.

Special sessions on "Problems of Metropolitan Areas" and "Town Affiliations" are planned to provide panel discussions with participants from all over the world. As well as attending the different sessions, delegates will have the opportunity of touring the Washington Metropolitan Area and meeting local government representatives, and of visiting Baltimore, Philadelphia and New York.

Further details may be obtained from IULA, Paleisstraat 5, The Hague, Netherlands.

## MOHLG

*Designation Order for New Town in Lancashire*

After consulting local authorities and statutory undertakings Mr. Henry Brooke, Minister of Housing and Local Government, has made a draft order designating some 4,029 acres of land at Skelmersdale, between Wigan and Ormskirk, Lancashire, as the site of a new town.

The town's primary purpose, housing people from Merseyside, is explained in a statement which accompanies the draft order and indicates a target population of 80,000. Reasons for the choice of Skelmersdale are given in an explanatory memorandum.

If there are objections the Minister will appoint an independent person to hold a public local inquiry, and he will consider his report before deciding finally whether to proceed with the new town and, if so, what its boundaries should be.

## AA

*Annual Reception Tonight*

Tonight—April 13—the AA holds its annual reception from 8.30 to 1 a.m. Tickets are £1 single or £1 15s. double, and to AA students, 10s. single and 17s. 6d. double.

There will be dancing, of course, to two bands; exhibitions include one of the new ships, Canberra, Oriana and the Maid of Kent and paintings, drawings and tapestries; a cabaret and a film show. The décor is by Bernard Myers, A.R.C.A., with help from AA students.

## COID

*New Members of Council*

Erno Goldfinger is among the five new members recently appointed to the Council of the COID by the President of the Board of Trade. The others are: Mrs. Elsbeth Juda, associate editor of *The Ambassador*; A. Walter James, editor of *The Times Educational Supplement*; Lord Mancroft, director of Great Universal Stores, Ltd., and Ian W. S. Wilson, managing director of Pillans & Wilson Ltd.

Among retiring members of the Council are J. M. Richards, and Mrs. M. Harrison, curator of the Geffrye Museum.

## KINGSTON

*Graduate School Candidates*

The Department of Architecture, Kingston School of Art, Kingston-upon-Thames, is inviting applications from eight suitably qualified candidates for admission to the Graduate School for the 1961-2 session.

The course will be suitable for those (a) wishing to follow individual programmes in historical, planning or technical study and/or research, (b) wishing to extend their design experience by advanced design studies, and (c) wishing to study architectural school organisation, teaching methods and curricula. Fee for the course is £25, and applications for further particulars are available from the Secretary, Department of Architecture, Kingston School of Art, not later than June 1961.

## MOSCOW FAIR

*Misha Black to Lecture*

Professor Misha Black, O.B.E., R.D.I., F.P.S.I.A., M.INST.R.A., has been invited to lecture on industrial design to students in Moscow and Leningrad when he goes to the Soviet Union for the British Trade Fair opening in Moscow on May 19.

## BR

*Architect's Appointment*

British Railways North Eastern Region has appointed S. Hardy, Dipl.Arch., A.R.I.B.A., as Architect in the Chief Civil Engineer's Office at York. Mr. Hardy, who was previously with Hickson and Welch, Castleford, Norval R. Paxton at Leeds and then in the County Architect's Office for West Riding, has been associated with the development of new signal boxes at Huddersfield and Newcastle.

## DIARY

*Architecture of New Stockholm:* Exhibition at the Scottish Building Centre, Glasgow.

APRIL 13 TO 29

Faculty of Architects and Surveyors Annual Dinner, University Club, Liverpool. Speaker: Sir Eric Errington, MP.

APRIL 14

*The 1961 Census: Its Importance for Town Planning.* Talk by Dr. B. Benjamin, chief statistician, General Register Office, TCPA, Planning Centre, 28 King Street, London, W.C.2.

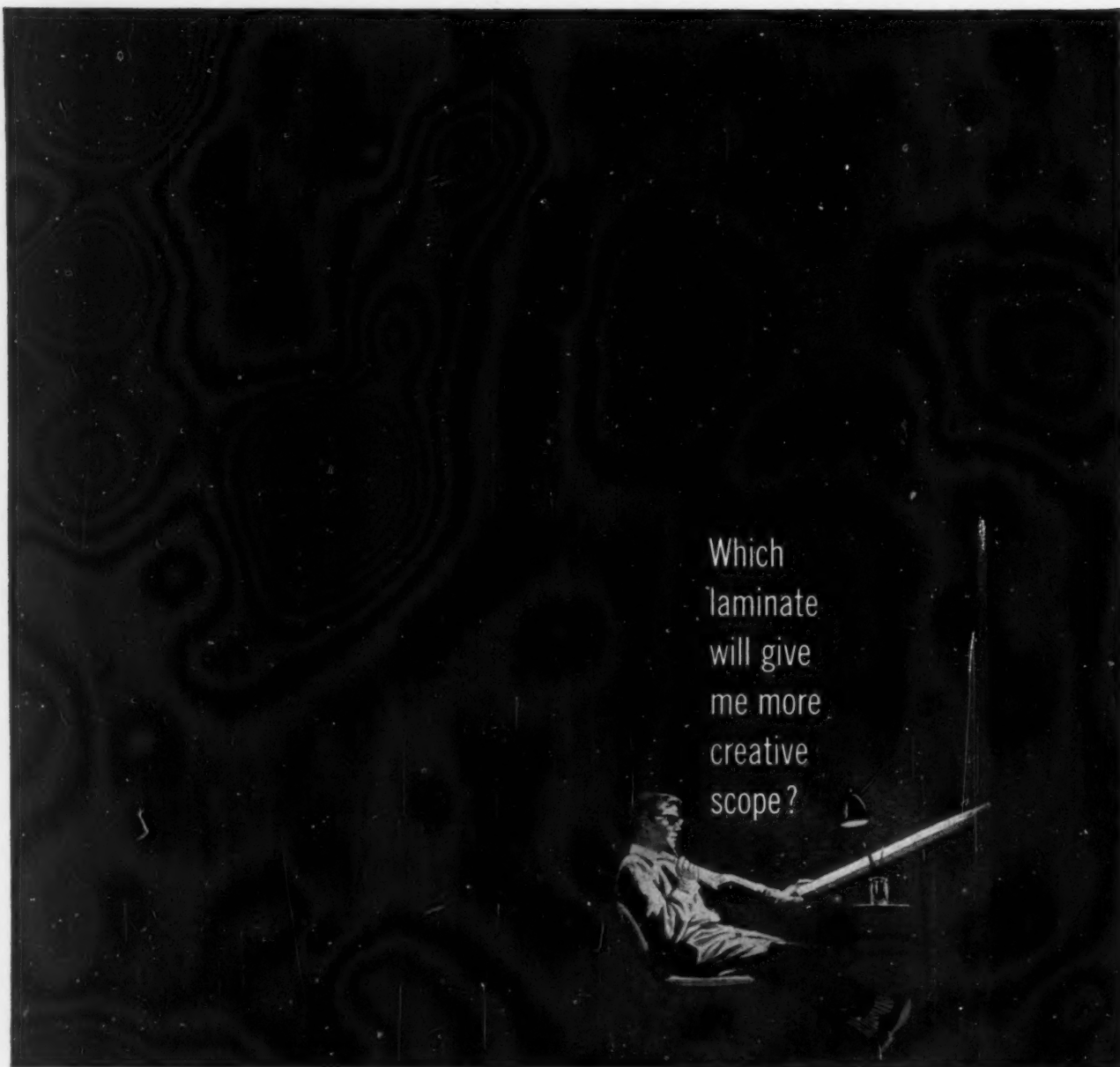
APRIL 17

*Ventilation, the Silent Fire Fighter:* Lunch-time Film Show by Colt Ventilation Ltd., at the Building Centre, 12.45.

APRIL 19

The Design Centre Comes to Nottingham: COID exhibition at Griffin and Spalding, Nottingham.

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## THE INDUSTRY

*This week Brian Grant describes a range of stone fireplaces, a new water softener and a curing compound for concrete.*

**Stone Fireplaces**

Reach me down fireplaces are as a rule somewhat disastrous efforts in slabbed up tile (though there are a few exceptions) and one is liable to forget that stone is a traditional alternative which seems to have faded out to a large extent since the end of the war. For Wren Fireplaces, a new offshoot of Bath and Portland stone firms, John and Sylvia Reid have designed a range of natural stone fireplaces which are made in Portland shelly whitbed, Doulting and Clipsham, or in polished Portland. The fireplaces are designed on the unit principle, and are made up of jambs, lintels and hearths in various sizes. The lintels are made to take 16 or 18 in. fires and the jambs are in 9, 21 and 27 in. widths, with corresponding hearth stones. Two types of hearth are available, one at floor level and the other cantilevered, as shown in the illustration, with a floor clearance of 9 in. so that it is possible to use a vacuum cleaner underneath. The hearths are designed for use either with a normal grate or with an under floor draught version. Prices start at £26 for a narrow fireplace, with polished Portland costing about 50 per cent more in the various larger sizes. (*Wren Fireplaces Ltd., Abbey Yard, Bath.*)

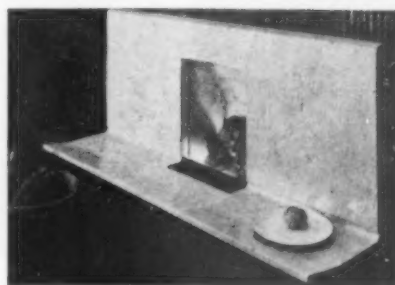
**Water Softening Equipment**

Permutit have now introduced a water softener which is nearly as automatic as can be. All base exchange water softeners

need regular regenerating with common salt, and in the past this has meant adding the required quantity of salt and then doing a certain amount of fiddling with valves. In the latest version regeneration is automatic, being controlled by a time clock which is set to carry out the regeneration process at standard intervals, the time interval chosen being based on the number of people in the house and their estimated water consumption. Salt still has to be added from time to time, but the new model holds 1 cwt., and this should be enough to last for anything up to 4 months or so, the time naturally depending on water consumption and the degree of hardness of the supply. In the event of a large extra demand for water there is a push button control which carries out a supplementary regeneration independent of the clock. Otherwise there is nothing to do but lift the lid from time to time to make sure that there is still some salt left. The unit is in white glass fibre reinforced plastic to avoid corrosion, and is 3 ft. high by 18 in. wide and 15½ in. deep. Price is £150 plus £30 purchase tax. (*Permutit Ltd., 151 Regent Street, London, W.1.*)

**Curing Concrete Roads**

Although they are perhaps best known as manufacturers of plasticisers for mortar and concrete, FEB Ltd. also make a range of curing compounds for roads and runways, which are marketed under the name of Febcure. These curing compounds can be applied within an hour after the concrete is laid, and will prevent the evaporation of the water in the concrete for a minimum of 72 hours, anything up to 90 per cent of the water being retained, so that the concrete is fully hydrated and drying out shrinkage reduced. The curing compound is applied by spray and it is important that the right degree of coverage is obtained. For this reason Feb have designed the machine shown on the right, which will spray at a controlled coverage of up to 20 square yards per gallon. The machine is suitable for concrete bays from 10 to 26 feet wide and is driven by a small petrol motor which controls the rate of travel and also the coverage per gallon, so that the whole process is automatic. (*FEB (Great Britain) Ltd., 102 Kensington High Street, London, W.8.*)



*A Wren stone fireplace*

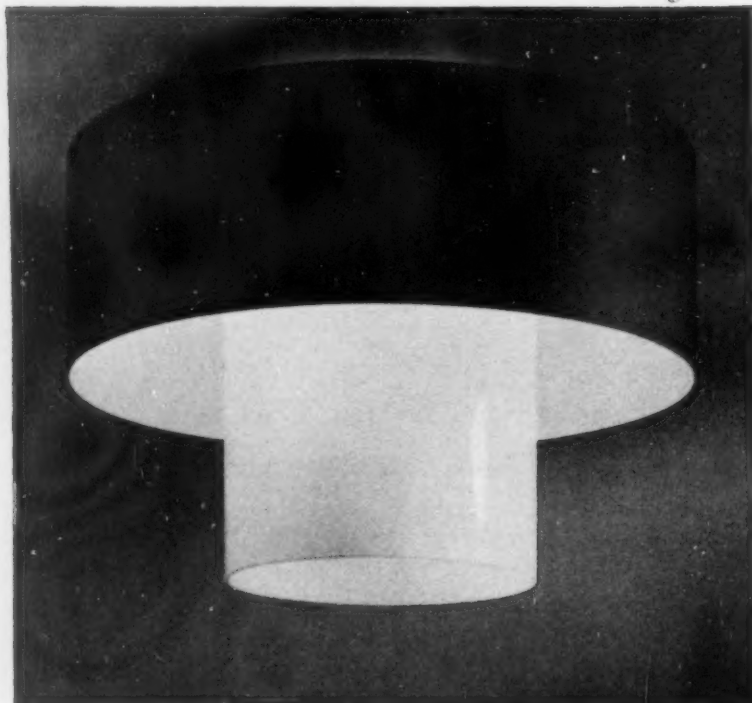
*Permutit semi-automatic water softener*



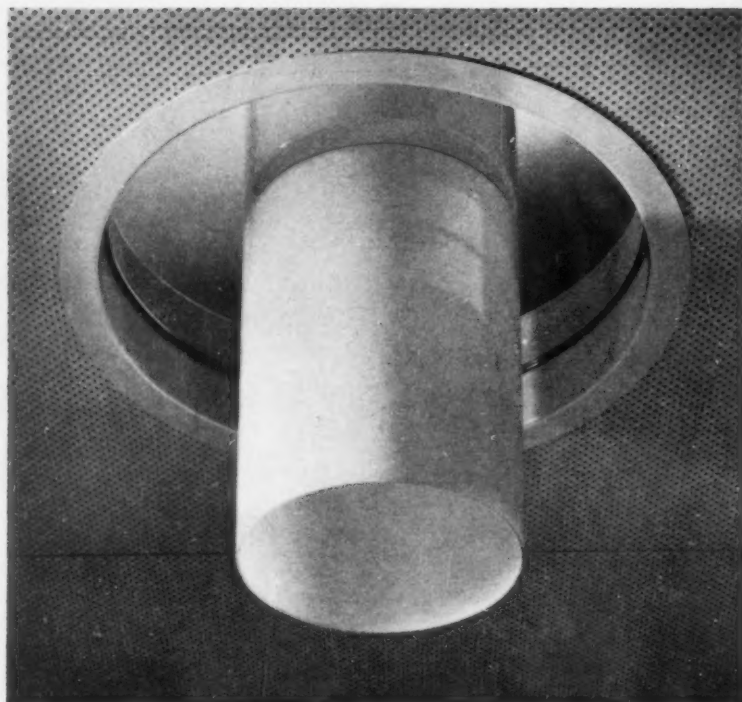
*FEB concrete curing spray, below*



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## 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.*

(94)

725-5

### 10.209 design: building types HOSPITALS

*M.O.H. Hospital building notes*

1. *Building for the hospital service.*
3. *The District General Hospital.*
4. *Ward Units.*
5. *Short Stay Psychiatric unit.*
7. *Accommodation for nursing staff.*
8. *Radiotherapy Department.*
10. *Kitchens.*
11. *Dining Room.*

H.M.S.O. Nos. 1, 3, 4, 10, price 1s. 6d.

H.M.S.O. Nos. 5, 7, 8, 11, price 1s. 3d.

The preface to these notes (which should not be confused with the M.O.H. Hospital Building Bulletins—more detailed studies, which are appearing very slowly) states that the series is "designed to help hospital authorities and those who assist them, including doctors, architects and engineers, in the conduct and planning of a building programme. This series will deal with the preparation of a programme, the assessment and control of the cost of a building, the design of the various departments of a hospital and the relationship of one department to another." Most consist of five sections—scope of the note; general considerations; list of rooms; description of rooms; engineering services. There are diagrammatic plans and tabulated information. They are quickly and easily read. And since they are broadly a digest of widely held views within the Ministry, to which plans for all but minor hospital building projects must be submitted for approval, all architects concerned with hospital building will have to read them.

They are not fuddy-duddy. They contain brisk, modern-sounding recommendations such as "it is uneconomic to provide servery to separate dining rooms or to have waitress service. Normally one dining area should be provided with a cafeteria service. . . . Any departure from this will need special justifications," and in general show that the Ministry is up to date with recent developments in hospital design in other countries as well as Britain. They are primers. Most of the contents would be known already by everyone who has had to do with hospital planning, but in the present expanding building situation, there

are many architects and others who, with no previous experience, will have to learn fast. And for those, the notes are an essential starting point. There is little argument in the notes for the recommendations made, and while its incorporation in the text would clearly make these much heavier going, one would expect at least a bibliography so that further reading could be indicated. All the notes would benefit by this, but one in particular, No. 4 on "Ward Units," appears hopelessly sketchy with nothing said about team nursing or indeed any sort of nursing pattern, which is fundamental to an understanding of ward planning. This note also contains a marvellous misprint—"double circular" instead of "double-corridor," and falsely equates the double-corridor with the "race-track" plan. It whizzes over "Progressive Patient Care" (Progressive Patient Neglect?) again with no indication of the arguments now raging over the controversial U.S. importation; and rapidly permits the washing of bedpans in the single-room W.C.s (with the use of a "suitable flushing nozzle") despite quite forcible contra-indications on the part of bacteriologists and nurses. In the engineering section, floor heating systems are disallowed (except in "certain psychiatric units where advantages are claimed") until experience of those installations in use or under construction has been studied. And in this section, rather chilly wards are recommended.

Generally, the notes so far can be said to outline sensible hospital planning. The sting may appear later. Some of the notes refer darkly to "Appendix E of Building Note No. 2" which has not yet appeared, and which will deal with the "functional unit selected for the basic accommodation . . . and the related cost note. . . ." The "functional unit" in the use of a kitchen is to be "the meal"; in the case of a physiotherapy department "the individual treatment unit"; in the case of a ward "the bed." The words fill this reviewer with a dreadful foreboding: a ceiling on the capital cost of hospital building now, when developments are occurring simultaneously in medicine, surgery, nursing, bacteriology, administration, and most other of the disciplines which together make "a hospital" may gravely inhibit designers from reacting positively to the changing patterns of work in hospitals. Rigid but abstract concepts such as "the bed" cannot easily be made meaningful in a fundamentally unstable situation. The new wave at the Ministry has made it a force to be reckoned with; it can create a dynamic planning situation, or it can freeze developments. Note No. 2 which may be crucial is awaited: and will be examined closely.

(95)

725-74

### 10.210 design: building types SWIMMING POOLS

*Design and Construction of Open Air Swimming Pools.* Published by the Cement and Concrete Association.

The design and construction of swimming pools may appear deceptively simple. Public swimming pools and their ancillary buildings must comply with the requirements of the local byelaws and the standards of the Amateur Swimming Association. Private pools are not normally covered by these regulations. This booklet, published by the Cement and Concrete Association outlines the various considerations affecting the design of open air reinforced concrete swimming pools and gives a guide to their construction. Technical planning requirements are covered. The report draws attention to the design possibilities of the "aeration" section of water treatment. Concerning construction, it suggests the final drainage system could be used to drain the initial excavation, and covers the problems arising from the relationship between ground water level and the level of the floor of the pool.

Methods of coping with construction joints are considered. To avoid shrinkage it is recommended that the concrete of the walls and base should be kept wet during construction, the pool should generally remain filled, and during periods of maintenance, it should not be allowed to dry out. Cement and concrete finishes are discussed and the treatment of the surround. The booklet is a guide and a consultant is recommended for design and structural details. For small domestic pools, it would be worth reading it in conjunction with the article by Peter Falconer in *THE ARCHITECTS' JOURNAL* of May 14, 1959, on small swimming pools.

(16)

624-151

### 18.222 construction: theory FOUNDATIONS

*Practical Problems in Foundations.* H. R. Reynolds. Crosby Lockwood & Son Ltd., 1960. 25s.

A number of books have been written purporting to deal with foundations but really providing only a treatise on soil mechanics. Mr. Reynolds gives just one chapter on soil mechanics to show its application to foundation design and a chapter on site exploration to show how the results are obtained for the soil mechanics processes to be applied. The remaining nine chapters deal with most aspects of foundation engineering covering both design and construction with the emphasis always on the practical aspects. Shoring and underpinning, foundations for light buildings, piles, bridges, rafts, sand drains, culverts, tunnels and maritime structures are dealt with. The final chapter deals with unusual foundation problems. Seven cases of actual foundations are considered, providing very interesting reading. In the case of the Shell Building fig. 102 is not correct as will be seen on referring to fig. 104. The text is correct but the wrong illustration has been used. This small error must not, however, be allowed to detract from a book which provides a lot of sound and practical information on its subject.



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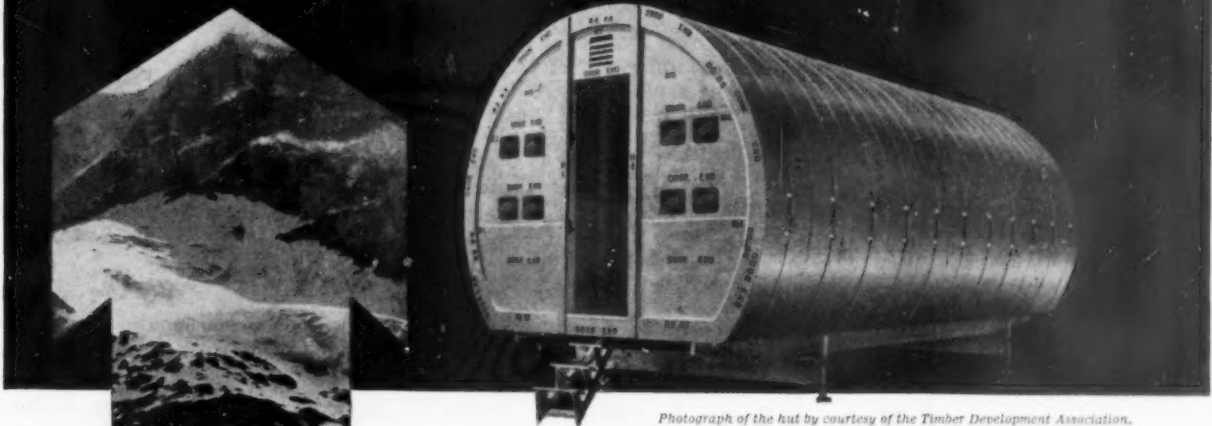
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*Photograph of the hut by courtesy of the Timber Development Association.*

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## technical section

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## 7 PRACTICE

**communications in the building industry:  
a review of the standard documents used  
by five offices, 2, job information**

This is the second of a series of articles\* presenting a selection of the standard documents used by five offices, Messrs. Grenfell, Baines & Hargreaves, T. Alwyn Lloyd & Gordon, Harry W. Weedon & Partners, J. M. Austin-Smith & Partners, and J. Douglass Mathews & Partners.

In the first article it was mentioned that the documents used by the five offices had been grouped under six main headings. This grouping was made for convenience of presentation and was not intended to represent the whole field which the subject of communications should cover. To the student of architectural management there is considerably more scope than the six aspects listed.

This week two more headings are dealt with: *job information* and *tenders*.

## 3. Job Information

In a series of articles on architectural management in the AJ in 1959, W. Sinclair Gauldie and Arthur F. S. Wright suggested that "architecture is produced by a process of absorbing *information*, making *decisions* and *communicating* the decisions to the people concerned." They then proceeded to explain how the *modus operandi* of an office could be built around these three processes. The recording of job information is the subject of most of the documents presented in this section.

Harry W. Weedon & Partners have a standard *Site Report form* (Fig. 1) which, the architects say, "was compiled originally as a check list to ensure that anybody visiting a site, especially a distant one, could not come back short of the essential information." They also use this form, when completed, as the basis for a

INFORMATION REQUIRED.	INFORMATION OBTAINED.
<p>1. <u>SITE.</u></p> <p>a. <u>Location.</u></p> <p>i. Full postal address, including Town and County.</p> <p>ii. Position, names of surrounding roads, adjacent landmarks, etc.</p> <p>b. <u>Access.</u></p> <p>i. Nearest Railway Station (and distance).</p> <p>ii. Railway line (frequency of passenger service).</p> <p>iii. Main or branch (distance from main line junction).</p> <p>iv. Nearest Goods Station (distance).</p> <p>v. Omnibus/tram routes passing the site, or passing near to the site.</p> <p>vi. Nearest omnibus/tram stop.</p> <p>vii. Omnibus/tram company, route numbers (from .....), and frequency.</p> <p>viii. Nearest Civil Airport, distance and means of access.</p> <p>c. <u>Nature of Site.</u></p> <p>i. <u>Configuration.</u></p> <p>Flat, sloping (direction of fall) undulating, broken, etc.</p> <p>ii. <u>Use.</u></p> <p>Vacant city site. Occupied city site. (State present use for T-P change of user).</p> <p>Undeveloped site, farm land, heath or other class, or other description.</p> <p>iii. <u>Natural Features.</u></p> <p>Timber, what trees, if any.</p> <p>Suitability for felling.</p> <p>Shrubs and other growth.</p> <p>Water-courses, rivers, brooks, ditches, ponds, lakes, etc.</p>	

Fig. 1. Extract from the site report check list used by Harry W. Weedon and Partners

\* First article March 30, 1961.



## technical section

report to a client on prospective sites.

The *Survey Brief and Record Sheet* of T. Alwyn Lloyd & Gordon (Fig. 2) is in the form of a check list which records, amongst other things, the scope of the survey, particular information required and photographs. This office also has a *Site Inspections and Surveys* check list (Fig. 3) and a *Survey Reminder* or check list for existing buildings. In addition, a standard form is used for summarising room requirements and therefore becomes, in effect, the physical planning brief.

Despite the widespread acceptance of cost planning techniques there appears to be little standardisation of methods for recording this information. Fig. 4 is a *Cost Breakdown* sheet used by Grenfell Baines & Hargreaves.

## 4. Tenders

The inviting, receiving and accepting of tenders is an extremely important phase in the architect's work and this is reflected in the fact that all five offices follow some method of standard procedure. It is worth while pointing out that the Joint Consultative Committee of Architects, Quantity Surveyors and Builders published *A Code of Procedure for Selective Tendering* in 1959. In this, recommendations are made not only concerning the form of tender and the rules to be observed in accepting a tender and informing unsuccessful tenderers but also for the procedure of inviting tenders (the important point here being to give would-be tenderers the information which will enable them to decide (a) whether they want to tender (b) whether they are in a position to tender).

Fig. 2. This information is used as a survey brief and a record sheet for each job by T. Alwyn Lloyd & Gordon, below.

Fig. 3. Check list used by T. Alwyn Lloyd & Gordon for site surveys, right

SURVEY BRIEF AND RECORD SHEET

ARCHITECT IN CHARGE \_\_\_\_\_ JOB: \_\_\_\_\_

SURVEY AT \_\_\_\_\_

BRIEF FOR SURVEYOR See also check list overleaf.

1. Scope of the Survey.
2. Particular Information Required.
3. Photographs.

Initials \_\_\_\_\_ Date \_\_\_\_\_

INFORMATION REQUIRED FROM LOCAL AUTHORITIES OR OTHER SOURCES TO COMPLETE SURVEY  
(i.e. Building lines, N.E. Invert-levels, Combined or Separate Sewers, Boundaries and Party walls)

Action by: SURVEYOR: \_\_\_\_\_  
ARCHITECT: \_\_\_\_\_

	Initials	Survey		Plotting	Days	Entered in Expenses Record/Book
		Date	Wk.			
Survey plotted & handed to .....						
Survey notes filed in folder .....						
Location of photographs .....						
Location of negatives .....						
Plotted survey drawing numbers .....						

PHYSICAL DETAILS	PLANNING INFORMATION
to be recorded on Survey	Local Authority Consented
1. Precise boundaries	Law each month for use/levelling plane
2. Nature and cross section through boundaries - positions of gates.	Planning
3. Hedge lines	Bye Laws
4. Trees (exact position - size of trunk and spread of branches)	Forms available
5. Ditches and water ways	
6. Wet or bad patches	
7. Hillocks	
8. Ancient monuments	
9. Buildings	
10. Fords	
11. Rock outcrops	
12. Electricity and telegraph poles	
13. Drains	
14. Water pipes	
15. Rights of ways across site	
16. Bench marks	
<u>SITE CONDITIONS</u>	<u>PLANNING INFORMATION</u>
1. Danger of flooding	County or District Planning Officer should be asked whether there are any restrictions affecting the site (e.g. use zoning, future road widening, proposed open space etc.)
2. Danger of subsidence	If a development plan already prepared, ascertain how land proposed to be zoned.
3. Danger of rock	
<u>TRIAL BORES</u> at spots indicated and nature of sub-soil.	<u>WATER SUPPLY (if any)</u>
<u>WATER MAINS</u> across and near site	Particulars as to direction, size etc. (of nearest main) or suitable springs.
<u>DRAINAGE</u> Surface water & build runs	If river forms boundary, Name and address of River Board
<u>ELECTRICITY</u> Exact position of any overhead electric lines, pylons, telegraph poles, etc.	<u>DRAINAGE</u>
<u>Exact position of any buried mains</u>	Particulars of nearest sewers, if available - depth, size etc. (Query separate soil and S.W. Sewer outfalls)
on or immediately adjoining site.	<u>ELECTRICITY (if available)</u>
	<u>Gas (if available)</u>
<u>NOTES ON LEVELLING</u>	.....Assistant Architect or Surveyor.
To be related to some recognizable and permanent point (preferably bench mark)	
Take levels at approx. 100' intervals on even ground but much closer on undulated ground.	
Take levels along line of proposed sewer and over a reasonable area of site for proposed sewage plant if any.	

Job	Job No.	Stage	Date
Area within Ext. Walls	sq. ft.		
<b>SUMMARY</b>			
SERIAL	PLANNED	Percentage of Work Done	Cost of Work £. s. d.
1 - 2	Preliminaries		
3 - 13	Building Shell		
14 - 18	Finishes & Fittings		
19 - 27	Services		
<b>DETAILS</b>			
1	Preliminaries & Insurance		
2	Contingencies		
3	Work below ground level		
4	Frame		
5	Upper Floor & Stairs		
6	Roof Construction		
7	Roof Lights		
8	External Walls & Cladding		
9	Windows & External Doors		
10	External Glazing		
11	Int. Partitions incl. glass		
12	Internal Doors incl. glass		
13	W.C. Partitions and doors		
14	Wall finishes		
15	Floor finishes & skirtings		
16	Ceiling finishes		
17	Decorations		
18	Fittings		
19	Plumbing (External)		
20	Plumbing (Sanitary Fittings)		
21	Plumbing (Internal)		
22	Heating & Ventilating installations		
23	Electrical Installation		
24	Gas Installation		
25	Drainage		
26	School Playground		
27			
<b>SUB TOTAL</b>		100%	£
28	Site Works & Landscape		
<b>TOTAL TOTAL</b>			£

J. DOUGLASS MATHEWS & PARTNERS, "E"  
 CHARTERED ARCHITECTS,  
 3 EBURY STREET, LONDON, S.W.1. Telephone: VICTORIA 6848

TO: \_\_\_\_\_ Date: \_\_\_\_\_  
 Reference: \_\_\_\_\_

- Dear Sirs,
- If you so wish we should like to receive from you an estimate in competition for the following:
  - The general contract for this project is programmed to start in ..... and it is anticipated that it will run for a period of ..... months. If you submit a successful tender the order will be placed with you by the General Contractor in ..... Will you please state when submitting your estimate the delivery period you will require and the time required on site for carrying out your work.
  - It is required that in submitting your tender you accept and conform to the following requirements if it is accepted:
    - The tender to be a fixed price for the period of the general contract as stated above and will not be subject to fluctuations in the price of materials or rates of wages other than statutory variations in insurance, holidays and other emoluments additional to wages.
    - In addition to the lump sum of your tender you submit rates and/or unit prices which you will require for any variations which may be ordered after acceptance of the tender.
    - The Standard Terms of Acceptance attached to this letter (Form E/a).
  - If you wish to put forward alternatives to the requirements stated in paragraph 1, we shall be pleased to consider them and their estimated cost provided they are submitted separately from your tender for complying exactly with the requirements set out above.
  - Your estimate is required in duplicate and should reach this office by ..... Will you please return with your estimate all drawings which have been submitted to you?
  - Any questions which you wish to raise should be addressed to ..... at this office.

Yours faithfully,  
 for J. DOUGLASS MATHEWS & PARTNERS.

Fig. 4. Details of cost breakdown used by Grenfell Baines & Hargreaves, above left

Fig. 5. Standard letter used by J. Douglass Mathews & Partners inviting tenders from nominated sub-contractors, above right

Fig. 6. Standard terms of acceptance of sub-contractors' estimates used by J. Douglass Mathews & Partners, below left

Fig. 7. Standard form of order issued to the general contractor by J. Douglass Mathews & Partners, below

J. DOUGLASS MATHEWS & PARTNERS  
 Chartered Architects,  
 3, Ebury Street, LONDON, S.W.1.

"E a"

#### STANDARD TERMS OF ACCEPTANCE OF SUB-CONTRACTORS' ESTIMATES

- The work will be carried out as a NOMINATED SUB-CONTRACT to the General Contract in accordance with the terms of Clause 21 of the R.I.B.A. Form of Contract.
- Estimates are to include 2½% cash discount in accordance with the terms of that Contract.
- The Nominated Sub-Contractor will be required to enter into a contract with the General Contractor complying with the terms of the R.I.B.A. Form of Contract as applicable to the Sub-Contractor's work.
- Notwithstanding any stated, printed or implied general or particular terms to the contrary in his estimate, the Nominated Sub-Contractor will be required, in the event of any failure of, or defects in, materials or workmanship carried out by him, to remove and replace, or remedy to the satisfaction of the Architects, such failures or defects without charge including payment of the cost of any incidental work or materials arising in connection therewith.
- If the Nominated Sub-Contractor's work is completed early in the contract to the satisfaction of the Architects, any application made by the Nominated Sub-Contractor for the release of any retention moneys held against his work in accordance with the terms of the Contract will be considered by the Architects.
- Portable machine tools and any other electrical equipment for use on the site must comply with the requirements of the Factories Act and Home Office recommendations.
- The Nominated Sub-Contractor will be required to comply with the programme for the carrying out of his work to meet the requirements of the General Contractor at the time of acceptance of the Sub-Contractor's estimate, provided these requirements are within the period stated by the Sub-Contractor in his estimate.

J. DOUGLASS MATHEWS AND PARTNERS, Chartered Architects,  
 3, EBURY STREET, LONDON, S.W.1. (VICTORIA 6848)

#### NOMINATED SUB-CONTRACTORS/SUPPLIERS ORDER REF. NO.

Description of Item: \_\_\_\_\_  
 Item: \_\_\_\_\_ Supplied/Supplied and fixed  
 Name of Sub-Contractor/Suppliers: \_\_\_\_\_  
 Provisional Order placed on: \_\_\_\_\_  
 Reference to accepted estimate: \_\_\_\_\_  
 Amount of estimate to be accepted: \_\_\_\_\_  
 (Details attached/on reverse)  
 Unit price for variations: \_\_\_\_\_  
 (Details attached/on reverse)  
 Date to start site work/of delivery: \_\_\_\_\_  
 Date to complete: \_\_\_\_\_  
 Remarks: \_\_\_\_\_  
 This order is conditional on compliance with the attached "Terms of Acceptance"

Date: \_\_\_\_\_ for J. DOUGLASS MATHEWS AND PARTNERS

## technical section

Generally speaking, the documents used by the five offices follow the recommendations of the code. For example, J. Douglass Mathews & Partners use a standard letter (Fig. 5) for inviting tenders from nominated sub-contractors. To this is attached a standard form (Fig. 6) which lists the conditions under which work is to be carried out. A similar letter and form is used for nominated suppliers. A standard order form is used (Fig. 7) for sending to the general contractor (copy to the quantity surveyor) who is under instruction to pass it on in the same terms to the nominated sub-contractor or supplier. At the same time a standard letter is sent direct to the nominated sub-contractors and suppliers concerned. A standard letter is used when it is necessary to appoint a nominated sub-contractor or supplier before the general con-

tractor is appointed. The architects say that this is a common necessity though they try to avoid it.

J. M. Austin-Smith & Partners use a standard form (Fig. 8) for inviting tenders from nominated sub-contractors and a similar form for nominated suppliers. When a tender is accepted an *Acceptance Order* (Fig. 9) is sent to the general contractor.

In calling tenders for the main contract T. Alwyn Lloyd & Gordon use a standard letter on the back of which is a brief description (Fig. 10) of the job. The standard form of tender used by Grenfell Baines & Hargreaves (Fig. 11) calls for a list of sub-contractors to be included by the tenderer.

The informing of unsuccessful tenderers is a necessary, if tedious, duty and J. M. Austin-Smith & Partners have a standard form (Fig. 12) for this purpose.

Fig. 8. The standard form used by J. M. Austin-Smith & Partners for inviting tenders from nominated sub-contractors, below left

Fig. 9. The acceptance order used by J. M. Austin-Smith & Partners, below right

**ENQUIRY**

NOMINATED SUB-CONTRACTOR

TO JOB No. & NAME

OF LOCATION OF SITE

APPROXIMATE STARTING DATE OF MAIN CONTRACT

APPROXIMATE SIZE OF MAIN CONTRACT

Gentlemen,

We would be grateful to receive a quotation from you as a Nominated Sub-Contractor (as defined by Clause 21 of the R.I.B.A. Contract 1957 Revision) in accordance with the following conditions and for the items set out attached hereto:—

1. Estimates which should be in ..... are to include 2½% Cash Discount for the General Contractor and should be delivered to this office not later than .....
2. The cost of each item, extras and alternatives to be shown separately.
3. The following details in connection with the delivery and construction time must, where applicable, be stated:
  - (a) Time from placing of orders to commencement on site.
  - (b) Time required for preparation of drawings.
  - (c) Time required from approval of drawings to commencement on site.
  - (d) Time required from commencement on site to completion of Sub-Contract.
4. A list of builders work involved shall be given with the quotation, together with any special instructions concerning fixing, number of visits to site, facilities required, etc.
5. If your quotation is accepted you will be required to enter into a sub-contract with the main contractor. Such sub-contract shall be in the form issued by the N.F.B.T.E. and the F.A.S.S.C. (1950 Edition with any amendment subsequently agreed by or incorporated into this form by their bodies (here referred to as "the approved sub-contract"). Except as set out in Condition (6) hereof no variation of or addition to this standard form of sub-contract shall be permitted without the prior written consent of the Architects.
6. The approved sub-contract is entered into on the basis that the main contract will be in (or substantially in) the form recommended by the R.I.B.A. (current edition). Should the main contract vary therefrom then the approved sub-contract may be varied correspondingly. In particular, should the main contract not be a contract admitting of fluctuations, then Clause 27 of the approved sub-contract shall be deleted and see note.

**Note.**—The main contract is a "fixed price" contract.  
The main contract is not a "fixed price" contract.  
It is not known whether the main contract is a "fixed price" contract or not and your quotation should therefore be submitted for both eventualities.

Date .....

**J. M. AUSTIN-SMITH & PARTNERS**

Chartered Architects 29 Sackville Street, London, W.1. REGENT 6183-4

**ACCEPTANCE ORDER**

NOMINATED SUB-CONTRACTOR

TO ORDER No.

OF JOB No.

On the basis of the quotation herewith please enter into a Sub-Contract with:

MESSRS. ....

OF .....

Who are deemed to be a Nominated Sub-Contractor as the expression is used in Clause 21 of the R.I.B.A. Standard Form of Contract 1957 Revision.

This Sub-Contract shall be in the form issued by the N.F.B.T.E. and F.A.S.S.C. (the 1950 Edition with any amendments subsequently agreed by these bodies). No variation of or addition to this standard form of Sub-Contract shall be permitted without the prior consent of the Architects.

DATE OF QUOTATION .....

NATURE OF QUOTATION .....

INCLUSIVE OF DELIVERY TO .....

INCLUSIVE OF FIXING .....

AMOUNT OF QUOTATION ..... £ .....

ALLOWANCE IN CONTRACT ..... £ .....

AMOUNT OF ADDITION TO CONTRACT ..... £ .....

AMOUNT OF OMISSION TO CONTRACT ..... £ .....

**Note.**—The attached list is for your information only and it is the Contractors responsibility to see that in all respects the correct articles are ordered.

Date .....

**J. M. AUSTIN-SMITH & PARTNERS**

Chartered Architects 29 Sackville Street, London, W.1. REGENT 6183-4



- (a) Client .....
- (b) Quantity Surveyor .....
- (c) Consulting Engineers: Structural .....
- Electrical .....
- Mechanical .....
- (d) Location of Site .....
- (e) General Description of Work .....
- .....
- (f) Form of Contract .....
- (g) Proposed Date for Possession .....
- (h) Period for Completion of Works .....
- (i) Date for Despatch of all Tender Documents .....
- (j) Date for Submission of Tenders .....
- (k) The Contract is likely to be in the region of .....
- (l) It is anticipated that the work will proceed .....

Fig. 10. A brief description of the job is contained in this standard letter on the back of the form of tender by T. Alwyn Lloyd & Gordon

FORM OF TENDER  
for work required in

To: Messrs. Grenfell Baines & Hargreaves,  
F.A.R.I.B.A., M.T.P.I.,  
58 Topping Street,  
BLACKPOOL.

Date .....

Sirs,

..... the undersigned, hereby tender and undertake to execute the whole of the works in the alteration of premises at the above, in accordance with the Drawings, General Conditions of Contract, Preliminaries and Bills of Quantities, for the sum of:

..... Pounds  
..... Shillings ..... Pence

and hereby undertake to enter into a formal Contract for the due performance of the work and if not so required, agree that a written acceptance of this tender shall be deemed to form a Contract.

..... also agree to make immediate commencement of the Works and to satisfactorily complete the whole of the Works comprised in this Contract in ..... months after receiving written notice to commence.

The following is a list of our proposed Sub-Contractors:—

Demolition	Carpenter
Excavator	Joiner
Concretor	Steel & Ironworker
Bricklayer	Plasterer
Roofer	Plumber
Pavior	Glazier
Asphalter	Painter

Signed .....

Address .....

Telephone No. ....

Fig. 11. Details from the standard form of tender used by Grenfell Baines & Hargreaves

TO MESSRS. .... ORDER No. ....

OF ..... JOB No. ....

Fig. 12. Standard letter used by J. M. Austin-Smith & Partners to inform unsuccessful tenderers

GENTLEMEN,

WE REGRET TO INFORM YOU THAT WE HAVE BEEN UNABLE TO RECOMMEND FOR ACCEPTANCE

YOUR ESTIMATE DATED .....

THE ESTIMATE OF .....

MESSRS. ....

OF .....

HAS BEEN RECOMMENDED FOR ACCEPTANCE.

J. M. AUSTIN-SMITH & PARTNERS,  
Chartered Architects,  
29, Sootyville Street, LONDON, W.1.  
Enginet 4182-5.

Date .....

technical section

## Awards for Working Details

Architect: Kasper Schmitz

Working detail

GLAZED WALL, OFFICES IN BAHLE

Bale and Kasper Schmitz (material supplied by Kasper Schmitz)

(21) 6  
WALLS AND PARTITIONS, 91

Since in this country it is perfectly necessary to provide some form of sun control we considered various other ways besides glass. The most suitable form of sun control is a movable sun louvre that could be glass. In this country, which is typical of current European practice, sun control is provided by an external louvre that which is pushed by the wind.

As is their habit about this time each year the Editors propose to offer cash awards to students to enable them to collect material for AJ Working Details on the Continent or elsewhere abroad this summer.

It is a fairly straightforward matter to present Working Details of buildings in this country as it is usually quite simple to go and look at the building, then talk to the architect about his detail. Obviously it is not so easy to do this with foreign buildings, distance and language presenting obstacles to quick, easy communication. The Editors themselves can seldom give the time for this, and the purpose of the AJ awards is to delegate students to act on their behalf.

**The Awards:** A total of £400 in awards is offered with a maximum, usually, of £40 for any one award. Awards will be paid to those students selected by the Editors from written applications. Students will be judged, not so much on their deserving qualities, as on the likelihood of their bringing back usable material.

Applications for awards must reach the Editors by the first post on May 15. You must state where you propose to go, what contacts you have there, what buildings you would like to detail, what architects you would like to visit and how you propose to overcome the language problem. Only with this information will it be possible for us to judge what chances you have of bringing back to us material suitable for publication. At the same time you should include in your application a brief description of yourself (e.g. where you are studying and what stage you have reached) and an indication of whether you seek an award to travel to your destination and back or to enable you to stay there longer or whether your proposed visit is dependent on an award which will cover all expenses. Applications should be accompanied by a letter from the Principal of your School of Architecture or one of the Principals of your firm.

**Collecting Material:** Students receiving awards will have to supply architect's and, if necessary, manufacturer's working drawings. Also they will have to provide a rough pencil sketch of their own with descriptive notes in English and will have to fill in a questionnaire form supplied by us. They will have to obtain a photograph from the architect or commission one from a professional photographer at the JOURNAL's expense. We will pay a further six guineas for any Detail published in the AJ.

**For Architects:** Whilst we do not make cash awards to architects for the purpose of collecting foreign details we will pay a fee of eight guineas for any detail published, plus expenses incurred in getting photographs whether published or not. Architects are asked to write and tell us their plans before going abroad. The Editors reserve the right to refuse any material submitted.

For YOUR offices in the 60's

**SKYLINE**

by

**BENZAMIN**  
REGD.

ONE OF THE WORLD'S LARGEST PRODUCERS OF INDUSTRIAL & COMMERCIAL LIGHTING FITTINGS  
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# Offices

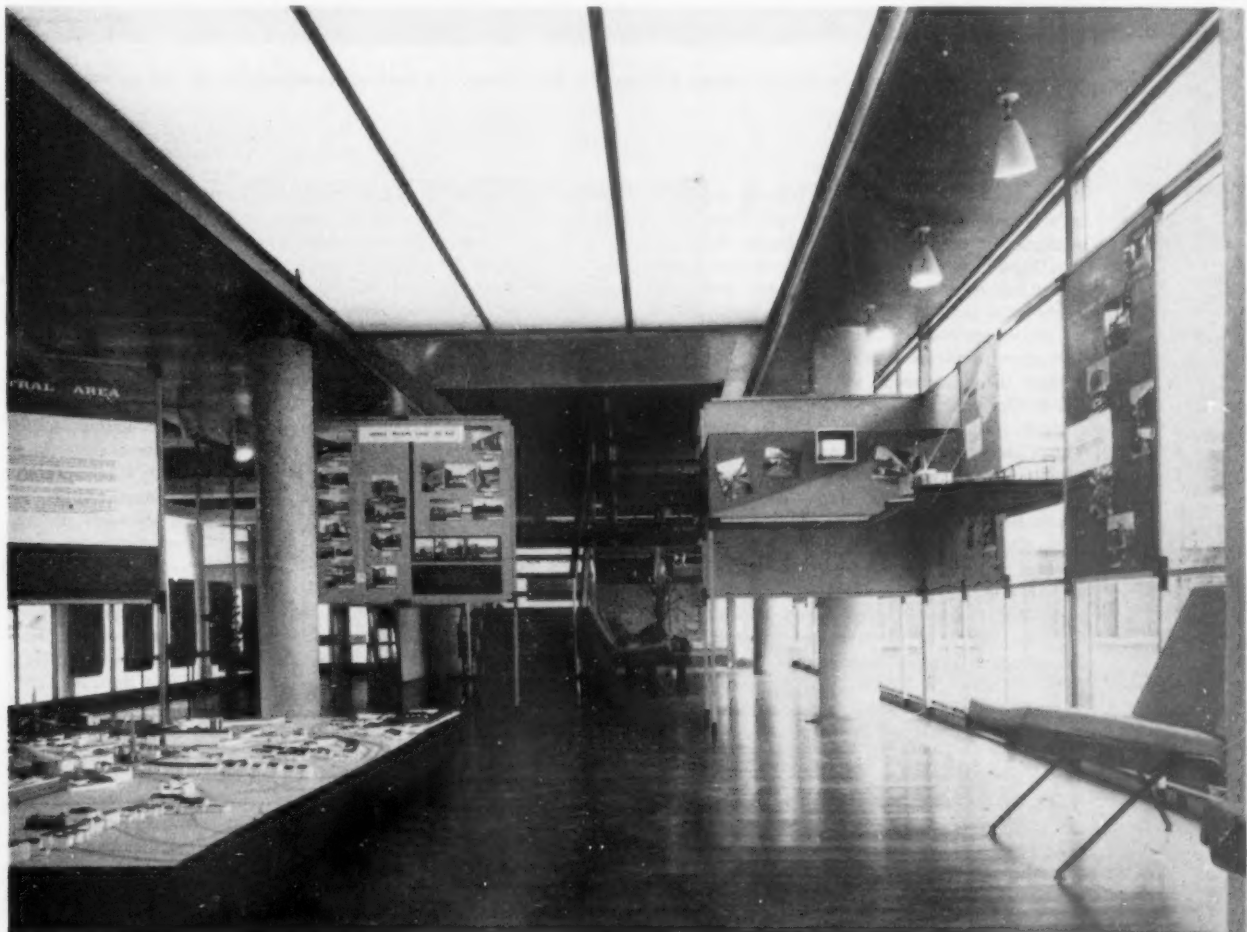
SFB File No. (92)

UDC No. 725.13

Not only does this building set a high standard of design for architects' offices, and make an important contribution to the redevelopment of the central area of Coventry, but sets out quite deliberately to keep the public in direct touch with the work of the city's architects and planners.

for the City of Coventry  
Department of Architecture and Planning  
designed by Arthur Ling, City Architect and Planning Officer  
assisted by George Sealey, Principal Architect  
W. Houghton-Evans, Group Architect, in succession to H. J. Humby  
R. F. Lear, Chief Quantity Surveyor  
consultant, heating, ventilation and electrics Granville Berry, City Engineer

*One can wander freely and easily into the exhibition space*



## building study—2nd series



*The exhibition space wrapped round the columns has obscured their rhythm. A block will eventually link up with the west end of the studios*

**APPRAISAL:** The new building housing the City of Coventry's Department of Architecture and Planning are another instalment in the controlled and planned development of the city. They form two sides of a rectangle and almost complete the enclosure of a court partly made when the council's offices were built in 1955. A further block is scheduled for the north-west corner of the site to complete the layout.

Two main problems were posed, firstly, how best to accommodate the department, and secondly, how to achieve a satisfactory contribution to the development of the city as a whole, including linking up with the existing buildings.

The Coventry City Architect's Department sets a good average standard of accommodation. Certainly the department earned this accommodation and the City Council has been wise to provide it. The building accommodates architects, planners, quantity surveyors, a model-making section, administrative staff, and the heating, electrical and ventilating engineers of the City Engineer's Department. An assessment was made of the accommodation needs, and a series of meetings was held between the representatives of each department as the design progressed. The relationship of the sections is simple and direct, with the smaller rooms grouped in the administrative block, the larger in the studio block, and the entrance, key personnel and library at the corner of the "L."

The individual architect has several working environments. He has his own workspace, where as a member of a group he may work in a group "locale" defined by screens—either light partitions and/or furniture. The seniors have lightly screened-off spaces which can also serve as a discussion space for the group, or for members who are holding interviews. When the architect needs to concentrate undisturbed or seeks information, he may go to the library which forms

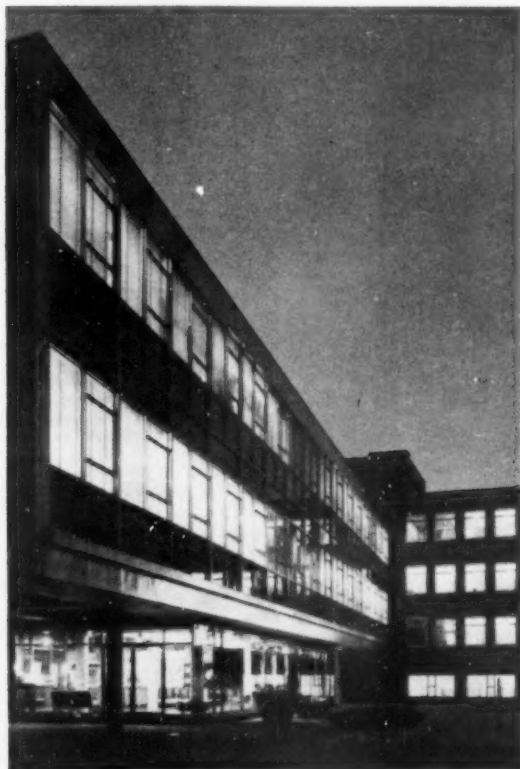
part of the research department. In many offices the library is an idea to which lip service is given but little else. Here at Coventry its advantages are manifest—the information is ordered, full, and available. It is magnificent—one of the most useful tools an architect can have, and one wonders how many other offices can boast its equal. The architects' part of the studios works well. It is regrettable that existing furniture had to be used because properly dimensioned and flexible work-station equipment can improve efficiency and comfort in this type of layout. The semi-open planning works well, being based on a proper understanding of the requirement, and on an overall acoustically absorbent ceiling and flexible partitioning. It provides an identity for the overall office and the various groups while the opportunity for occasional but vital quiet detachment is available in the library. Without this last type of accommodation, semi-open planning can be insufferable.

One of the features of the building, especially valuable in view of its purpose, is the incorporation throughout the interior and the external works of a whole series of samples. These have been logically introduced where appropriate; they include such items as floor and ceiling finishes, light fittings, ironmongery and various types of exterior paving. Internally the seniors' offices create just the right impression of economy and efficiency. Such absence of clutter at the higher levels is always impressive.

The exhibition space under the pilotis is intensively used and often helps to fan the flame of public enthusiasm and interest in architecture. Coventry has, of course, a well-earned reputation for keeping the architects' work in the public eye. The remainder of the accommodation is the normal office type. In this respect it is worth noting that quantity surveyors prefer to work in small, quiet rooms.



*Studio block from the court*



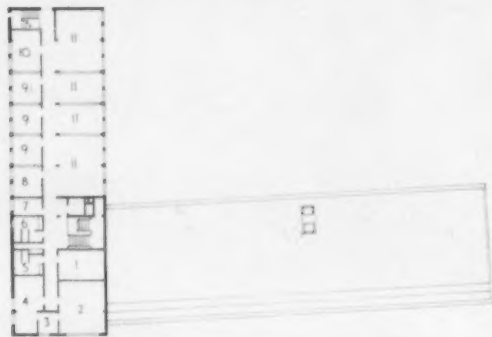
*The glitter and sparkle of the studio block at night echoes the  
brash vigour of Coventry*

*Under the studio block looking towards the main entrance*



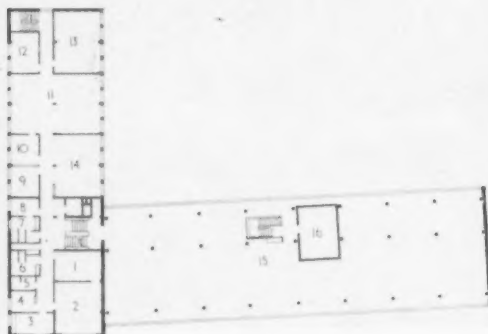


building study—2nd series



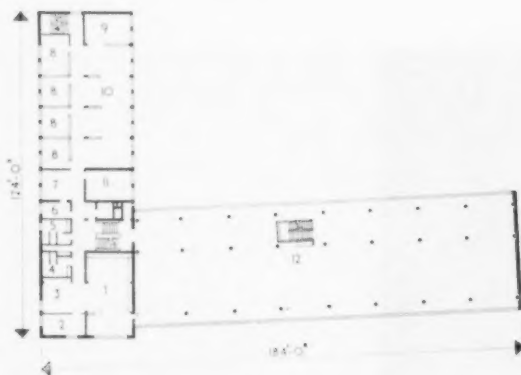
*Third Floor Plan*

1. Store
2. Chief and deputy Q.S.
3. Secretary
4. Q.S. clerks and adding machines
5. W.c.s male
6. W.c.s female
7. Housing Clerk of Works
8. Section Q.S.
9. Senior Q.S.s
10. Section Q.S.
11. Q.S.



*Second Floor Plan*

1. Lecture room
2. City architect and planning officer
3. Deputy
4. Secretary
5. W.c.
6. W.c.s male
7. W.c.s female
8. Female rest room
9. Chief admin. officer
10. Deputy
11. Typists
12. Accounts and statistics
13. Planning research
14. Post and despatch
15. Upper studio
16. Ventilation plant



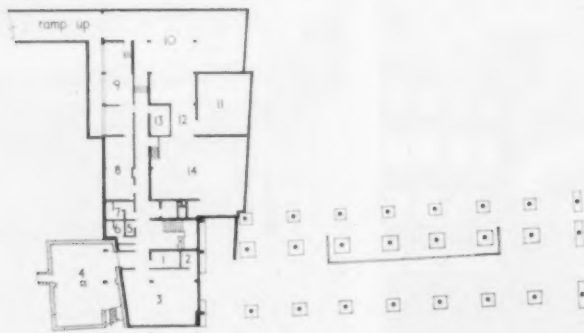
*First Floor Plan*

1. Library
2. Research architect
3. Research clerk
4. W.c.s male
5. W.c.s female
6. Interview
7. Planning admin.
8. Group planning officers
9. Landscape architects
10. Planning
11. Principal planning officer
12. Lower studio

*Ground Floor Plan, opposite page*

[Scale:  $\frac{1}{8}$ " = 1' 0"]

1. Entrance hall
2. Reception
3. Interview
4. "
5. Planning filing store
6. Studio
7. Clerk of Works
8. Development control
9. Group planning officer
10. Exhibition room



*Basement Plan, left*

1. Telephones
2. Meters
3. File store
4. Existing vault
5. Tea and wash-up
6. W.c. female
7. W.c. male
8. Model makers' store
9. Model makers
10. Garage and cycles
11. Fuel tanks
12. Loading
13. Test room
14. Boiler room

The problem posed by building a court on the slope was dealt with by forming "moats" on two sides, thus creating a level platform. This may have been expedient but it is not visually an entirely happy solution. The glass and metal studio block, which closes the vista, butts into the administrative block, and at this point the junction is against all one's normal expectations because the scale, levels and expression are quite different. The changes of level in the court prevent circulation diagonally across the square, which thus becomes more of a space in which to meander rather than a true piazza. But this restricted freedom of movement is perhaps the best compromise between public use and the need for reasonable quiet in the surrounding offices.

The square can be enjoyed by looking down into it, by strolling in it, but to a lesser extent when walking down Earl Street, from where, for instance, the water in the pool is obscured from this oblique view by planting. However, the way in which the square is linked to the street will be more easily assessed when the scheme is fully completed.

At this final stage there is the obvious opportunity to introduce sculpture as a further element in the landscaping; this addition is currently in hand.

#### CLIENT'S REQUIREMENTS

Since the formation of a City Architect's Department in 1939 the staff have been housed in a series of makeshift premises, and it has seldom been possible to locate all sections together in one building. New premises were therefore authorised for the department by the City Council to provide accommodation not only for architects and planners, but also quantity surveyors, administrative staff and model makers, together with the heating, electrical and ventilation section of the City Engineer's Department. Also included is a research section, which is being developed as a building information centre available not only to Corporation

staff, but also to anyone engaged in the building industry in Coventry.

#### SITE

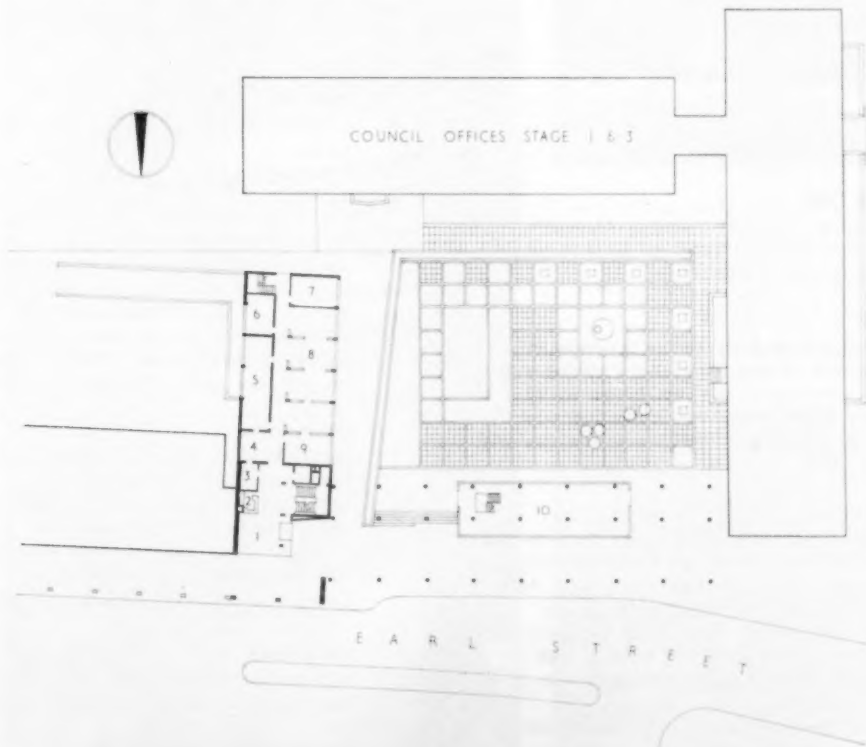
The building is sited on land already partially developed with Council offices (completed in 1955) and with frontage on to Earl Street in the central area of the City. The scheme includes the provision of access to a fourteenth-century crypt below ground level, which was discovered when an adjacent site was redeveloped for shops five years ago.

#### PLANNING AIMS

The building has been planned so as to provide in general the two main types of accommodation separately. The studio block, with mainly open planning for architects and engineers, is expressed as a fully glazed building with flat roof, contrasting with the administration block, which has a pitched copper roof and external brickwork, and which houses the quantity surveyors, planning department and administrative personnel. This breakdown has allowed the administrative block to be treated in a manner which blends with the post-war Council offices.

The design has been developed with access for the public in mind in two main respects. Firstly, the new premises have been planned to form two sides of a rectangle, which completes the enclosure of a court for general public use already partly formed by the existing Council offices. Secondly, there is an exhibition hall at ground level between the court and the pedestrian way at road level under the building. This has been developed so that it becomes virtually the shop window for the department where past, present and future development proposals can be simply and attractively displayed.

In the studio block open planning has been carefully developed to allow for flexibility in group layouts, with



## building study—2nd series

facilities for both internal and external meetings, by use of demountable screens and a highly absorbent ceiling. The overall objective, which has conditioned the detailing, has been to provide a building with high quality finishes and low maintenance costs.

## SUMMARY

Ground floor area: 4,735 sq. ft.  
Total floor area: 35,208 sq. ft.  
Type of contract: RIBA.  
Tender date: March 1957.  
Work began: June 1957.  
Work finished: September 1959.  
Tender price of foundation, superstructure, installation and finishes, including drainage to collecting manhole: £175,020 15s. 9d.  
Final contract price: £172,555 17s. 6d.  
Tender price of external works and ancillary buildings, including drainage beyond collecting manhole: £4,258 2s. 11d.  
Final contract price: £8,663 17s. 8d.  
Total: £181,219 15s. 2d.

## COST ANALYSIS

Based on final account.

(A) revised elemental breakdown in use from November 10, 1960.)

Cost per

sq. ft.

s d

3 6

## Preliminaries and insurances

(3.7 per cent of remainder of contract).

## Work below lowest floor level

Mass concrete foundations.  
Includes preservation of ancient crypt.

1 5½

## STRUCTURAL ELEMENTS

## Frame

In-situ reinforced concrete frame.

7 8½

## Upper floors

In-situ reinforced concrete floors throughout, including floor over basement: 3,174 sq. yds., 59s. 1½d. per sq. yd.

4 6

## Roof

Administration Block: timber carcassing on reinforced concrete frame, copper roofing on wood-wool slabs: 512 sq. yds., 97s. 6d. per sq. yd.  
Studio Block: reinforced concrete lightweight screed, felt and chippings: 731 sq. yds., 32s. od. per sq. yd.

4 4½

## Staircases

Main: precast reinforced concrete treads on in-situ reinforced concrete strings. Treads finished in hardwood: 38 ft. 1 in. high × 3 ft. 10 in. wide.  
Secondary (Administration Block): in-situ reinforced concrete, treads finished in hardwood.  
Basement (lower portion): 5 ft. 11 in. high × 4 ft. 8 in. wide. Rear staircase: 33 ft. high × 2 ft. 10 in. wide.  
Studio Block: rolled steel strings, hardwood treads: 24 ft. 6 in. high × 3 ft. 6 in. wide.

1 8½

## External walls

Administration Block: cavity wall, facing brick externally, plastered internally.  
Studio Block: curtain walling, painted steel box-section frames, aluminium opening lights, surround in stainless steel sheet.  
Proprietary curtain walling with 4-in. lightweight concrete block inner lining: 904 sq. yds., 286s. 6d. per sq. yd.  
One rendered brick end wall: 127 sq. yds., 49s. 7½d. per sq. yd.  
Glazed wall (or window) to exhibition area, including framing and door: 193 sq. yds., 431s. 0½d. per sq. yd.  
Glazed wall (or window) to reception area, including framing and doors: 33 sq. yds., 993s. 4½d. per sq. yd.  
13½-in. faced cavity wall: 746 sq. yds., 56s. od. per sq. yd.  
Serpentino marble cladding (no backing brickwork included): 113 sq. yds., 385s. 10½d. per sq. yd.  
Mosaic finish to columns: 135 sq. yds., 84s. 2½d. per sq. yd.  
Stainless steel fascia and concealed gutter: 170 sq. yds., 301s. 2½d. per sq. yd.

s d  
15 0½

## Windows

Administration Block: painted steel casements, opening lights centre pivot-hung BMA furniture.  
Studio Block: fixed double glazing north side, aluminium opening sashes top hung with SAA opening gear, south side: 3,122 sq. ft., 31s. 4½d. per sq. ft.

4 9½

## External doors

Secondary entrance: 1 pair glazed hardwood rear entrance doors: 43 sq. ft., 23s. 3d. per sq. ft.  
Roller shutters to basement garage: 58 sq. ft., 23s. 0½d. per sq. ft.

1½

## Partitions

2-in. concrete blocks: 21 sq. yds., 15s. od. per sq. yd.  
3-in. concrete blocks: 562 sq. yds., 20s. od. per sq. yd.  
Half brick wall: 627 sq. yds., 20s. od. per sq. yd.  
One brick wall: 729 sq. yds., 40s. od. per sq. yd.  
Space divider cupboard units in Administration Block: 285 sq. yds., 125s. 7½d. per sq. yd.  
Studio: movable partitioning, 1½-in. skeleton framed softwood leaves covered both sides with waterproof wood cellulose fibreboard; glazed fanlights over: 484 sq. yds., 98s. od. per sq. yd.

4 4½

## Internal doors

Circulation areas: hardwood doors, fully glazed. Elsewhere: ply-faced flush doors.  
22 pairs and 79 single flushed and fully glazed with glass: 2,001 sq. ft., 7s. 4½d. per sq. ft.  
2 single flush, one side lined with Royal Swedish redwood: 37 sq. ft., 5s. 4½d. per sq. ft.  
2 roller shutters: 101 sq. ft., 28s. 1½d. per sq. ft.

1 1½

## Ironmongery

SAA knob furniture generally. Door closers concealed in top rail. SAA kicking and push plates.

5½

Total of structural elements: 44s 2½d





*View from the top of Earl Street, above, showing the west corner of the studio block which will eventually link up with a further corner block*



*The library, right—"it is magnificent"*

*Corridor in the studio block. The corridor is not just a means of travelling from A to B. One can also see some of the things that are being done in the whole department. Some of the demountable partitioning has been relocated since the photograph was taken*



*Courtyard and blocks from the south-west; their manner of joining is against all one's expectations, above*

*The junction of the two blocks, below*

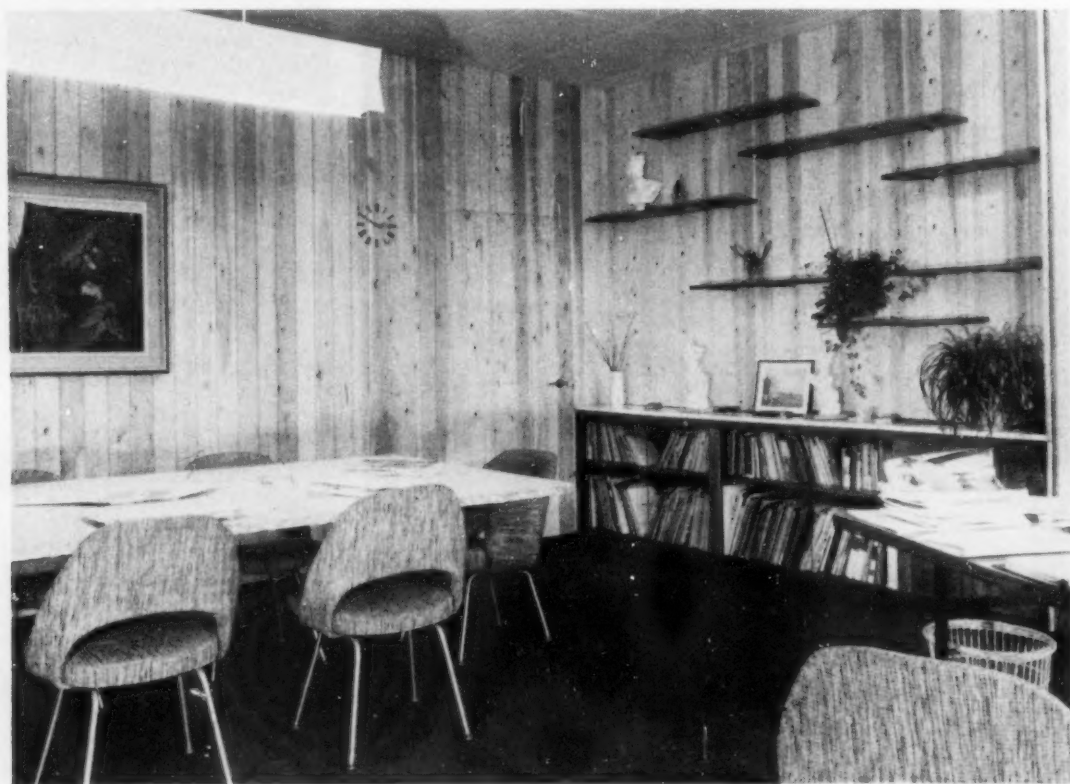


building study—2nd series



*Entrance hall. The mural was designed and painted by Michael McLellan, an architect on the staff*

*The seniors' offices create just the right impression of economy and efficiency*



**FINISHES AND FITTINGS****Wall finishes**

Plastered throughout and decorated in emulsion paint.  
Walls to City Architect's room and part reception area panelled full height in polished softwood boarding.  
Gypsum plaster: 3,352 sq. yds., 7s. 6d. per sq. yd.  
Standard wall tiling on screed: 33 sq. yds., 45s. per sq. yd.  
Royal Swedish redwood lining on softwood grounds: 52 sq. yds., 19s. 9d. per sq. yd.

**Floor finishes**

Entrance hall: white Sicilian marble landings.  
Jarrah strip on battens on acoustic clips: 320 sq. yds., 48s. 9d. per sq. yd.  
Lavatories: black terrazzo tiles and in-situ terrazzo skirting: 80 sq. yds., 100s. 11d. per sq. yd.  
Elsewhere: cork tiles on screed, insulating screed to lower studio floor.  
Cork tiles on 2½-in. lightweight screed: 686 sq. yds., 44s. 1d. per sq. yd.  
Cork tiles on 2½-in. cement and sand screed: 1,850 sq. yds., 38s. 8d. per sq. yd.  
1-in. granolithic: 65 sq. yds., 9s. 6d. per sq. yd.  
2-in. granolithic: 446 sq. yds., 13s. 6d. per sq. yd.

**Ceiling finishes**

Heated acoustic ceilings throughout.  
Gypsum plaster on suspended expanded metal lathing: 522 sq. yds., 21s. 8d. per sq. yd.  
Luminated ceiling in Exhibition Hall: 34 sq. yds., 117s. 11½d. per sq. yd.

**Decorations**

Gloss oil paint to steel window frames, softwood door linings and doors. Floor seal to hardwood trim. Panelling, etc., wax polish. Walls generally emulsion paint. Mural in entrance hall, tile mural to studio stair. Various manufacturers' samples incorporated in floor and wall finishes.

**Fittings**

Counter fitting, benches, bookcases, samples cupboard, drawing boards, hat and coat rails, pin-up and notice boards, shelving, mirrors.

**Total of finishes and fittings: 10s 4½d**

**SERVICES****Sanitary fittings**

Type of fitting	No. of each type
White glazed fireclay w.c.s	15
White glazed fireclay lavatory basins with single tap	15
Flat type slab urinal 4 ft. 3 in. long × 4 ft. 0 in. high with white enamelled flushing cistern	4
Belfast sinks	5
Stainless steel sinks 63 in. × 18½ in.	2
Sanitary towel dispensers and automatic machines	2

**Waste, soil and overflow pipes**

Copper throughout.

**Cold water services**

Copper throughout.  
No. of draw-off points: 7  
No. of hose reel points: 5  
Includes builder's work, 2d.

**Hot water services**

Oil-fired boiler rated at 325,000 B.t.u.s per hour.  
Hot water draw-off points: 7  
Mixed spray draw-off points: 15  
Includes builder's work, 1½d.

**Heating services**

Radiant ceilings generally, perforated steel trays and pipework carried on galvanised tees. Floor panels in Exhibition Hall. Two automatic oil-fired boilers at 1,670,000 B.t.u.s per hour, using 200 seconds fuel. Two storage tanks, each 3,000 gallons capacity.  
Includes builder's work, 10d.

**Ventilation services**

Plenum system in Studio Block, four air changes per hour.  
Separate extract from w.c.s.  
Includes builder's work, ½d.

**Electrical services**

Mains from stage 1 office block and switchgear  
Wiring to lighting and general purpose sockets, including differently phased supply to adjacent fluorescent fittings to reduce stroboscopic effects  
Boiler control panel and circuits  
Batten fluorescent fittings with plastic diffusers; tungsten fittings; 425 fluorescent and 110 filament lamps  
Public lighting under canopy  
Includes builder's work, 1½d.

**Special services**

12-person passenger lift: 5 stops.  
Floor ducted GPO and internal telephone systems throughout.  
Includes builder's work, 1d.

**Drainage**

Separate system; salt glazed ware, but cast iron under building.

**Total of services: 35s 5½d**

**External works**

Ramp to basement car park.  
Paved courtyard incorporating sample pavings and brick panels.  
Large and small pool and fountain.  
Trees, flower beds and flower pots.

**Total cost per sq. ft. of floor area**

£172,555 17s. 6d. (net cost, excluding external works)

35,208 sq. ft. (measured inside external walls)

= 98

## building study—2nd series

## COST COMMENTS

More than offices and studios were needed on this intensely urban site, the building also had to make a proper contribution to the environment of the city, and although this may give an "extra-over" when compared with a site-filling, maximum-return office block, the result, in terms which include city and community, is good value for the money. Here the covered and lit pedestrian way, the exhibition space, the sheltered court, and the placing of the blocks on two sides of this, are some of the "extra-over" items. This may influence those who at local and national levels decide what

should be a reasonable cost for a building of this type. The figure of £5 os. od. per sq. ft. is bruited as a basis, but each case is decided on its merits.

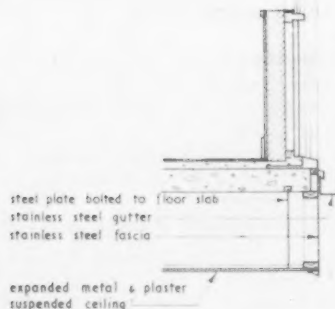
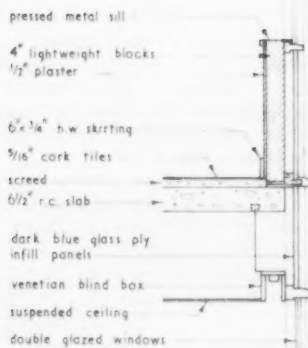
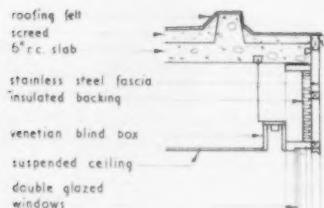
**External Walls:** The fairly high wall/floor ratio and the double glazing on the street side have helped to make this element higher than usual.

**Heating:** This element seems high but it should be noted that it includes much of the ceiling element.

**Electrical Services:** The cost reflects the high level of the illumination needed for drawing offices.

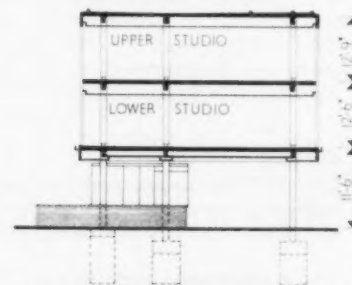
The building has a high standard of finish inside and out and consists of durable, low maintenance materials. It will thus take its place as another good-value building in the city.

Section through external walling of studio block

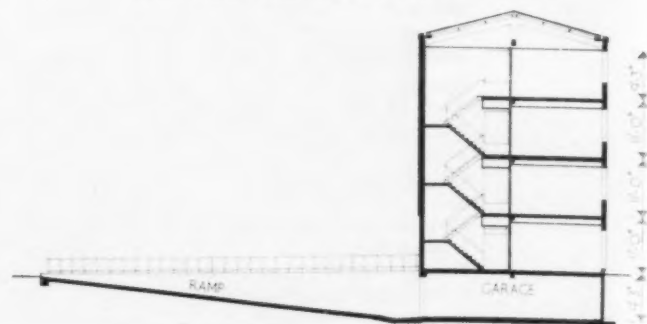
[Scale:  $\frac{1}{4}$ " = 1' 0"]

## CONTRACTORS

**General:** Garlicks Ltd. **Sub-contractors and suppliers:**—**Reinforcement:** G. K. N. Reinforcement Ltd. **Sliding and folding gates:** Potter Rax Ltd. **Heating, hot water, ventilating and acoustic tile ceiling:** Sulzer Bros. **Windows:** Henry Hope & Son Ltd. **Copper roofing:** Frederick Braby & Co. Ltd. **Terrazzo floor tiles and partitions:** Roman Mosaic Ltd. **Lift:** Otis Elevator Co. Ltd. **Incinerators:** Wandsworth Electrical Manufacturing Co. Ltd. **Dispensers:** Southalls (Birmingham) Ltd. **Lumenated ceilings:** Lumenated Ceilings Ltd. **Felt roofing:** Flexi-Mastic Ltd. **Venetian blinds:** Coventry Blind & Shutter Co. Ltd. **Doors:** Manor Joinery Works Ltd. **Lightning conductor installation:** W. J. Furse & Co. Ltd. **Double and vitrolab glazing:** Glass (Coventry) Ltd. **Fire alarm bells:** Kingsford Products Ltd. **Sanitary fittings:** A. J. Thomas & Co. Ltd. **Window cleaning gantry:** Matterson Huxley & Watson Ltd. **Electrical installation:** Thompson Electrical Co. Ltd. **Stainless steel fascia:** H. H. Martyn & Co. Ltd. **Internal telephones:** Reliance Telephone Co. Ltd. **Stainless steel window frames and studio block staircase:** A. Edmonds & Co. Ltd. **Insulating screed:** Isocrete Ltd. **Ironmongery:** James Gibbons Ltd. **Cupboard and shelf units:** General Woodworkers Ltd. **Asbestos-cement flower tubs:** G. R. Speaker & Co. Ltd. **Marble wall facings and paving:** W. H. Fraley & Sons Ltd. **Strip and cork tile flooring, glass mosaic and wall tiling:** Coventry Tile Co. Ltd.

Section through studio block [Scale:  $\frac{1}{32}$ " = 1' 0"]

Section through administrative block

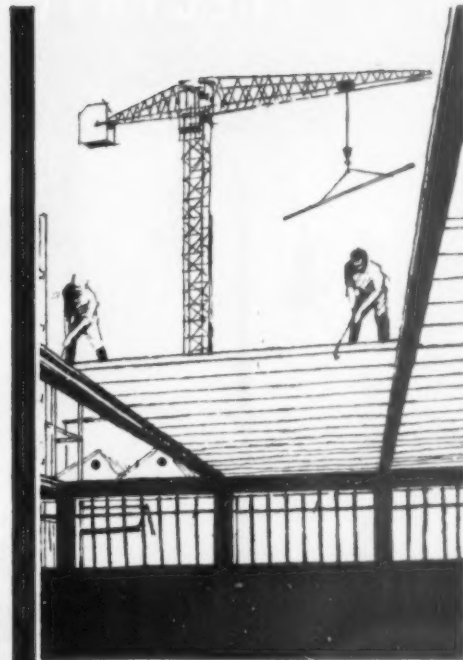




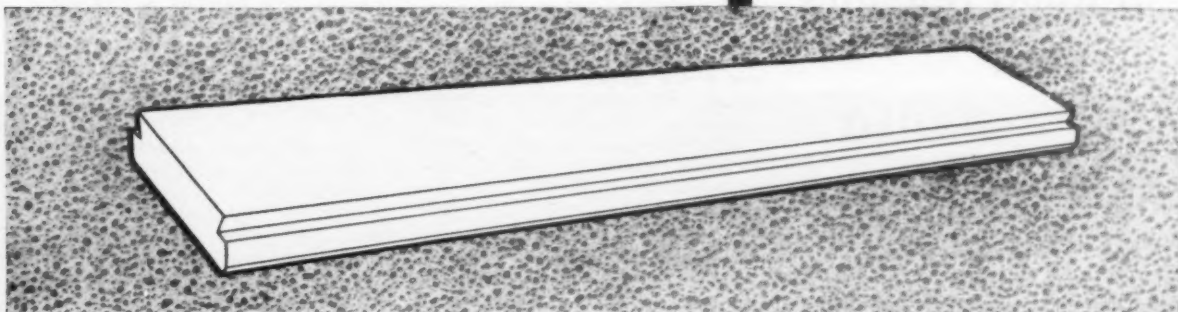
# INDUSTRIAL ROOFING WELCOMES THE **SIPOREX** AGE

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

# ELECTRIC FLOOR WARMING

INFORMATION SHEET

# 7



**For a variety  
of good reasons  
electric  
floor warming  
was chosen  
for the new  
Peter Robinson  
store**

**High standards of comfort.** Electric floor warming, installed in six floors of this new building, was chosen as the most economic and practicable system of complete, all-round heating.

The system is designed to take current during off-peak hours between 7 p.m. and 7 a.m. and also from 12 noon to 3 p.m. if a boost is needed. Loading is 60 to 70 kW, floor area is 38,350 sq. ft. and the designed temperature is 68°F.

**Low installation costs.** Because of the absence of boilers, chimneys and pipe trenches outside—and pipes, radiators, flues, chimney breasts and radiators inside—electric floor

warming is the cheapest system of all to install in new buildings.

**Economical and trouble free.** Electric floor warming is very economical to run because it uses cheap, off-peak electricity at night to provide heat during the day. It is completely reliable and seldom, if ever, needs attention.

**Clean and labour saving.** Electric floor warming is absolutely clean in operation. It is the complete answer to the Clean Air Act and cannot create dust or dirt to soil decorations and contents of rooms. It is entirely automatic, too: all chores connected with fuel handling are eliminated and so is the need for boiler-room staff.

**If you are thinking of installing electric floor warming,  
ask your Electricity Board for details**

*Issued by the Electrical Development Association, 2 Savoy Hill, London, W.C.2*

## Contract administration

## murals or sculpture

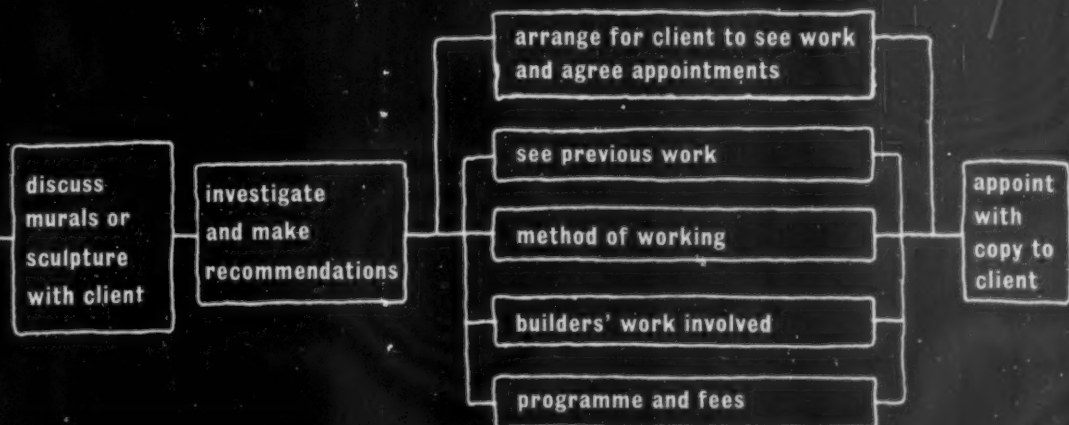
11

You have a duty to advise your client very carefully however confident you may feel that you can handle this work yourself. The artist must be chosen with the same principles in mind as when choosing sub-contractors, namely suitability for their particular job and, bearing in mind the position, size, scale, weathering difficulties, materials, circulation hazards, and so on. Discuss with suitable people samples of their work or alternatively find out where examples can be seen. Find out the materials with which they work best, how long it will take to carry out the commission, how they would propose to deal with it, either on site or in their

own studio, and their likely fees, including materials. Decide whether there is any builder's work involved, whether the item should be included in the Bill of Quantities with the builder's work (attendance and profit) or whether the artist should be directly commissioned by the client as a freelance artist and if so, whether he can make arrangements for site delivery or working in the building. Advise your client, with recommendations, and obtain approval to make the appointment after arranging for him to see samples of the work. If the cost is being included in the Bill of Quantities the artist should be warned that this will eventually be paid

by the general contractor who will expect him to conform to the normal rules and RIBA contract conditions for sub-contractors concerning retention, percentage discount, defects after completion, etc.

Remember that the person you employ will expect to be given a brief quite equal to the brief you would give to the plumbing contractor and this is the point at which you make your own contribution in describing how you feel that it should fit into the character of the building and exactly what you have in mind.



## Contract administration

## statutory consents

12

When the client's brief is known, arrange meetings with representatives of local authorities for the area in which the building is situated.

The general standards of building are controlled under these three principal headings:—

Planning—Town and Country

Planning Acts.

Construction—Building Acts and Byelaws.

Sanitation—Public Health Act and Byelaws.

Although the precise requirements of building legislation will change from time to time the local authorities concerned will always need to be satisfied

on the points included in the check lists overleaf.

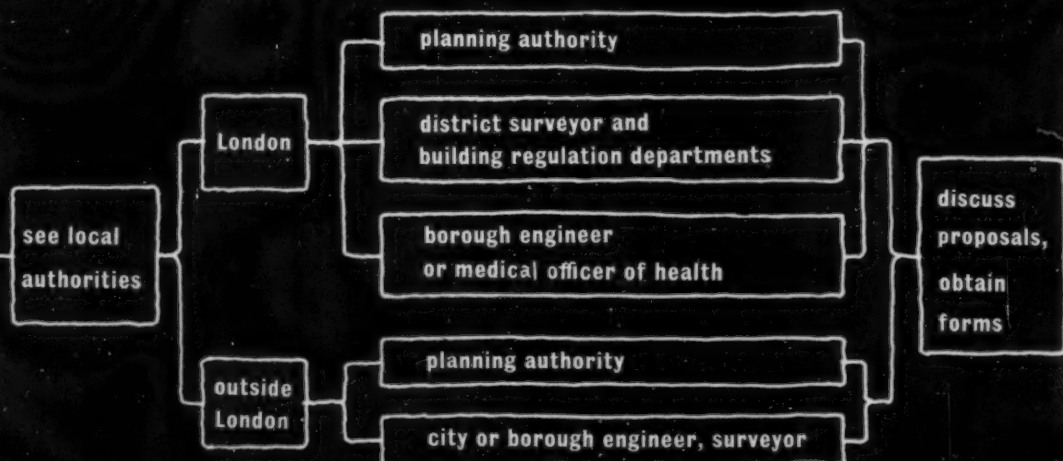
Discuss proposals in comprehensive sketch form and modify if necessary around recommendations concerning the regulations which apply. At the same time get copies of the appropriate forms of application for approvals and a copy of the building regulations. Local authorities will generally advise upon the Acts and Byelaws related to building, the time required for approvals and any subsidiary consents which may be necessary depending on the nature of the works.

To discuss your proposals freely with the local authority at an early stage will

enable you to know whether the scheme is likely to be approved and if it is, to proceed with drawings, subject to client's blessing, in the time between formal application and approval.

If you are employing new techniques your client must be informed of any potential risks involved. This does not relieve you of your responsibility to obtain the best available advice on the techniques concerned.

It is slightly too early to obtain landlords' consent where building under consideration is leasehold, but it is as well to get a copy of any conditions which may be imposed by them or their agents on materials or planning.





# Contract administration

## statutory consents

## check list

### CONSTRUCTION AND DRAINAGE outside London

administered by local authority principally under the Public Health Acts and byelaws. Application for consent usually on combined form. Local authority will also advise of any other Acts applicable.

full address or location of site/property

name and address of applicant/owner

general construction related to the byelaws

materials for external walls  
internal partitions  
party walls  
roofs  
description of d.p.c.'s

buildings related to building lines or improvement lines

levels relative to highway and storey heights including underground rooms

natural light and ventilation

means of escape in case of fire, lobbies, horizontal and vertical firebreaks on external walls

materials relative to loading and fire classification

thermal insulation

calculations for structural system

refuse or trade effluent disposal

water supply and storage

description, size, inclination and depth of soil and stormwater drains

sewage disposal systems

County of London

administered under two authorities:  
*a.* London County Council through appropriate District Surveyor as the LCC's inspector for London Building Acts and construction byelaws. The district surveyor and the appropriate departments of the LCC advise on relevant sections of the Acts for inclusion on the planning application form where specific sections need consent or any other Acts applicable to the development.

*b.* Metropolitan boroughs through the Borough Engineer (new buildings) or Medical Officer of Health (existing buildings) for Public Health (London) Acts and byelaws.

### PLANNING CONTROL outside London

administered by the local planning authority under the Town and Country Planning Acts. Application for consent usually part of combined form dealing with other principal Act requirements. Two months allowed for decision by planning authority.

full address or location of site/property

certificate of notice to owners where not the applicant

name and address of applicant/owner

type of development (new, conversion, or change of use)

whether outline or full consent is required

present use of site

access to highway (new, existing, or modified)

whether permanent or limited life development

description of external materials and colour

all information relative to industrial or commercial use

## Contract administration

## statutory consents

12

When the client's brief is known, arrange meetings with representatives of local authorities for the area in which the building is situated.

The general standards of building are controlled under these three principal headings:—

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Planning Acts.

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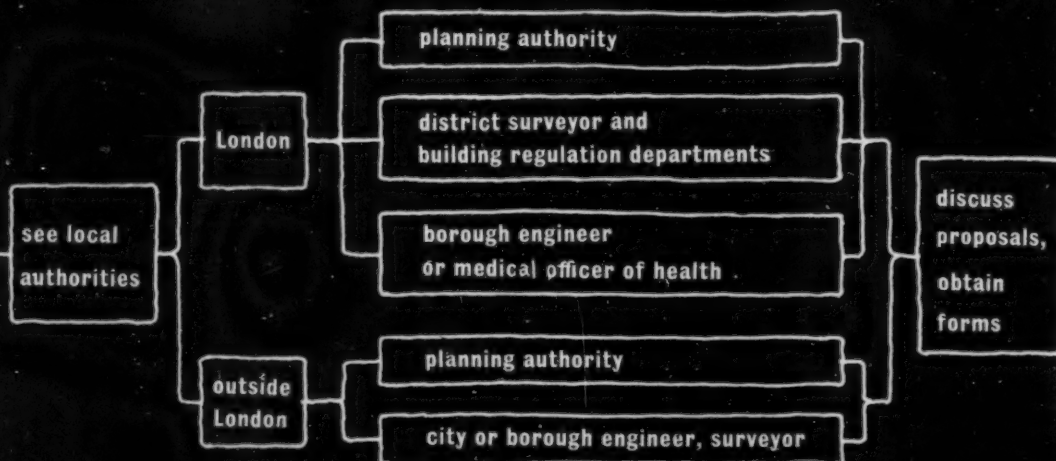
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To discuss your proposals freely with the local authority at an early stage will

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If you are employing new techniques your client must be informed of any potential risks involved. This does not relieve you of your responsibility to obtain the best available advice on the techniques concerned.

It is slightly too early to obtain landlords' consent where building under consideration is leasehold, but it is as well to get a copy of any conditions which may be imposed by them or their agents on materials or planning.



**Contract administration****statutory consents****check list****CONSTRUCTION AND DRAINAGE**  
outside London

administered by local authority principally under the Public Health Acts and byelaws. Application for consent usually on combined form. Local authority will also advise of any other Acts applicable.

full address or location of site/property

name and address of applicant/owner

general construction related to the byelaws

materials for external walls

internal partitions

party walls

roofs

description of d.p.c.'s

buildings related to building lines or improvement lines

levels relative to highway and storey heights including underground rooms

natural light and ventilation

means of escape in case of fire, lobbies, horizontal and vertical firebreaks on external walls

materials relative to loading and fire classification

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description, size, inclination and depth of soil and stormwater drains

sewage disposal systems

County of London

administered under two authorities:  
*a.* London County Council through appropriate District Surveyor as the LCC's inspector for London Building Acts and construction byelaws. The district surveyor and the appropriate departments of the LCC advise on relevant sections of the Acts for inclusion on the planning application form where specific sections need consent or any other Acts applicable to the development.

*b.* Metropolitan boroughs through the Borough Engineer (new buildings) or Medical Officer of Health (existing buildings) for Public Health (London) Acts and byelaws.

**PLANNING CONTROL**  
outside London

administered by the local planning authority under the Town and Country Planning Acts. Application for consent usually part of combined form dealing with other principal Act requirements. Two months allowed for decision by planning authority.

full address or location of site/property

certificate of notice to owners where not the applicant

name and address of applicant/owner

type of development (new, conversion, or change of use)

whether outline or full consent is required

present use of site

access to highway (new, existing, or modified)

whether permanent or limited life development

description of external materials and colour

all information relative to industrial or commercial use

## Contract administration

## statutory consents

## check list

County of London

administered by London County Council (County Hall) under the Town and Country Planning Acts. Application form including section dealing with specific consents under London Building Acts. Two months allowed for decision by planning authority.

areas—vehicle parking, loading, etc.

drawings, showing development to  $\frac{1}{8}$  in. or  $\frac{1}{16}$  in. scale.

drawing showing location plan related to existing buildings, trees and roads

## CONSIDERATION FOR GENERAL CONSENTS

landlord or lessor

where conditions of lease will affect planning, construction, work on site, or reinstatement

insurance company

where terms of insurance are likely to be affected or special precautions necessary to comply with terms

adjoining owners

where works are likely to affect walls or structure jointly owned under the terms of the London Building Acts, or where other rights are held over the site or property

main architect

where works are on a tenancy in a building still under construction

Royal Fine Art Commission

where design affects public amenity, work to be carried out under financial grant to local authority or otherwise client or local authority want guidance from RFAC

Boroughs also deal with pavement lights, signs, etc.

positions of:—  
water closets  
soil pipes  
rainwater pipes  
gullies  
access gullies  
sinks  
vent pipes  
manholes  
fresh air inlets  
cleaning eyes  
interception traps  
baths  
lavatory basins  
waste pipes  
cleaners' sinks  
bidets  
urinals

descriptions of:—  
concrete mix, cover and bed for pipes  
interceptor, gully, waste and w.c. traps  
manhole brick thickness, rendering, cover and fixing  
drainage and ventilation  
anti-syphon system to w.c.'s or fittings  
natural or mechanical ventilator to w.c.'s and lobbies  
jointing methods between pipes and fittings

drawings showing proposals to  $\frac{1}{8}$  in. or  $\frac{1}{16}$  in. scale

drawings showing location related to existing buildings, roads and mains



CHANGING CUBICLES: BEACH NEAR ATHENS

*P. A. Sakellarios, E. Vourekas and P. Vasiliades, architects (material supplied by G. Urégian)*



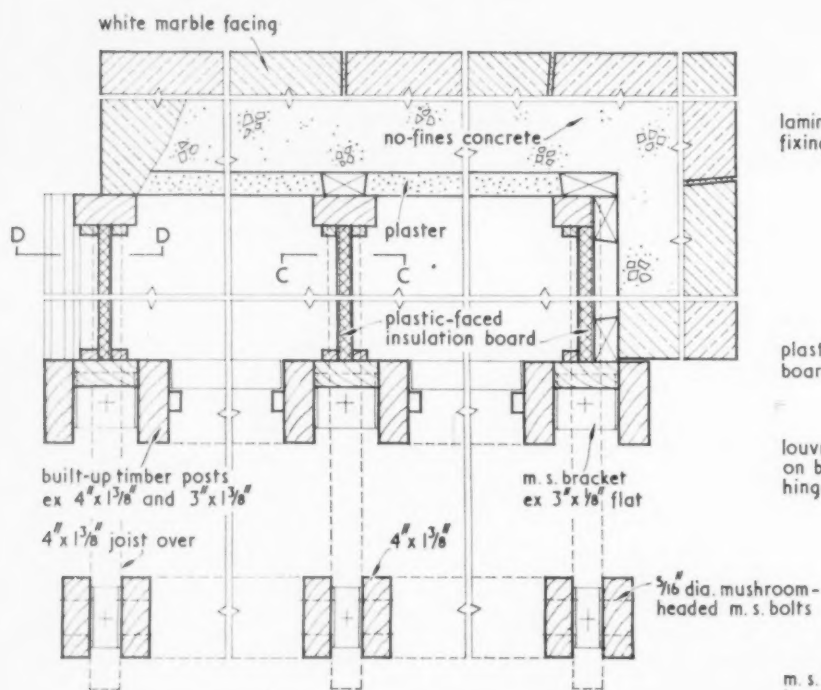
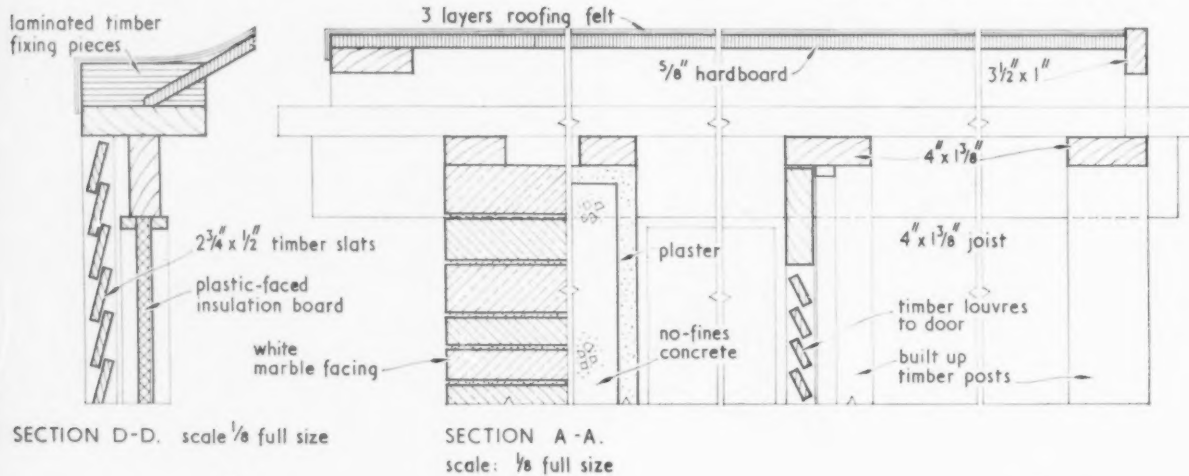
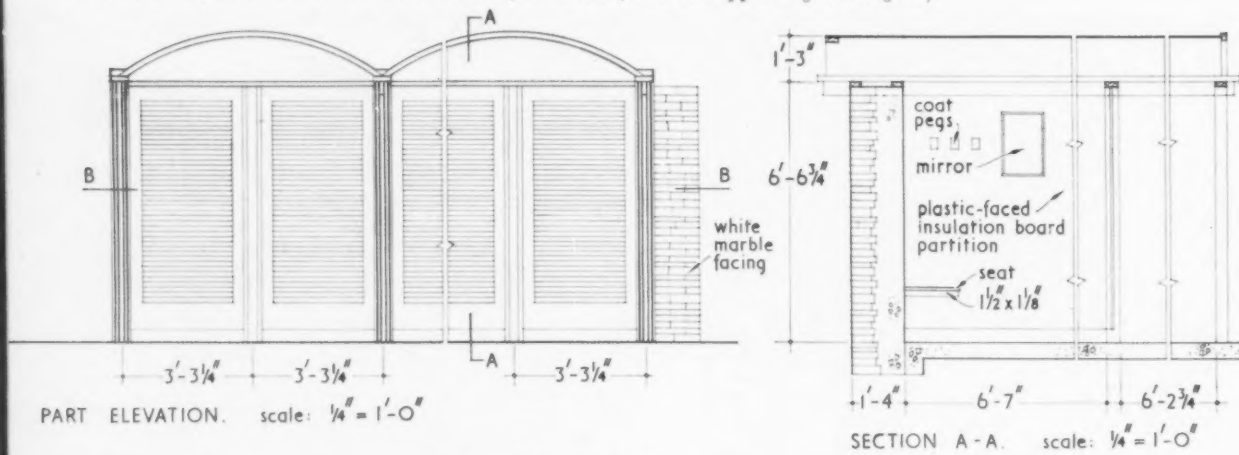
*The elegant barrel-vaulted roofs to these cubicles are made of  $\frac{1}{2}$  in. hardboard which is held down along the line of the springing by continuous wedge shapes of laminated timber. These in turn are secured by flush-headed bolts and the whole is topped by three ply felt.*

## working detail

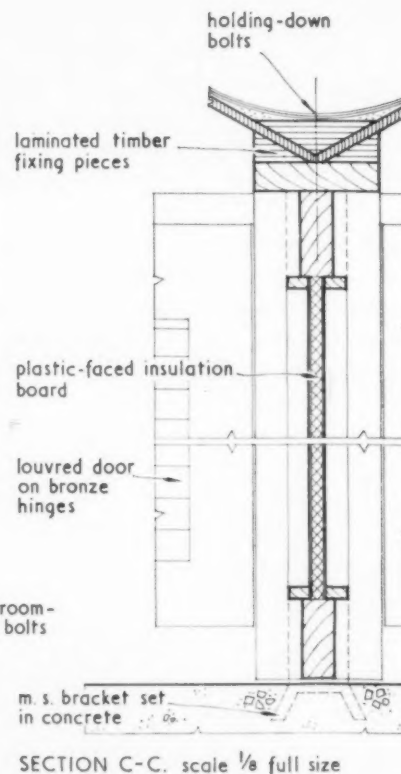
## MISCELLANEOUS: 41

## CHANGING CUBICLES: BEACH NEAR ATHENS

P. A. Sakellarios, E. Vourekas and P. Vasiliades, architects (material supplied by G. Urégian)



note: figured dimensions in feet and inches are approximate



**working detail**

**ROOFS AND CEILINGS: 66**

TIMBER ROOF: SNACK BAR NEAR ATHENS

*P. A. Sakellarios, E. Vourekas and P. Vasiliades, architects (material supplied by G. Urégian)*

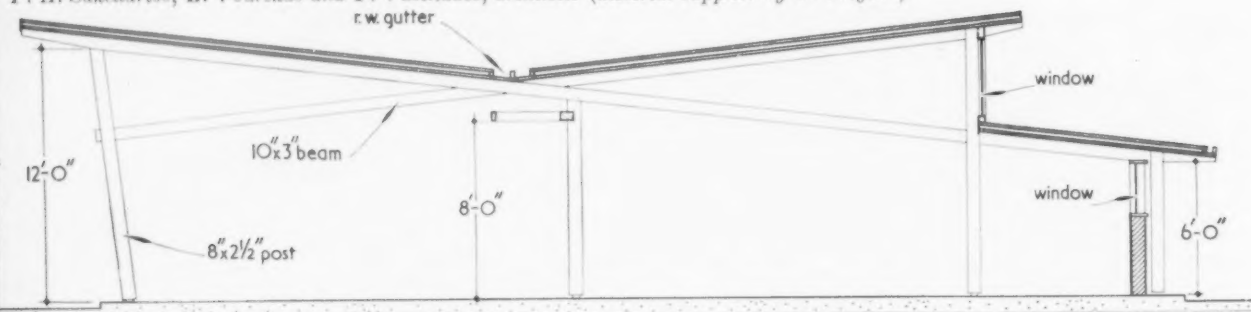
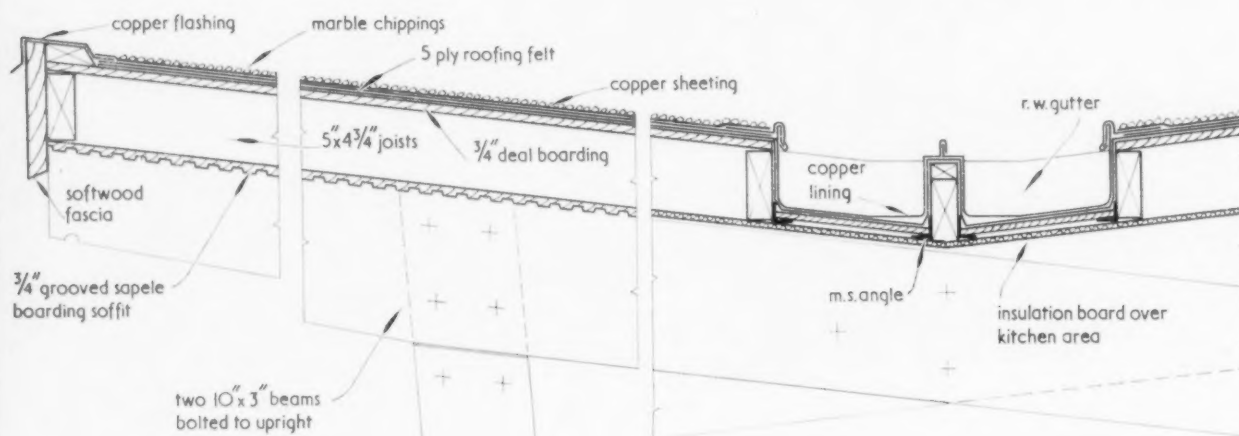


*The wide spans of this version of the butterfly roof are made possible by the systematic use of mild steel plates. These are normally concealed from view, but, when visible, are countersunk into the joist thickness. Note the use of brackets at the foot of all posts to ensure that the timber does not come into contact with the ground at any point.*

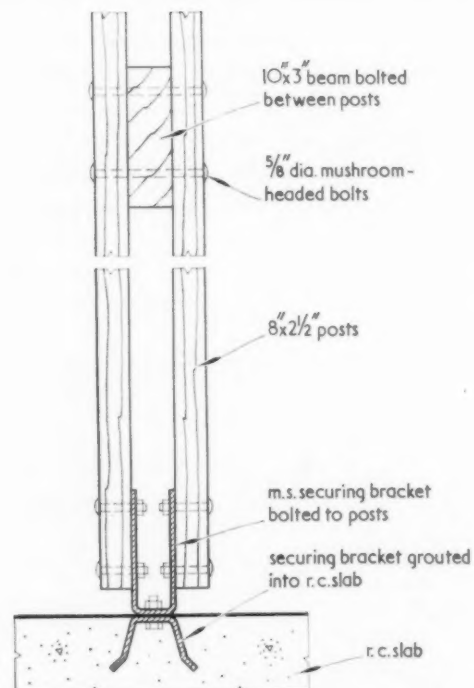
## working detail

## TIMBER ROOF: SNACK BAR NEAR ATHENS

P. A. Sakellarios, E. Vourekas and P. Vasiliades, architects (material supplied by G. Urégian)

SECTION. scale  $\frac{1}{8}" = 1'-0"$ two 10"x3" beams  
bolted to upright5/8" dia. mushroom-  
headed bolts10"x3" beam bolted  
between posts5/8" dia. mushroom-  
headed boltstwo 8"x2 1/2" timber posts  
bolted togetherm.s. securing bracket  
bolted to posts

r.c. slab

timber packing piece  
between posts

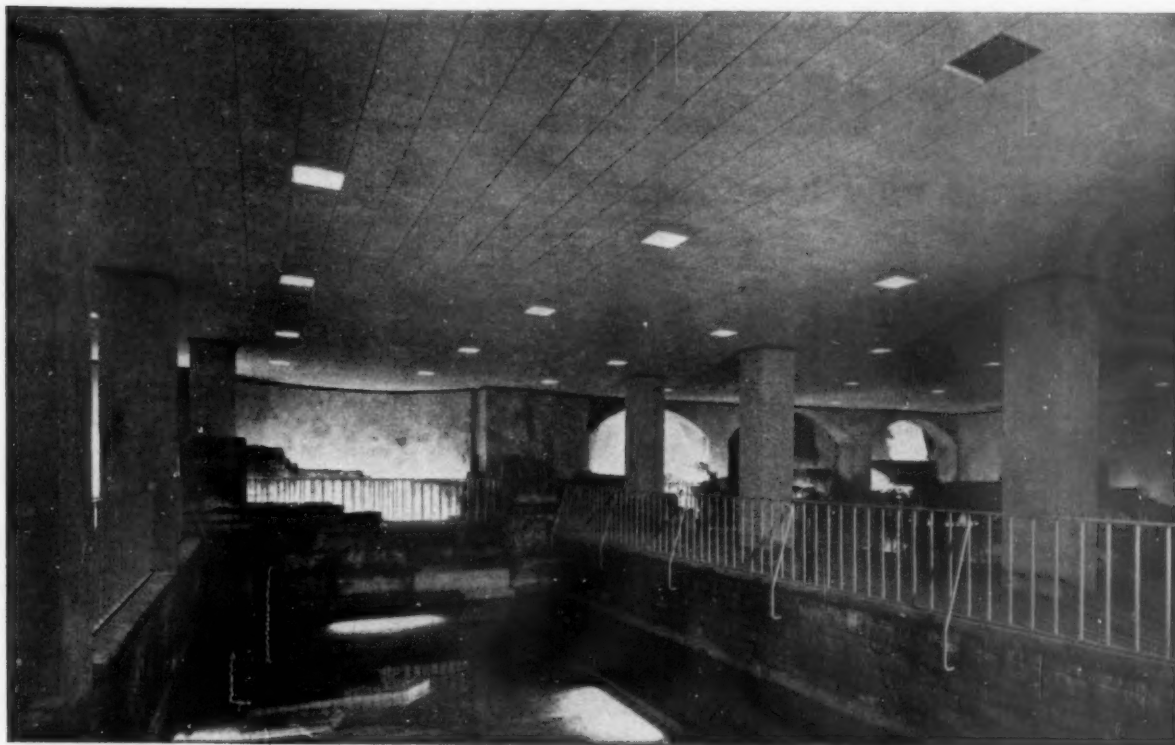
SECTION A-A.

note: figured dimensions in  
feet and inches are approximateDETAIL SECTION. scale  $1" = 1'-0"$





# he silence that was Rome...



*The new ceiling of the famous Kingston Baths, Bath City and Waterworks Engineer: W. Hartley, A.M.I.C.E., A.M.I.Mech.E., A.M.I.W.E., M.R.S.H.*

Originally built by the Romans, the famous Kingston Baths at Bath were lost under debris and growth and were not discovered until 1923.

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Travertone and Cushiontone are other Armstrong tiles with a high sound-absorption coefficient. Armstrong experts are at your service to assist you in the choice of acoustic materials and the solving of acoustic problems. Please write for full details.

The next advertisement in this series will feature the showroom of De la Rue Bull Machines Ltd in Southampton Row.



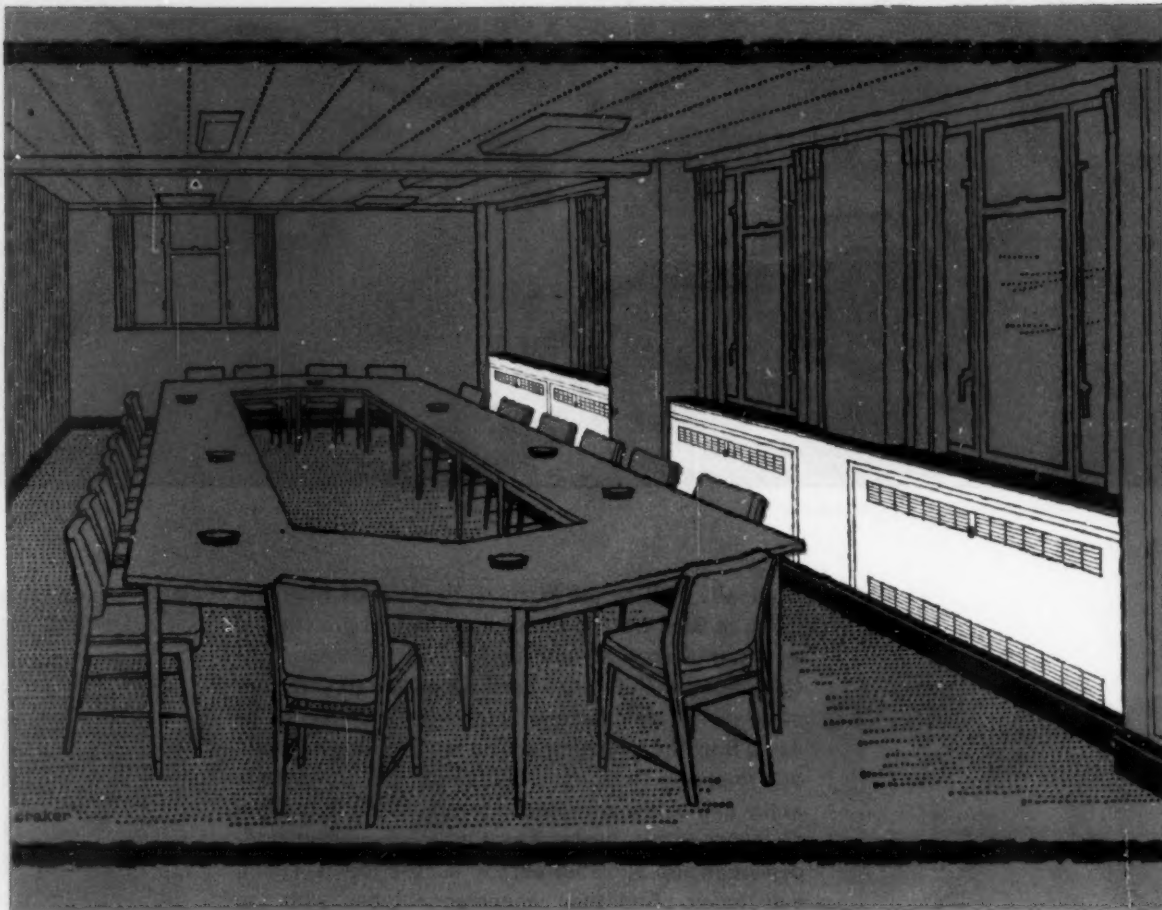
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Armstrong Cork Company Ltd Acoustics Department  
Carlisle Road, Colindale, London, N.W.9 Tel: COLindale 9744

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*Architects: Messrs. Joseph, F/F.R.I.B.A.*

*Heating Engineers: Young, Austen & Young*

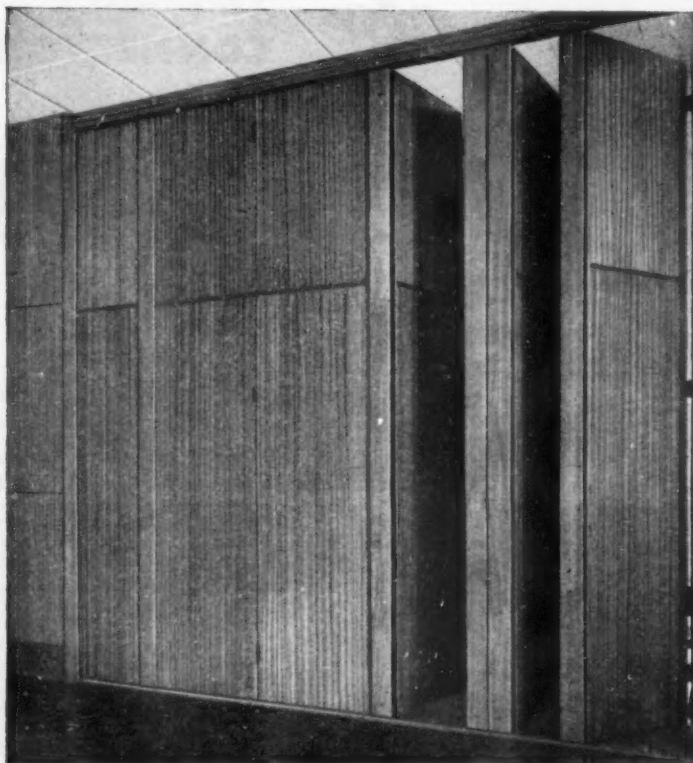
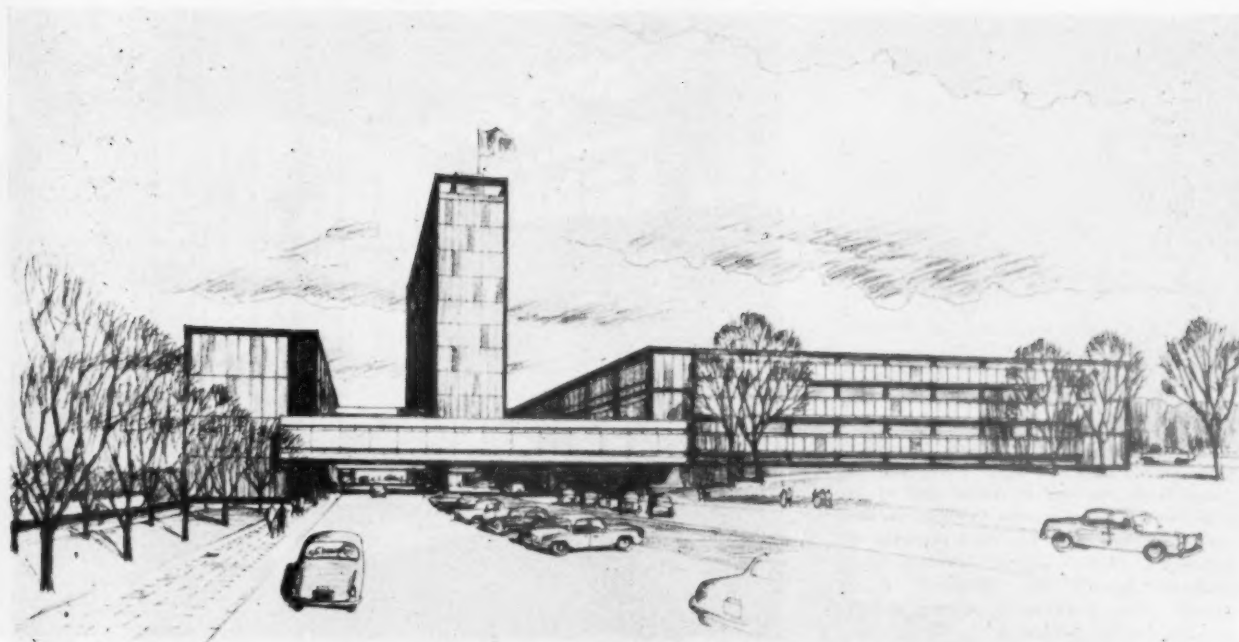
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## Office Building

Work is about to start on this office building at St. Helens, Lancashire, which has been designed by E. Maxwell Fry of Fry, Drew & Partners, job architect P. Bond. The site is on the main St. Helens to Liverpool road, and the scheme will be dominated by the 170 ft. high tower block. The building is due to be completed in the autumn of 1963 at a cost of approximately two and three-quarter million pounds.



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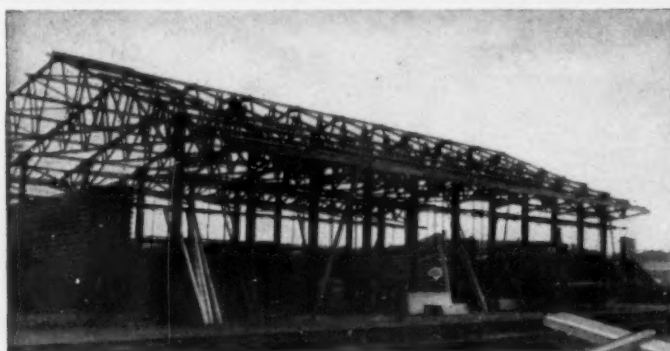
Architect: Fitzroy Robinson & Partners.

Esavian sliding and folding partitions finished in polished mahogany.



## Swimming Pool

*This indoor swimming pool at Wythenshawe, Manchester, has recently been completed. The pool measures 110 ft. by 48 ft., the depth varying between 3 ft. 3 in. and 12 ft. 0 in., and the water treatment plant and other equipment is housed in a basement surrounding the pool. There are 136 changing rooms, and on either side of the pool there is tiered seating for just over 800 spectators. The pool has been designed by Leonard C. Howitt, City Architect; S. G. B. Roberts, Deputy City Architect; J. S. Marsh, Chief Assistant; G. Carter and N. Stanley, Project Architects.*

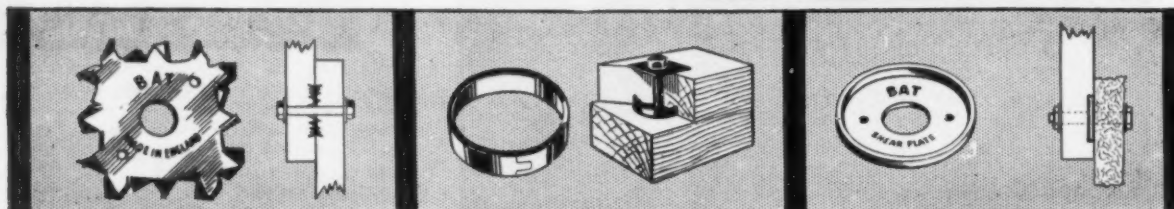


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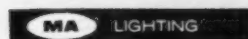
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A series of technical  
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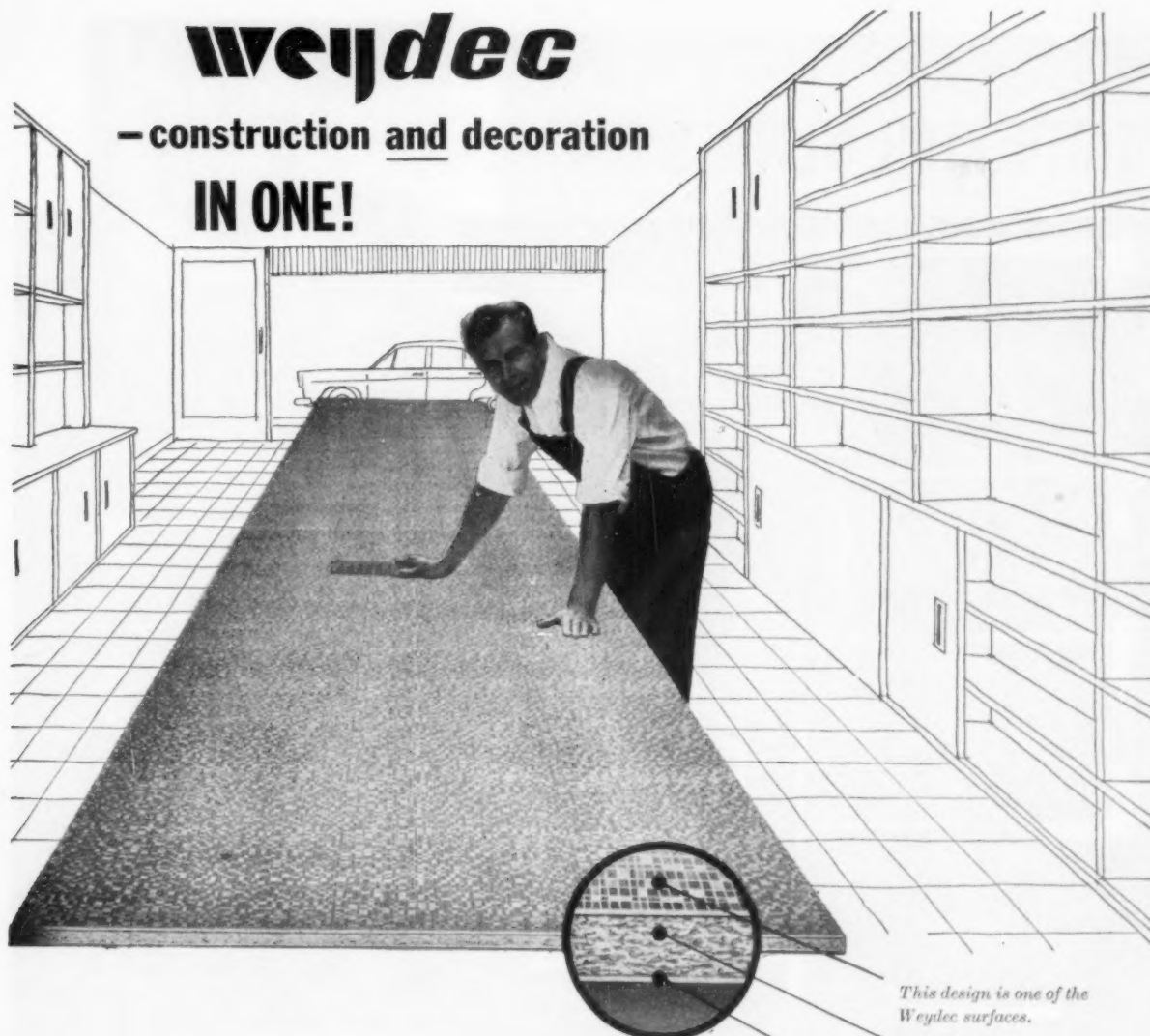
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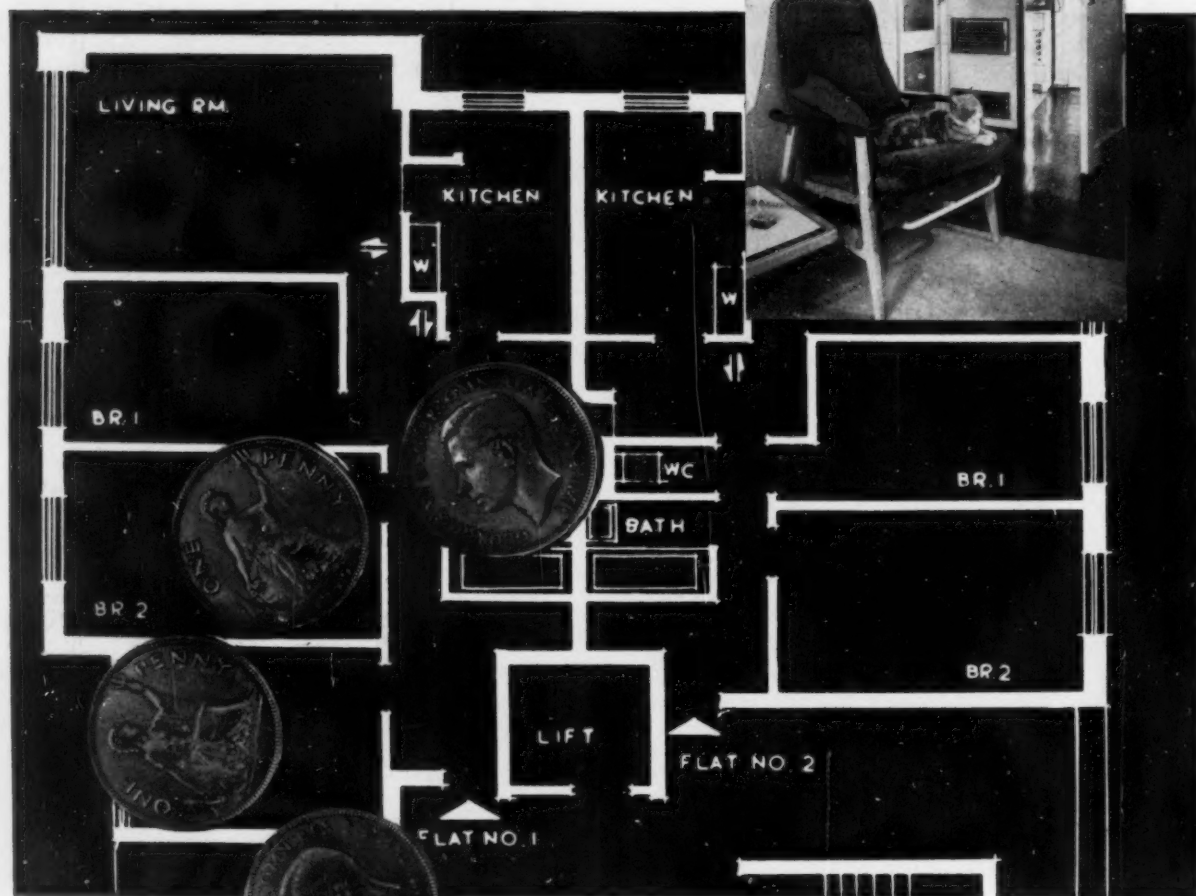
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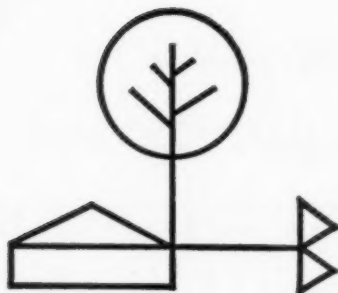
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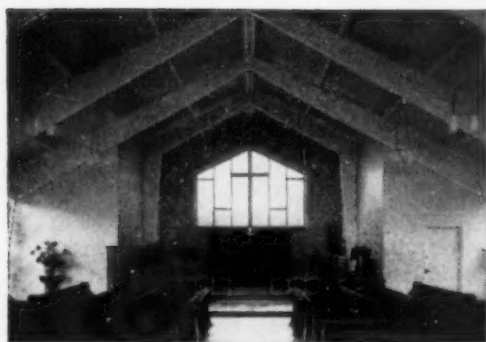
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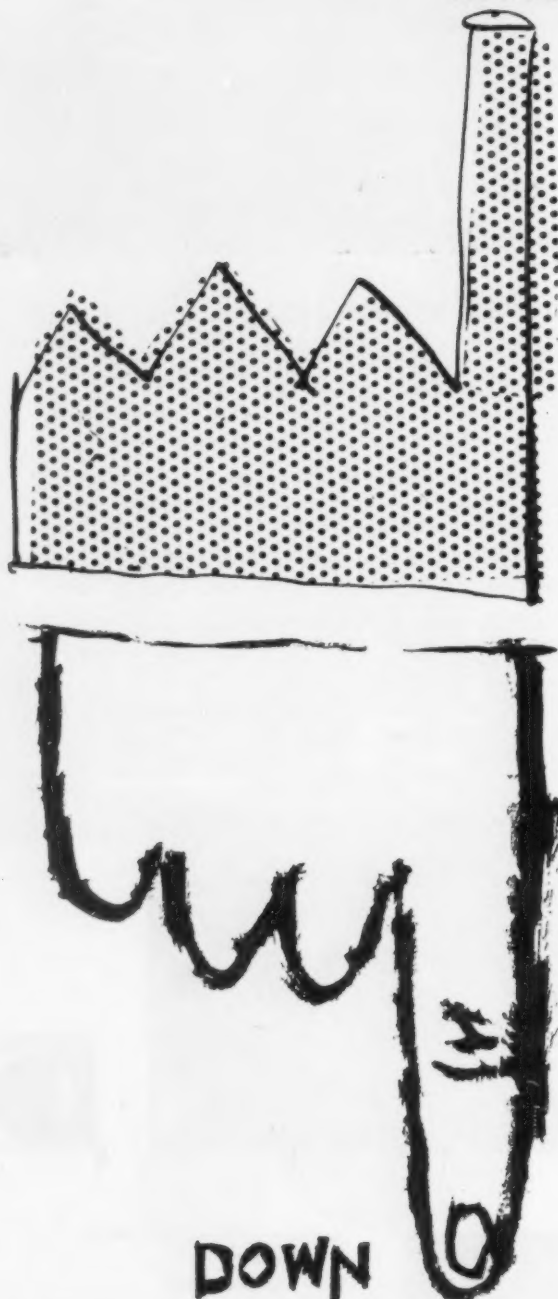
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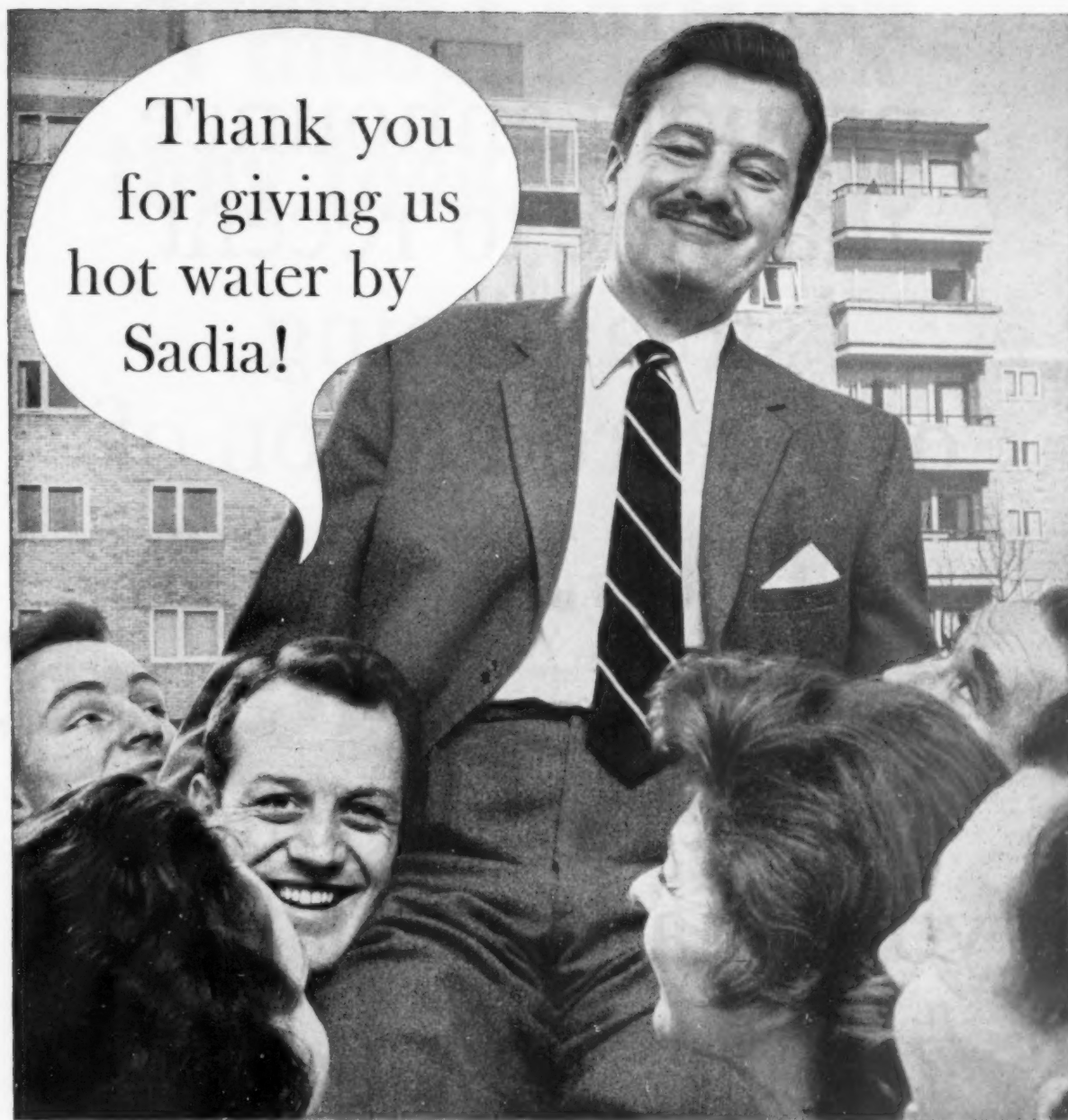
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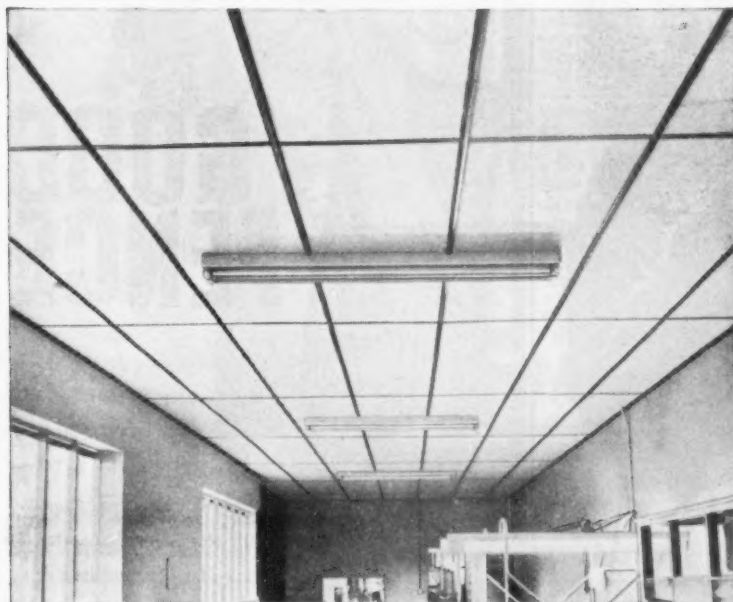


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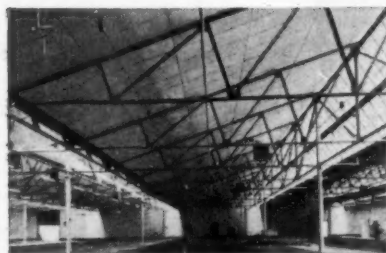
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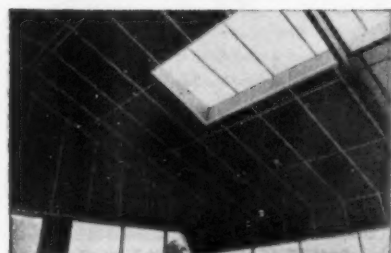
Mr. R.E. Downes-Shaw, M.I. Mech. E., Superintending Engineer for Peterlight Products Ltd., had many problems when he had to install fully suspended, insulated ceilings in old factory premises in Redhill, Surrey. The materials used had to be dust proof and cover large sections which were not capable of bearing much extra weight. Every minute saved was vital because unavoidable complications on the takeover of the building delayed the whole schedule three months. The entire insulation of each of two areas of ceiling with Marleycel panelling was actually completed in two days with the use of the Grecon System. The total area covered was 1,600 sq. ft. The Marleycel Polystyrene panels took care of the insulation problem, and their exceptionally light weight has ensured a ceiling free from sag and undue load on the roof. The panels were suspended by means of the lightweight Grecon System, using suspension tubes over 9 ft. long, fixed to the structural members by Grecon metal hangers. To seal the butt joints of the boards, a coloured plastic noggin bar was used, and to cover the clips securing the board, as well as giving a de luxe dust-free finish, black plastic capping was fitted.



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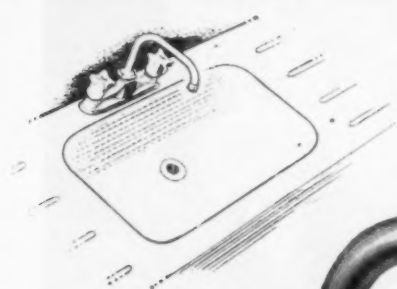
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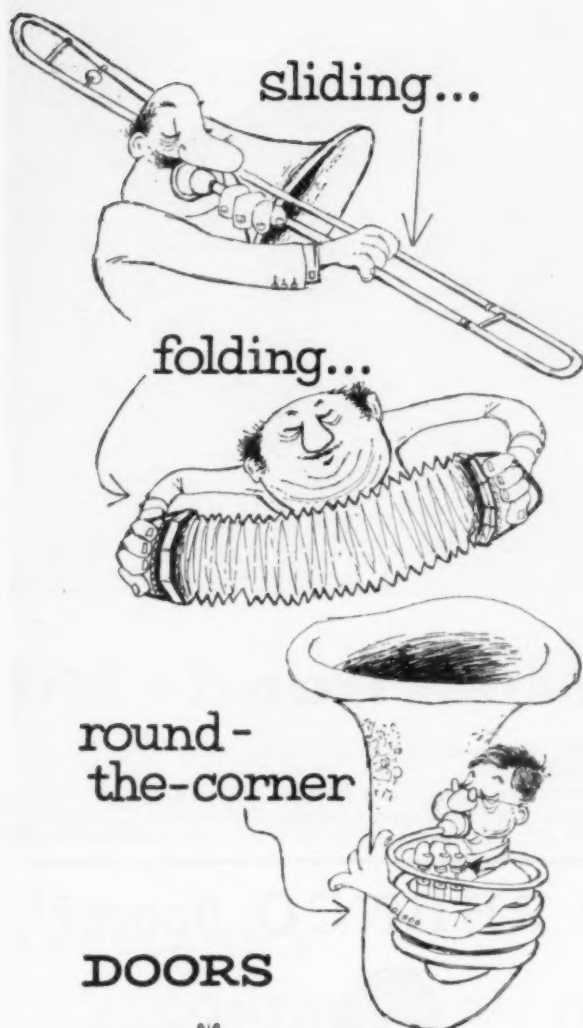
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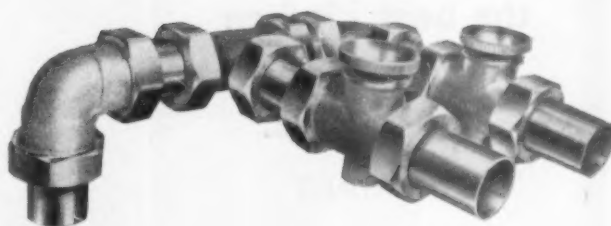


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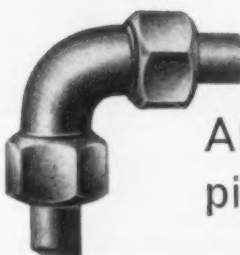
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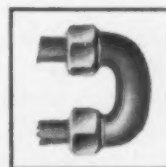
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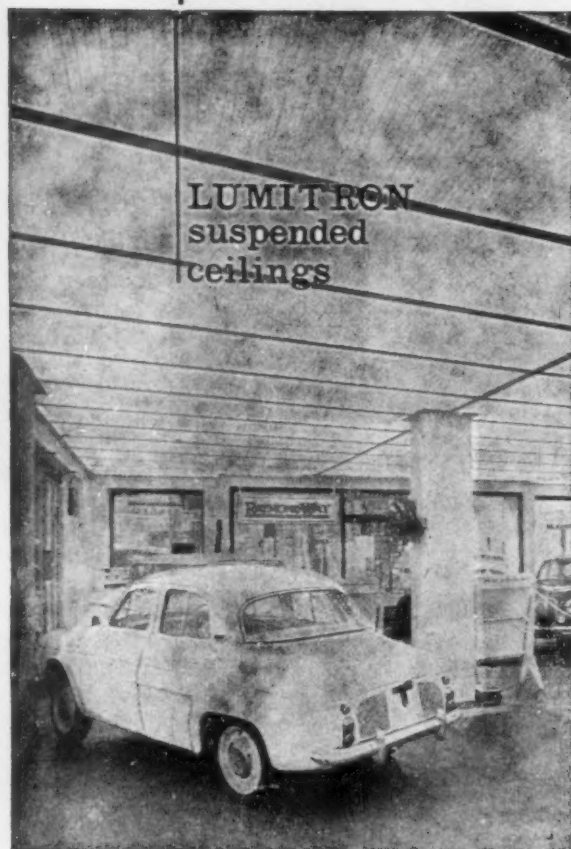
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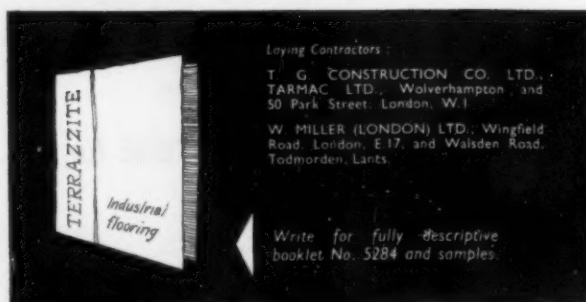
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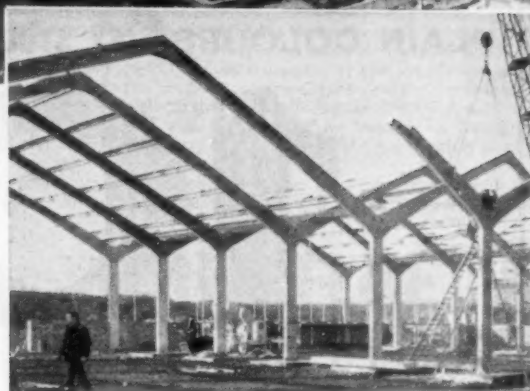
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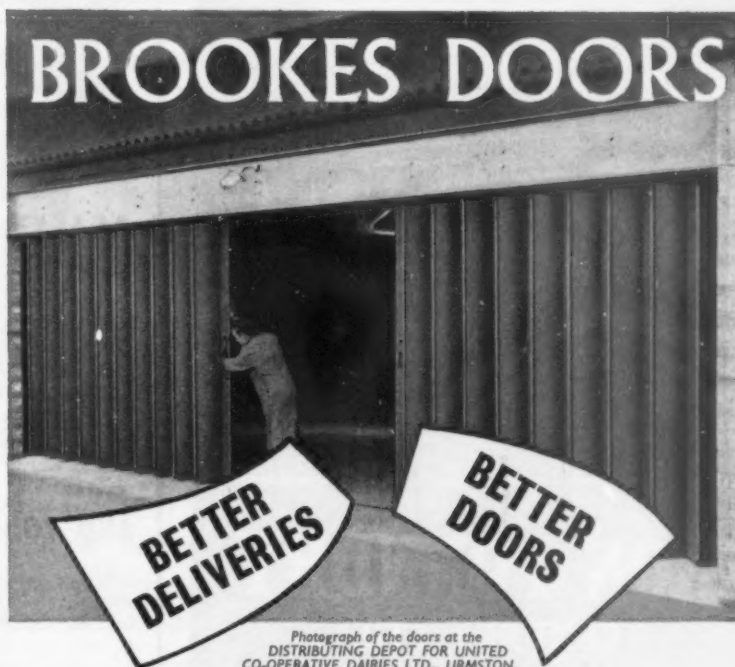
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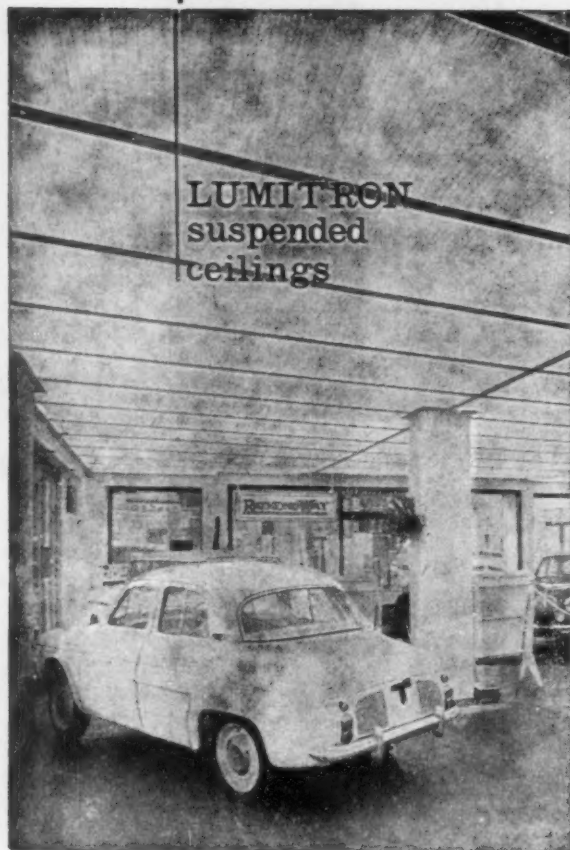
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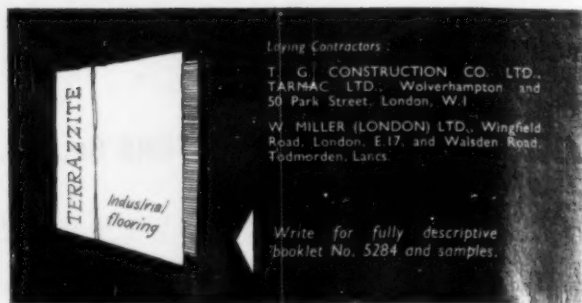
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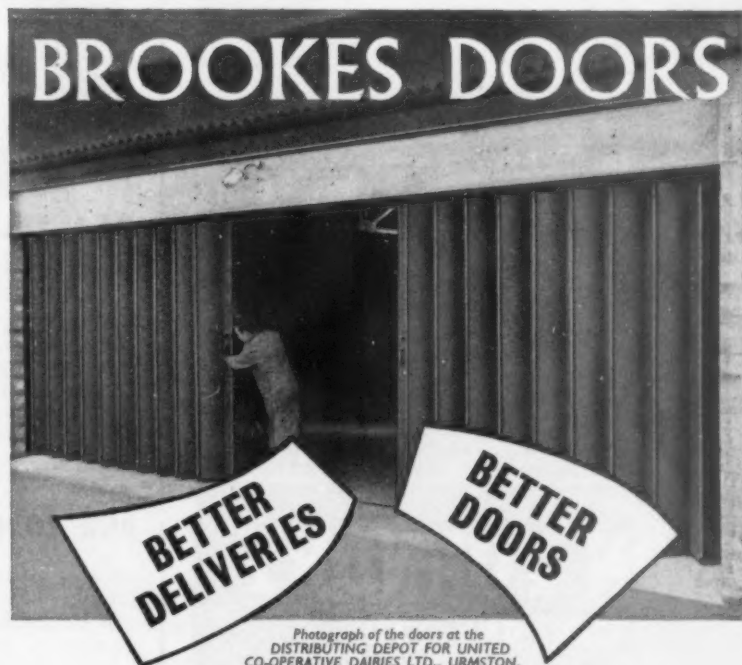
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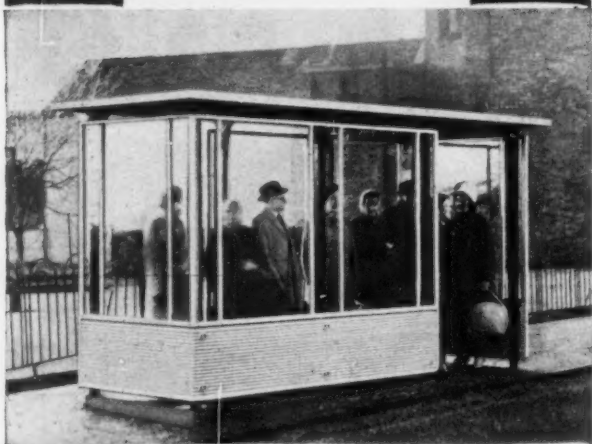
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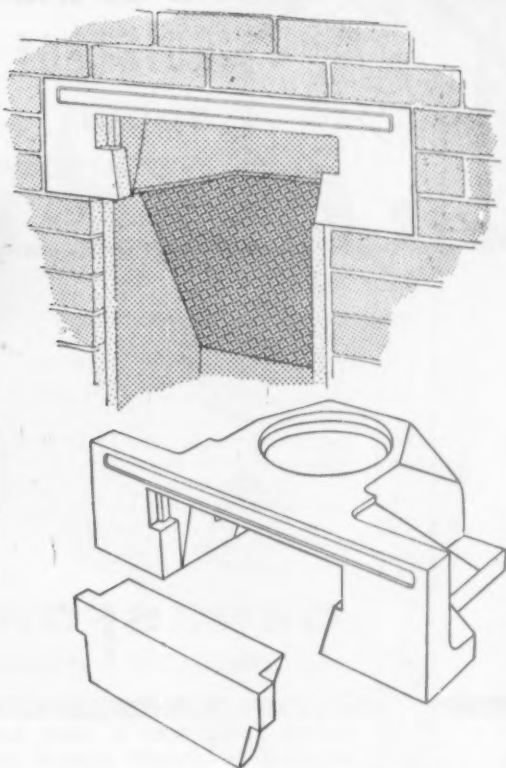
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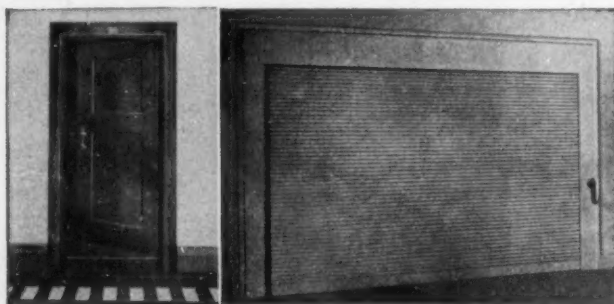
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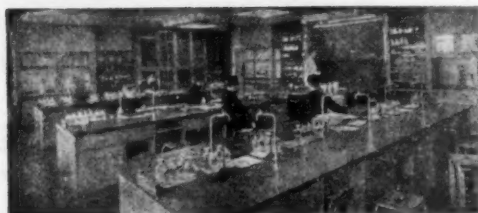
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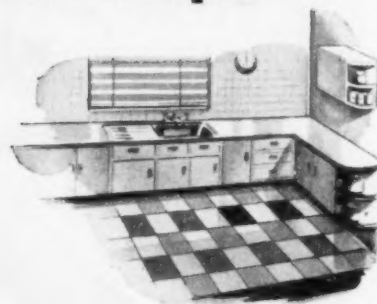
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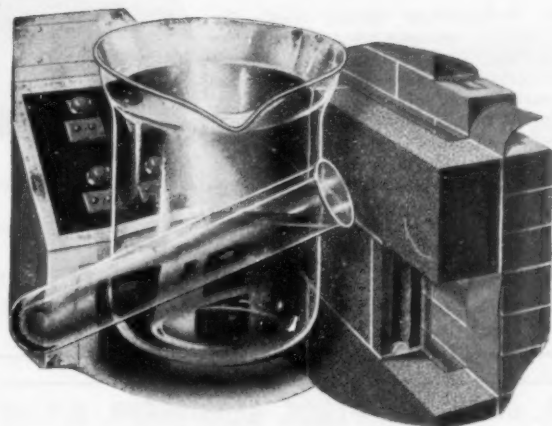
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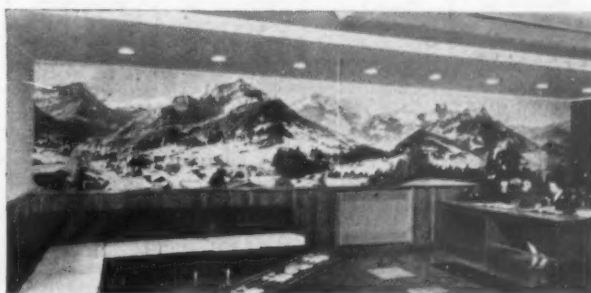
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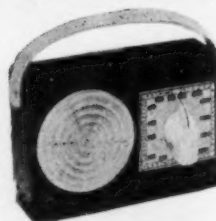
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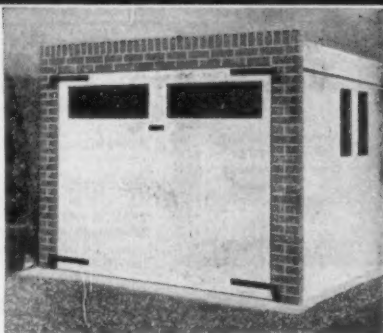
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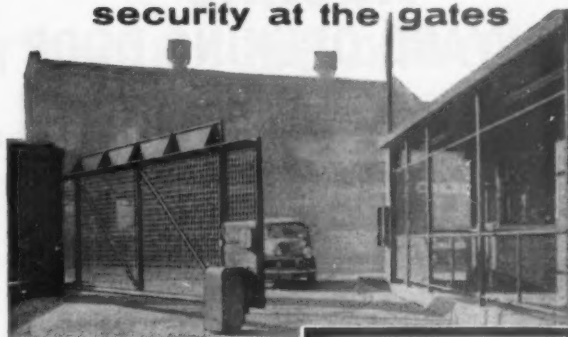


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OA/6877

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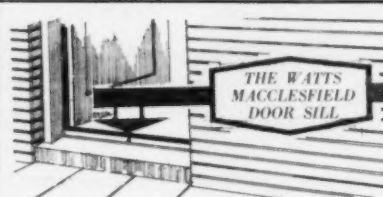
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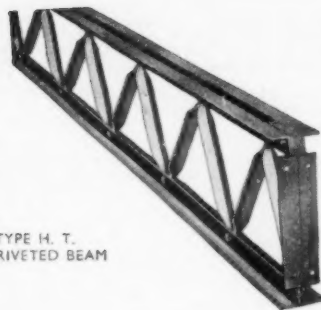
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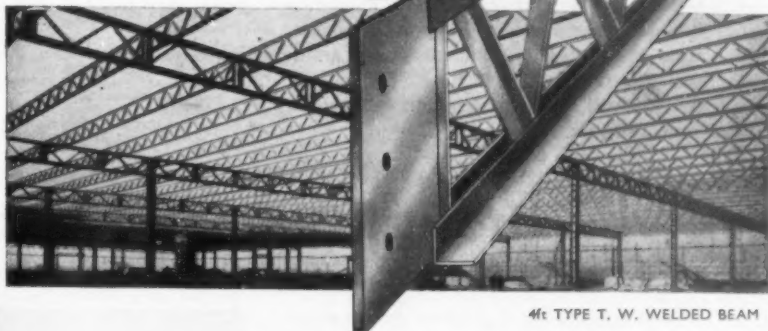
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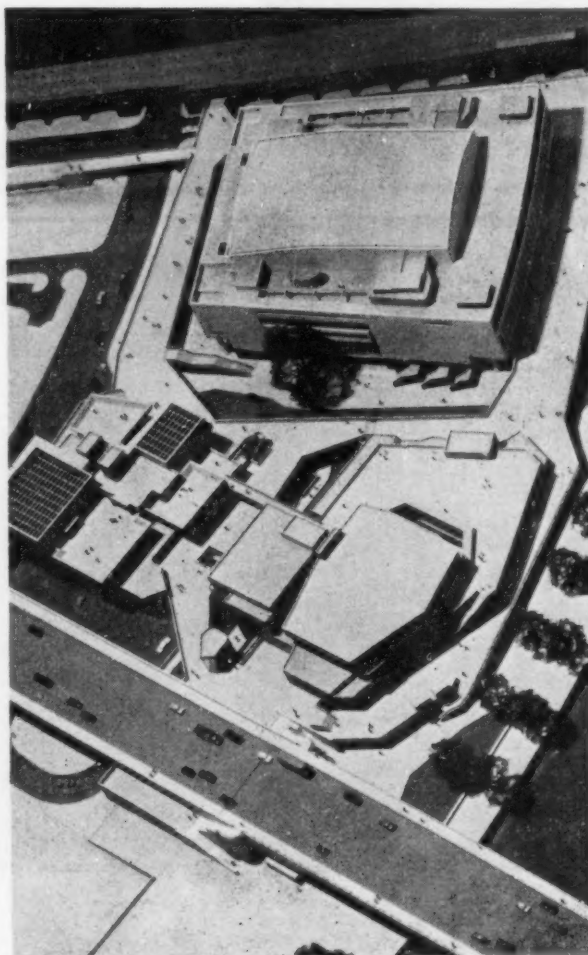
Whatever changes may result from the Royal Commission Report the enormous programme of work will have to be done and service now with the L.C.C. provides the best training ground for opportunities in the future.

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*Application forms and further particulars from Hubert Bennett, F.R.I.B.A., Architect to the London County Council, County Hall, S.E.1, quoting reference EK/846/5.*

*"... evidence that the L.C.C. is not content to rest on the Architectural laurels it has already earned, but is capable of leading in new directions when the opportunity offers."*

*Architectural correspondent, "The Times", March 24, 1961*



## CLASSIFIED ADVERTISEMENTS

Advertisements should be addressed to the Advt. Manager, "The Architects' Journal," 9, 11 and 13, Queen Anne's Gate, Westminster, S.W.1, and should reach there by first post on 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 Announcements

36s. per inch; each additional line 3s.

**HAMPSHIRE COUNTY COUNCIL**  
**ARCHITECTURAL ASSISTANTS. A.P.T. II/III (£815-£1,140)** for pensionable posts in County Architect's Department. Candidates should have passed the Intermediate Examination of the R.I.B.A. The commencing salary will be determined by qualification and experience. Separation allowance and assistance with removal expenses in approved cases. Five-day week.  
Application forms returnable by 31st March, from the Clerk of the County Council, The Castle, Winchester. 6467

**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 £1,560 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, Tron-gate, Glasgow, C.I.

A. G. JURY,  
City Architect and Director of Planning. 6318

**BOROUGH OF HEYWOOD**  
**APPOINTMENT OF ARCHITECTURAL ASSISTANT**

Applications are invited from persons who have passed the R.I.B.A. Intermediate Examination for the above-mentioned appointment in the Department of the Borough Engineer and Surveyor, at a salary in accordance with A.P.T. Grade II (£815-£960) of the Scale of Salaries.  
The appointment will be subject to the provisions of the Local Government Superannuation Acts, to the National Joint Council's Conditions of Service and to one month's notice in writing on either side.

The successful applicant will be required to pass a medical examination.  
Consideration will be given to the provision of housing accommodation.

Applications endorsed "Architectural Assistant," stating age, qualifications and experience and accompanied by copies of two recent testimonials, should reach the undersigned not later than Thursday, 20th April, 1961.  
Canvassing in any form will be a disqualification.

W. R. PARKER,  
Town Clerk  
Municipal Buildings,  
Heywood.  
21st March, 1961 6687

**CITY OF CANTERBURY**  
**SENIOR ASSISTANT ARCHITECTS**  
A.P.T. IV (£1,140-£1,510)  
Applications are invited for the above appointments in the Department of the City Architect and Planning Officer. Commencing salary according to ability and experience.

The successful candidates will be engaged on one of the following:-  
Housing  
General Works  
Public Buildings  
Education  
Housing accommodation will be made available if required.

Applications with the names of two referees, to the City Architect and Planning Officer, J. L. Berbers, F.R.I.B.A., A.M.T.P.I., by Wednesday, 19th April, 1961.

Canvassing will disqualify.  
J. BOYLE,  
Town Clerk.  
Municipal Buildings,  
Canterbury. 6750

**ASSISTANTS AND DRAUGHTSMEN** required in ARCHITECT'S OFFICE in London (Marylebone). Work primarily concerned with road transport depots and includes offices, transit buildings, vehicle workshops and ancillary facilities. Projects in various parts of country may involve some travel. Appointments will be according to age, qualifications and experience in salary ranges from £735/£790 to £1,225/£1,340. Contributory superannuation fund. Applications, giving age, qualifications and experience, to Personnel Officer, British Road Services Ltd., Melbury House, Melbury Terrace, London, N.W.1. 6652

**AYCLIFFE DEVELOPMENT CORPORATION**  
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**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. 6672

**CITY AND COUNTY OF NEWCASTLE UPON TYNE**  
**CITY ARCHITECT'S DEPARTMENT**

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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 Scotswood 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.T.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.  
20th February, 1961. 6084

**THE URBAN DISTRICT COUNCIL OF FELLING**

**SURVEYOR'S DEPARTMENT**  
**APPOINTMENT OF ASSISTANT ARCHITECT**  
Applications are invited for the appointment as Assistant Architect in the Department of the Surveyor, R. Morton, Esq., A.R.I.C.S. The salary payable will be within Grade A.P.T. IV of the National Salary Scales (£1,140-£1,310 per annum).

Applicants must have passed the Final examination of the Royal Institute of British Architects. Forms of application, together with particulars and conditions of employment, can be obtained from the undersigned, to whom they must be returned not later than the 21st April, 1961.

Housing accommodation will be provided by the Council if required or alternatively the Council will grant a 100 per cent mortgage for the purchase of an approved private dwelling-house.

Canvassing will disqualify any applicant.  
JOHN DONKIN,  
Clerk of the Council  
Council Buildings,  
Felling,  
Gateshead, 10. 6806

**LANCASHIRE COUNTY COUNCIL**  
**COUNTY ARCHITECT'S DEPARTMENT**  
**ARCHITECTURAL ASSISTANTS**  
(within the salary range £645-£960 according to experience and ability)

Applications are invited from Architectural Assistants for appointments to the permanent staff of the County Architect's Department, which is engaged on a large and varied programme of major projects.

Applicants should have attained at least Intermediate R.I.B.A. standard and, within this stage of qualification, have a reasonably varied experience.

Application forms and details of appointment obtainable from the County Architect, P.O. Box 25, County Hall, Preston, should be returned by 29th April, 1961. 6641

**VIEWESLEY AND WEST DRAYTON URBAN DISTRICT COUNCIL**  
**APPOINTMENT OF ARCHITECTURAL ASSISTANT**

Applications are invited for the permanent appointment of an Architectural Assistant in the Engineer and Surveyor's Department at a salary within A.P.T. Grade III (£960-£1,140) plus London weighting of £45 per annum. The commencing salary will be fixed according to qualifications and experience.

Applicants should have passed the Intermediate Examination of the Royal Institute of British Architects and have had experience in the architectural work of a Local Authority. The appointment will be subject to the National Scheme of Conditions of Service and to the Local Government Superannuation Acts.

The use of a car is essential to the appointment and assistance in the provision of a car will be given for which an Essential User Allowance will be paid for a vehicle not exceeding 10 h.p.

Housing accommodation will be provided, if in the opinion of the Council it is necessary. Removal expenses will be reimbursed.

Applications, giving full particulars and details of experience together with the names and addresses of two referees should be sent to the undersigned at the address given below not later than Thursday, 20th April, 1961, and must disclose whether the applicant is to his knowledge related to any member, or senior member, of the Council.

ARTHUR BOOTE,  
Clerk of the Council.  
Drayton Hall,  
West Drayton,  
Middlesex.  
29th March, 1961. 6701

**HAMBLEDON RURAL DISTRICT COUNCIL**  
**APPOINTMENT OF CHIEF ASSISTANT ARCHITECT**

Applications are invited for this appointment in the Department of the Engineer and Surveyor. Full particulars and conditions of appointment can be obtained from the undersigned. They include:-

- Salary in accordance with Grade A.P.T. IV, £1,140-£1,310 per annum. Commencing salary up to the maximum of the grade having regard to qualifications and experience.
- An Essential User Car Allowance.
- Good house available if required.
- Reimbursement of 50 per cent of approved removal expenses.
- Five-day working week.

The appointment offers good experience and interesting work in the initiation and carrying out of a new policy for all aspects of the Council's Housing Programme.

Closing date for applications 10 a.m. on Monday, the 17th April, 1961.  
Dated this 24th day of March, 1961.

C. J. WAGG,  
Clerk of the Council.  
Council Offices,  
Bury Fields,  
Guildford,  
Surrey. 6725

**LEEDS REGIONAL HOSPITAL BOARD**  
**PROPOSED NEW GENERAL HOSPITAL AT HUDDERSFIELD**  
**CLERK OF WORKS (BUILDING AND STRUCTURAL)**

Applications are invited for the appointment of Clerk of Works (Building and Structural) in connection with the construction of a new (500 bed) approximate total cost £3,500,000 General Hospital at Huddersfield. Salary £1,200 per annum.

The project is being carried out in consecutive phases under the direction of the Regional Architect, P. B. Nash, A.R.I.B.A., and Messrs. George, Trow and Dunn, Private Architects. The main building contract has now been running for one year and building on the site will continue for another three years.

The Clerk of Works will have an Assistant Clerk of Works (Building) and a Clerk of Works (Mechanical and Electrical) to assist him in his duties.

Applicants must possess a thorough knowledge of all aspects of the building trade and must have had extensive experience as Clerks of Works on multi-storey reinforced concrete framed buildings. Membership of the Institute of Clerks of Works or the possession of the Clerk of Works Diploma of the Association of Building Technicians an advantage.

Applications, stating age, qualifications, previous experience, together with the names of two Architects to whom reference may be made, to the Secretary, Park Parade, Harrogate, within ten days. 6882

**CARLTON URBAN DISTRICT COUNCIL  
APPOINTMENT OF ARCHITECTURAL  
ASSISTANT**

Applications are invited for the above appointment at a salary in accordance with Grade IV and V of the A.P.T. Division of the Scales of Salaries of the National Joint Council commencing at £1,140 per annum and rising by annual increments to £1,480 per annum, the point of entry to be determined having regard to the experience of the applicant.

Applicants must be Associates of the R.I.B.A. or Registered Architects.

The appointment will be subject to the provisions of the Local Government Superannuation Acts 1937 to 1955, the National Scheme of Conditions of Service and the satisfactory passing of a medical examination.

Applications stating age, qualifications and details of experience, together with the names of three referees should be forwarded to the undersigned by 10 a.m. on Wednesday, 26th April, 1961.

Housing accommodation will be made available if required and removal expenses will be paid by the Council.

A. E. F. WALKER,  
Clerk of the Council.

Council House,  
Burton Road,  
Carlton,  
Nr. Nottingham.  
24th March, 1961. 6751

**KENT COUNTY COUNCIL invites applications  
for the following appointments in the PLANNING  
DEPARTMENT:—**

(a) **DIVISIONAL PLANNING OFFICER**  
(Research & Survey). Grade A.P.T. IV-V  
(£1,140—£1,480).

The officer appointed to this post will be primarily concerned with the forthcoming review of the Development Plan and an extensive programme of submission of new Town Maps, and with the survey and research work arising on a county wide basis. He should be capable of applying and developing research and survey techniques and of assessing the broad implications of this work, with a clear appreciation of the statutory requirements involved. The work will embrace a wide variety of planning problems and there is ample scope for the application of ideas. Candidates should be corporate members of the Town Planning Institute.

An essential user car allowance will be payable.

(b) **ARCHITECTURAL ASSISTANT**. Grade A.P.T. IV (£1,140—£1,310) or A.P.T. III (£960—£1,140).

This appointment is principally for architectural control duties but there are opportunities for interesting work in other fields, including central area redevelopment schemes.

Candidates should be corporate members of the Royal Institute of British Architects and the scope of the appointment would be widened if in addition to this the officer holds a planning qualification.

(c) **PLANNING ASSISTANTS**. Grade A.P.T. I-II (£645—£960) or A.P.T. I (£645—£815).

These appointments are for work in connection with Development Plan or control of development.

Candidates must have a University degree or diploma or have passed a recognised intermediate professional examination related to any technical aspect of the work of a Planning Department.

Commencing salary in each case will be fixed according to qualifications and experience. Posts are superannuable. Five-day week. Applications with names of two referees to County Planning Officer, County Hall, Maidstone, by 10th May, 1961. 6788

**THE UNIVERSITY OF SOUTHAMPTON**

Applications are invited from experienced qualified Architects for the post of **ASSISTANT WORKS AND BUILDINGS OFFICER**. Salary Scale £1,050 × £50—£1,400 × £75—£1,475 plus Family Allowance of £50 per annum for each dependent child. F.S.S.U. Duties will cover a wide variety of interesting activities connected with the University's building programme, planning of services, and general architectural work of the type carried out by a staff architect in a large organisation. Experience in contemporary design, detailing, supervision of building work and administration essential. An unfurnished house might be available if required. Further particulars from the Secretary and Registrar, The University, Southampton, to whom applications (four copies), containing names of three referees, should be sent not later than 1st May, 1961. 6794

**ADMINISTRATIVE COUNTY OF LEICESTER**

(a) **CHIEF ASSISTANT ARCHITECT**, £1,310—£1,480.  
(b) **SENIOR ASSISTANT ARCHITECTS**, £1,140—£1,410.

(c) **ARCHITECTURAL ASSISTANT**, £815—£1,140 (according to qualifications).  
Candidates for (a) 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 (b), should be members of the R.I.B.A., have had office experience and be capable of taking charge of small contracts. For (c), 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 by Friday, 21st April, 1961, on form obtainable from County Architect, 123, London Road, Leicester. 6820

**BOROUGH OF WARWICK**

**ARCHITECT TO THE BOROUGH SURVEYOR**

Applications are invited for the above appointment from persons possessing as a minimum qualification the Associateship of the Royal Institute of British Architects. Salary will be within the grade A.P.T. IV (£1,140 to £1,510) with entry according to qualifications and experience. The appointment is permanent and subject to the Local Government Superannuation Acts, Scheme of Conditions of Service of the National Joint Council, one month's notice on either side and the passing of a Medical Examination. The Corporation will assist with housing accommodation, if required.

A lump sum car allowance of £120 per annum is made.

Applicants should have some years of post-graduate experience, particularly as regards Municipal housing schemes and the person appointed will be fully responsible for the architectural section of the department.

Applications, stating age, qualifications, training and experience, must be delivered to the undersigned with the names of three referees by Wednesday, 19th April, 1961.

Canvassing will disqualify and applicants should disclose relationship with any member or senior official of the Council.

C. E. BROWN, A.M.I.Mun.E.,  
Borough Engineer and Surveyor.

25, Jury Street,  
Warwick. 6795

**STAFFORDSHIRE COUNTY COUNCIL  
COUNTY PLANNING AND DEVELOPMENT  
DEPARTMENT**

Applications are invited for the following appointments in the County Planning and Development Department:—

1. **Appointment of PLANNING ASSISTANT** on either A.P.T. Grade IV (£1,140—£1,310 p.a.) or A.P.T. Grade V (£1,310—£1,480 p.a.) in the Development Plan Section at the Headquarters Office, Stafford.

The successful candidate will be in charge of a Section engaged in work on Town Maps, Comprehensive Development Area Maps, Village Plans, and preparation for the review of the County Development Plan. The Section is also responsible for work on overspill schemes. The work is interesting and varied and there is scope for a person of initiative and vigour. It should appeal to a qualified assistant who wishes to gain experience and who is able to organise and control the work of a Section.

2. **Appointment of PLANNING ASSISTANT** on either A.P.T. Grade III (£960—£1,140 p.a.) or A.P.T. Grade IV (£1,140—£1,310 p.a.) in the Central Area Planning Office at Stafford.

The successful candidate will be engaged in development plan work and development control and will have the opportunity for varied experience in the work of a Planning Department and for further professional training.

The commencing salary and grading in respect of both posts will depend on qualifications and experience.

The Council are prepared to grant lodging allowances of 35s. per week for a period of six months and second class railway travel home every two months during the initial six months to married applicants maintaining a home outside the geographical county. Consideration will also be given to the granting of financial assistance in appropriate cases towards removal expenses.

Applications, giving details of age, education, qualifications, present and previous appointments, experience, and the names of two persons to whom reference may be made, should be sent to D. W. Riley, County Planning and Development Officer, 43a, Eastgate Street, Stafford, not later than the 24th April, 1961.

Relationship to any member or senior officer of the County Council must be disclosed. Canvassing will disqualify.

T. H. EVANS,  
Clerk of the County Council. 6801

**COUNTY BOROUGH OF OLDHAM  
BOROUGH ENGINEER & SURVEYOR'S  
DEPARTMENT**

**APPOINTMENT OF SENIOR ASSISTANT  
ARCHITECT**

Applications are invited for the post of Senior Assistant Architect, Grade A.P.T. V (£1,310 to £1,480 per annum).

Applicants must be A.R.I.B.A. or hold a Diploma in Architecture of a recognised University, and preferably have wide experience in Local Authority work.

The Department can offer varied and interesting experience on programmes of redevelopment in both central and urban areas and on major building works.

The appointment is subject to the N.J.C. Conditions of Service and the Local Government Superannuation Acts. The commencing salary could be offered near the top of the Grade to candidates with suitable experience and qualifications.

Housing accommodation is available if required. The Council operate a five-day week.

Applications suitably endorsed, together with the names of two referees, should reach me not later than Monday, the 24th April, 1961.

A. L. HOBSON,  
Borough Engineer & Surveyor.  
75, Union Street,  
Oldham. 6841

**ISLE OF ELY COUNTY COUNCIL**

**COUNTY ARCHITECT'S DEPARTMENT**  
Applications are invited for the following appointments:—

(a) **SENIOR ASSISTANT ARCHITECT**, A.P.T. V. Applicants must be A.R.I.B.A. with experience. Terms of appointment include Essential User Car Allowance on the County Scale for a car not exceeding 1,199 c.c.

(b) **ASSISTANT ARCHITECTS**, A.P.T. III or A.P.T. IV according to experience. Applicants should be A.R.I.B.A. or have completed Parts I and II of the R.I.B.A. Final Examination, or have satisfactorily completed a course at a School of Architecture.

In fixing commencing salaries, ability and experience will be taken into account. All posts are subject to N.J.C. Conditions and the passing of a medical examination.

Application forms and further particulars from the County Architect, County Hall, March, Cambs., to whom they should be returned not later than 8th May, 1961.

R. F. G. THURLOW,  
Clerk of the County Council. 6849

**EAST SUSSEX COUNTY COUNCIL**

**COUNTY PLANNING OFFICE**  
Applications are invited for the following permanent appointment on the Headquarters Staff at Lewes for responsible duties in connection with the preparation and review of Development Plans:—

**PLANNING ASSISTANT** at a salary within N.J.C. Scale A.P.T. IV (£1,140 to £1,310 per annum).

Applicants should hold a recognised qualification in Town Planning or an associate discipline and should have had considerable experience in the preparation of Town Maps.

Further particulars and application forms from County Planning Officer, County Hall, Lewes, Sussex, to whom applications should be delivered not later than 1st May, 1961. 6854

**CITY OF MANCHESTER—HOUSING  
COMMITTEE**

Applications are invited from suitably qualified persons for the following appointments:—

**PRINCIPAL ASSISTANT ARCHITECTS** (2)—J.N.C. Scale "B" (£1,420—£1,670).

**SENIOR ASSISTANT ARCHITECTS** (5)—A.P.T. V (£1,310—£1,480).

**ASSISTANT ARCHITECTS** (8)—A.P.T. III/IV (£960—£1,310).

**ARCHITECTURAL ASSISTANTS** (2)—A.P.T. I/II (£645—£960).

**ARCHITECTURAL DRAUGHTSMEN** (2)—A.P.T. I (£645—£915) (must have reached Intermediate level).

**PLANKEEPER** (1)—Miscellaneous III (£555—£625).

**SENIOR ASSISTANT QUANTITY SURVEYORS** (5)—A.P.T. V (£1,310—£1,480).

**ASSISTANT QUANTITY SURVEYORS** (WORKERS-UP) (2)—A.P.T. I (£645—£915) (must have reached Intermediate level).

**TRAINER QUANTITY SURVEYORS** (4)—General Division A.P.T. II (£420—£560).

**TRAINEE QUANTITY SURVEYOR ELECTRICIAN** (1)—General Division A.P.T. II (£220—£560).

The Department has numerous projects on hand including design and construction of multi-storey blocks, and an extensive programme of overspill development which will give full scope for imaginative and progressive design and planning.

Forms of application, together with full details of the duties, terms and conditions of the appointments, may be obtained from the Director of Housing, Town Hall, Manchester, 2, and returned by 17th April, 1961.

Consideration will be given to the provision of housing accommodation for certain of the successful applicants. 6819

**COUNCIL OF THE COUNTY OF ABERDEEN  
COUNTY ARCHITECT'S DEPARTMENT**

Applications are invited from qualified Architects (A.R.I.B.A.) with experience for the following appointments in the above Department:—

(a) **ASSISTANT ARCHITECTS** (Grade I)—Salary scale £1,320 × £55 (3) to £1,485.

(b) **ASSISTANT ARCHITECTS** (Grade II)—Salary scale £1,220 × £55 (3) to £1,385.

The Department is at present engaged on an extensive and varied programme of architectural work comprising Housing, Schools, Police and other buildings.

The appointments are superannuable. Application forms and Conditions of Appointment may be obtained from the undersigned. Closing date for applications 20th April, 1961.

JAMES L. CRAIG,  
County Clerk.  
County Buildings,  
22, Union Terrace,  
Aberdeen. 6815

**MANCHESTER CORPORATION TRANSPORT  
DEPARTMENT**

require  
Qualified **ENGINEERING ASSISTANT** for Building and Civil Engineering Construction and Maintenance. Salary £1,140/£1,310. Point of entry according to qualification and experience.

Applications and details obtainable from General Manager, Manchester Corporation Transport Department, 55, Piccadilly, Manchester, 1, returnable not later than Friday, 28th April, 1961. 6867





The British Broadcasting Corporation requires

## ARCHITECTURAL ASSISTANTS

*for a variety of work*

*Salary range*

**£905 - £1555 p.a.**

*dependent upon ability*

- \* Generous Increments
- \* Pension Scheme
- \* 3-4 Weeks Annual Leave
- \* West End Drawing Office
- \* Social & Luncheon Clubs
- \* Interview Expenses Refunded

Apply to Engineering Recruitment Officer, Broadcasting House, Portland Place, London, W.1, for application form, quoting ref. 61.E.84. A.J.



**BIRDS EYE FOODS LIMITED**

## ARCHITECTURAL ASSISTANTS

required to help carry out full architectural services for industrial buildings, and in particular, process areas, canteens, and office accommodation, necessary for the further development of this rapidly expanding Company. Applicants, qualified by examination and/or experience, should show themselves capable of handling building projects from sketch design to completion, and will be offered the opportunity of undertaking responsibility reporting directly to the Company Architect.

A four-figure salary will be offered together with a full range of employee benefits, including Superannuation Scheme. Full details of age, qualifications and experience should be sent to:

Personnel Officer,  
BIRDS EYE FOODS LIMITED,  
HESKETH HOUSE, PORTMAN SQUARE,  
LONDON, W.1.

**CITY OF LEICESTER**

## CITY ARCHITECT'S DEPARTMENT

### Architects

Scale D	£1,710-£1,975
Scale A	£1,340-£1,565
APT IV/V	£1,140-£1,480
APT III/IV	£960-£1,310

### \* Quantity Surveyors (R.I.C.S.)

Scale A	£1,340-£1,565
Scale APT IV/V	£1,140-£1,480

\* The main duties of this post are cost planning investigations and research.

HOUSING ACCOMMODATION could be provided for married officers in appropriate cases. A five-day week is in operation. Modern office accommodation.

is being expanded to deal with an increased building programme and to carry out research into building methods and costs. The current building programme includes—SCHOOLS, COLLEGES OF FURTHER EDUCATION, CENTRAL SWIMMING BATHS, HOSTELS, COMMUNITY CENTRES, YOUTH CENTRES, SPECIALIST CENTRES FOR HANDICAPPED PERSONS, HOUSING AND CENTRAL AREA RE-DEVELOPMENT SCHEMES including MARKETS, BUS STATIONS, etc. Leicester, as a member of the Consortium of Local Authorities (CLASP), is engaged on research and development work on buildings of advance design. The office is organised on a group basis to encourage team-work with a large measure of autonomy.

Applications from qualified persons by April 26th stating post applied for, grade and salary required with names of two referees to:

**J. H. LLOYD OWEN, B.Arch., F.R.I.B.A., CITY ARCHITECT · CITY ARCHITECT'S OFFICE · 10 LOSEBY LANE · LEICESTER**

## CITY OF LIVERPOOL

### PROFESSIONAL STAFF

Applications are invited from **ARCHITECTS, ENGINEERS, SURVEYORS and PLANNERS** for work covering all aspects of municipal enterprise.

Vacancies exist in the undermentioned Departments where the appointments are required to augment the present staff on interesting and responsible work, dealing with the City's rapidly expanding programme of redevelopment and reconstruction.

These appointments are on the permanent staff and are for fully qualified officers at salaries in accordance with the following scales, commencing salary to be fixed according to the experience which can be offered.

**ARCHITECTURAL AND HOUSING DEPARTMENT**, for work in connection with new housing (including multi-storey blocks), the provision of new roads, schools and other public buildings.

1. Architects £1,425-£1,670 p.a. (Scale B)
2. " £1,140-£1,565 p.a. (APT. IV/Scale A)
3. " £1,140-£1,480 p.a. (APT. IV/IV)
4. Surveyors £1,140-£1,310 p.a. (APT. IV)
5. Quantity Surveyors £1,140-£1,310 p.a. (APT. IV)

**CITY ENGINEER AND SURVEYOR'S DEPARTMENT** where large scale engineering projects, road improvements and sewerage and sewage disposal schemes are being undertaken and where there is a busy and important Town Planning Office.

6. Civil Engineers £1,310-£1,565 p.a. (APT. V/Scale A)
7. Civil Engineers £1,140-£1,310 p.a. (APT. IV)
8. Town Planners £1,140-£1,310 p.a. (APT. IV)

In addition to the above, there are vacancies for trainees and partly qualified officers in all the professions mentioned, which offer good training facilities and excellent prospects. Salary according to qualification.

If you are interested in these appointments, write to the City Architect and Director of Housing, Blackburn Chambers, Dale Street, Liverpool 2, or the City Engineer and Surveyor, Municipal Buildings, Dale Street, Liverpool 2, as soon as possible, quoting the reference number of the appointment in which you are interested, when an application form and further particulars will be sent to you.

THOMAS ALKER,  
Town Clerk.

## THE ARCHITECTS DEPARTMENT OF TOKEN CONSTRUCTION COMPANY LIMITED

requires

### ARCHITECTURAL ASSISTANTS

for work on MAJOR DEVELOPMENT PROJECTS throughout British Isles.

*Applicants should be of Intermediate Standard or have equivalent experience and should be quick neat draughtsmen with a knowledge of modern constructional methods and materials.*

Salary range £750 to £950. Luncheon facilities. Superannuation Scheme.

Write to the

CHIEF ARCHITECT,  
TOKEN CONSTRUCTION CO. LTD.,  
37 Park Street, W.1.

Telephone MAY 9255.

## South African Architect,

B. Arch (Dist), A.R.I.B.A. M.I.A.,

aged 36, wife, two children, 8 years' experience as head of successful and expanding private practice, with the highest academic qualifications, seeks a future outside the Union.

Wishes to find a position either in a public authority or private practice preferably in Africa, but alternatively in the U.K., Australia or Canada, which offers scope for a satisfying and reasonably permanent future.

Further details with names of referees both in South Africa and England will be furnished on request.

Reply to the Advertiser, Box 6869, c/o Advertising Manager, ARCHITECT'S JOURNAL.

## FIND OUT ABOUT



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**ROYAL BURGH OF INVERNESS  
BURGH ARCHITECTS AND TOWN  
PLANNING DEPARTMENT  
APPOINTMENT OF CHIEF ASSISTANT  
ARCHITECT**

Applications are invited for the above appointment. Salary Scale Admin. Div. Grade "B," £975-£1,055, 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 supernumerary. Medical examination.

Applications, together with the names of two referees, to be lodged with the Burgh Architect, 11, High Street, Inverness, within ten days of the publication of this advertisement.

J. CAMERON,  
Town Clerk.

Town House,  
Inverness.  
28th March 1961. 6812

**MINISTRY OF HEALTH—HOSPITALS  
RESEARCH & DEVELOPMENT UNIT**

Registered ARCHITECTS are invited to apply for a Basic Grade unestablished post in London. Applicants should have good general architectural experience and be keen to join building teams engaged on development projects.

Salary: £991-£1,490. Commencing salary dependent on age, qualifications and experience. Five-day week.

Applications (two copies), stating nationality, date of birth, qualifications, experience, present appointment and three referees, to the Director of Establishments and Organisation, Ministry of Health, Savile Row, London, W.1, by 26th April, 1961. 6816

**SOMERSET COUNTY COUNCIL  
COUNTY PLANNING DEPARTMENT  
ESTABLISHMENT OF CENTRAL AREA  
REDEVELOPMENT AND DESIGN SECTION**

Applications are invited from suitably qualified candidates to fill the following posts in the above at Headquarters:—

(a) SECTION HEAD. £1,425-£1,670.  
(b) ASSISTANT SECTION HEAD. £1,140-£1,310.

(c) SENIOR PLANNING ASSISTANT. £960-£1,310.

(d) DRAFTSMEN. £450-£925.

Applications are also invited for the following vacancies:—

(e) ASSISTANT SECTION HEAD, Development Control. £1,140-£1,310.

(f) JUNIOR ASSISTANT. £645-£815.

(g) FORESTRY / LANDSCAPE ASSISTANT. £815-£960.

At Headquarters:—

(h) PLANNING ASSISTANT. £815-£960, Area Office, Weston-super-Mare.

(i) JUNIOR PLANNING ASSISTANT. £645-£815, Area Office, Yeovil.

(j) JUNIOR PLANNING ASSISTANT. £645-£815, Area Office, Taunton.

Applicants for (a) must be chartered architects and preference will be given to those additionally qualified as chartered Town Planners. Good experience in preparation of redevelopment schemes, comprehensive development areas maps and town maps is essential.

(b) and (c) should be chartered Town Planners or hold similar qualification preferably with experience in Town Map and Redevelopment Schemes.

(d) should be experienced architectural draughtsmen.

(e) should be chartered Town Planner or hold similar qualification and have had extensive experience in development control, preferably in areas of high amenity, and evidence at local inquiries.

(f) should have development control experience including land searches, planning registers and draughtsmanship.

(g) must hold a qualification in and have experience of Forestry or Landscape Design.

(h) should have planning experience and have passed Intermediate examination of the Town Planning Institute or similar body.

(i) and (j) should have been trained in the office of a planning authority, surveyor, architect or engineer and be good draughtsmen.

All posts are permanent and starting salaries will be according to qualifications and experience. Application forms, obtainable from the undersigned, should be returned by 24th April, 1961.

Please state for which post forms are needed.

R. W. DALE,  
County Planning Officer.

41, Upper High Street,  
Taunton. 6810

**COUNTY BOROUGH OF BURNLEY**

Applications are invited for the appointment of ASSISTANT ARCHITECT in the Borough Engineer & Surveyor's Department at a salary in accordance with A.P.T. Grade III/IV (£960-£1,310 per annum), commencing salary to be fixed in accordance with qualification and experience.

Five-day week. Housing accommodation will be provided if required.

Form of application, etc., may be obtained from the Borough Engineer, 22/24, Nicholas Street, Burnley, to whom applications must be returned not later than Friday, 28th April, 1961.

C. V. THORNLEY,  
Town Clerk.

**WARWICKSHIRE COUNTY COUNCIL  
COUNTY PLANNING DEPARTMENT**

Applications are invited for THREE posts on GRADE A.P.T. IV.

Applicants must have experience of development plan work and will be engaged on the Plan review. They should be qualified professionally and will be stationed at Warwick where all planning work is undertaken.

The commencing salary in each case will be according to experience and qualifications. The posts are subject to the provisions of the Local Government Superannuation Act and to a medical examination. Financial assistance will be given towards removal expenses.

Applications, together with the names and addresses of two referees, should be sent to J. J. Brooks, County Planning Officer, Northgate, Warwick, not later than Saturday, 29th April, 1961.

L. EDGAR STEPHENS,  
Clerk of the Council.

Shire Hall,  
Warwick. 6884

**CITY OF WORCESTER  
APPOINTMENT OF ARCHITECTURAL  
STAFF**

Applications are invited to fill new appointments in the Architectural Section of the City Engineer & Surveyor's Department within the grades shown.

SENIOR ASSISTANT ARCHITECT—A.P.T. Grade IV (Salary £1,140-£1,310). Applicants must hold the A.R.I.B.A. qualification.

TWO ARCHITECTURAL ASSISTANTS—A.P.T. Grade I/II (Salary £645-£960).

The appointments are supernumerary 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 & Surveyor, 22, Bridge Street, Worcester, by 26th April, 1961.

BERTRAM WEBSTER,  
Town Clerk.

Guildhall,  
Worcester. 6880

**URBAN DISTRICT COUNCIL OF CORBY  
ARCHITECTURAL AND ENGINEERING  
ASSISTANTS**

Applications are invited for the undermentioned appointments in the Department of the Engineer and Surveyor:—

(i) SENIOR ENGINEERING AND SURVEYING ASSISTANT.

Applicants must be qualified Civil or Municipal Engineers of considerable experience in Municipal works generally, including design, supervision of works and contract administration.

Salary in accordance with Grade A.P.T. IV (£1,140-£1,310 per annum).

(ii) SENIOR ARCHITECTURAL ASSISTANT.

Applicants must be qualified Architects of not less than five years' experience (including the period of theoretical training).

Salary within Grade A.P.T. III/IV (£960-£1,140-£1,310 per annum) according to experience.

(iii) JUNIOR ARCHITECTURAL ASSISTANT.

Salary Grade A.P.T. I (£645-£815) or A.P.T. II (£815-£960 per annum) according to qualifications and experience.

Corby is a rapidly expanding town and the Council's building programme is substantial and varied, with opportunities for good experience.

The provisions of the Local Government Superannuation Acts, 1937/53, will apply to these appointments.

Housing accommodation will be made available to the successful candidates, if married.

Forms of application may be obtained from the undersigned, to whom they should be returned not later than the first post on Monday, 24th April, 1961. Testimonials will be required only from applicants selected for interview.

G. B. BLACKALL,  
Clerk of the Council.

Council Offices,  
Corby.

Northants.  
4th April, 1961. 6827

**HUNTINGDONSHIRE  
COUNTY ARCHITECT'S DEPARTMENT**

Applications are invited for the following appointments:—

(a) SENIOR QUANTITY SURVEYING ASSISTANTS, Grade A.P.T. IV (£1,140-£1,310). Applicants for these posts which are additional to the existing staff should be Chartered Quantity Surveyors. Candidates must be experienced in the preparation of bills of quantities, valuation of works in progress and settlement of final accounts.

(b) ARCHITECTURAL ASSISTANT, Grade A.P.T. IV (£1,140-£1,310). Applicants must hold the A.R.I.B.A. qualification.

(c) ARCHITECTURAL ASSISTANT, Grade A.P.T. II (£815-£960).

Application forms may be obtained from S. M. Holloway, A.R.I.B.A., County Architect, County Buildings, Huntingdon, and completed forms should be returned to the undersigned by Monday, 1st May, 1961.

A. C. AYLWARD,  
Clerk of the County Council.

County Buildings,  
Huntingdon. 6885

**HOSPITAL BUILDING PROGRAMME  
APPOINTMENT OF ARCHITECTS  
NORTH EAST METROPOLITAN REGIONAL HOSPITAL  
BOARD**

40, EASTBOURNE TERRACE  
LONDON, W.2  
W. G. PLANT, DIP. ARCH. (L'POOL), F.R.I.B.A.,  
Regional Architect

ARCHITECTS are urgently required for the Board's expanding Architectural Department in LONDON.

A considerable programme of building is now getting under way offering scope for research, imaginative design and progressive thinking, and excellent opportunities for young architects, including those just qualified, for gaining experience in a wide field ranging from specialised hospital structures to Nurses' Teaching Schools, Domestic Residential Buildings, Recreational Centres, Workshops, Nurses' Homes, etc.

Architects will either be allocated jobs of their own and be responsible under limited supervision for work involving all stages from sketch plans and office administration to site supervision, or will work, as members of teams, on the larger projects and share in the work of research design and detailed drawings.

The Region, which comprises the City of London and parts of the Administrative County of London, parts of Middlesex, and Hertfordshire, and the County of Essex, serves a population of over 3,000,000 and is responsible for over 130 hospitals.

Applicants should have passed the Final R.I.B.A. examination, and registered architects would be appointed on the basic professional (assistant) scale £945 x £35 (1) x £45 (6) x £50 (2) - £1,360 inclusive, the commencing salary depending on age and experience; the salary for architects awaiting registration is £905.

Mileage allowance paid for use of private car when visiting sites. Promotion prospects are good and the maximum of the senior grade is £1,650 p.a.

PREVIOUS HOSPITAL EXPERIENCE IS NOT ESSENTIAL.

Leave 20 days rising to 23 days p.a. Five-day week. Posts are permanent and participate in superannuation benefits.

Applications, giving age, details of education, professional training, qualifications, experience and past and present appointments, present salary and other relevant details, together with the names and addresses of two referees, should be sent to The Secretary, North East Metropolitan Regional Hospital Board, 40, Eastbourne Terrace, London, W.2, within 14 days. 6832

**NORTH EAST METROPOLITAN REGIONAL  
HOSPITAL BOARD**

40, EASTBOURNE TERRACE, W.2  
W. G. PLANT, DIP. ARCH. (L'POOL), F.R.I.B.A.,  
Regional Architect

**HOSPITAL BUILDING PROGRAMME  
APPOINTMENT OF QUANTITY SURVEYORS**

The Board is substantially increasing its staff to deal with rapidly increasing Hospital Building Programmes, and Quantity Surveyors are invited to apply for the under-mentioned posts, which offer exceptional opportunities of gaining experience in a wide, varied and interesting field.

Posts are pensionable, with good prospects of promotion. Five-day week.

ASSISTANT QUANTITY SURVEYORS  
Salary according to age and experience within scale £945-£1,360. Applicants should be Corporate Members of the Royal Institution of Chartered Surveyors (Sub. Div. III Quantities) (or in certain circumstances Associates of the Institute of Quantity Surveyors).

Leave 20 days p.a. rising to 23 days.

SURVEYING ASSISTANTS  
Salary according to age and experience within scale £645-£940. Applicants must have passed the Intermediate examination of the Royal Institution of Chartered Surveyors.

Leave 15 days rising to 20 days.

Applications, giving age, details of education, professional training, qualifications, experience and past and present appointments, present salary and other relevant details, together with the names and addresses of two referees, should be sent to The Secretary, North East Metropolitan Regional Hospital Board, 40, Eastbourne Terrace, London, W.2, within 14 days. 6831

**BOROUGH OF COLCHESTER  
BOROUGH ARCHITECT'S DEPARTMENT**

Applications are invited for the appointment of ASSISTANT ARCHITECT on A.P.T. IV, £1,140-£1,310 per annum. Applicants must be Associate Members of the Royal Institute of British Architects.

Work is of varied interest comprising Housing, Municipal Offices, and other new building projects and the maintenance of a wide range of Corporate properties.

The successful candidate will be required to pass a medical examination. Five-day week in operation. The Council will be prepared to assist in the provision of housing accommodation, if required, and to contribute towards removal expenses.

Applications, stating age, qualifications, experience, together with the names of two referees, should be submitted to the Borough Architect, Vinton Hall, A.R.I.B.A., A.M.T.P.I., 64, West Stockwell Street, Colchester, by Wednesday, 26th April, 1961.

N. CATCHPOLE,  
Town Clerk.

Town Hall,  
Colchester.  
April, 1961. 6923



**BOROUGH OF HENDON**  
BOROUGH ENGINEER AND SURVEYOR'S  
DEPARTMENT  
**SENIOR ASSISTANT ARCHITECT—GRADE**  
**A.P.T. V**

Applications are invited for the above appointment in the Architectural Section at a commencing salary according to experience within Grade A.P.T. V (£1,310 to £1,480, plus London weighting of £45).

Applicants must be Associate Members of the Royal Institute of British Architects. The person appointed will be directly responsible to the Chief Assistant Architect, with opportunity for suitable applicants to act as Group Leaders. Previous experience in school work, housing and redevelopment, or civic buildings, will be an advantage.

Pensionable post, subject to National Scheme and medical examination. The Council is prepared to consider assistance with housing in circumstances approved by them.

Applications with full details and names and addresses of two referees, must reach the Borough Engineer and Surveyor, Town Hall, Hendon, N.W.4, by Monday, 24th April, 1961. Canvassing will disqualify.

R. H. WILLIAMS,  
Town Clerk.

Town Hall,  
Hendon, N.W.4 6825

**COUNTY BOROUGH OF EAST HAM**  
**HOUSING DEPARTMENT**  
**Appointment of ARCHITECTURAL ASSISTANT**  
Applications are invited. Salary Grade APT II (£815 × £30(4) × £25(1) = £960 plus London Weighting.

Applicants should be experienced in the preparation of working drawings, details for construction of new dwellings and conversion of existing properties.

Further details and application form (returnable by 3rd May, 1961), from the Town Clerk, Town Hall, East Ham, E.6. 6933

**CHERTSEY URBAN DISTRICT COUNCIL**  
Applications are invited for appointment:—  
(a) ARCHITECTURAL ASSISTANT—Grade A.P.T. III (£960—£1,140).  
(b) ARCHITECTURAL ASSISTANT—Grade A.P.T. I (£645—£815).

Interesting work available on multi-storey housing, libraries and community centres. Assistance with housing and removal expenses.

Applications, giving age, qualifications and experience, to N. C. Goldsmith, M.B.E., M.I.Mun.E., F.R.S.A., Engineer & Surveyor, "The Orchard," Staines Lane, Chertsey, Surrey, before 18th April, 1961. 6921

**BERKSHIRE COUNTY COUNCIL**  
Applications invited for the following appointments:—

1. SENIOR ASSISTANT PLANNING OFFICER (Architectural). Salary on A.P.T. Grade V (£1,310—£1,480 p.a.). Applicants must have passed the Final examination of the Royal Institute of British Architects and of the Town Planning Institute or equivalent and be experienced in all duties connected with architectural control of development and schemes for urban renewal.

2. SENIOR ASSISTANT PLANNING OFFICER. Salary on A.P.T. Grade V (£1,310—£1,480 p.a.). Applicants must have passed the Final examination of the Town Planning Institute or equivalent. Duties of post are concerned initially with preparation and review of the County Development Plan but applicants should be experienced in both Development Control and Development Plan work.

3. PLANNING ASSISTANT as follows:—  
Applicants with Intermediate examination of Town Planning Institute—A.P.T. Grade I (£645—£815 p.a.) or A.P.T. Grade II (£815—£960 p.a.) according to experience.

University graduates (first appointment)—A.P.T. Grade I.

Applicants with five or more G.C.E. "O" level passes (including English Language and Mathematics)—General Division, commencing at between £290 and £390 (according to age and qualifications) to £630, with progression on passing the Intermediate examination of the Town Planning Institute to A.P.T. Grade I or A.P.T. Grade II according to ability.

Duties primarily in connection with Development Control. Previous experience in a planning office would be considered an advantage.

Application forms from County Planning Officer, 7, Abbot's Walk, Reading. Closing date: 25th April, 1961. 6866

**CITY OF STOKE-ON-TRENT**  
**CITY ARCHITECT'S DEPARTMENT**  
ARCHITECTURAL ASSISTANTS are invited to apply for appointments on Grade A.P.T. II (£815—£960) and Grade A.P.T. I (£645—£815).

Commencing salary in accordance with qualifications and experience.

Applicants of R.I.B.A. Intermediate standard should forward details of training and experience, etc., to J. R. Piggott, T.D., F.R.I.B.A., City Architect, Kingsway, Stoke-on-Trent, by Monday, 24th April, 1961.

HARRY TAYLOR,  
Town Clerk. 6821

**BOROUGH OF WEMBLEY**  
ASSISTANT ARCHITECTS and ARCHITECTURAL ASSISTANTS are invited to apply for appointments on commencing salaries according to experience and qualifications within Grades A.P.T. I to IV (£645 to £1,310 per annum) plus London "weighting" of £15 to £45 per annum according to age and grade to work on a varied programme of public buildings, housing and parks projects. Scale A.P.T. IV—£1,310 is applicable to Associates of the R.I.B.A. or Registered Architects.

The successful applicants will be employed at the Town Hall where excellent transport facilities are available and a five-day week is in operation. Previous local government experience is not essential. The Council is unable to offer housing accommodation.

Application forms, to be returned by 24th April, 1961, are obtainable on request to the Borough Engineer and Surveyor, Town Hall, Wembley, or by telephoning ARNold 1212, Ext. 67. 6858

**METROPOLITAN BOROUGH OF BERMONDSEY**

Applications are invited from persons under 51 years of age for following temporary appointments.

SENIOR ASSISTANT ARCHITECT, required for about two years to design a Public Baths and later to lead a small group in the preparation of working drawings and specifications. Applicants must be qualified by examination as Associates of the R.I.B.A. Salary up to £1,565 per annum according to qualifications and experience.

ASSISTANT IN ARCHITECTS' SECTION. Applicants must have passed Intermediate examination of R.I.B.A. or R.I.C.S. and have experience in surveying old housing properties and preparing conversion and improvement schemes. Salary at a point in A.P.T. III or IV (£960—£1,310) plus London weighting, according to experience.

Applications for both appointments should be addressed to Borough Engineer and Surveyor, Municipal Offices, Spa Road, S.E.16. 6824

**HERTFORDSHIRE COUNTY COUNCIL**  
**STEVENAGE BY-PASS**

Applications are invited for the appointment of QUANTITY SURVEYOR at the salary of £1,385 per annum. This is a temporary appointment on works for a period of about 12 months. Candidates should hold appropriate qualifications. Applications (no forms supplied), stating age, qualifications, present salary, details of experience and names of two referees, to be sent at once to the County Surveyor, County Hall, Hertford. 6823

## Architect's Junior Assistants



PLAN YOUR CAREER  
WITH THE

**WESTMINSTER**  
BANK

COMMENCING  
SALARY  
**£550 to £850**  
WITH  
GOOD PROSPECTS

- Modern London Drawing Office
- Favourable House Mortgage Rates
- Luncheon Club
- Sports Club & other Social Activities
- Pensions Scheme
- Fare for Interview refunded

Write, stating age, experience and salary required to:

**THE ARCHITECT, WESTMINSTER BANK LTD.**  
Post Office Court, 10 Lombard Street, E.C.3

## Architects Architectural assistants

We have vacancies in the Architects' Department in LONDON and 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.**

**CAMBRIDGESHIRE COUNTY COUNCIL**  
COUNTY PLANNING DEPARTMENT  
Applications are invited for the appointment of **SENIOR PLANNING ASSISTANT, A.P.T. V** (£1,310-£1,480 p.a.). Candidates should be A.R.I.B.A. and should have passed the Intermediate or Final examinations of the Town Planning Institute. Experience in the control of development and in the layout and design of housing and redevelopment areas will be an advantage. Applicants must be able to drive a car.  
Applications, stating age, past and present appointments, qualifications, experience and present salary, together with the names of two referees, should be sent to the County Planning Officer, Shire Hall, Castle Hill, Cambridge, not later than 30th April, 1961.  
County Planning Department.  
Shire Hall,  
Castle Hill,  
Cambridge.  
4th April, 1961. 6836

**BEDFORDSHIRE COUNTY COUNCIL**  
Applications are invited for the following appointments:  
**SENIOR ARCHITECTS, A.P.T. Grades IV/V** (£1,140-£1,480). Applicants must be Associates of the R.I.B.A.  
**ARCHITECTS, A.P.T. Grades III/IV** (£960-£1,310). Applications are invited from students who are now completing a Diploma Course in Architecture, and the date for commencement of duties will be agreed to suit the applicants.  
The County Council has a varied and interesting programme of all types of public building, and in particular groups are about to be formed for the design of a new County Hall estimated to cost £850,000, and a new Teachers Training College estimated to cost £500,000.  
The commencing salary may be within the grades according to experience and qualifications.  
Housing accommodation may be available in certain circumstances.  
Application forms, obtainable from the County Architect, Shire Hall, Bedford, to be returned by 24th April, 1961. 6840

**CITY OF WAKEFIELD**  
CITY ENGINEER'S DEPARTMENT  
APPOINTMENT OF ASSISTANT QUANTITY SURVEYOR  
**GRADE A.P.T. III** (£960-£1,140)  
Applications are invited for the above superannuable appointment.  
Candidates should be members by examination of the R.I.C.S. or I.Q.S. and preference will be given to those having experience in Local Authority housing, school and other municipal projects.  
The provision of housing accommodation will be considered and a five-day week is in operation.  
Applications, stating age, qualifications and experience, together with the names of two referees, to be sent to the City Engineer, Town Hall, Wakefield, by the 28th April, 1961. 6842

**COVENTRY**  
Applications are invited for the following architectural posts:  
**CENTRAL AREA**  
(a) **SCALE "B"** (£1,470-£1,670).  
(b) **A.P.T. V** (£1,310-£1,480).  
(c) **A.P.T. I, II or III** (£645-£1,140).  
Central redevelopment works include multi-storey shops, flats, offices, car parks and central baths. The person appointed to post (a) must have outstanding design ability.  
**EDUCATION**  
**A.P.T. V** (£1,310-£1,480).  
To be a member of group working on an interesting variety of school building projects.  
Housing accommodation in approved circumstances or 95 per cent. advance for house purchase. Removal expenses loan. Five-day working week.  
Application forms from Department of Architecture and Planning, Council House, Earl Street, returnable 10 days publication. 6844

**AIR MINISTRY** require **SENIOR WORKERS** UP in Quantities Division in London. Must be fully experienced and competent to Work Up entire Bills of Quantities. Candidates must hold O.N.C. or C. & G. (Quantities) or equivalent technical qualifications. Financial assistance and time off given for recognised courses of study. Promotion and pension prospects. Five-day week with 18 days paid leave a year initially. Salaries on annual incremental basis ranging from £975 (age 30 or over) to £1,115. Commencing salary according to qualifications and experience. Applicants, who must be natural born British subjects, should write stating age, qualifications and experience to Manager (PE 519), Ministry of Labour, Professional & Executive Register, Atlantic House, Farringdon Street, London, E.C.4. No original testimonial should be sent. 6499

**AIR MINISTRY** require **SENIOR TAKERS** OFF in Quantities Division, London. Must have wide experience of all classes of work and preferably be A.R.I.C.S. (Sub-Division III Quantities). Salaries (inner London scale) from £1,448 to £2,015. Commencing salary A.Q.E. Non-pensionable but long term with prospects of establishment and/or promotion. Five-day week. 22 days paid leave. Applicants must be natural born British subjects. Forms from Ministry of Labour, Technical and Scientific Register (K), 26, King Street, London, S.W.1. Quoting J.340/OA. 6315

**BOROUGH OF SCUNTHORPE**  
(Population—65,000; Area—7,595 acres; R.V.—£1,562,541)  
**ARCHITECTURAL AND PLANNING APPOINTMENTS**

Applications are invited for the following appointments in the Borough Engineer and Surveyor's Department:  
(a) **SENIOR ASSISTANT ARCHITECTS—Grade A.P.T. III/IV** (£960-£1,310 p.a.)  
(b) **SENIOR PLANNING ASSISTANT (REDEVELOPMENT)—Grade A.P.T. III** (£960-£1,140 p.a.)  
(c) **PLANNING ASSISTANT (DEVELOPMENT CONTROL)—Grade A.P.T. II/III** (£815-£1,140 p.a.)  
Commencing salaries will be fixed in the appropriate grade according to qualifications and experience.  
Applicants for posts (a) should be qualified Architects and have a good experience of architectural practice and procedure but Local Government experience is not essential; for posts (b) and (c) previous experience in redevelopment and development control work respectively in an urban area is essential.

The population of the Borough continues to expand rapidly and an extensive programme of capital works is planned. Opportunity for valuable architectural and planning experience also exists in conjunction with a comprehensive Redevelopment Scheme now being prepared for the Central Area of the Borough.  
Housing accommodation available, if required, approved removal expenses reimbursed in full, five-day working week.  
Applications, stating age, details of present and past appointments, training, qualifications and experience, together with the names of two persons to whom reference may be made, should be sent to F. J. Bowyer, Esq., Borough Engineer and Surveyor, Borough Surveyor's Department, Laneham Street, Scunthorpe, on or before Friday, 28th April, 1961. 6863

**COUNTY BOROUGH OF GREAT YARMOUTH**  
APPOINTMENT OF ASSISTANT ARCHITECT

Applications are invited for this appointment in the Borough Engineer's Department at a salary in accordance with APT Grade II (£815-£960).  
Applicants must have passed the Intermediate examination of the R.I.B.A. and have had experience in public buildings and housing. The Council is unable to offer housing accommodation. The appointment will be subject to the passing of a medical examination for superannuation purposes, and to one month's notice on either side.  
Applications, in an envelope endorsed "Architectural Assistant" giving names and addresses of two referees and stating age, training, qualifications, experience, present and previous appointments with salaries, must reach me not later than Thursday, 27th April, 1961.  
Canvassing will disqualify.

**FARRA CONWAY,**  
Town Clerk.  
Town Hall,  
Great Yarmouth. 6939

**SURREY COUNTY COUNCIL**  
COUNTY PLANNING DEPARTMENT  
**GRADE II PLANNING ASSISTANT**  
(£815 to £930—£960)

Applications are invited for the post of Planning Assistant in the North-West Area Planning Office at Woking.  
The successful applicant will be required to carry out preliminary consultations and investigation of applications in connection with development control. The post offers opportunity for obtaining experience in an Area where considerable development is taking place. It would be an advantage if applicants had either Local Authority or Area Planning Office experience and preference would be given to those studying for the Intermediate examination of the Town Planning Institute. A casual car user attaches to the post.  
Applications (endorsed "Confidential—Vacancy") stating age, educational attainments and experience, with details of present post and salary and the names of two referees, must reach the County Planning Officer, "Elmhurst," Penrhyn Road, Kingston-upon-Thames, not later than 25th April, 1961. 6913

**BOROUGH OF LOUGHBOROUGH**  
APPOINTMENT OF ASSISTANT ARCHITECT  
Applications are invited from suitably qualified persons for the above appointment in the Borough Surveyor's Department within either A.P.T. Grade III (£960-£1,140) or A.P.T. Grade IV (£1,140-£1,310) according to the qualifications and experience of the selected applicant.

The appointment will be subject to the provisions of the Local Government Superannuation Acts, and the successful candidate will be required to pass a medical examination.  
Housing accommodation will be available if necessary.

Applications, with details of age, qualifications, experience, present and previous appointments, and giving the names of two persons to whom reference may be made, are to be delivered to the undersigned not later than noon on Friday, 28th April, 1961.

**ARTHUR USHER,**  
Town Clerk.  
"Southfields,"  
Loughborough.  
5th April, 1961. 6886

**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 May 1st, 1961. 6883

**BUILDING RESEARCH STATION, Garston, Watford, Herts.** requires **EXPERIMENTAL OFFICERS** and **ASSISTANT EXPERIMENTAL OFFICERS** for research on lighting principles and design. Programme ranges from study of basic principles of visual efficiency and comfort to practical problems of design of artificial lighting and daylighting techniques, and design and testing of new lighting ideas in specific buildings. Ability to design apparatus and prototype lighting devices necessary and experience in photometry and illumination theory desirable. Quals.: H.N.C., Diploma in Technology or pass degree in science or engineering, or I.E.S. Diploma with good A-level educational background, A.E.O. age 22 or over, E.O. min. age 26. Starting pay—A.E.O. £625 (age 22)—£776 (age 26)—£957. E.O. in range £1,557-£1,296. Forms from Ministry of Labour, Technical and Scientific Register (K), 26, King Street, London, S.W.1, quoting D.154/1A. 6924

**ROYAL BOROUGH OF KINGSTON-UPON-THAMES**

**APPOINTMENT OF ASSISTANT ARCHITECT**  
**A.P.T. GRADE IV, £1,140-£1,310 per annum,** plus London weighting)  
Applications are invited for the above-mentioned appointment. Details and application forms obtainable from Borough Surveyor, Guildhall, Kingston-upon-Thames, and returnable by 28th April, 1961.

**L. V. POWELL,**  
Town Clerk.  
Guildhall,  
Kingston-upon-Thames.  
6th April, 1961. 6916

**RENFREW COUNTY COUNCIL**  
The Council have vacancies in the Master of Works Department (Education) for young **ARCHITECTURAL ASSISTANTS**, recently qualified, with practical experience in general architecture, £950-£1,150 p.a. Superannuable appointments. Applications, stating age, qualifications, etc., and naming two referees, to County Clerk, P.O. Box 12, Paisley, immediately. 6887

**TOWN PLANNER**  
**HOUSING AND PLANNING DEPARTMENT**  
**GOVERNMENT OF BRITISH HONDURAS**  
Duties: To work in all fields of regional, city, small town and village planning; to prepare layouts for areas in new development, and to conduct detailed surveys of housing requirements and relate the results to planning proposals.  
Qualifications: Candidates (men only, aged 30-45) must be A.M.T.P.I. (and preferably also A.R.I.B.A.) with at least four years' post qualification experience.

Terms of Appointment: On contract for two years of 24-36 months. Salary £2,000 a year with 12½ per cent. gratuity. Free passages. Quarters provided at reasonable rent. Write to Director of Recruitment, Colonial Office, London, S.W.1, giving full names, age, qualifications and experience, quoting BCD 160/31/02/E2. 6918

**EASINGTON RURAL DISTRICT COUNCIL**  
**ARCHITECTURAL ASSISTANT**  
**GRADE A.P.T. III, £960-£1,140**

Applications are invited for the above appointment. Applicants must have had previous Municipal experience, have been trained in the office of a Municipal Engineer, Architect or Surveyor, be experienced in Municipal Housing and general architectural work, and have the qualifications specified by the National Conditions of Service.

The appointment will be subject to the National Scheme of Conditions of Service and the Local Government Superannuation Acts. The successful applicant will be required to pass a medical examination.  
If required, housing accommodation will be provided.

Applications on forms which may be obtained from the undersigned must be received by 1st May, 1961.

**T. AGAR,**  
Clerk of the Council.  
Council Offices,  
Easington,  
Co. Durham. 6928

**LONDON COUNTY COUNCIL**  
**ARCHITECTS' DEPARTMENT**

**IMAGINATIVE ARCHITECT (PLANNERS)** urgently required. Opportunities in the challenging field of urban renewal in London. No reliance on creative ability and ideas. Up to £1,500 or, for those with appropriate experience, £1,700. Form and particulars from Hubert Bennett, F.R.I.B.A., Architect to the Council (EK/J/889/4), County Hall, S.E.1. 6830

# HOSPITALS

## S.W. Metropolitan Regional Hospital Board

With the considerable expansion of hospital building, architects of ability are to be selected for fundamental design work on projects due for completion in the next ten years. The programme for the Board, which covers one of the largest regions in the country, embraces not only whole hospitals, but a range of smaller associated residential, recreational and similar buildings.

Architects are invited to apply for the following vacancies:—

Senior Architects Salary £1,350–£1,650  
Assistant Architects Salary £945–£1,360  
Architectural Assistants Salary £645–£940

Qualified but unregistered Architects may be appointed within the Architectural Assistant Scale at £905 with immediate prospect on registration of proceeding to Assistant Architect grade.

Hospital experience while advantageous is not essential.

Applications with full details and present salary, together with names of two referees to be made by 27th April, 1961, to:—

The Secretary, South West Metropolitan Regional Hospital Board, 40, Eastbourne Terrace, W.2.



## HEINZ<sup>57</sup>

H. J. Heinz Company Limited with headquarters in Harlesden, North West London, manufacture the famous 57 Varieties in three factories, two of which are in Lancashire. The continuing development and expansion of the Company calls for the appointment of an

## ARCHITECT

to assist the Staff Architect, Peter Brigham, A.R.I.B.A.

[The successful candidate will be a senior member of a small team designing all types of building required by the Company and work at present in hand includes an extensive new building and modernisation programme at the Harlesden factory.

Applicants should be registered architects, aged 26-30, with at least three years' office experience since qualifying. Previous industrial experience would be an advantage, although less important than an enlightened approach to building science, project management and cost control.

The excellent employment conditions include a non-contributory pension and free life assurance. The initial salary would be of the order of £1,000 or upwards as warranted by qualifications and experience and would be progressive on merit.

Applications stating age with a brief summary of personal history to date, including qualifications, should be addressed to:—

The Personnel Officer,  
H. J. Heinz Company Limited,  
Waxlow Road,  
Harlesden, London, N.W.10.

## TRUST HOUSES LIMITED

Trust Houses Ltd. have an exciting and progressive programme of development involving modernisation and extension of their many existing hotels and the construction of a number of new hotels.

The Architects Department is being reorganised to meet this situation and applications are invited for the following new appointments:—

a. **ARCHITECT** (Design Group Leader). Salary not less than £1,750. Applicants should be Associates of the R.I.B.A., fully experienced, with first class design ability and capacity for leadership.

b. **ASSISTANT ARCHITECT** (Interior Design). Salary not less than £1,200. Applicants should be Associates of the R.I.B.A. with first class design ability and some years' experience. Preference will be given to candidates who have a talent for interior design.

c. **ASSISTANT REGIONAL ARCHITECT**. Salary not less than £1,200. Applicants should be members of the R.I.B.A. or Registered Architects with experience of building maintenance and contract management.

d. **ARCHITECTURAL ASSISTANT**. Salary in accordance with experience. Applicants should have passed the final of the R.I.B.A. or should have had ample office experience.

e. **MAINTENANCE SURVEYOR**. Salary not less than £950. Applicants should have considerable practical experience of building maintenance, costing and site supervision.

Appointments C and E will involve considerable travelling and ability to drive a car is essential.

Pension and Life Assurance Schemes, five-day week, free lunches.

Applications marked confidential giving full particulars and stating the post applied for should be sent to the following address not later than 24th April, 1961.

Nelson Foley, A.R.I.B.A., A.I.L.A.  
Chief Architect,  
Trust Houses Ltd.,  
53 Short's Gardens, W.C.2.

## ARCHITECTS

### NATIONAL COAL BOARD

The big and expanding coalfield of Notts., Derby and Leicestershire has vacancies for first-class architects and architectural assistants.

Interesting, worthwhile work with the opportunity of acquiring wide experience on industrial and welfare buildings and the design of offices, laboratories etc., good conditions and brand new offices in pleasant surroundings.

*There is also a large and busy quantity surveyors' branch in which vacancies occur from time to time.*

**Five day week—Staff Restaurant.**

Salaries according to age, experience and qualifications range from £655 to £1,625 a year.

*Please write for further information to the*

Chief Staff Officer, N.C.B.,  
Sherwood Lodge, Arnold, Nr. Nottingham.



**BOROUGH ARCHITECTS' DEPARTMENT**  
HOLBORN BOROUGH COUNCIL  
TECHNICAL ASSISTANT with knowledge of building construction required, quick, neat and practical draughtsman. Salary £815-£1,140 (plus London Weighting) Grade A.P.T.II/III according to experience. Applications with names of two referees to Town Clerk, Town Hall, High Holborn, W.C.1. 6935

**BOROUGH ARCHITECTS' DEPARTMENT**  
HOLBORN BOROUGH COUNCIL  
ARCHITECTURAL ASSISTANT required, good, quick, neat, draughtsman. Salary £815-£1,140 (plus London Weighting) Grade A.P.T. II/III according to experience. Applications to Town Clerk, Town Hall, High Holborn W.C.1. 6966

**BRACKNELL DEVELOPMENT CORPORATION**  
JUNIOR ARCHITECTURAL ASSISTANT required. Salary within the range £260-£630. Superannuation scheme, medical examination, five-day week. Apply by 24th April, giving age, educational standard, training and experience. Applications should be addressed to the General Manager (A), Bracknell Development Corporation, Farley Hall, Bracknell, Berks. 6799

**CITY AND COUNTY OF NORWICH**  
CITY ARCHITECT'S DEPARTMENT  
Required on permanent staff, ARCHITECTURAL ASSISTANT having passed Intermediate R.I.B.A. examination. Salary grade A.P.T. I (£645-£815).

Application forms, obtainable from the City Architect, City Hall, Norwich, must be returned by 5 p.m., 24th April, 1961. 6800

### Tenders Invited

36s. per inch; each additional line 3s.  
**CRAWLEY URBAN DISTRICT COUNCIL**  
COUNCIL OFFICES AND COUNCIL SUITE  
CONTRACTORS who wish to be considered for inclusion in a selected list of tenderers for the erection of Council Offices (including Council Suite) at The Boulevard, Crawley, are asked to send their names to me not later than the 3rd day of May, 1961.

The Architects for the scheme are Sir John Brown, A. E. Benson and Partners.  
Tendering documents will be sent to contractors selected by the Council from the applicants, and the Council may add other contractors to the selected list.

R. W. J. TRIDGELL,  
Clerk of the Council.

Robinson House,  
Robinson Road,  
Crawley, Sussex.  
6th April, 1961. 6914

### Competition

36s. per inch; each additional line 3s.  
**HOUSE DESIGN COMPETITION**  
AN Open Competition for four types of house design is to be sponsored by the Gas Council.

Conditions will be available at the end of April, designs to be in by 31st August, 1961.

Designers will be 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 will be open to Architects, and Students R.I.B.A. if in association with a Registered Architect.

Applications for Conditions:  
Secretary,  
House Design Competition,  
The Gas Council,  
1, Grosvenor Place,  
London, S.W.1. 6766

### Architectural Appointments Vacant

3s. per line; minimum 12s. Box Number, including forwarding replies, 2s. extra.

**£950-£1,500. ARCHITECTURAL ASSISTANTS** 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. 4934

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**TWO SENIOR ASSISTANTS** required. Salary in accordance with experience. Please apply to F. G. Frizzell, A.R.I.B.A., 80, Portland Place, W.1. LAngham 1732. 4943

**ARCHITECTURAL ASSISTANTS** required with practical experience. Varied practice including contemporary work. Salary £700-£1,100 (plus L.V.s), according to qualifications and experience. Please write, giving full particulars, to Sir Giles Scott, Son & Partner, 9, Gray's Inn Square, W.C.1. 5601

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Peterborough. 6029

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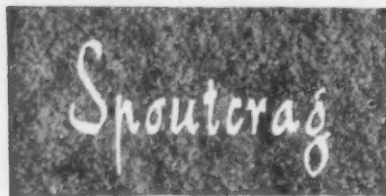
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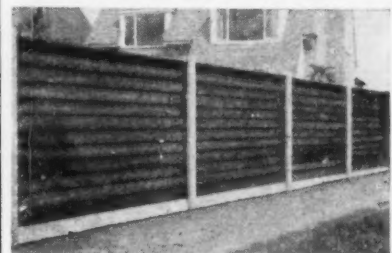
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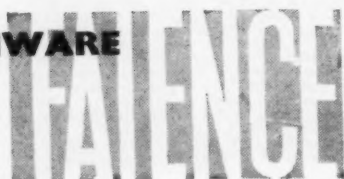
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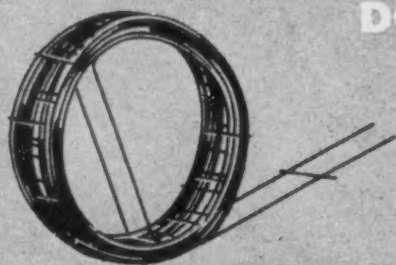
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