

**STACK**

FINE ARTS DEPT:

*The Architects' JOURNAL for August 9, 1951*

# 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

Diary

News

Astragal's Notes and Topics

Letters

Societies and Institutions

## TECHNICAL SECTION

Information Sheets

Information Centre

Current Technique

Questions and Answers

Prices

The Industry

## PHYSICAL PLANNING SUPPLEMENT

## CURRENT BUILDINGS

## HOUSING STATISTICS

*Architectural Appointments  
Wanted and Vacant*

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

- AA Architectural Association, 34/6, Bedford Square, W.C.1. Museum 0974  
AAI Association of Art Institutions. Secy.: W. Marlborough Whitehead, "Dyneley," Castle Hill Avenue, Berkhamstead, Herts.  
ABS Architects' Benevolent Society. 66, Portland Place, W.1. Langham 5721  
ABT Association of Building Technicians. 5, Ashley Place, S.W.1. Victoria 0447-8  
ACGB Arts Council of Great Britain. 4, St. James' Square, S.W.1. Whitehall 9737  
ADA Aluminium Development Association. 33, Grosvenor Street, W.1. Mayfair 7501/8  
APRR Association for Planning and Regional Reconstruction. 34, Gordon Square, W.C.1. Euston 2158-9  
ArchSA Architectural Students' Association. 34/36, Bedford Square, W.C.1  
ArchUK Architects' Registration Council. 68, Portland Place, W.1. Welbeck 9738  
ASB Architectural Science Board of the Royal Institute of British Architects, 66, Portland Place, W.1. Langham 5721  
AScW Association of Scientific Workers. 15, Half Moon Street, Piccadilly, W.1. Grosvenor 4761  
BAE Board of Architectural Education. 66, Portland Place, W.1. Langham 5721  
BATC Building Apprenticeship and Training Council. Lambeth Bridge House, S.E.1. Reliance 7611, Ext. 1706  
BC Building Centre. 9, Conduit Street, W.1. Mayfair 8641/6  
BCC British Colour Council. 13, Portman Square, W.1. Welbeck 4185  
BCCF British Cast Concrete Federation. 17, Amherst Road, Ealing, W.13. Perivale 6869  
BCIRA British Cast Iron Research Association. Alvechurch, Birmingham. Redditch 716  
BDA British Door Association. 10, The Boltons, S.W.10. Flaxman 7766  
BEDA British Electrical Development Association. 2, Savoy Hill, W.C.2. Temple Bar 9434  
BIA British Ironfounders' Association. 145, Vincent Street, Glasgow, C.2. Glasgow Central 2891  
BIAE British Institute of Adult Education. 29, Tavistock Square, W.C.1. Euston 5385  
BID Building Industries Distributors. 52, High Holborn, W.C.1. Chancery 7772  
BINC Building Industries National Council. 11, Weymouth Street, W.1. Langham 2785  
BOT Board of Trade. Millbank, S.W.1. Whitehall 5140  
BRS Building Research Station. Bucknalls Lane, Watford. Garston 2246  
BSA Building Societies Association. 14, Park Street, W.1. Mayfair 0515  
BSI British Standards Institution. 28, Victoria Street, S.W.1. Abbey 3333  
BTE Building Trades Exhibition. 4, Vernon Place, W.C.1. Holborn 8146/7  
CABAS City and Borough Architects Society. C/o Johnson Blackett, F.R.I.B.A., Borough Architect, Town Hall, Newport, Mon. Newport 3111  
CAS County Architects Society. C/o F. R. Steele, F.R.I.B.A., County Hall, Chichester. Chichester 3001  
CCA Cement and Concrete Association. 52, Grosvenor Gardens, S.W.1. Sloane 5255  
CCP Council for Codes of Practice. Lambeth Bridge House, S.E.1. Reliance 7611  
CDA Copper Development Association. Kendals Hall, Radlett, Herts. Radlett 5616  
CIAM Congrès Internationaux d'Architecture Moderne. Dolderal, 7, Zurich, Switzerland.  
COID Council of Industrial Design. Tilbury House, Petty France, S.W.1. Whitehall 6322  
CPRE Council for the Preservation of Rural England. 4, Hobart Place, S.W. Sloane 4280  
CUJC Coal Utilization Joint Council. 3, Upper Belgrave Street, London, S.W.1. Sloane 9116  
CVE Council for Visual Education. 13, Suffolk Street, Haymarket, S.W.1. Reading 72255  
DGW Directorate General of Works, Ministry of Works, Lambeth Bridge House, S.E.1. Reliance 7611  
DIA Design and Industries Association. 13, Suffolk Street, S.W.1. Whitehall 0540  
DOT Department of Overseas Trade. 35, Old Queen Street, S.W.1. Victoria 9040  
EJMA English Joinery Manufacturers' Association (Incorporated). Sackville House, 40, Piccadilly, W.1. Regent 4448  
EPNS English Place-Name Society. 7, Selwyn Gardens, Cambridge.  
FAS Faculty of Architects and Surveyors. 8, Buckingham Palace Gdns., S.W.1. Sloane 2837  
FASSC Federation of Association of Specialists and Sub-Contractors. 5, Arundel Street, Strand. Temple Bar 6633  
FBI Federation of British Industries. 21, Tothill Street, S.W.1. Whitehall 6711  
FC Forestry Commission. 25, Savile Row, W.1.  
FCMI Federation of Coated Macadam Industries. 37, Chester Square, S.W.1. Sloane 1002  
FDMA The Flush Door Manufacturers Association Ltd. Trowell, Nottingham. Ilkeston 623  
FLD Friends of the Lake District. Pennington House, nr. Ulverston, Lancs. Ulverston 201  
FMB Federation of Master Builders. 26, Great Ormond Street, Holborn, W.C.1. Chancery 7583  
FOB 1951 Festival of Britain 1951. 2, Savoy Court, Strand, W.C.2. Waterloo 1951  
FPC The Federation of Painting Contractors, St. Stephen's House, S.W.1. Whitehall 3902  
FRHB Federation of Registered House Builders. 82, New Cavendish Street, W.1. Langham 4041  
FS (Eng.) Faculty of Surveyors of England. Buckingham Palace Gdns., S.W.1. Sloane 2837  
GC Gas Council. 1, Grosvenor Place, S.W.1. Sloane 4554  
GG Georgian Group. 27, Grosvenor Place, S.W.1. Sloane 2844  
HC Housing Centre. 13, Suffolk Street, Pall Mall, S.W.1. Whitehall 2881  
LAAS Incorporated Association of Architects and Surveyors. 75, Eaton Place, S.W.1. Sloane 5615  
ICA Institute of Contemporary Arts, 17-18, Dover Street, Piccadilly, W.1. Grosvenor 6186  
ICE Institution of Civil Engineers. Great George Street, S.W.1. Whitehall 4577  
IEE Institution of Electrical Engineers. Savoy Place, W.C.2. Temple Bar 7676  
IES Illuminating Engineering Society. 32, Victoria Street, S.W.1. Abbey 5215

No. 2945]

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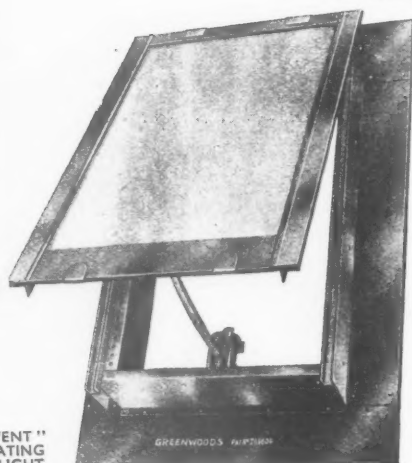
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is not only QUIET, WARM, LUXURIOUS  
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**C**ORK, most luxurious of floors, with the air-cellular structure that kills noise, has long been the architect's first-choice where silence is essential, or comfort more important than cost.

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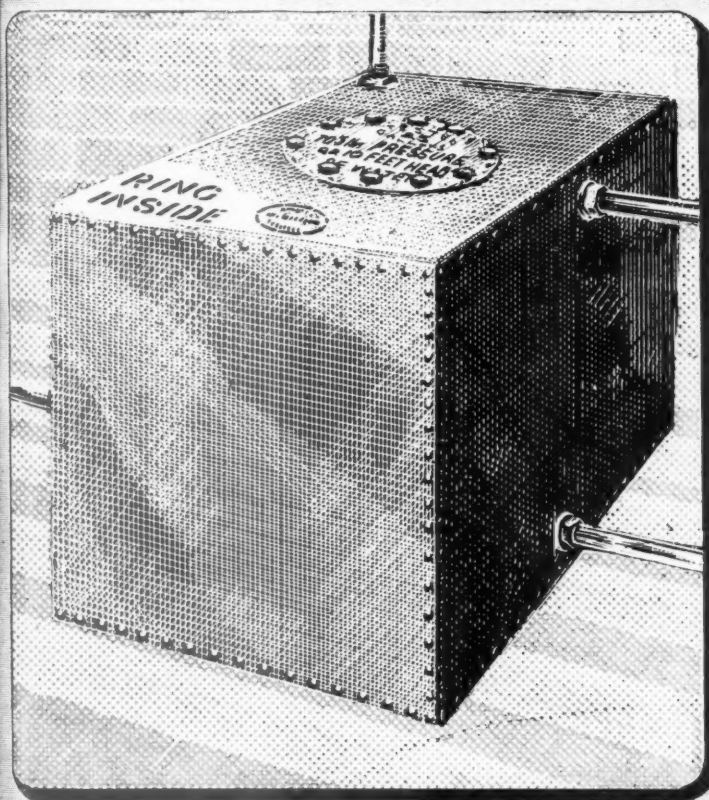
## TO THE ARCHITECT - SURVEYOR AND BUILDER

**Yours the problem -  
Harveys the answer!**

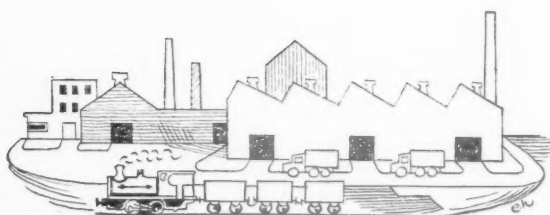
Whenever the question of where-to-get, not only Tanks, but Cisterns and Cylinders arises—remember Harveys. Our illustration shows a typical "Harco" product—unsurpassed for soundness of construction and galvanized after manufacture for lasting use. Get all supplies from your Builders' Merchant. For full information of all ranges write for Pocket List A.J.(1).

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accidents;  
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FERODO

# For **Non-Slip** safety on stairs . . . **MADE BY FRICTION SPECIALISTS**

LASTING GOOD APPEARANCE

**F**ERODO Stairtreads not only give the best possible protection against accidents; they are also extraordinarily durable and long-lasting, and provide a neat finish for stairs that have to be seen as well as used.

Made by specialists in engineering friction materials, these treads cannot wear slippery; they give a safe, firm grip, even if shoes are wet. The bright outline to the step is a further safety factor, especially in subdued lighting.

#### **Choice of patterns**

Ferodo Stairtreads are mounted in aluminium nosings, which are made in single and double channel types, of various widths and profiles.

The friction strips are either of Ferodo bonded fabric, or of a smoother yet non-slip asbestos composition, in white, red, or grey.

In addition, there is a plain steel-backed "industrial" type. All types

All types are easily cleaned, and need no other maintenance. They resist wear for years without looking shabby, even under the heaviest traffic.

#### **Simple installation**

Ferodo Stairtreads are easily fitted to new or existing wood, stone, concrete, or iron stairs, and can be supplied accurately curved for stair-ends or winders.

The various models are described and illustrated in our Catalogue No. 732KK, gladly sent on request.

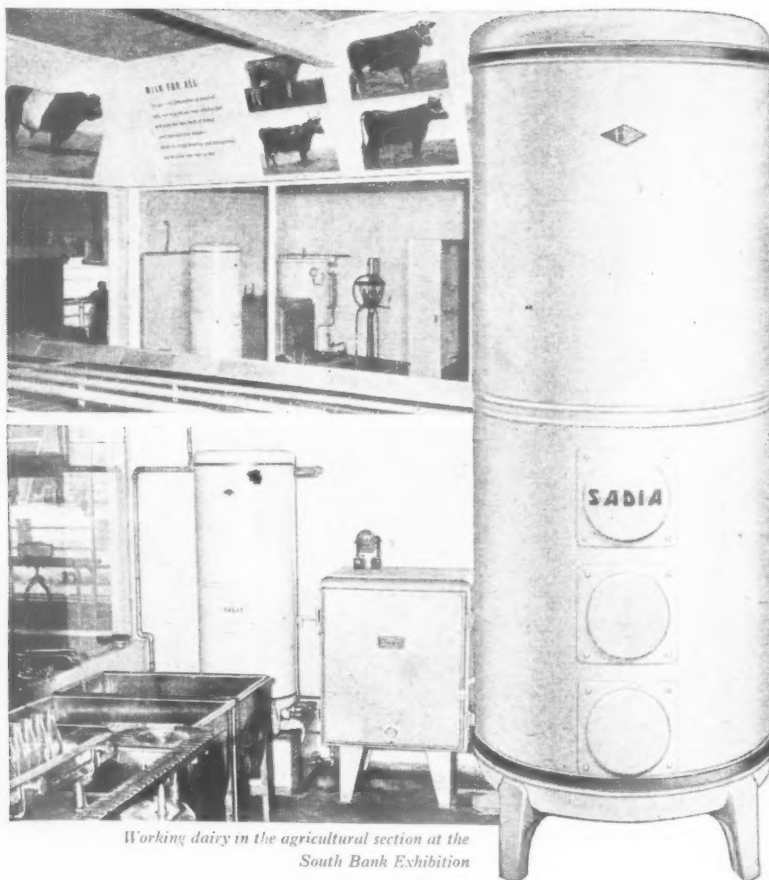


#### **Neat solution to safety problem**

Wherever stairs are in constant use by staff and public—in shops, offices, hotels, public buildings—safety is the first essential, with good appearance a close second. These stairs in Hamley's famous Regent Street toy and games store, often crowded with children, show how both needs are met by Ferodo Stairtreads.

# FERODO STAIRTREADS

**1,300  
gallons  
of hot  
water**



*Working dairy in the agricultural section at the  
South Bank Exhibition*

## *Sadia behind the scenes at the Festival*

THE SADIA 50-gallon electric water heater in the model dairy at the South Bank Exhibition is there for every visitor to see. The unit supplies the hot water needed for washing equipment and utensils.

But, behind the scenes at the Festival, Sadia Water Heaters are making a much more important, although less obvious, contribution. For hot water is also required for cloakroom basins, cleaners' sinks and other services. At both the South Bank and Battersea sites, a large number of Sadia water heaters have been installed. In them over 1,300 gallons of hot water are kept ready for immediate use. Hundreds of thousands of gallons of hot water will be provided over the period of the Festival.

The choice of Sadia water heaters for these important services is no arbitrary one. For over 28 years Aidas Electric Ltd. have specialised in the manufacture of electric water heaters. In this time they have earned an unequalled reputation for quality and reliability. That is why Sadia water heating equipment is so often specified.



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## ***that arresting* WHITENESS**

How dramatically the whiteness of the barque's sails—against the deep background of sky and sea—arrests the eye!

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Snowcrete is also used for producing renderings, facings, terrazzo and cast stone of great durability.

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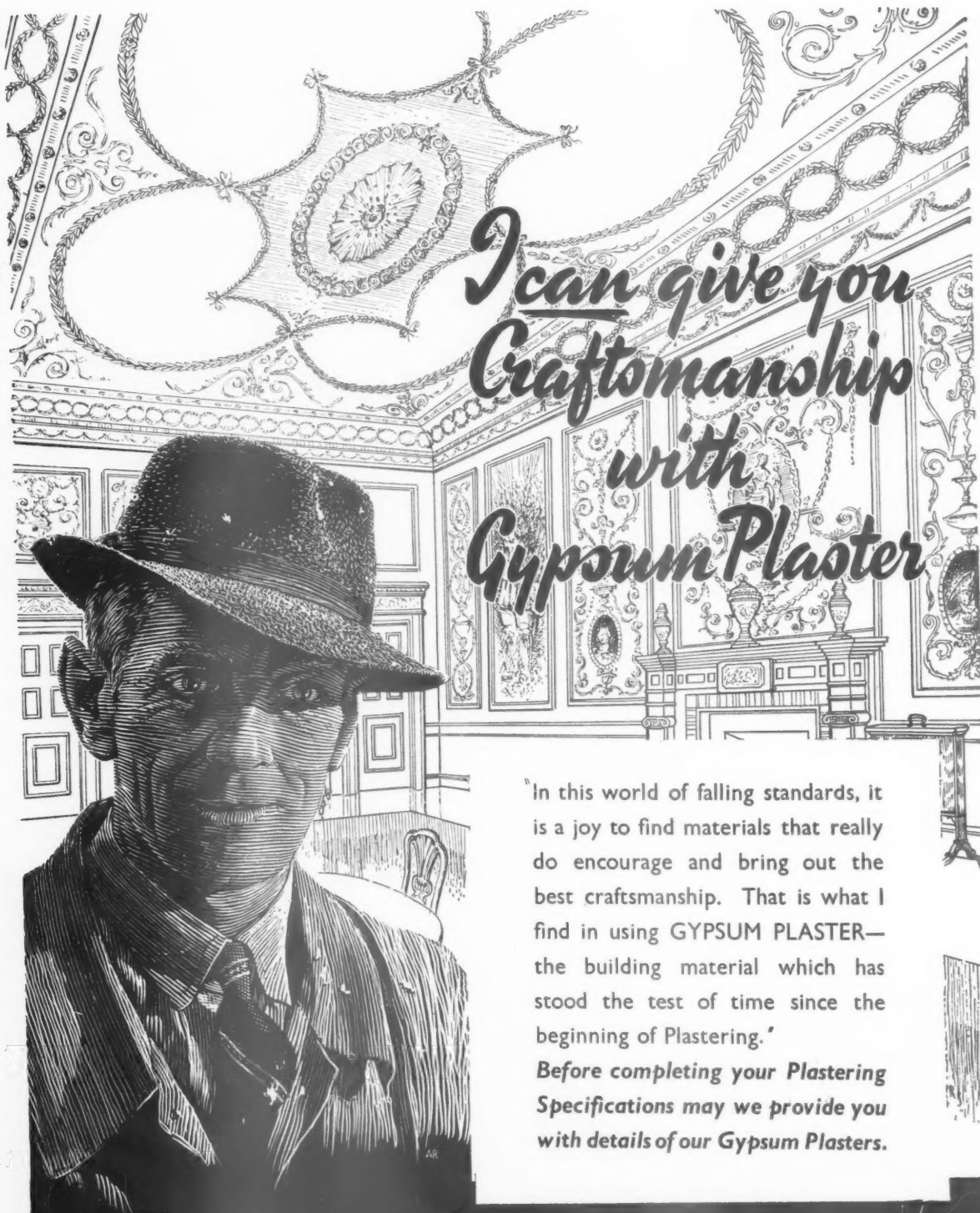
Full particulars from: **THE CEMENT MARKETING COMPANY LIMITED**

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"In this world of falling standards, it is a joy to find materials that really do encourage and bring out the best craftsmanship. That is what I find in using GYPSUM PLASTER—the building material which has stood the test of time since the beginning of Plastering."

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**SANDSTORM** *Siles*



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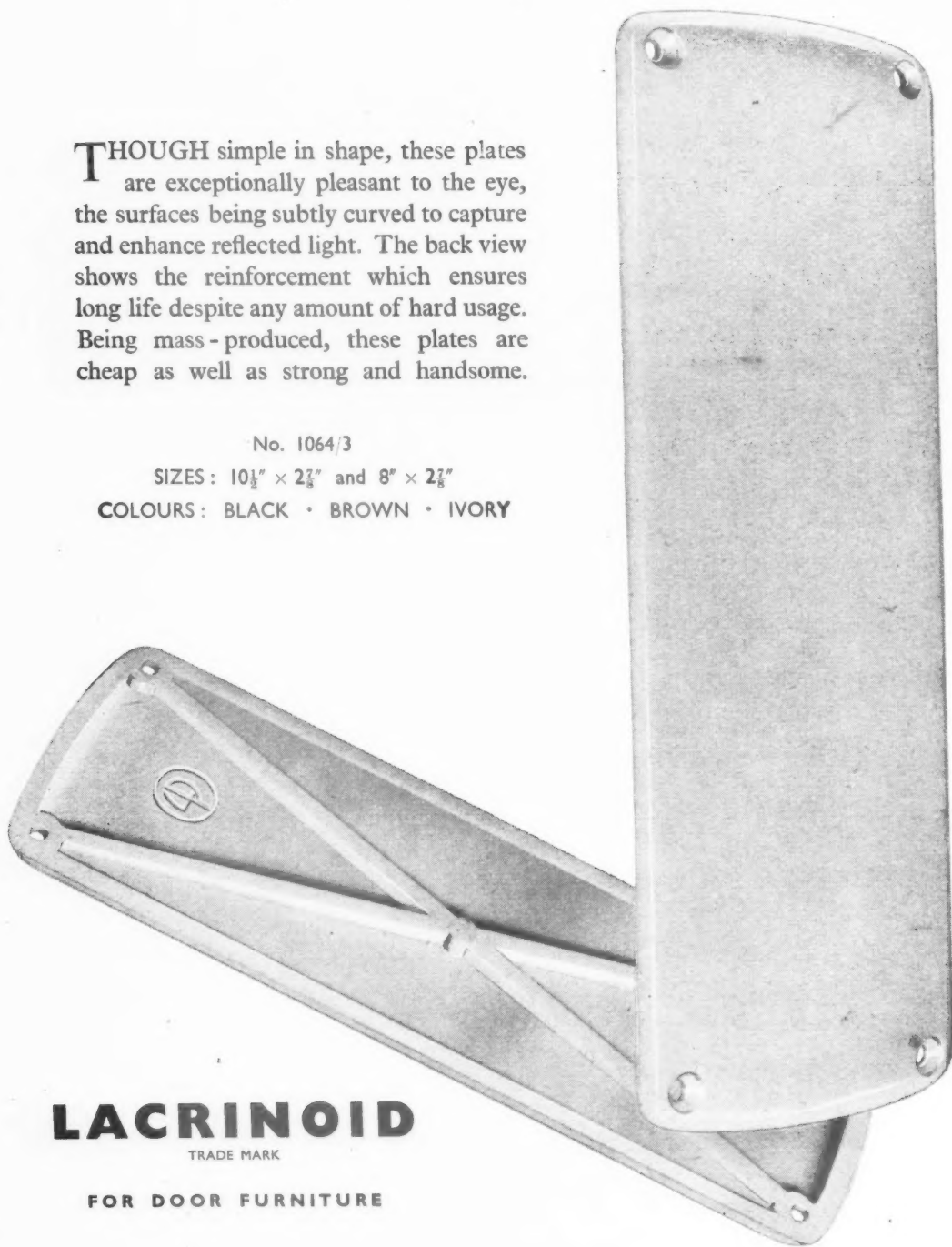
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**Right.** Drawers and door fronts of this delightful nursery furniture exhibited in the 'Child in the Home' feature of the Homes & Gardens Pavilion are in grey linette FORMICA.

**Extreme Right.** Self service counters, table tops, food display cases, back fittings and doors are veneered in grey linette FORMICA in the Thames-Side Restaurant.



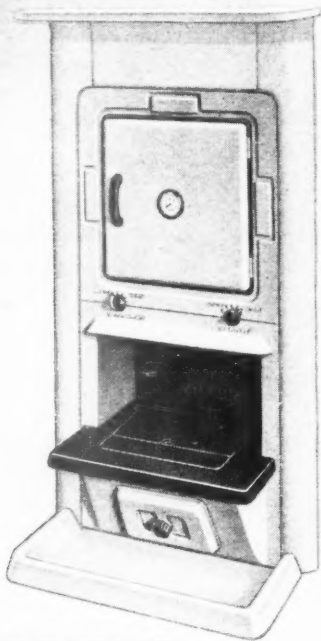








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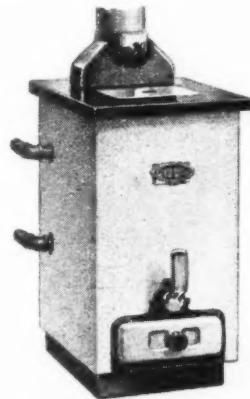
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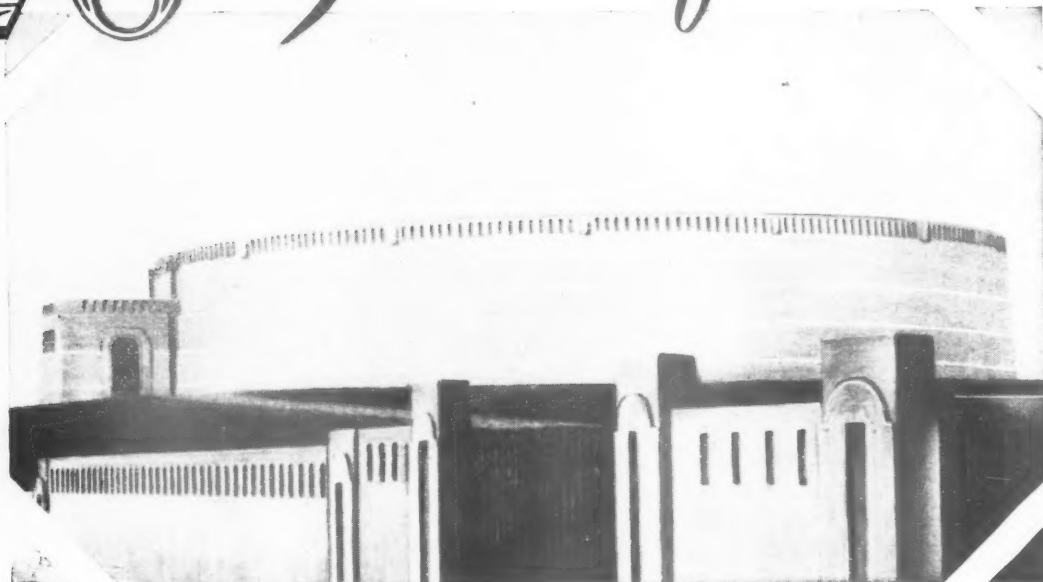
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Since their introduction into Great Britain  
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CLAY YESTERDAY . . . CLAY TODAY . . . CLAY TOMORROW



*Restored view of a street  
of Shops in Ostia*

From early Latin writers it has long been known that there were great blocks of flats or tenements, and shops in Rome.

Excavations at Ostia have provided valuable information on the construction of these buildings and it is evident that the Romans showed great ingenuity in the use of local materials. Clay particularly was used extensively for Roofing Tiles and Tiles for decorative purposes.

# Clay LASTS

*The ACME Range of  
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ACME SANDSTORM  
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*For enduring beauty . . . specify*



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## ORLIT CONSTRUCTION

In many instances of school building, the use of the Orlit principle has resulted in advancing the opening date, often by several months—a clear proof of the speed and efficiency of this method of construction.

The Orlit method allows full opportunity to the architect to employ his faculties of design; in this school illustrated, for example, excellent use has been made of external brick facing to an Orlit pre-cast structure.

Orlit can place at the disposal of architects and contractors an experienced erection section for the fixing on the site of Orlit units supplied.

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Controlling Architect for Education: L. Mew, A.R.I.B.A.,  
Assistant Architect in charge: R. H. West, L.R.I.B.A.,  
Contractors: F. W. Foster Ltd., Radstock, Somerset.

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TARSLAG LTD. Economac House,  
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TARSLAG LTD. Tees Bridge,  
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THE SCOTTISH ORLIT CO. LTD.  
Sighill Industrial Estate,  
Edinburgh 11. Tel: Craiglockhart 2287  
ORLIT (N. Ireland) LTD. Benson Street,  
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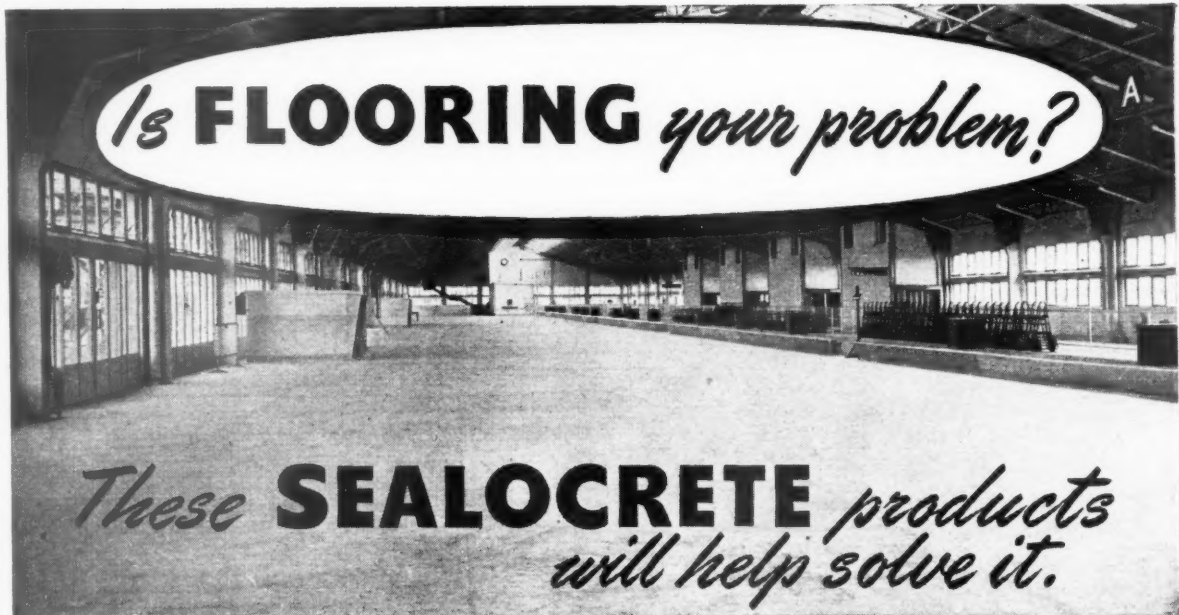
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BRITISH RAILWAYS SOUTHERN SECTION, OCEAN TERMINAL DOCK, SOUTHAMPTON  
Designed by J. H. Jellett, Docks Engineer

Chief Assistant Architect, C. B. Dromgoole

#### SEALOCRETE DOUBLE STRENGTH PREMIX

This solution makes floor toppings dustproof, oilproof, case hardened and permanently waterproof. Easily incorporated in the gauging water the solution enables floors to be walked on four to six hours after being laid imparting to them additional crushing and tensile strength.



#### SEALOCRETE METALLIC HARDENER

A finely graded metallic compound which when incorporated with Granolithic floor toppings gives a very hard surface capable of withstanding extremely heavy usage.



#### SEALOCRETE CONCRETE SURFACE DRESSING

This is a liquid which is applied to newly laid or existing concrete floors to render them dustproof, oilproof and case hardened. It can be applied to all kinds of existing concrete, granolithic, slag or ballast finished floors. The action of the solution is to penetrate the pores and voids and becomes an integral part of the concrete leaving a case hardened mass.



#### SEALANTONE LIQUID COLOURS

Available in many colours and as they are in liquid form they are simple and clean to mix. They have no deleterious effect on cement or concrete. In fact, they give increased crushing and tensile strength as well as increased resistance to oil and grease penetration and prevent dusting.



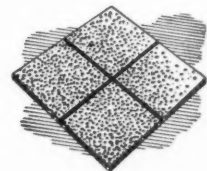
#### SEALOCRETE COLOURED CONCRETE SURFACE DRESSING

This is available in twelve colours and is used on concrete floors not subjected to heavy traffic. Floors so treated should be wax polished after the second application.



#### SEALOCRETE COLOURED CORK FLOORING COMPOUND

Mixed with Portland Cement and water produces a light duty floor which is warm, resilient, colourful and waterproof. It is unaffected by climatic conditions and can be used as a topping for tile work.



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Architect : C. G. Stillman, F.R.I.B.A.,  
County Architect, Middlesex County Council



The Specification of the Ruberoid System of Roofing for much of the School Building Programme testifies not only to the dependability of Ruberoid and its low cost per year of service but also to the speed with which the work can be executed.

There are suitable weatherproofing specifications to meet the requirements of all types of Industrial, Educational and Private buildings with flat, pitched or curved roofs.

Architects and Engineers are invited to write for the technical brochures which describe these specifications in detail.

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Branches : Manchester, Newcastle-on-Tyne, Birmingham, Glasgow, Edinburgh, Aberdeen, Belfast

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Workers can have more warmth and comfort from improved thermal insulation, when "INSULIGHT" double-glazing units are used. These units reduce heat losses, and thus cut heating costs. Used in conjunction with air-conditioning plant, the load is reduced and power saved, and the initial capital

cost is less. The hermetically sealed dry air in the space between the two glasses of the units restricts condensation and keeps the inside surfaces free from dirt. There are still only two surfaces to clean. The units can be fitted without difficulty.

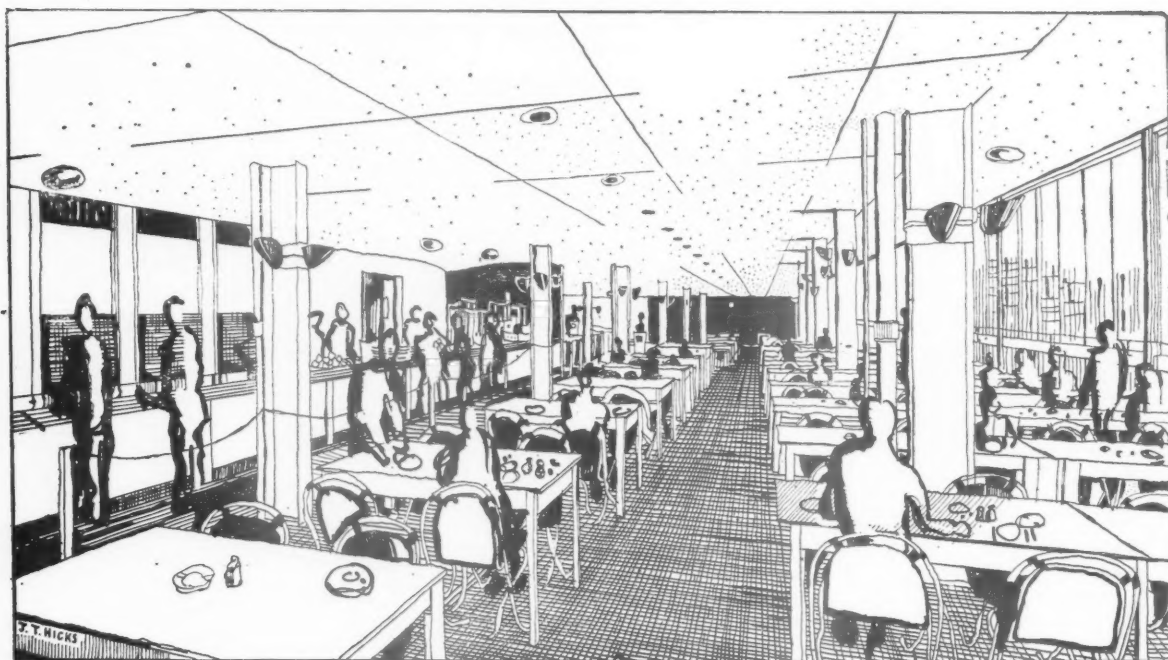
*Send for the booklet about their advantages and the methods of fixing.*

Consult the Technical Sales and Service Department at St. Helens, Lancs., or Selwyn House, Cleveland Row, St. James's, S.W.1    Telephones: St. Helens 4001; Whitehall 5672-6.    *Supplies are available through the usual trade channels.*



**PILKINGTON BROTHERS LIMITED**

*"INSULIGHT" is the British registered trade mark of Pilkington Brothers Limited*



*An impression of the Staff Canteen in the South Bank Administration Building.*

*Architect: Edward D. Mills, F.R.I.B.A., F.R.S.A.*

## Gas Caters for the South Bank Staff

In addition to providing the main source of heat for cooking and hot water in the various restaurants, buffets and cafés which cater for the needs of visitors to the South Bank Exhibition, gas is used exclusively in the preparation of meals and refreshments for the entire Exhibition Staff of some 1,200.

The sketch shows part of the cafeteria service canteen which seats 400 and serves full meals. This is situated on the third floor of the general administration building which incorporates lavatories, rest rooms, cloakrooms, workshops and offices.

There is also a self-service snack bar and an executives' dining room, which brings the total seating accommodation up to approximately 600.

The restaurant facilities are available all day for the staff, and certain facilities are available for those on the night shift.

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*Helpful information on the many aspects of providing efficient services for cooking, hot water, space heating and refrigeration may be obtained from local Gas Undertakings.*

# GAS



6

BRINGING COLOUR TO LIFE



The colourful tapestries that bedecked the homes of the more privileged of our ancestors, the paintings that made their ceilings gay, the Blue, Pink and Yellow Drawing Rooms of the stately homes of old England may well justify those who accuse this age of a drab and unimaginative uniformity in its interior decoration. If the accusation has foundation, it is surely not for lack of colour.

At Docker Brothers, for instance, paints, lacquers and varnishes are to-day available in an increasing variety of colours and shades and in finishes—matt, glossy, satin, . . . that our ancestors never knew. What's more, a vast fund of technical information and experience is available to the architect or builder wishing to bring colour to life in the modern home.

**HERMASHEEN**, for example, is a Semi-Gloss paint with a singularly beautiful "satin" appearance. Supplied in a wide range of pleasing shades suitable for interior decoration, it is highly durable and easy to apply.

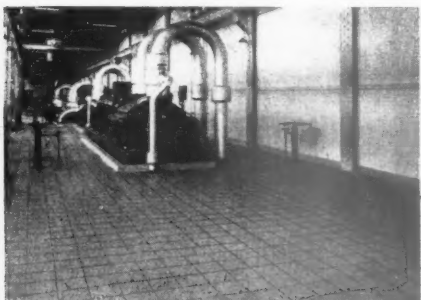
**DOCKER BROTHERS**

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"Prodordur" Tiling at a Power Station in the London Area

25 YEARS'  
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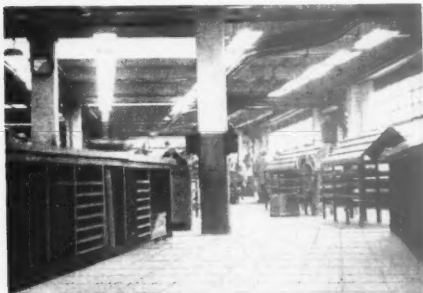


"Diamonite" Hardened Granolithic Paving in a Machine Room

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25 YEARS

"Consol" Plate Flooring in a Bakery



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**There are TWO COSTS  
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that is not sold with a  
WRITTEN GUARANTEE**

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- 2. MAINTENANCE COST**

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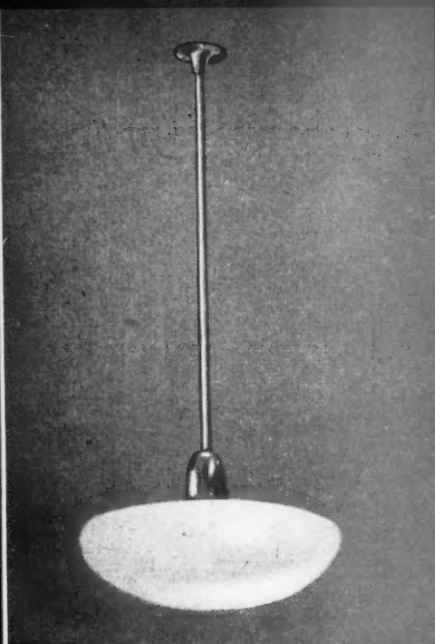
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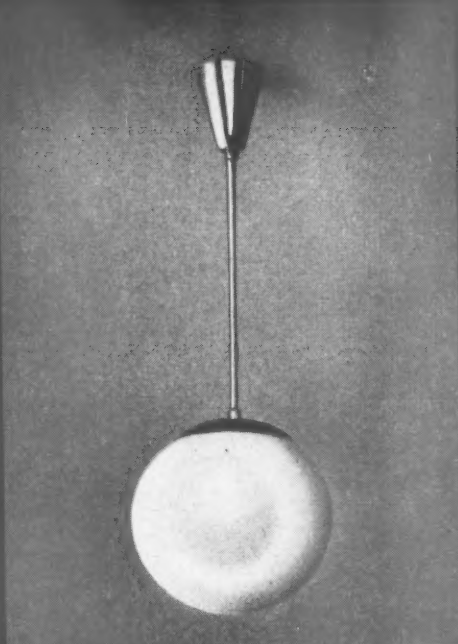
*Not for an age but for all time*

*The Marley Tile Co. Ltd., London Rd., Sevenoaks, Kent. Sevenoaks 2251-8*

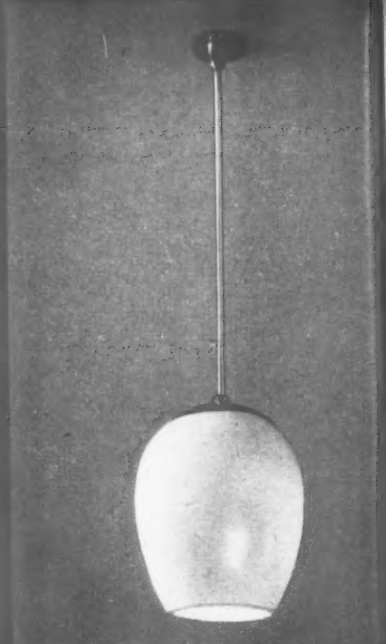
**MARLEY**



**G. 15 PENDANT.** Bowl. Finishes: Silver anodised aluminium with chromium suspension. Glass: White or ivory flashed opal. Lamp: 200 watts.



**U. 13 PENDANT.** Sphere. Finish: Chromium or coinage bronze. Glass: White flashed opal. Lamp: Up to 100 watts.



**U. 202 PENDANT.** Open Base. Finish: Chromium or coinage bronze. Glass: White flashed opal. Lamp: 200 watts.

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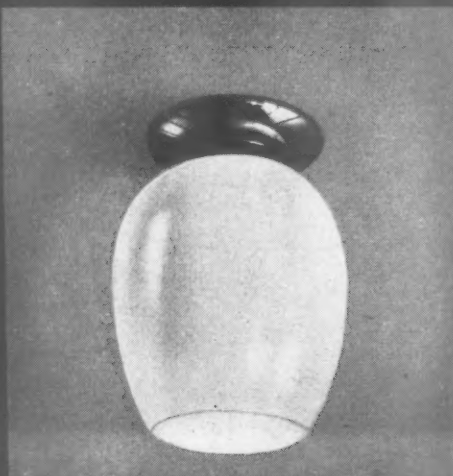
*The Lighting Centre*

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**G. 34 CEILING.** Backplate. Finishes: Silver anodised aluminium with off-white backplate. Glass: White or ivory flashed opal. Lamps: Up to 2 x 75 watts.



**U. 211 CEILING.** Open Base. Finish: Chromium or Coinage bronze. Glass: White flashed opal. Lamp: 200 watts.



**U. 26 CEILING.** Bowl. Finish: Chromium or Coinage bronze. Glass: White flashed opal. Lamp: 100 watts.

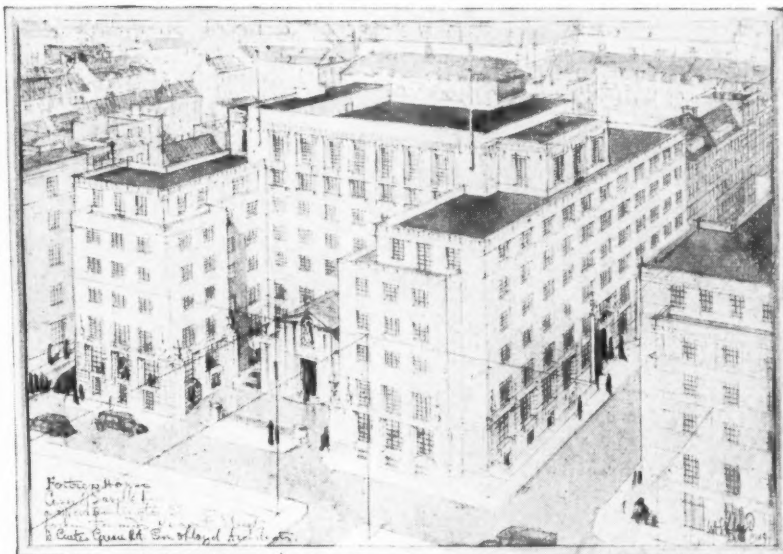




This imposing new office block—23 Savile Row, now the headquarters of the Ministry of Local Government and Planning—is floored throughout with Accotile, "the low-cost floor with the luxury look."

ARCHITECTS—W. Curtis Green, R.A., Son and Lloyd, 5 Pickering Place, S.W.1.

BUILDERS—Sir Robert McAlpine and Sons Ltd., 80 Park Lane, W.1.



## Mayfair's

# latest block of offices has Britain's latest, most handsome low-cost flooring

Armstrong's Accotile is quickly laid on concrete, wood, or metal. It is especially suitable for use on screeded concrete direct-to-earth since it is unaffected by alkaline moisture. Damp-proofing is not essential unless actual water pressure is suspected.

### OUTSTANDINGLY DURABLE

Accotile will, in most cases, long outlast more expensive floors. Many local authorities have found repair costs, too, much reduced by Accotile installations. Accidental damage is easily and cheaply made good. Broken tiles are quickly replaced.

Accotile durability is proved. Accotile floors laid in England twelve years ago can be inspected. They are still in excellent condition.

### DECORATIVE—UNLIMITED CHOICE OF DESIGN

With Accotile there is unlimited scope

for decorative effect. The tiles are made in a wide range of plain and marbled colours and can be laid in any design. The colours are fast since they are an integral part of the tile.

### EASILY MAINTAINED —NON-STAINING

Accotile is kept fresh and new-looking indefinitely by normal sweeping and washing, but may be polished if an extra high finish is desired. It offers good resistance to most acids and, being non-absorbent, does not stain.

\* \* \*

*If you would like to hear more about Accotile—please write to us. We shall be pleased to send you full information. Armstrong's Accotile Flooring, Armstrong Cork Company Limited, Bush House, Aldwych, London W.C.2. Tel.: Chancery 6281. Scottish Branch: 5 Oswald Street, Glasgow C.1. Tel.: Central 5703.*

### FOR PUBLIC BUILDINGS, HOUSES, SCHOOLS, HOSPITALS, AND COMMERCIAL PREMISES

Accotile is quiet and comfortable to walk on, warm and non-slip.

Armstrong's Top-Set Coved Skirting, available in Pompeian Red and Plain Black, gives an added finish.

In existing buildings, Accotile is laid in a matter of hours and can be used immediately, so that occupation of the room is disturbed for the minimum time.

The all-in cost of flooring with Accotile compares very favourably with any other flooring method, with the added advantage of low labour costs.

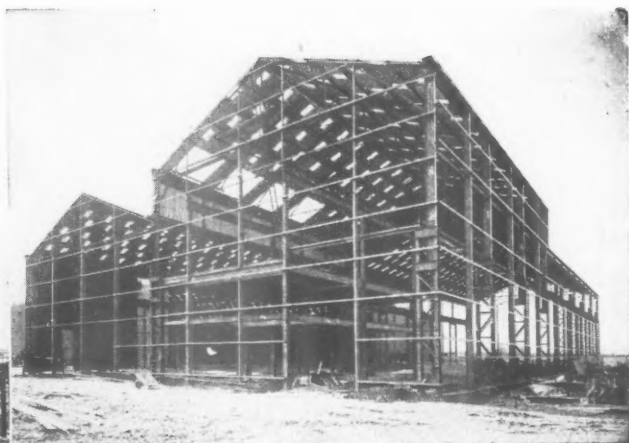
*Armstrong's Accotile is a composition of inert asbestos fibres and ground rock fillers, fadeless mineral pigment, and asphalt or resin binders, supplied in accurately-cut tiles (sizes 12" x 12", 9" x 9" and 6" x 6"), border strips, etc. With 20 years' successful experience in America behind it, it is now manufactured in England at the Tyneside factory of the Armstrong Cork Company Ltd.*

# ACCOTILE\*

*"The low-cost floor with the luxury look"*

\* British Registered Trade Mark 663698. Armstrong Cork Co. Ltd., Registered Users

# STRUCTURAL



# STEELWORK



BY

# AUSTINS

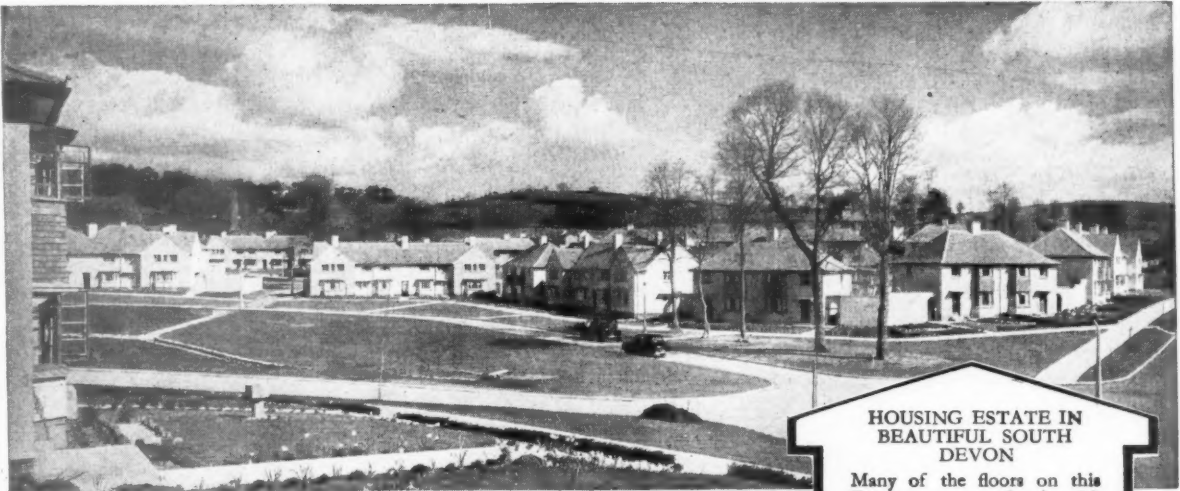
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BEAUTIFUL SOUTH  
DEVON

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Estate were surfaced with  
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*by Bruce Martyn . . .*

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French Morocco & Tangier: Messrs. Henri Martin, 72, Rue de la Marne, Rabat, French Morocco.

Italy: Compagnia Finanziaria Industriale & Mercantile S. a R. L., 11, Corso Sempione, Milan, Italy.

*Our Technical Staff are always ready to advise on your problems*

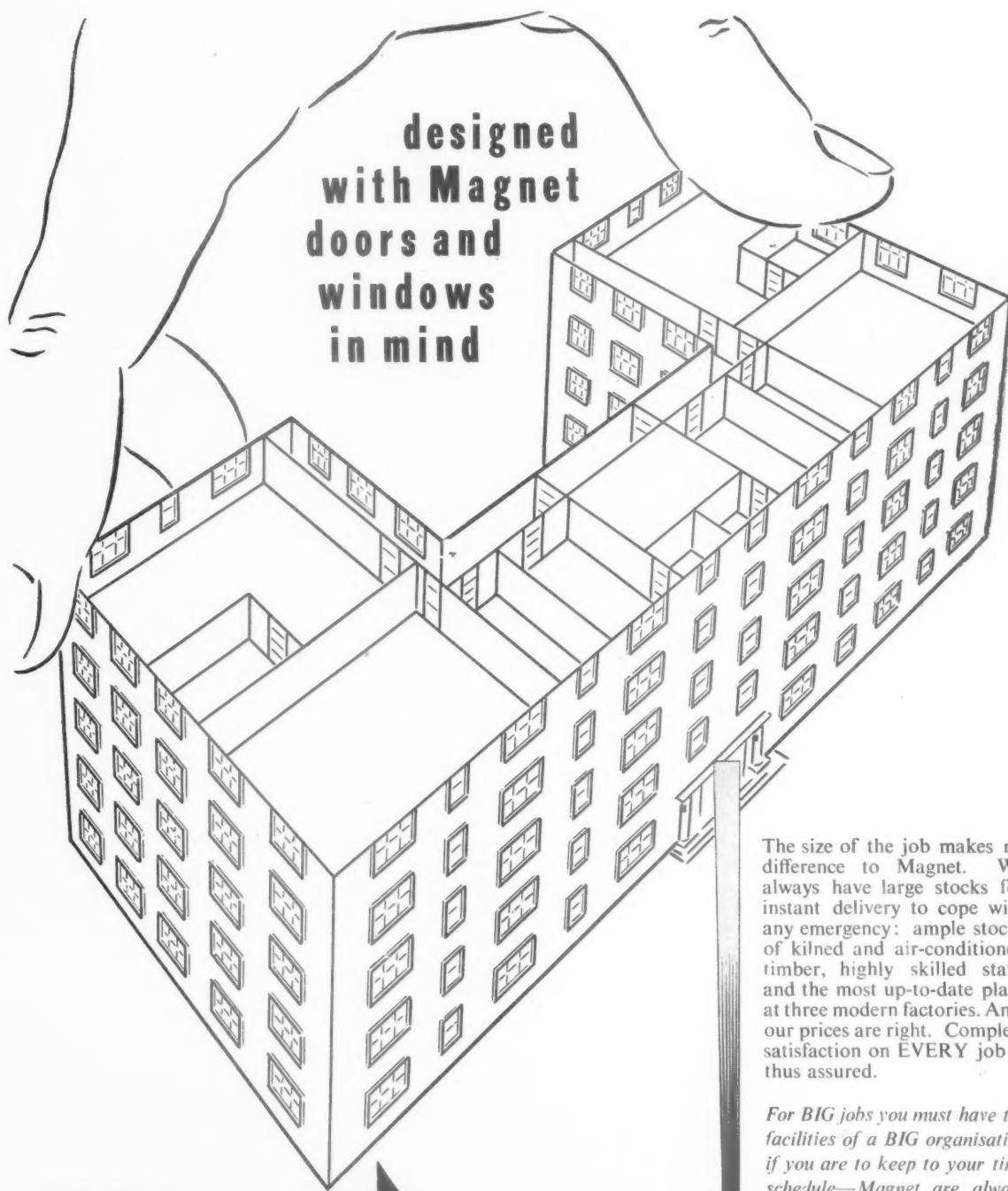
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SPECIALISTS IN INDUSTRIAL AND DOMESTIC FLOORING

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INDUSTRIAL FLOOR  
LAID IN A VERY LARGE  
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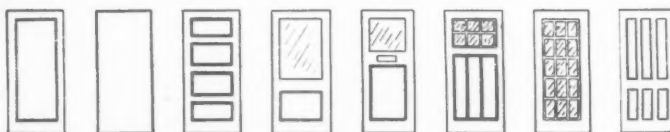
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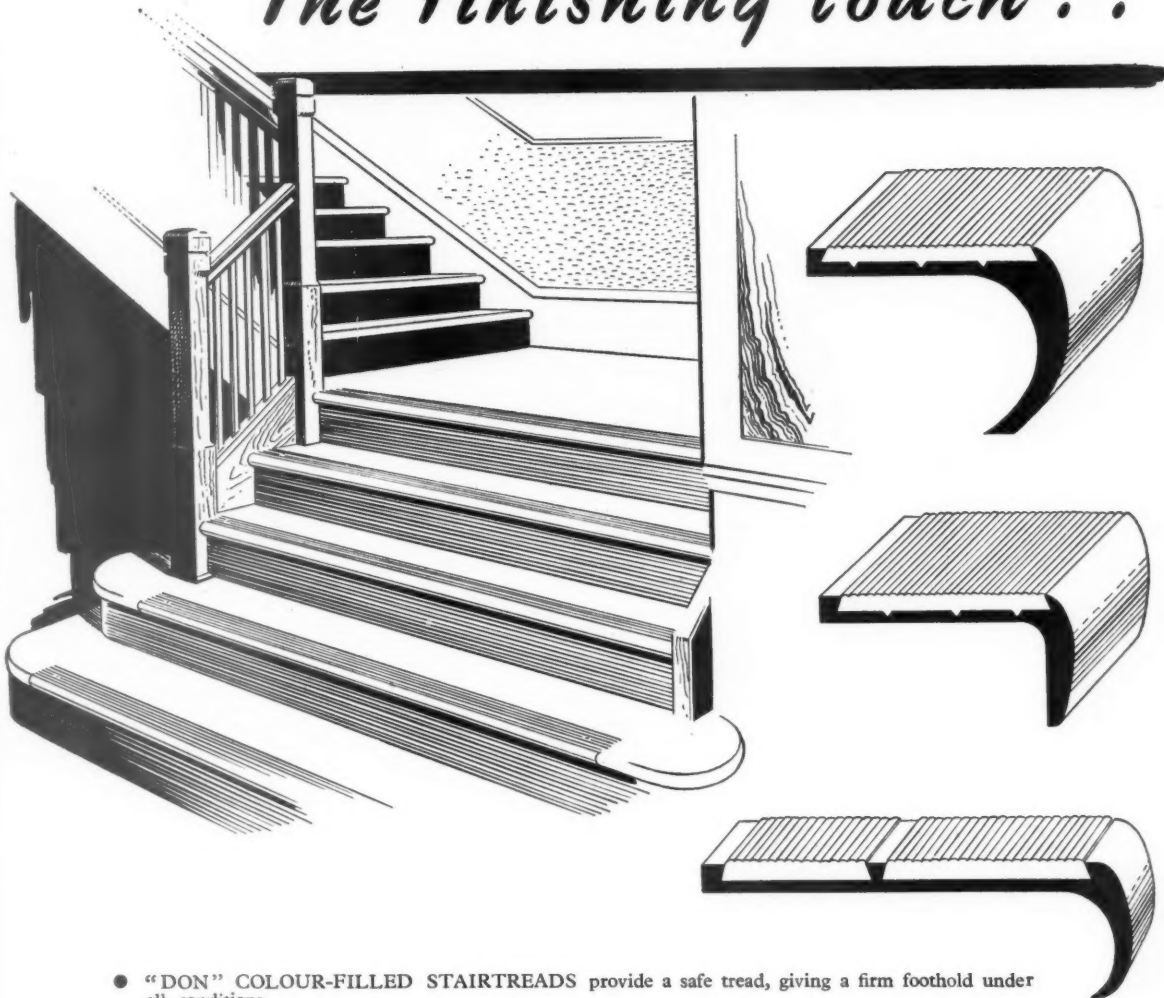
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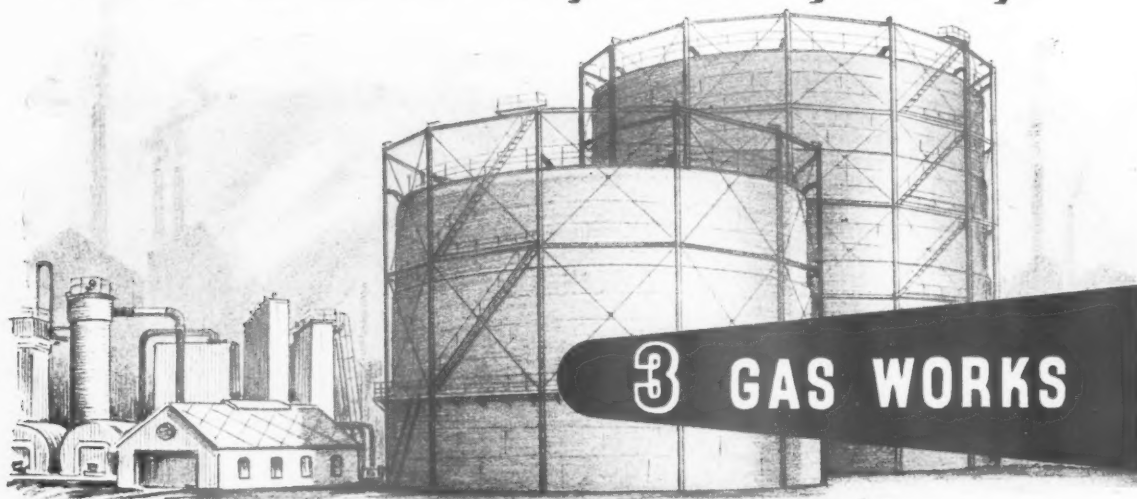
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It is significant that much of his equipment bears the encircled **S** and super-  
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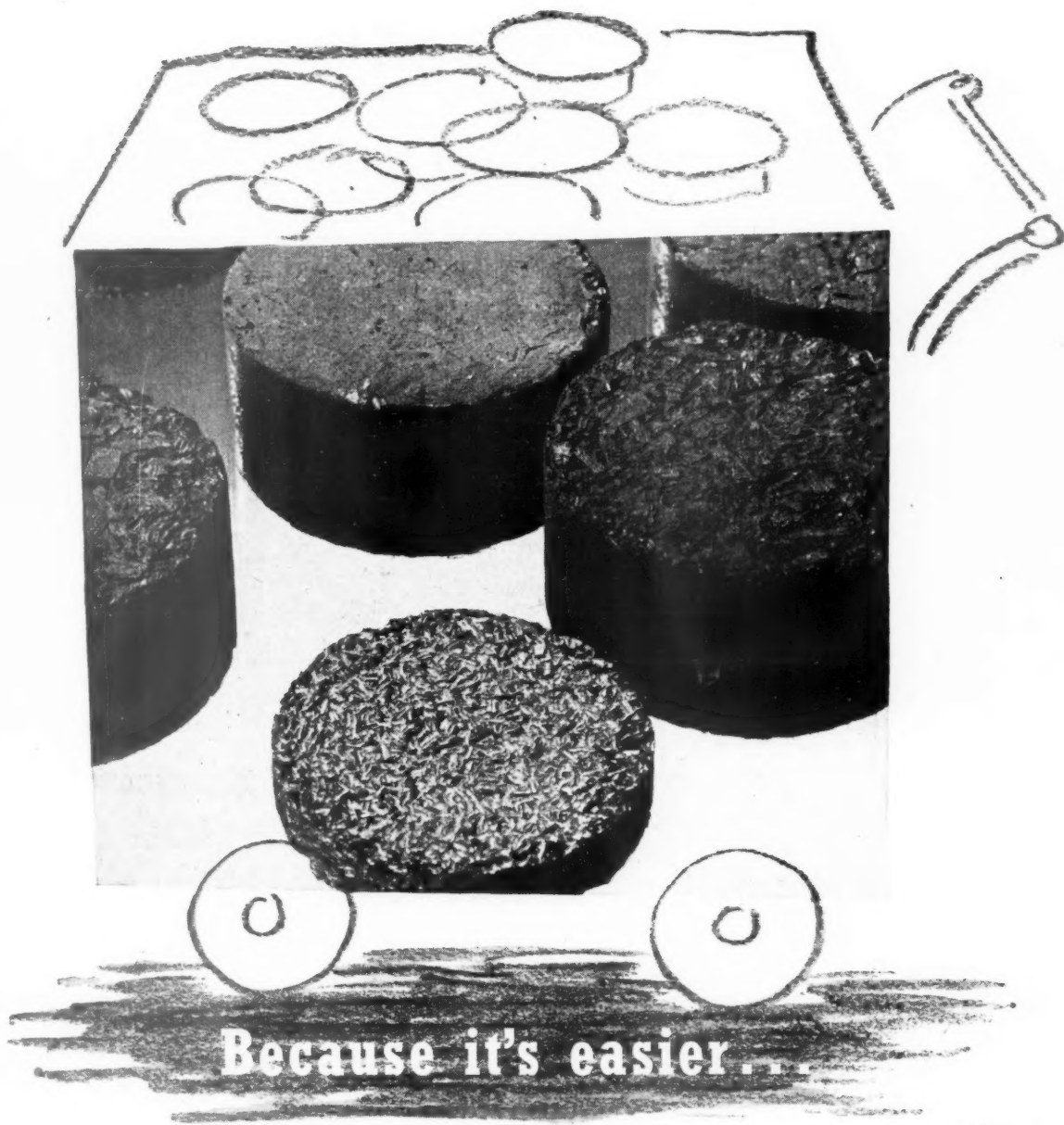


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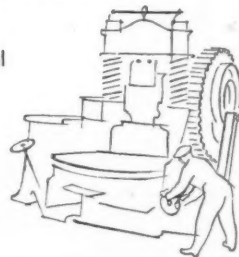
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The highly experienced staff of experts at Carron is always ready to assist in selecting the equipment most suited to specific needs. Cooking installations utilising electricity, gas, steam, oil or solid fuel—there is Carron equipment for every requirement. May we send you full information about the comprehensive range of Carron installations and our Advisory Service?

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**CARRON ELECTRIC FISH FRYING SUITE**  
Two deep pans of polished mild steel, welded construction and fitted with gunmetal draw-off cock • 3-heat rotary indicating switches with fuse and pilot lamp to each circuit • Vitreous enamel finish.

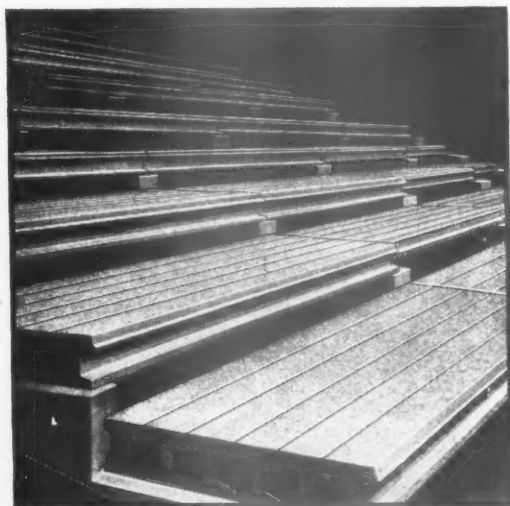
**CARRON ELECTRIC BAKING OVEN** • Constructed of cast iron and sheet steel, heavily insulated • Baking sole formed by firebrick tiles bedded with cement into a cast iron frame • Baking compartment fitted with thermometer and ventilator • Vitreous enamel finish.

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Precast units of Approx. "I" section, designed for all loading conditions and for both simply supported and continuous spans.

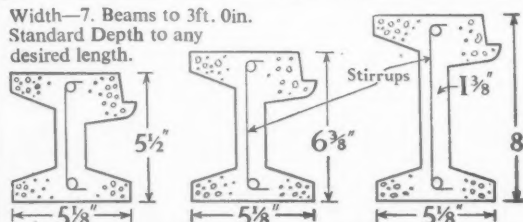
Floor thicknesses are constant over a wide range of spans. Interlocking lips render the floor homogeneous. Soffits are flush and even. Trimmings and Cantilevers can readily be provided.

Special bearings are not required, and our gangs fix straight from the Transport lorry.

The specified load is carried immediately and the floor at once provides a clear uninterrupted working platform for all following trades.

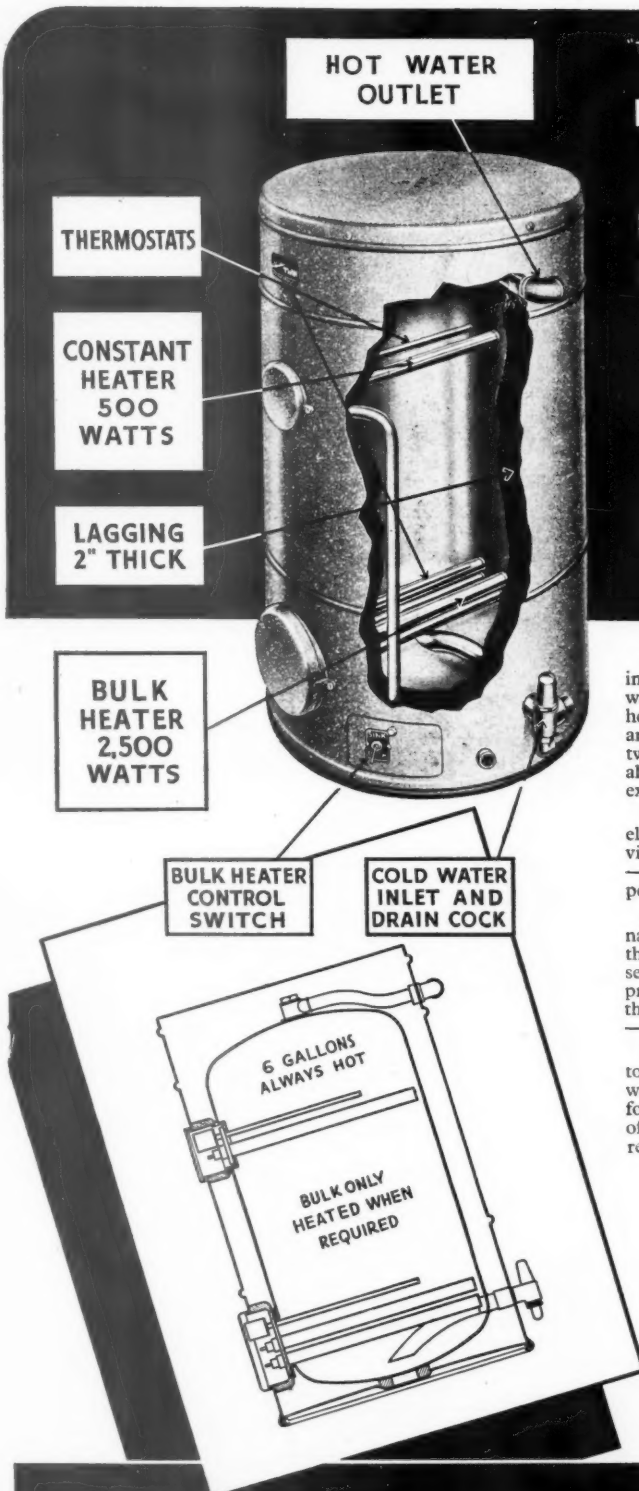
Quotations for supply, or supply and fix as desired. Deliveries commence 6 weeks after approval of working drawings. Technical booklet free upon request.

Width—7. Beams to 3ft. 0in.  
Standard Depth to any desired length.



"TWIN" INFORMATION SERIES No.1.

# THE INSIDE STORY of the *Charlton* "TWIN" DUAL-PURPOSE ELECTRIC WATER HEATER



The *Charlton* 'Twin' is essentially two water heaters in one—one heating unit ensures 6 gallons of very hot water being always available, and a second, booster, heating unit steps up the supply when larger quantities are wanted for baths or clothes washing. By having two independent heating units, the 'Twin' provides all the hot water required at all points without the expense of keeping large quantities constantly heated.

This scientific design also enables the normal electricity load to be reduced to 500 watts—a point of vital importance in the Nation's electricity economy—the bulk heater being used primarily in "off-peak" periods.

The design of the *Charlton* 'Twin' is based on the natural tendency of hot water to rise. This enables the water above the top element to be heated to the pre-set temperature, while the water below remains practically cold. Operation of a foot switch brings in the booster heating unit to heat quickly the full contents—15 or 20 gallons according to model.

Of course the 'Twin' has all the advantages common to electric water heating systems—no dirt, no labour, no waste heat, no chimneys, etc.—and is equally suitable for houses, flats and 'conversions'. Ask for your copy of Publication HD 20—it gives all the information you require.



*We need  
lots of  
hot water*

*ABNE* Product  
OF JOHNSON & PHILLIPS LTD.

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## 4: POWER STATIONS

The new generating stations are of massive proportions and necessarily conspicuous. They have received much thought from the aesthetic standpoint, and the bricks used have been carefully selected to harmonise with their surroundings.

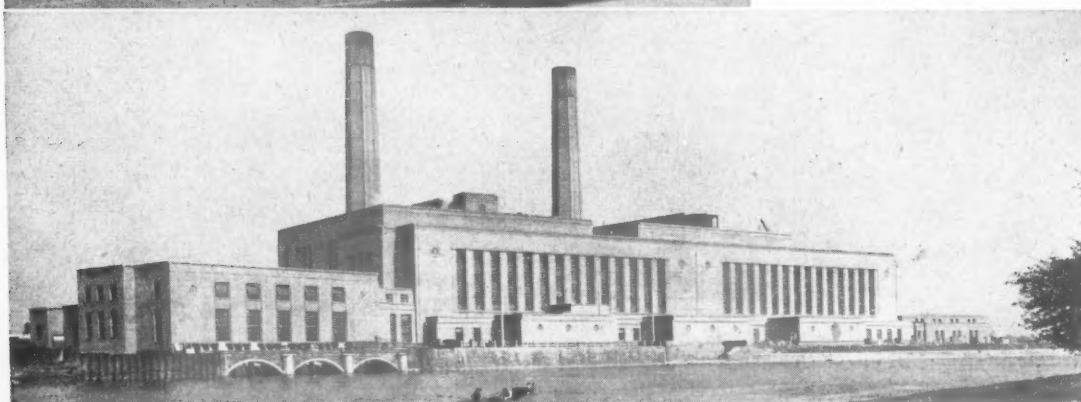
The high-priority requirements of the British Electricity Authority, added to the urgent demands for Houses and Flats, Schools, Office Blocks, Industrial and many other types of building, have taxed the resources of the brick industry. Production is increasing in the face of many difficulties, and a steady improvement in the supply position is assured.



*Above:* Portion of Croydon Power Station, under construction.  
Architect: Robert Atkinson, F.R.I.B.A.



*Left:* Stourport 'B' Power Station.  
Architects: Farmer & Dark, F/R.I.B.A.



*Below:* Staythorpe Power Station.  
Architect: T. Cecil Howitt, D.S.O., O.B.E., F.R.I.B.A.

# BRICK

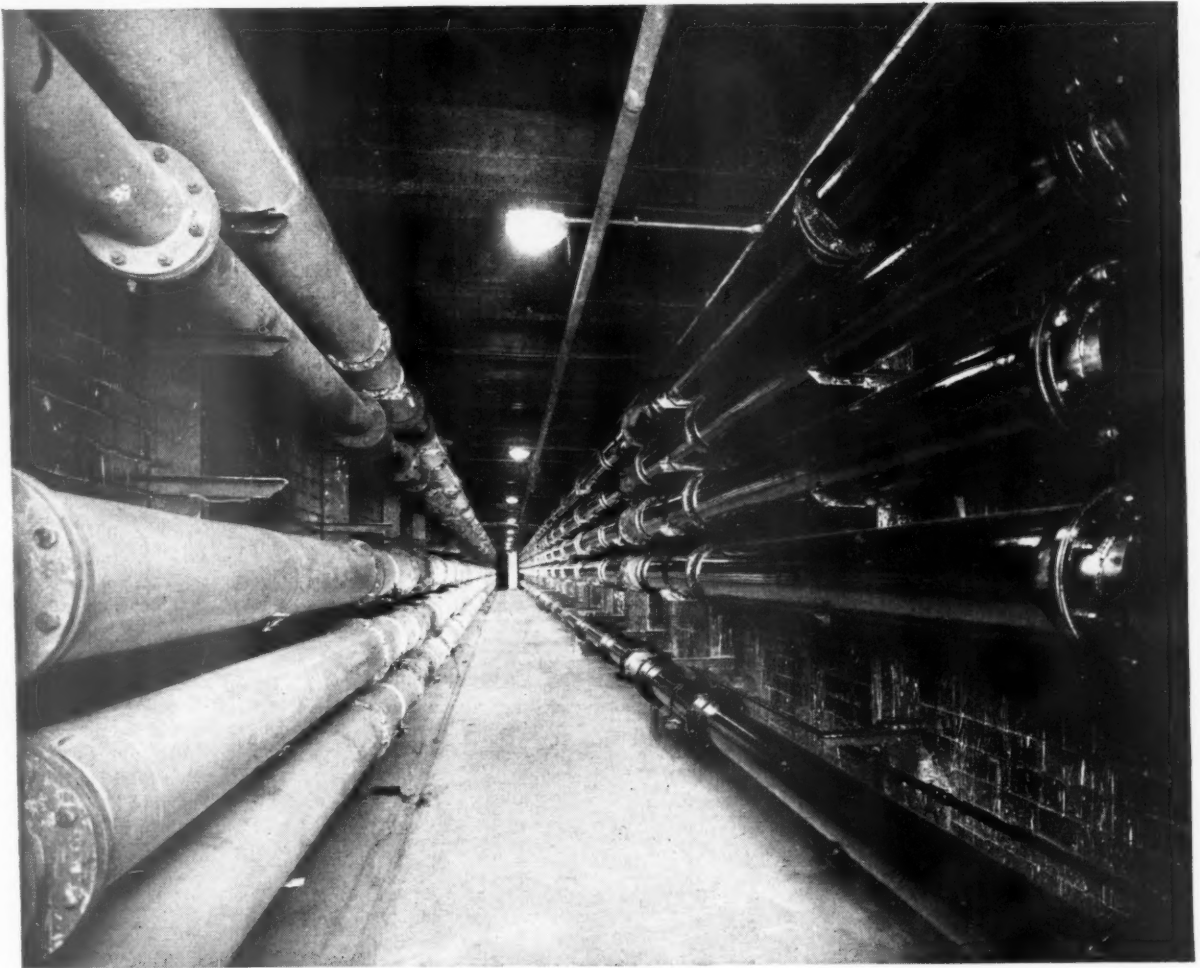
*The Modern Building Material*

Photographs  
by courtesy of  
British Electricity Authority

Issued by  
The National Federation of Clay  
Industries, Drayton House, W.C.1



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Factory of Messrs. Courtaulds Ltd. at Carrickfergus, Northern Ireland.

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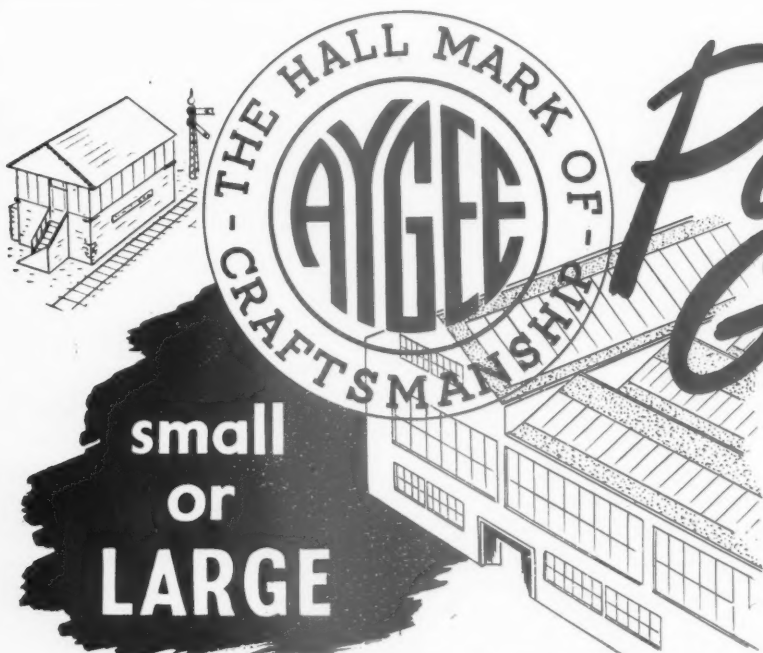
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# A THIRD New All-glass 'VENTIBLOCK'

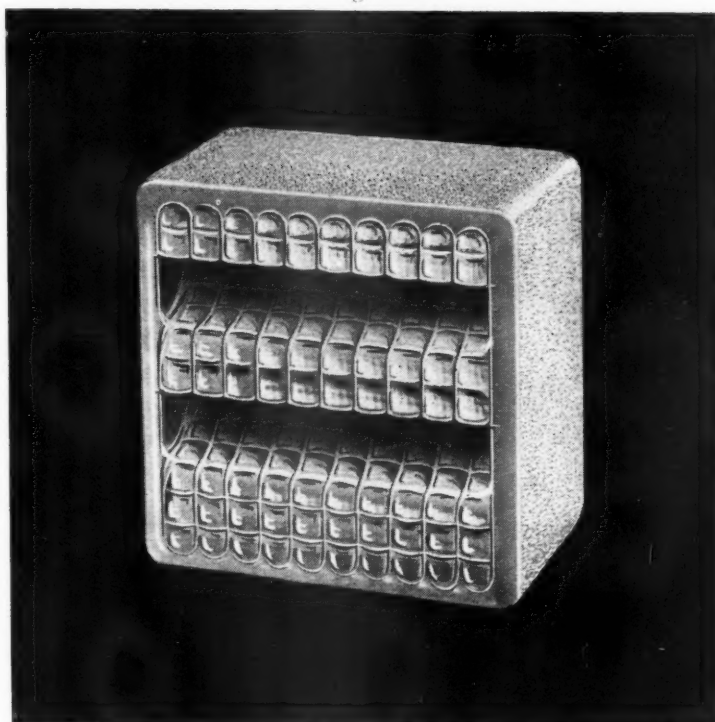
$5\frac{3}{4}" \times 5\frac{3}{4}"$

To match the smaller  
Hollow Glass Block  
PB 2

The 'Ventiblock' solves the problem of ventilating Glass Block installations. It is also widely used independently where permanent ventilation and light transmission are required.

The two patterns already announced, Type 3 with vertical flutes and Type 32 with vertical and horizontal ribs, are now followed by the introduction of Type 2, also with vertical and horizontal ribs, as illustrated.

There is now a 'Ventiblock' to match all 'Insulight' Hollow Glass Blocks.



Type 2: Size  $5\frac{1}{4}" \times 5\frac{1}{4}" \times 3\frac{7}{8}"$ .

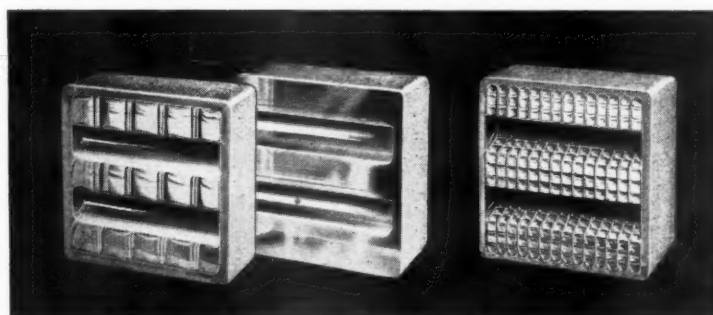
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'VENTIBLOCK'

Incorporates two air passages; internal baffles prevent a direct draught without impeding the free flow of air, exclude driving rain, and obscure vision. The new patterns have a FLAT BASE, facilitating fixing, and are also designed to receive a detachable ANTI-FLY SCREEN, which can be supplied if required. An OPENING AND CLOSING DEVICE is in course of development.

The 'Ventiblock' is supplied through the usual channels.



Type 3: (Fluted on one face).  
Size  $7\frac{1}{4}" \times 7\frac{1}{4}" \times 3\frac{7}{8}"$ .

Type 32: Size  $7\frac{1}{4}" \times 7\frac{1}{4}" \times 3\frac{7}{8}"$ .

Patent Nos. 552195 583552. Further patents pending.  
Designed by Lethieullier Gilbert, A.I.A.A., L.R.I.B.A. and  
L. James Hobson, A.R.I.B.A.

SEE OUR EXHIBIT AT THE BUILDING CENTRE, OR CONSULT CLASSIFILE No. 20

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An illustrated booklet on construction, features, finish and services will be sent you on request.

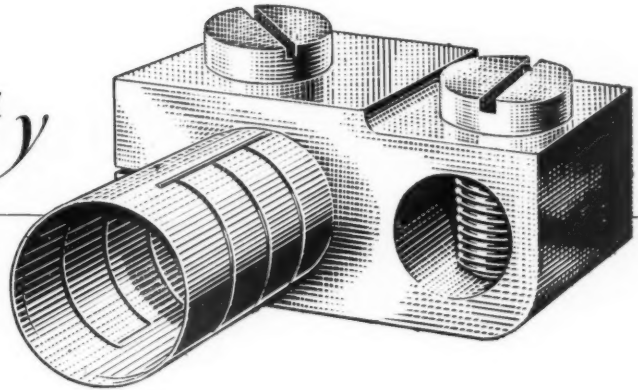
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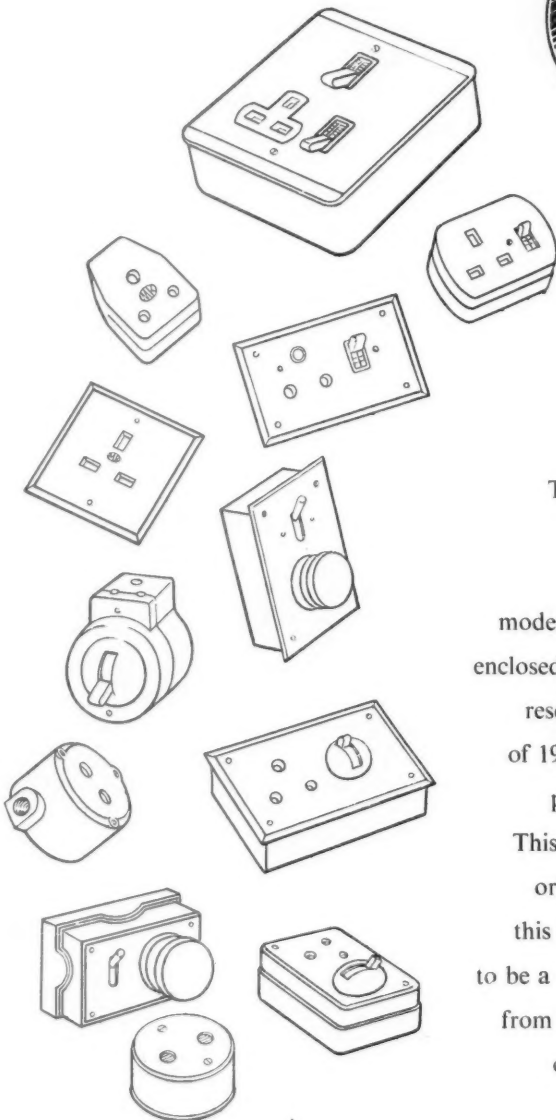
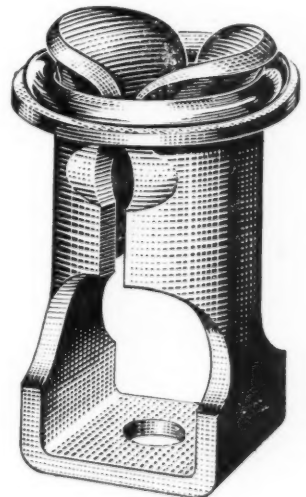


In 1919 we took out our first patent and named it the "Multy-Kontakt" Socket.

The principle was an entirely new one. Until that time socket-tubes had been very crude, and were quite incapable of coping with the ever increasing currents which domestic accessories were required to carry.

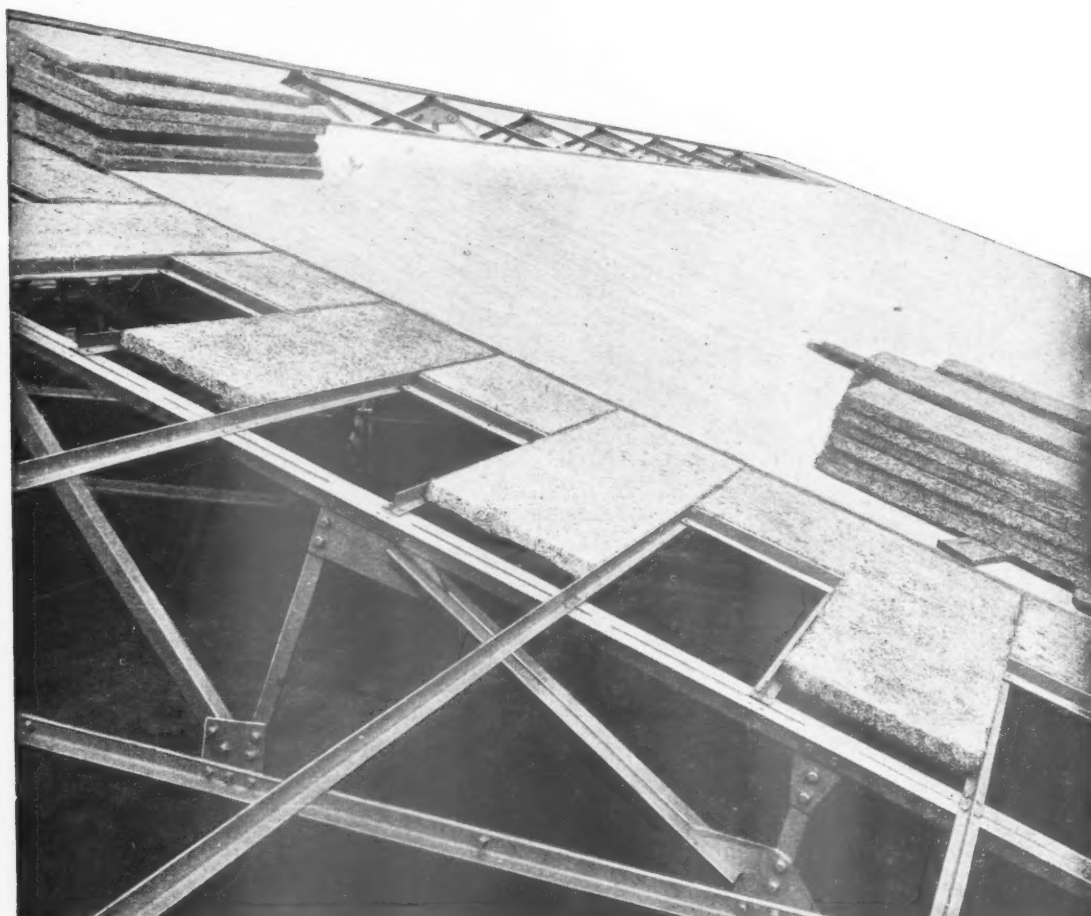
The new socket revolutionised accessory design and performance. Over the years improvements were made on that first patent, so that the modern MK socket with its separate tongues enclosed by a solid ring bears little resemblance to the split tube of 1919, although the principle is the same.

This invention, typical of the original thinking which gave this house its name, proved to be a veritable cornucopia from which poured a multitude of fine accessories.

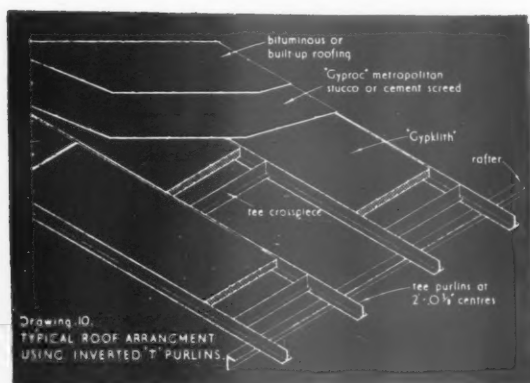


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*Typical roof arrangement using inverted "T" purlins*

In the building illustrated, GYPKLITH is supported between purlins of inverted "T" section, spaced at centres equal to 2 ft. plus the web thickness and bolted direct through the flange to the trusses.

The top surface of the GYPKLITH is screeded with GYPROC Metropolitan Stucco ready for finishing with bituminous roofing.

The underside of the GYPKLITH is left untreated in order not to impair its sound absorbent properties. A relatively smooth finish can, however, be obtained by brushing GYPKLITH Surface Filler over the underside of the slabs before fixing in place.

The thermal transmittance "U" value of this roof construction, using 3" thick GYPKLITH, is 0.15 B.Th.U's per sq. ft. per hour per 1°F difference in temperature.

Further information about this and other GYPKLITH products or systems will gladly be supplied.

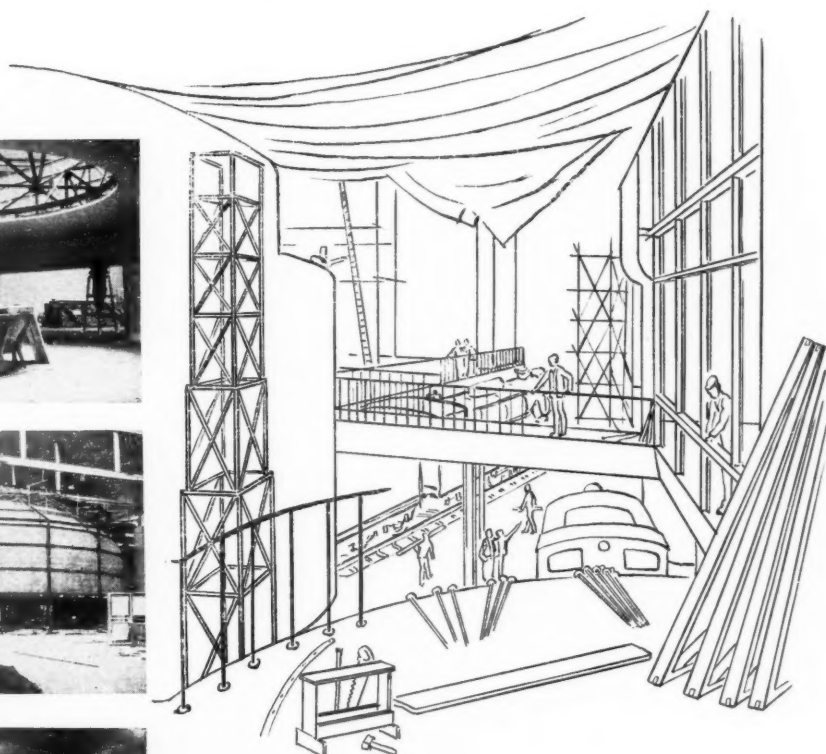
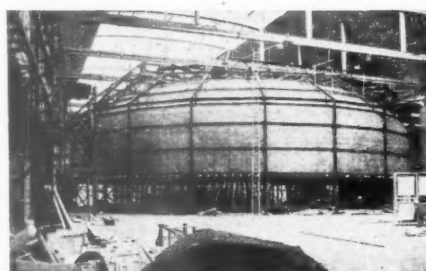
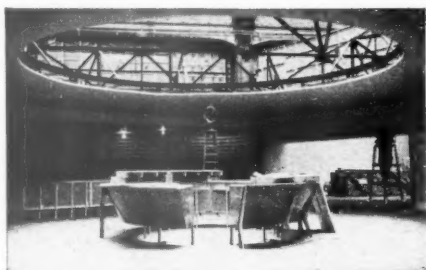
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THE ARCHITECTS' JOURNAL

No. 2945 9 AUGUST 1951 VOL 114

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## MAKING EXHIBITIONS OF OURSELVES

I understand that in this week's JOURNAL the editors have commented on the numerous architectural exhibitions that are being staged throughout the country as part of provincial Festival programmes. I am prompted to add my own comments on this subject, for I have just received a note from the Institute of Registered Architects telling me that its touring exhibition opened this week at Croydon town hall and will shortly appear at six other places in the London area. Mr. Ward, the IRA's secretary, tells me that this tour has been made possible partly because of a response from local councils to my suggestion that halls should be made available, free of charge, for such an exhibition.

\*

I have not yet seen the exhibition at

Croydon, which remains open until August 18. (See diary on page 166 for details of other places to be visited.) But whatever the quality of the display, which has been designed by Michael Rachlis, I must congratulate the IRA on its initiative in doing something which, as I have said before, the RIBA should have done a long time ago. I hope that after I have been to Croydon, I shall be able to congratulate the IRA on formulating a better exhibition technique than that used by the Royal Institute when it tries to capture the layman's interest.

\*

It is difficult, I know, to convince the lay public of what is good in contemporary architecture by means of photos and models alone. I have been astonished to find how quickly the most ardent *Evening Standard* readers will become South Bank enthusiasts if they are dragged forcibly on to the exhibition site and guided firmly around it, with only an occasional whispered hint as to the effects architects have tried to achieve. With this in mind I am sorry that the building of the Lansbury Neighbourhood is not further advanced. This Live Architecture Exhibition would mean far more to the average visitor if he were more able to sense the carefully designed relationships of multi-storey buildings to smaller dwellings.

\*

However, the next best thing to giving the layman a "live" exhibition is to show him competently designed buildings in or near his own town, whenever it is possible to do this. Here again I must commend the IRA for securing the enthusiastic assistance of a group of local architects, who have prepared a special section at which

local work is being displayed. I hope the IRA will find the same help elsewhere. And I hope it will have offers of accommodation from other local authorities, for now that the Festival season has helped the architect to display his work to the public we need an official body to make sure that the public is not allowed to forget him.

## YOU MAY, BUT YOU CAN'T

I wonder just what the Board of Trade was trying to do when it withdrew the licensing system for export of steel windows, pipes, tubes and rainwater goods. Surely all these things are absurdly short anyway, and it seems folly to export them for anything but dollars. In its official explanation the BOT points out that with steel allocations it is unlikely that any notable exports will be possible and that . . . "if so, the licensing system may have to be reintroduced. . . ."

\*

This seems to me to say, in effect . . . "I'll allow you to do this now because I think it's become impossible, but if I find you *can* then I'll have to stop it." I suppose somebody can now say in Parliament that another control has gone.

## ABSOLUTE SHAMBLES

It's a long time since I had anything pleasant to say about the British Railways; so don't let me spoil things by saying something pleasant now. Let me, instead, call your attention to the photograph at the bottom of page 153. You may think there is something a little odd about meat being sold in a railway information office. Certainly that *would* be odd. But the fact is that this shop in which you can look up your train times is out of joints. (O cursed spite!) All it offers are

# ST. BRIDGET'S HOUSE

(Illustrated in this Issue.)



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dummy carcasses and a boar's head "as an interior decoration." "Why," you may ask, "should such decorations be chosen?" You will realize the answer to that question immediately I tell you that the shop is located in the Shambles, York.

\*

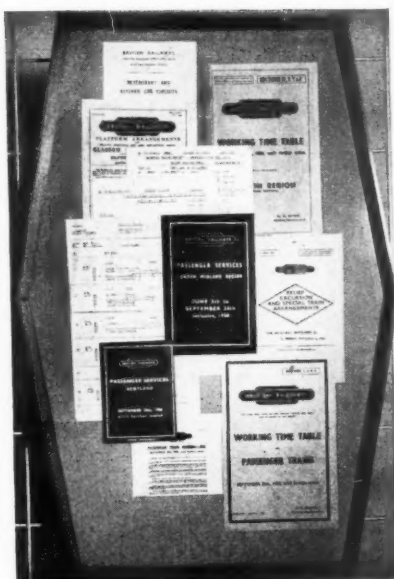
British Railways, as you have guessed, are maintaining their interest in the country's traditions. (Remember the olde tavern carriages two years ago?) For a thousand years there have been butchers' shops in the Shambles. Why, then, should there be any break with tradition? If the British Railways are to enter the Shambles they must make it an Absolute Shambles or nothing at all.

\*

"It's dreadfully confusing," said Alice. "That's the effect of living backwards," the Queen said kindly: "it always makes one a little giddy at first."

#### GILL SANS EVERYTHING

It is strange that British Railways who are sometimes moved to recapture past glories should appear so proud of such "progress" as may be found in their designs for time tables and leaflets. There is something rather smug about the two contrasting panels shown above which appear side by side at the Festival Exhibition of Industrial Power at

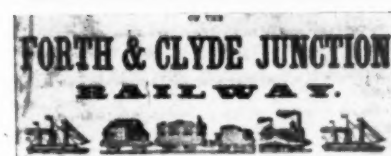


*Railway posters at the Exhibition of Industrial Power, Kelvin Hall, Glasgow. See note below.*

Kelvin Hall, Glasgow. The robust qualities of the handbills issued in Victorian times is emphasized by the enlarged photograph beneath them. Nothing is needed to give emphasis to the fact that the contemporary handbills shown are without character or distinction—in fact, Gill Sans everything.

#### PEVSNER'S-EYE VIEW

It seems only yesterday that I was recommending Nikolaus Pevsner's



book on the 1851 exhibits. And now I have to do the same thing, with the same warmth, for his *Cornwall and Nottinghamshire* in the new Penguin series, "The Buildings of England."\*

\*

When I first heard of this project, which entails the listing of every building of beauty or interest in the country,

\* Penguin Books 3s. 6d. each.

When Astragal received this photograph he remembered his assault on British Railways for providing passengers with Tudor tavern cars and suspected that someone was trying to pull his leg. It was surely not possible that the railway executive would sponsor such quaintness without its tongue in its cheek. But a Press hand-out, headed "A Modern Service in a Mediæval Setting," showed that the executive was in earnest. Astragal comments above and reproduces a photograph on page 155 which shows that British Railways are not always romantically inclined.





## *Festive Sculpture?*

The Festival of Britain has provided us with two examples of the gigantic in sculpture: Charoux's Islanders on the South Bank and Thomas Whalen's symbolic bas-relief shown here. It cannot be mere coincidence that both depict the working classes, but why are they executed in the same heavy-footed style? Charoux's group gazes, dull-eyed, across the river, half swallowed in a stone

monolith like human fossils. The same expression of a blind, toiling, leisureless life can be seen in Whalen's work. It may portray the Ideal Man, gloriously muscle-bound, but why the mechanical rigidity of his stance? Why the grotesque grip on his diminutive coal-pick? Should we not have less high seriousness in this Festival year, and more joyful love of life?

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I was filled with admiration for its boldness. When I learned that it was Professor Pevsner's intention actually to visit every such building for himself (and a rapidly growing dossier of reports from certain of my rural spies showed that he was in the process of doing so), admiration ran over. Yet it never occurred to me that the scheme involved anything more than descriptive inventories, on the lines of the invaluable but infrequent volumes of the Royal Commission on Historic Monuments—even if not subject, as they have been so far, to a statutory decision that history stopped in 1714.

\*

I reckoned without the Professor. Inventories these books are, and wonderfully detailed ones. (How nice



*Astragal compliments British Railways on modernising their Piccadilly Circus information office, which stands on the site of a famous coaching inn, without using a similar technique to that shown on page 153. The architect was J. M. Harrison, of British Railways' London Midland Region.*

to find the good old English tradition that church plate is architecture maintained!) But they are much more than that. On every page one is continually made aware—sometimes by a sentence of comment, sometimes by as little as a single word, sometimes even by what isn't said—of learning, intelligence and taste of work, placing, testing and assessing. So far as architecture is concerned, this series will relegate most other guides to the status of picture books. And even in that class, with 193 photographs between the first two volumes, it will be able to hold its own.

ASTRAGAL

## The Editors

### ARCHITECTURE REACHES THE PUBLIC

**B**EFORE the year 1951, visitors to this country often said that the English were an unassuming race. We were told that, when lauding something to the heights, our expression would be that it was "not bad," or even that it was "rather good." We were summed up as being unostentatious and having a modest dislike of self-glorification.

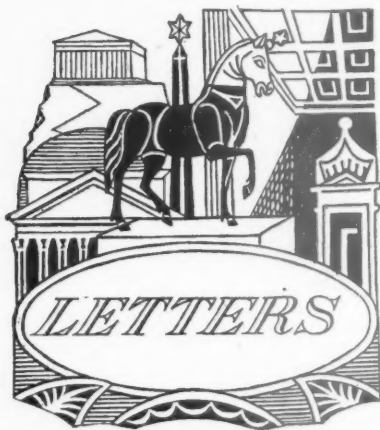
One wonders what our visitors are saying now. With a full-scale Festival on our hands, causing us to exhibit ourselves and our handiwork in every nook and cranny in the country, there has never been such a chance for boasting. A remarkable product of this Festival is the apparently inexhaustible number of things we have unearthed for show purposes. There are exhibitions of old documents, county histories, relics of the famous, the infamous and the unheard-of. All have been collected and displayed. There is even an exhibition of exhibitions. One of the most fruitful sources of subject-matter has been craftwork, chiefly rural; and industrial products, more or less well designed, have also been popular. Architecture, which enters into most human activities, has been prominent in nearly every exhibition. It is true that in many cases there has been too much emphasis on past glories—a dangerous thing, for it encourages the public to think of architecture in terms of the neo-classical. Nevertheless, most cities have something new—however small—to show to the layman as an example of contemporary architecture. And the layman is more likely to be interested in the art of architecture if he sees something that has been built in his own locality than if he is merely shown a general display of buildings that have been constructed since the war.

For the architect, the renewed interest of the public in his work is something to be encouraged. With the state departments and the local authorities as the chief clients, the opinions of the public, which is, after all, the ultimate recipient of all buildings, have often been distressingly overlooked. A docile and uncritical public, even if it is denied the voice of authority, can never be conducive to a high standard of architectural design. The architect would be the first to recognize this and to lament the lack of stimulating comment which his work should receive. Significantly enough, the architect has been the first to suggest the remedy.

We recently described the exhibition of the Royal Society of Ulster Architects. Its chief aim was to stimulate public interest in good contemporary architecture. In several other provincial centres the same note has been struck. Cheltenham recently saw an exhibition of Regency architecture and new work, staged by the Gloucestershire Architectural Association. In Aberdeen the City Corporation held an exhibition of housing, health and welfare, in which the new development plan was shown to the public. Last week we showed photographs of a similar display in Coventry, while in this issue there is an account of the Canterbury Festival exhibition,

which includes details of the City's rebuilding programme and will probably be reckoned among the most imaginatively designed exhibitions of the year.

What will be the result of this new publicity campaign? It is too early to gauge its lasting effects upon the public, but it can be said that there has been a re-awakening of interest. Instead of thinking in terms of housing figures, with all the attendant "goals" and "targets," many people may now be able to think more intelligently about standards of design and planning. While waiting patiently at the bottom of the list for new houses, they can decide why one type of house fits them better than another. And there are those amongst them who will voice their opinions out loud. Let us hope that the success the architect has had in reaching the public this year will continue and prove to be one of the many rewards that we may expect to reap from the Festival of Britain.



Stephen Garrett and Geoffrey Hobbs.

J. W. Howes

"One Who Punts From the Right End"

### Astragal—"A Victorian of the First Magnitude"

SIR,—If Professor Pevsner can be trusted to analyze the 19th Century architectural "attitude," ASTRAGAL qualifies as a Victorian of the first magnitude. He gives his blessing to the LCC schools from the "design standpoint" implying that more than a cursory glance might reveal weaknesses in something else—such as function?

STEPHEN GARRETT and  
GEOFFREY HOBBS.

### Another Ancient Building "Improved"

SIR,—I noted your remarks about the "improvements" to Lulworth Castle (AJ, July 12). Your feelings might also be aroused

if you could see the damage being done to the ruins of Copped Hall in Essex. Once in a very "pleasing state of decay" this hall (which I think was changed by James Wyatt) is now being stripped of all its stone work, most likely to make suburban sun dials!

I can remember the grounds overgrown, and as lovely as Lulworth used to be; now all the stone steps, balustrades, and fountains have been pulled down soon to leave nothing but an ugly, brick shell.

J. W. HOWES

Walthamstow

### No Credit for the Architect

SIR,—I have no doubt that when your contributor, ASTRAGAL, visited the Royal Show Cambridge he noticed the design of the Mayor's Pavilion (photograph below).



This pavilion attracted a good deal of admiration and publicity, the press attributing it to the city surveyor, no mention being made of the architects of his staff, who were obviously responsible.

Surely here is yet another glaring example of the need for a separate city architect's department, particularly in a university town with a large programme of schools, houses, flats, shops, and a multi-storey car park.

"ONE WHO PUNTS FROM THE RIGHT END."

The EDITORS reserve the right to shorten letters from readers. Whenever possible, however, they are published in full.



### MOLGP

#### Welsh Office to be Opened

The Minister of Local Government and Planning, Hugh Dalton, has decided to set up in Cardiff a Welsh office of his department to administer the planning functions in Wales and also the housing and local government functions hitherto carried out by the Welsh Board of Health.

He has appointed William Thomas, formerly a member of the Welsh Board of Health, to take charge of the Welsh Office, with the rank of Under Secretary.

The headquarters of the new office will be in the Welsh Board of Health building at Cathays Park, Cardiff.

### BATTERSEA

#### Sculpture on View until September

The LCC Parks Committee has decided to keep the Battersea Park Sculpture Exhibition open until September 30. By July 26 nearly 67,000 people had visited the exhibition.

### KENT

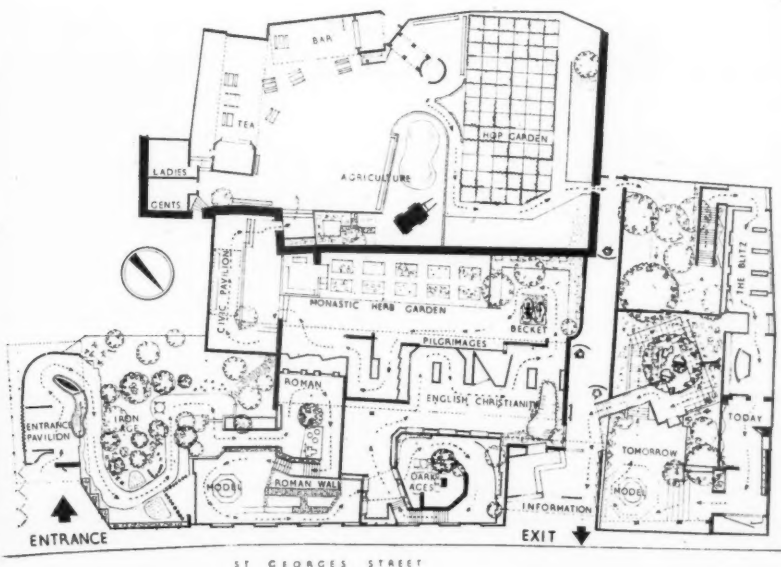
#### A Touring Exhibition

An exhibition, *Kent of Tomorrow*, arranged by the Kent county council will be taken to tour eleven towns in the county, starting from next week. The purpose of the exhibition is to make the people of Kent familiar with their county's development plan which is being sent to local authorities for their final views before the county council is invited to adopt it in November.

The following are the times and places when the exhibition may be seen:—August 15 to 18: School of Art, Pelham House, Bouverie Road East, Folkestone. August 22 to 25: Thanet School of Arts and Crafts, Hawley Square, Margate. August 29 to September 1: School of Architecture, St. Peter's Lane, Canterbury. September 5 to 8: Old Grammar School, Church Yard, Ashford. September 12 to 15: King Charles Hall, Warwick Park, Tunbridge Wells. September 19 to 21: Public Library, High Street, Bromley. September 26 to 29: Public Library, Central Park Dartford.



section of the exhibition showing a map of Roman Canterbury, and the remains of the Roman house. The dividing wall of yellow, black and red flettons in the background, and the constantly changing levels, indicate the spatial quality of the exhibition. Left, below, the stairs leading to the heathen section symbolized by a copy of a pagan idol. (Continued overleaf.)





TOWNSCAPE ON A BOMBED SITE AT CANTERBURY:



In a courtyard, the friary wall forms a background for the plaster figures, extreme left. Below that is a view of the courtyard entrance. In the photograph on the left is a pair of hands carrying a model of the Cathedral and a sword to symbolize the balance between Church and State. Below, left, the end of the courtyard with flint walled grass seats in the foreground. Below, right, an arch leading to the agricultural section.



October 18 to 20: Public Library, New Road, Chatham. October 25 to 27: Public Library, High Street, Gillingham. October 29 to 31: Old Corn Exchange, High Street, Rochester.

## CUJC

### Architects and Fuel Policy

Eric Bellingham, director-general of the CUJC, stressed the importance of the contribution which architects and engineers associated with the building industry could make towards the development of a

balanced fuel policy in this country, when he introduced the CUJC's new book *Architectural Design Data for Solid Fuel* at a meeting held recently at the Building Centre, London. He outlined the aims of the CUJC which are to secure the most efficient use of solid fuel in the home and to encourage the best use of fuel from the point of view of the individual consumer and the nation through the replacement of old-fashioned fireplaces with the modern solid fuel appliances, which had twice the efficiency. He thought that there was a definite need for such a book as the one the council were introducing. Representatives of many architectural, engineering and building organisations were present, and

heard the author, John Pinckheard, describe how, because of the lack of literature on the subject, he had spent several months visiting many of the larger types of buildings to examine problems relating to solid fuel.

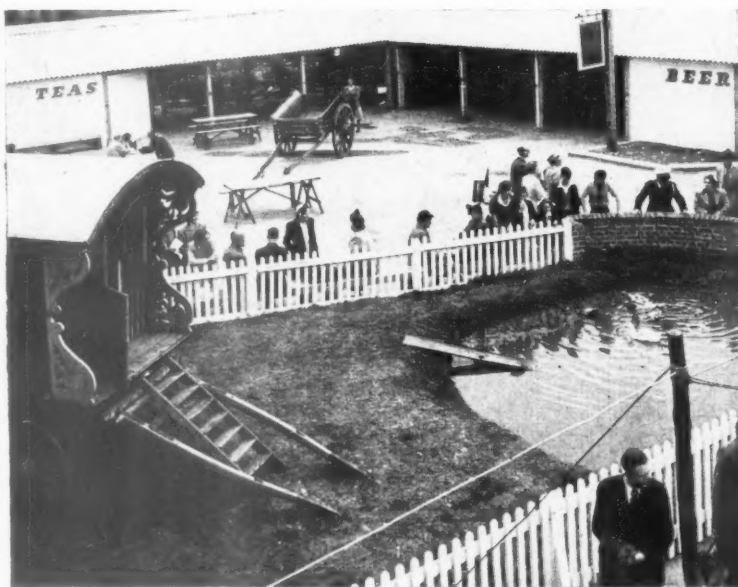
## AA

### Library Closing

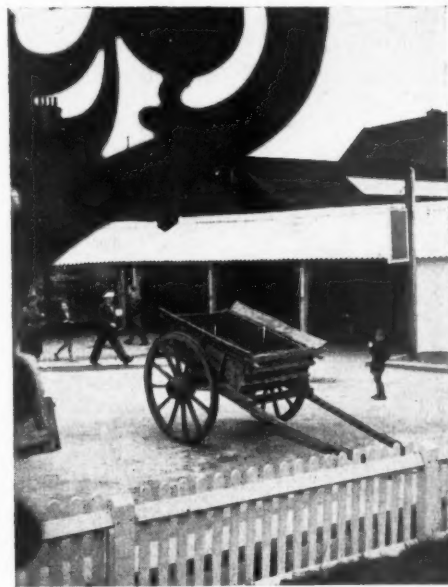
The AA library, 34, Bedford Square, W.C.1., will be closed from Friday, August 10 for one week and will not open on Saturdays during August.



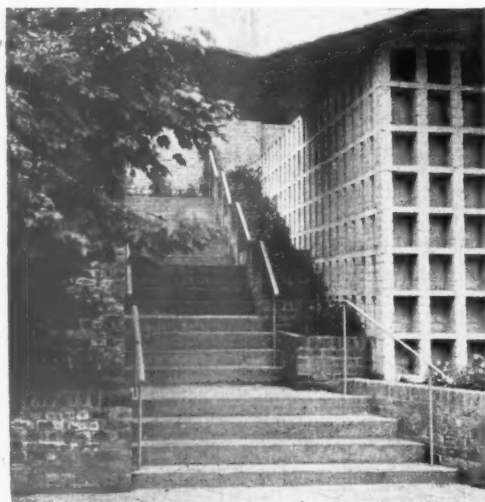
## EXHIBITION OF CITY'S HISTORY : 200 BC TO 1951 AD



*Above, a general view of the rural section where open cowsheds give shelter for teas and beer. The layout is informal with, in the foreground, a gipsy caravan drawn up to a duck pond. White and black paintwork is in the native rural tradition. Above, right, a closer view from the steps of the caravan. Below,*



*right, a model of Canterbury's City centre as it will appear when the rebuilding programme is complete. Beyond, and in the photograph below, left, the stairs, flanked with flowers and a decorative brick wall, lead up to a platform where the view of the Cathedral, seen in photo overleaf, can be obtained.*



## LCC

*Changes in School Building Programme*

In reply to a question by T. Magnus Wechsler at the meeting of the LCC on July 31, R. McKinnon Wood, chairman of the Education Committee, said that preliminary plans of the proposed comprehensive schools at Parliament Hill and Holloway had been submitted to the Minister of Education. The Minister, in a letter dated July 11, 1951, had stated that the resources available for educational building were not

sufficient to enable him to approve major projects designed to improve existing accommodation.

The Primary and Secondary Schools Sub-Committee had considered this letter and had decided that new schedules of accommodation should be prepared, based on the provision of 5-form entry "supplements" to the existing 3-form entry secondary schools, leaving for consideration at a later date the question of bringing this accommodation up to modern standards. The Minister in his letter had indicated that he would be prepared to consider proposals for carrying out essential work on the existing buildings.

Mr. Wood added that in view of the need

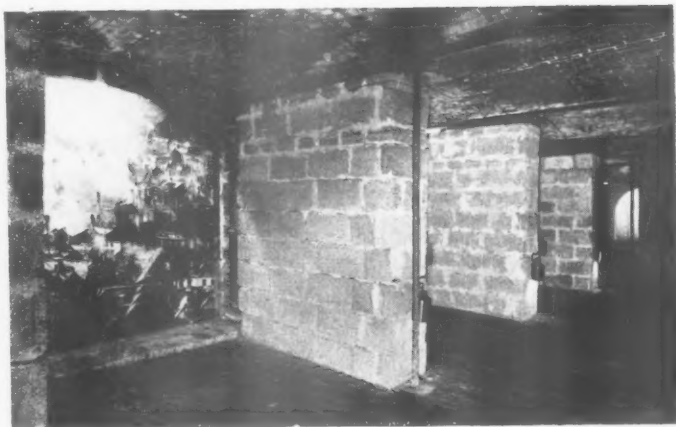
for replanning, it would not be possible to commence building work on these two schools during the current financial year. They would, therefore, be transferred to the 1952-53 building programme, and Putney Park Lane comprehensive high school would be advanced to take their place in the current programme.

## PECKHAM

*LCC'S Revised Proposals*

Following the Health Committee's report to the LCC in December, 1950, regarding the acquisition, conversion and partial equip-

CANTERBURY EXHIBITION (Continued)



Photographs: top, right, a reminder of the City's blitz experiences. Above, Archbishop Temple's affirmation, in gold letters, which is given concrete significance by the display of City rebuilding, shown on the right. Sub-contractors: page 180.



ment for health service purposes of the Pioneer Health Centre, Camberwell. The Committee has now revised its proposals in order to secure maximum use of the premises at the earliest possible date.

The Education Committee concur in the proposal that the first and second storeys of the building should be used for a wide range of educational evening institute activities, together with a family club under the direction of the Council. Discussions have been held with representatives of the Peckham Health Centre Members' Association with a view to incorporating their activities in the educational and health activities proposed. The LCC hope that

the Association will participate by the majority of their members enrolling as members of the evening institute.

Informal discussions are in progress with members of the former Scientific Advisory Committee set up by the Sir Halley Stewart Trust to determine what form of research could best be carried out in future under the schemes outlined by the Health Committee in their present report.

The scheme of works now proposed for the premises, together with those previously authorized, will enable the whole of the main building to be used for day nursery, ante-natal, educational and recreational purposes.

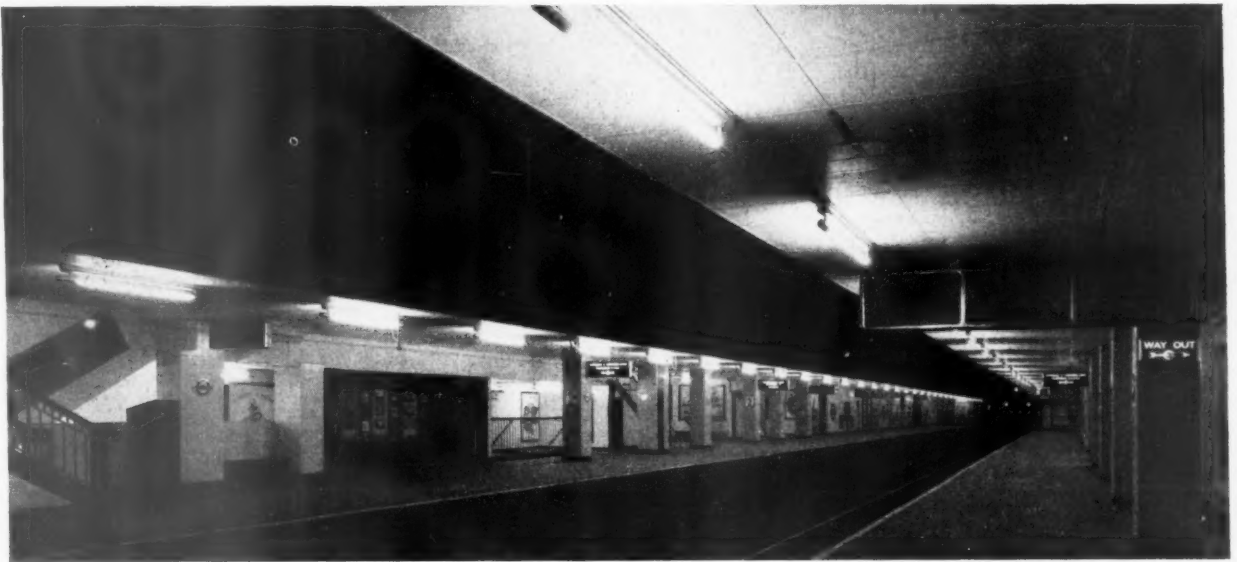
## ADVERTISEMENTS

### *Siting Regulations Relaxed*

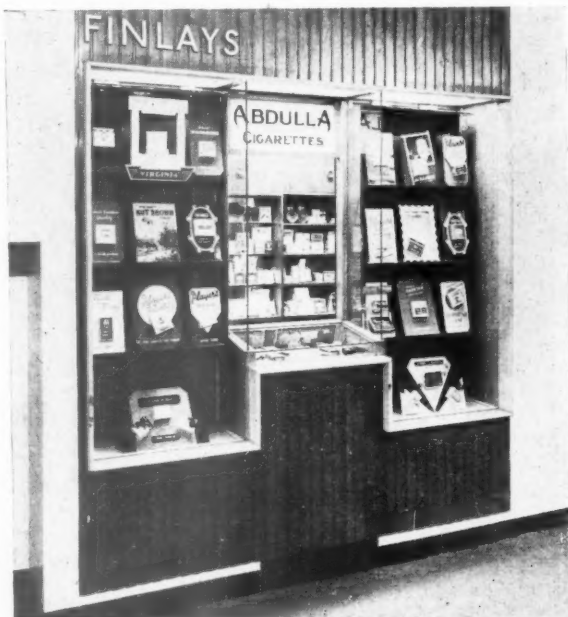
Under existing regulations, the display of advertisements in areas of high amenity where special control is in force is severely restricted. In certain circumstances, however, roadside signs indicating the presence of a hotel, etc., in the vicinity may be displayed with the consent of the local planning authority.

By an amendment made by the Town and Country Planning (Control of Advertisements) (Scotland) Amendment Regulations, 1951, this provision has now been

## REDESIGNED STATION INTERIOR AT CHARING CROSS



To coincide with the Festival of Britain the London Transport Executive has redesigned parts of Charing Cross and Waterloo stations. At Charing Cross the work was designed by Jack Howe and carried out by the LTE works department. The columns are faced with egg-shell blue tiles, the walls with buff tiles, and the false ceilings consist of asbestos board on aluminium frames. Right, the original District Line platform. Top, and below right, the new layout. The fluorescent tube holders of sheet metal with aluminium lacquer finish and the train indicators of glass, flush with aluminium "T" frames, were developed and made by LTE Signal Engineer. Below left, one of the re-designed shops in wax polished yang with sycamore edging. For sub-contractors, see page 180.





**SOUTH BANK EXHIBITION ARCHITECTS : NO. 15 : PHILIP POWELL AND HIDALGO MOYA**

*Philip Powell (left of photo). Age 30. AA School of Architecture, 1939-43. Honours Diploma. SADG Bronze Medallist, 1943. Associate of RIBA, 1943. Worked in office of Frederick Gibberd. Part-time teacher, Kingston School of Architecture, 1947-49. Hidalgo Moya. AA School 1939-43. Associate of RIBA, 1943. Worked in office of Frederick Gibberd. Part-time teacher, AA School, 1947-48. The two have worked in partnership since 1946 (Michael Powell left them to become assistant housing architect to LCC in 1950). They won the competition for Westminster City*



*Council's Pimlico Housing Scheme in 1946. First blocks to be completed were awarded RIBA London Architecture Bronze Medal, 1950. Their work includes two houses in Chichester and the "Skylon" on the South Bank, for which they won the Festival of Britain Vertical Feature Competition in 1950.*

**NO. 16 : MISHA BLACK AND ALEXANDER GIBSON**

*Designed Regatta Restaurant, Embankment Gate and decorations of Bailey Bridge. Misha Black (right of picture) :—Born 1910. Educated at Dame Alice Owen's School. Designed halls for UK Pavilion, Empire Exhibition, Glasgow, 1938 and for British Pavilion, World's Fair, New York, 1939. Principal exhibition architect to MOI, 1940-45. Industrial design consultant to Gas, Light and Coke Co., 1946-48, Director of Design Research Unit from 1946. Exhibition consultant to UNESCO, 1947. Co-ordinating architect to FOB. Chief display designer, Dome of Discovery. Editor of "Exhibition Design" (Published by The Architectural Press : 1950). Also Contributions to "Physical Planning" (1945), "Architects' Year Book" (1945) and "The Practice of Design" (1946).*

*Alexander Gibson : Born 1906. Educated at Shrewsbury, AA School of Architecture (Hons. Dip.). Associate of RIBA, 1933. Worked in connection with A. B. Llewellyn Roberts, Gropius and Fry, and Norman and Dawbarn, 1931-46. Private practice, 1946-48. Joined Design Research Unit, 1948.*



extended to include places of religious worship. The display of other advertisements by churches is unaffected; for example, signs may be displayed without consent expressly granted by the local planning authority on church buildings or church land, whether inside or outside areas of special control.

The regulations come into operation on July 31, and effect a number of minor amendments to the principal Regulations (SI 1779 of 1948) and to the Amendment Regulations of 1949 (SI 2016 of 1949).

**RSA****Industrial Art Bursaries Competition**

The RSA annual Industrial Art Bursaries Competition will this year include sections for the design of: carpets; domestic electrical appliances; domestic gas appliances; domestic solid-fuel-burning appliances; dress textiles; electric-light fittings; footwear; furnishing textiles; men's wear fabrics; plastics; wallpaper.

The primary purpose of the competition is to allow successful candidates to broaden their knowledge and experience by travel abroad and the study of foreign design, or, in certain cases, to obtain art training or industrial experience in this country.

A bursary of £150 in value is offered to the winning candidate in each section (three bursaries are offered in the dress textiles section, and two in the plastics section), and the Sir Frank Warner Memorial Medal is offered for the best design submitted in the textile group of sections. In addition, associate membership of the Royal Society of Arts will be awarded, without payment of subscription, to bursary winners under the age of 21.

The competition is open to full-time, part-time and evening-class students between the ages of 17 and 30 on September 1, 1951, who intend to take up industrial design as a career, and who have studied for not less than one term since September 1, 1950, at an art, architectural, technical or other college or school approved by the Society for the purpose of the competition. Entry in the domestic solid-fuel-burning appliances section is also open to any draughtsman, clerk, or similar person, within the same age limits, already engaged in the solid-fuel-burning appliances industry, provided that his application is sponsored by the Coal Utilisation Joint Council.

**NFBTE****"Nationalization no Alibi" Says President**

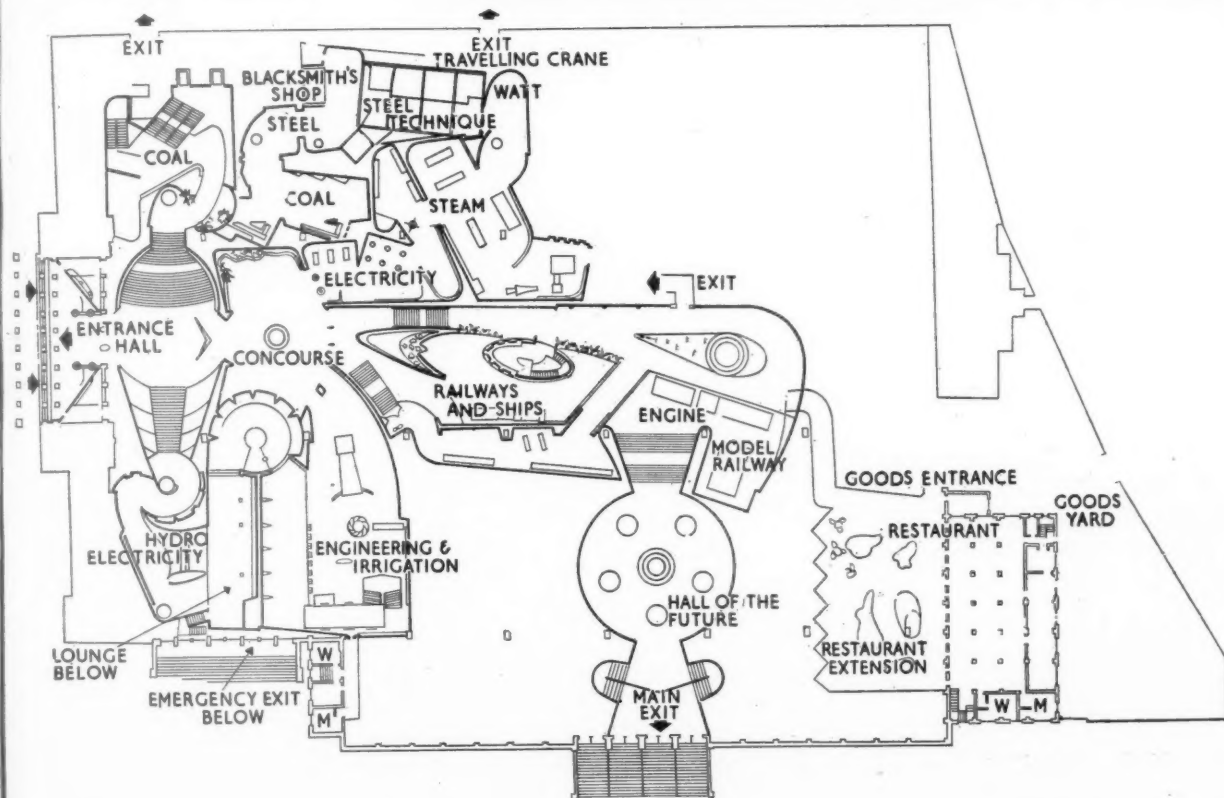
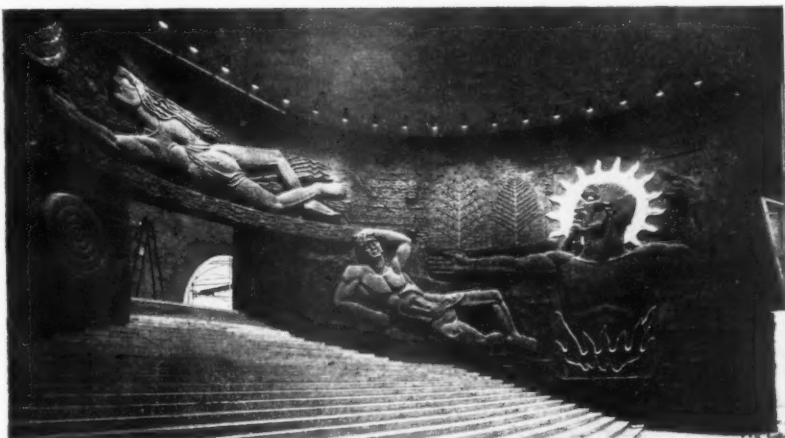
"Some of the speeches at recent Trades Union Conferences can do no more than make the 'nationalization of the building industry' horse turn in its grave," said Stephen Hudson, president of the NFBTE, at the recent half-yearly meeting of the Liverpool Regional Federation of Building Trades Employers, at Liverpool. "Not only was the animal disposed of by the Working Party, whose report was signed by the leaders of the building trades operatives, but many nails, including the recent one by Arthur Deakin, have been driven into its coffin."

"The large number of building trades operatives who think for themselves and realize the difficulties which the country is facing at the present time will, I am sure, agree with me that nationalization is no alibi for low output and that if we are to get the much-needed improvement there must be more co-operation and less recrimination within the industry."

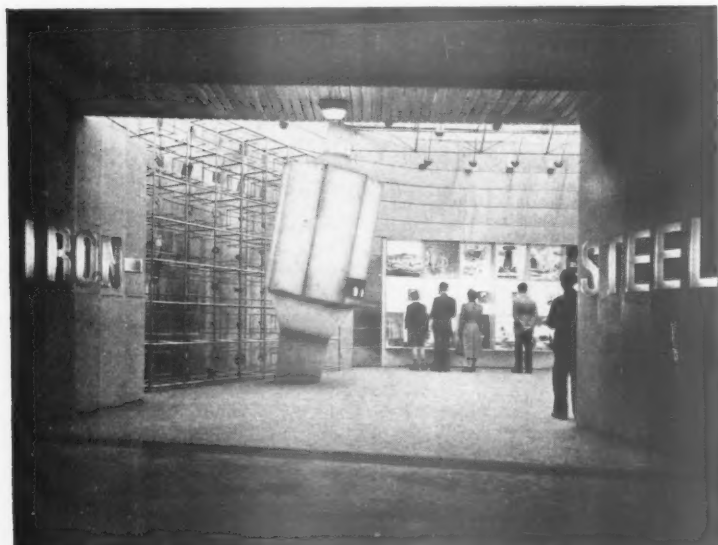


## THE FOB EXHIBITION OF INDUSTRIAL POWER

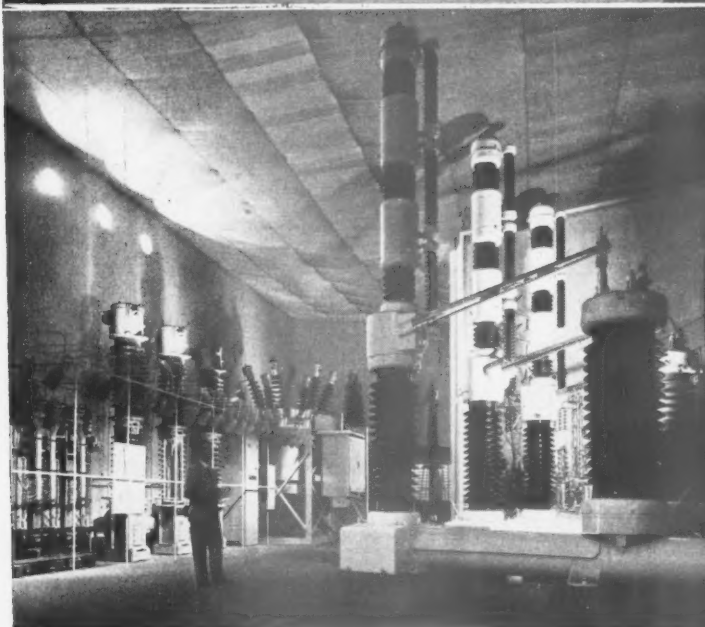
The co-ordinating architect for the FOB Exhibition of Industrial Power at Kelvin Hall, Glasgow, was Basil Spence. The theme is based on coal and water: the two sources of power behind heavy engineering. The coal and water sequences lead off from opposite sides of the entrance hall, in the photograph, right, below. The circulation is planned on a figure of eight which converges on the central concourse, shown in the plan below. Though Kelvin Hall has a total area of 200,000 sq. ft., the exhibition covers only 120,000 sq. ft. The main sections are enclosed by steel frame structures, with infilling of fireproof hard-board and studding. Over most of the area the height is limited to 30/ft., but in the centre bay (the Shipbuilding Section) it extends to 35/ft. The Coal Section is approached by a wide staircase backed by an enormous bas-relief, by Thomas Whalen, 105/ft. in length. Top, the God of Nature is seen arousing recumbent Man to become an active coal miner. (See page.)



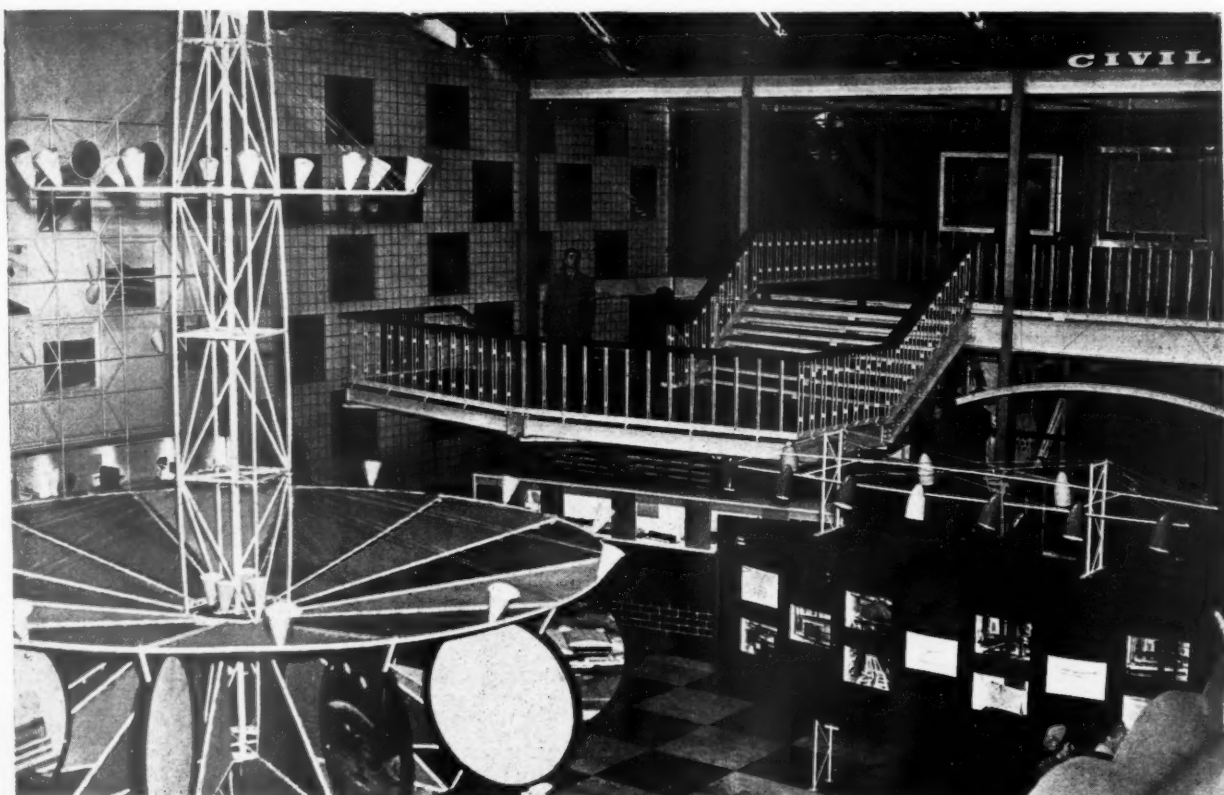
## THE FESTIVAL OF BRITAIN EXHIBITION OF



On the left, the entrance to the Iron and Steel section, designed by Albert Smith, faced with stainless steel panels which make a bright, striking contrast to the relatively gloomy story of coal. The floor is decorated with a mosaic of steel cross-sections, ranging from tramlines to the ribs of liners. Behind the mock-up of a glowing red ingot is a light tubular frame displaying precision instruments. The photograph below that, shows the same section from within. Here, the stainless steel gives way to a wall facing of wooden slats. In this, as in the photograph, bottom left, large industrial products are left free-standing to display themselves unaided. The photograph immediately below shows part of the Hydro-Electricity section, designed by Arthur C. Braven, with a topographical map of the Loch Sloy power scheme, set against a mural by Laurence Scarfe. Below right, the gallery, leading into the Civil Engineering section.



## INDUSTRIAL POWER, AT KELVIN HALL, GLASGOW

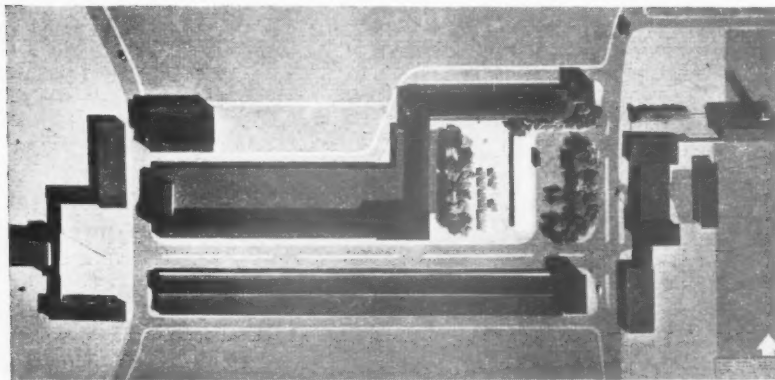


Above, the view into the Civil Engineering section, designed by Douglas C. Stephen. The area has been visibly enlarged by the positioning of the display stands and features. The asymmetric staircase is flanked on the far wall by perforated coloured aluminium panels, related to the red and white floor squares. Below, the roof is decorated with yellow, blue, red and green canvas panels. On the left is the gallery rail and a long trough of cactus plants. A corner of the curved display panel at the far end of the section is shown in the photograph on the right. Here, a mobile crane suspends a roof unit above display frames. Sub-contractors : page 180.





## NEW TOWN CENTRE FOR CORBY



This model is of the first stage of the proposed town centre for Corby New Town, designed by William Holford and H. Myles Wright, in association with R. L. Banks. The photograph below is taken looking west along the main shopping street. The first part of the development will be the market square containing both an open market and bus station. The square will have shops on three sides with some offices and flats above. On the fourth (east) side there will be a police station, police court and fire station, the roofs of which appear at the bottom of the photograph. The main shopping street will later be extended westwards to a town hall and community centre, and further development may take place north and south of the main street. It is expected that work will be commenced on the roads and services for the town centre during the next month or two.



## DIARY

**AA Annual Exhibition of School Work.** At 34, Bedford Square. Weekdays, 10 a.m. to 6 p.m. Saturdays, 10 a.m. to 2 p.m.

UNTIL AUGUST 10

**Exhibition of Fabrics from Overseas.** At the Cotton Board's Colour, Design and Style Centre, 19, York Street, Manchester. Weekdays (except Saturdays) 10 a.m. to 5 p.m. Saturdays, 10 a.m. to 12 noon.

UNTIL AUGUST 11

**Exhibition of Architecture.** At Croydon Town Hall, Croydon, Surrey. (Sponsor, I.R.A.) Weekdays: 11 a.m. to 7.30 p.m.

UNTIL AUG. 18

The above exhibition will also be seen at the following places:—Lambeth Town Hall (August 20-Sept. 1); Mile End Library, Stepney (Sept. 10-22); East Finchley Library (Sept. 24-Oct. 6); Thomas Parsons Showrooms, 70, Grosvenor Street, W.1. (Oct. 8-19); Council Office, Surbiton (Oct. 22-27); Building Exhibition, Olympia (Nov. 14-28.)

**The Susan Lawrence School.** At Lansbury, Poplar. Open to public. Weekdays, 12 noon to 8 p.m. Sundays 12.30 p.m. to 8 p.m.

UNTIL AUGUST 23

**Growth and Form.** Exhibition based on book by D'Arcy Wentworth. At ICA, 17-18, Dover Street, W.1. Weekdays, 10 a.m. to 6 p.m.

UNTIL AUGUST 31

**Exhibition of One Hundred Years of British Architecture, 1851-1951.** At RIBA. Weekdays, 10 a.m. to 6 p.m. Saturdays, 10 a.m. to 5.30 p.m.

UNTIL SEPT. 4

**"Living Traditions" Exhibition.** At Royal Scottish Museum, Edinburgh. 10 a.m. to 10 p.m. Sundays, 2 p.m. to 6 p.m.

UNTIL SEPT. 15

**FOB South Bank Exhibition.** Daily 10.30 a.m. to 11.30 p.m. Sundays, 12.30 p.m. to 11 p.m.

UNTIL SEPT. 30

**Exhibition of Science.** At the Science Museum, South Kensington. Weekdays (except Tuesdays and Saturdays), 12 noon to 10 p.m. Tuesdays and Saturdays, 10 a.m. to 6 p.m. Sundays, 2.30 p.m. to 6 p.m.

UNTIL SEPT. 30

**FOB Exhibition of Architecture.** At Lansbury, Poplar. Weekdays, 10.30 a.m. to 8 p.m. Sundays, 12.30 p.m. to 8 p.m.

UNTIL SEPT. 30

**Exhibition of Exhibitions.** At Royal Society of Arts, John Adam Street, W.C.2. Monday to Saturday, 10 a.m. to 6 p.m. (Wednesdays, 10 a.m. to 8 p.m.)

UNTIL SEPT. 30

**London Transport Area Art Schools Exhibition.** At Hyde Park Corner Station (ticket hall). Open during station hours.

UNTIL SEPT. 30

**Advertising Prepares for the Future: Exhibition.** At 44, Belgrave Square, S.W.1. (Sponsor, Institute of Incorporated Practitioners in Advertising.) Weekdays (except Saturdays): 10 a.m. to 5 p.m. (Apply to Institute's director for admission.)

**Festival Exhibition of Contemporary Furniture and Furnishings.** At the Mansard Gallery, Heal and Sons, 196, Tottenham Court Road, W.1. Open shopping hours.

UNTIL SEPT. 30

**London Transport Poster Exhibition, 1908-1951.** In subway linking South Kensington Station with museums. (Sponsor, L.T.E.) Open station hours.

UNTIL SEPT. 30

**South Bank, Past and Present Exhibition.** At Royal Festival Hall, Waterloo. (Sponsor, L.C.C.) Daily: 10.30 a.m. to 6.30 p.m.

UNTIL SEPT. 30

**Festival of Education and the Arts.** 33 new primary schools in Herts. open to public. Full details from County Education Officer, County Hall, Hertford.

UNTIL SEPT. 30



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The Architects' Journal for August 9, 1961 [167

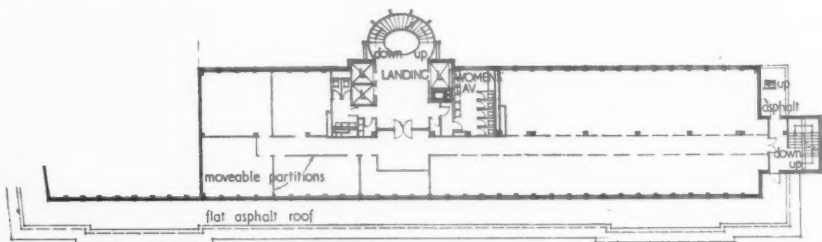
## OFFICES

in BRIDEWELL PLACE, LONDON, E.C.4  
designed by TREHEARNE AND NORMAN, PRESTON AND PARTNERS  
consulting engineers TRAVERS, MORGAN AND PARTNERS

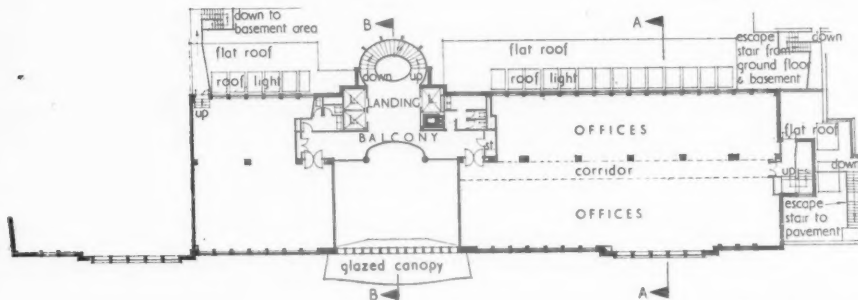
A new block of offices at 3-7, Bridewell Place, near St. Bride's Church, has recently been completed for occupation by Lever Bros., Ltd. A 5-ft. grid has been used to obtain the maximum flexibility of internal partitioning, there is a larger percentage of window area than in normal office buildings and the greater part of the exterior is faced with quartzite, a natural stone obtainable only from a single quarry in the Italian Alps. The design is symmetrical, but cannot be completed before adjoining property on the south side is demolished.

*The main entrance from Bridewell Place.*

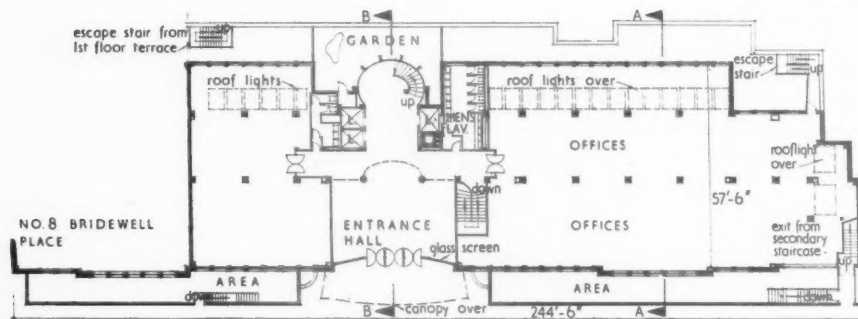




Sixth floor plan



First floor plan



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

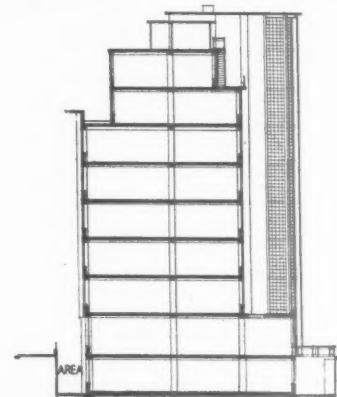
## OFFICES

in BRIDEWELL PLACE, LONDON, E.C.4  
designed by TREHEARNE AND NORMAN,  
PRESTON AND PARTNERS

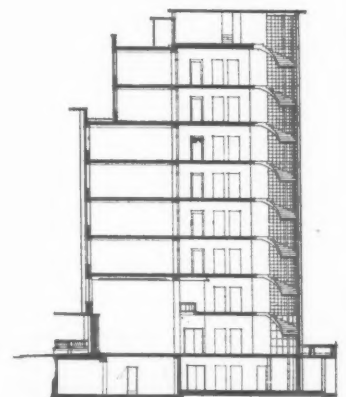
**PLAN.**—The arrangement of the plan was guided by the long, narrow site facing a 40-ft. road on the east and the wish to place the entrance hall, staircase, lifts and lavatories in a position which will be central when the extension to the south is built. The overall depth of the building is 43 ft., with a 5-ft. central corridor and windows on 5-ft. centres to give maximum flexibility of internal partitions.



Left, a close-up of the quartzite facing on the east facade.



Section A-A



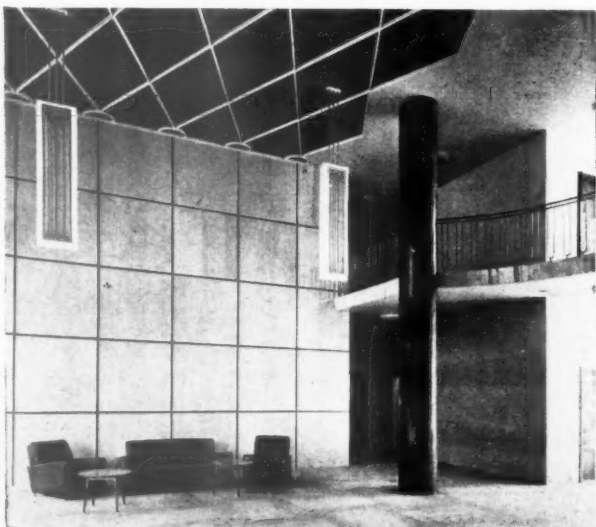
Section B-B [Scale:  $\frac{1}{4}$ " = 1' 0"]

**CONSTRUCTION.**—The frame is of reinforced concrete with external load-bearing mullions, 9 in. wide by 15 in. deep. There is one row of internal columns at 15-ft. centres, the floors are of reinforced concrete with beams 13 in. deep, and the external walls are of 11-in. cavity brickwork.

**FINISHES.**—The major portion of the exterior is faced with quartzite  $\frac{1}{2}$ -in. thick. This stone, which is cheaper than Portland stone, faience or tiles, has



*Above, the east facade which overlooks Bridewell Place, looking south-west. Below, the main entrance hall.*



variegated tones of colour and is harder than granite. The ground and basement storeys on the east elevation are faced with dark brown faience tiles and Westmorland green slate is used on the lower two storeys on the west and in panels on the projecting portion of the east facade. The entrance hall has walls faced with Botticino marble. The elliptical reinforced concrete staircase is cantilevered from 100 ft. external columns faced with green slate.

**SERVICES.**—The heating system incorporates a semi-automatic oil firing plant capable of using any type of liquid fuel with provision for a change to solid fuel and automatic stokers.

The general contractors were Trollope & Colls, Ltd. For sub-contractors, see page 180.

*Continuing our series of discussions on individual buildings the editors have chosen for the first time a block of offices. The construction of this recently completed building, which is situated just within the City boundary, has raised a number of interesting problems. (To identify the editors, refer to page 151.)*

## OFFICES IN LONDON E.C.4

### *Discussion between the Architects, the Engineers and the Editors*

**NINETEEN:** Was the 5-ft. spacing of the load-bearing mullions decided with a view to fitting the standard steel partitions used to divide the offices, or was it decided before the steel partitioning had been chosen? If the partitioning does fit correctly in this direction, does it also fit in depth, *i.e.*, the 19 ft.?

**ARCHITECT:** It was decided, with the idea of trying to economise on floor space for the offices, that we should find a unit, which in its multiples would be suitable for any size of office. A 5-ft. unit was selected as being the most suitable. The 5-ft. does fit in with the steel partitions; in fact, any multiple of 6 inches fits in. The same applies in the case of depth.

**TWENTY-ONE:** Do you anticipate moving or changing these partitions subsequently, in order to make the offices larger or smaller?

**ARCHITECT:** Decidedly. Lever Bros., we understand, are continually moving their partitions; almost every week. We felt that by this means we could give them the opportunity of altering their offices quite easily. The flat ceilings throughout the building do not entail cutting the partitions, as is usual when beams project below the ceiling level, and every 5-ft. unit has a window, a radiator, and contains all the necessary telephone plugs, sockets and so forth. If one partition is left over it can be used upstairs.

**TWENTY-FOUR:** Is the ceiling height constant on different floors?

**ARCHITECT:** The ground floor is higher than the rest, but it is not being used in the same way as the rest of the building. It is occupied mainly by a large telephone switchboard.

**TWENTY-FOUR:** Does the flat ceiling result from the use of a suspended ceiling?

**ARCHITECT:** Yes; there is plaster on expanded metal lathing and the ceiling is flush with the bottom of the beams. The 9-in. space in between is used for services and the beams are pierced to take pipes, etc.

**TWENTY-FOUR:** Are all the mullions structural?

**ENGINEER:** Yes; there is a beam across the building at each mullion, *i.e.*, at 5-ft. centres. The concrete floor is very light.

**TWENTY-FOUR:** What type of concrete floor did you use?

**ARCHITECT:** Solid reinforced concrete, 5 in. thick.

**TWENTY-FOUR:** Do you consider 5-ft. spacing of the columns and beams an economical one in reinforced concrete?

**ENGINEER:** Normally I do not, but in this particular case there were other reasons beside that of economy. One of the requirements was protection from bombing on the ground floor level for the basement. The closeness of the beams helps to withstand debris load and penetration of the floor slab.

**TWENTY-FOUR:** Do I take it that design loads are greater than you would normally use?

**ARCHITECT:** The ground floor is stronger than the rest of the floors, which are of normal construction.

**TWENTY-ONE:** Were the mullions precast?

**ARCHITECT:** No; all the work was *in situ*.

**NINETEEN:** How was the concrete poured?

**ENGINEER:** From floor to floor. There was no external scaffolding.

**TWENTY-FOUR:** What is the span of the beams in the other direction? Are these also at close centres?

**ARCHITECT:** No; there is just one row of columns in the centre of the building. There is one main beam which is the same depth as the others, 13 in., but wider.

**TWENTY-FOUR:** Did you consider prestressing it?

**ENGINEER:** No, we could not see any particular advantage in that.

**NINETEEN:** You might have saved steel.

**ENGINEER:** And probably delayed time in dealing with it.

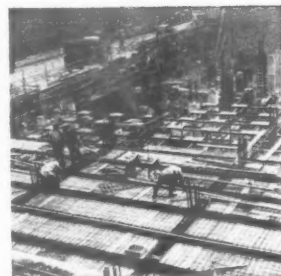
**TWENTY-FOUR:** How does the steel content work out as compared with a building with more conventional spans?

**ENGINEER:** I think that it is pretty well balanced in that way. I do not think that there is an advantage one way or the other. You could not give a fair judgement on that because the spacing of the mullions, which was laid down from the beginning, ruled the framework of the building. As I mentioned before, we used every mullion as part of the structural frame.

**TWENTY-FOUR:** If you had considered it more economical to use every other one, you could have done so.

**ENGINEER:** We could have done it that way, but this was the most economical way in view of the requirements.

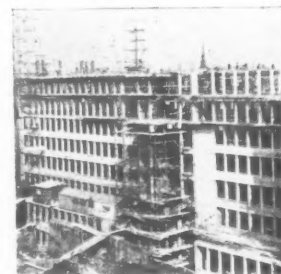
**TWENTY-ONE:** Did you try other schemes?



*Progress on March 9, 1950.*



*Progress on May 7, 1950.*



*Progress on September 4, 1950.*



*The completed east facade.*



**ENGINEER :** Yes, but we decided on this as the most appropriate. We used very little reinforcing steel in the floor because the span was so short, only 3 ft. 9 in., and the ceiling was easy to hang.

**ARCHITECT :** We did work out a scheme with alternate columns only being load bearing and the others being dummies; but it would have meant that the stanchions would have had to be deeper and jut into the room more.

**ENGINEER :** One of the features of the design of the framework was that as much straight steel as possible was used. We got continuity bars across the columns. That cuts down tremendously the labour of bending.

**TWENTY-FOUR :** There are two tendencies at work at the moment. One is an attempt to lighten framing by using relatively close centres, and the other is to go for prestressing and large spans.

**ENGINEER :** I prefer to use the prestressing technique more for very much larger spans; up to 150 ft.

**TWENTY-ONE :** On what statistics is based the claim that there is 50 per cent. more glass used in this building than in the "conventional" type of office?

**ARCHITECT :** We took various buildings as examples and measured up the window area in relation to the wall area and found that they had roughly 30 per cent. window. One building which was built before the war had only 29 per cent. Actually, the 50 per cent. is an understatement—by 5 per cent. or more.

**TWENTY-ONE :** Taking the question of the solid to void relationship in offices, or in any other buildings for that matter, surely the amount of light available depends not only on the area of the windows, but also on the depth of the rooms.

**ARCHITECT :** I agree, but in the other buildings we measured the depths were about the same, i.e., 19 ft.

**TWENTY-FOUR :** Is not 19 ft. rather deep for an office?

**ARCHITECT :** With a fairly large office, 20 ft. wide and 19 ft. deep, the back is used for storage purposes. In large drawing offices, the drawing boards are near the front and long rows of drawers in the middle.

**SIXTEEN :** Was the fluorescent lighting, and the points for it, designed with a view to the size of the offices or was it intended to allow for any arrangement or re-arrangement of internal partitions?

**ARCHITECT :** The fluorescent tubes are arranged for individual offices and for a corridor down the centre of the building, but they will provide even lighting over the whole floor area, if it is used open.

**TWENTY-ONE :** Has there been sufficient experience in the use of quartzite as a facing material in the London area for you to be satisfied that it will stand up well to the bad atmosphere?

**ARCHITECT :** What do you mean by "stand up"?

**TWENTY-ONE :** From the point of view of discoloration and corrosion.

**ARCHITECT :** Yes; its wearing qualities are better even than granite; it does not stain and moisture cannot penetrate it.

**TWENTY-FOUR :** Is it highly polished?

**ARCHITECT :** No; it could be, but the cost would be colossal.

**TWENTY-FOUR :** What made you choose it?

**ARCHITECT :** We wanted a thin material. Quartzite is quarried like slate—it is only  $\frac{1}{2}$  in. thick. There are very few such materials which will stand up to the atmosphere of London.

**TWENTY-FOUR :** There are tiles, of course. Would they not be cheaper?

**ARCHITECT :** No, this material is cheaper than tiles, and bricks would have been unsuitable.

**TWENTY-FOUR :** I agree; it is a pity to use structural materials, like brick, for facing.

**ARCHITECT :** Quartzite is more expensive than brick but it is very attractive; particularly when the sun is shining on it—it glitters.

**TWENTY-ONE :** What is the size of the quartzite?

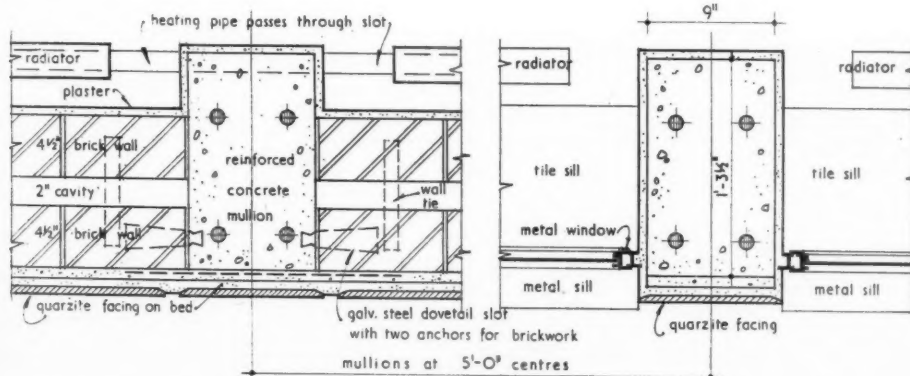
**ARCHITECT :** The maximum size, which is over the entrance, is 2 ft. square; the remainder is about 18 in. in depth.

**TWENTY-FOUR :** How did you fix it?

**ARCHITECT :** It is bedded in a cement-lime mortar, but we also used some clips which were insisted on by the local authority.

**TWENTY-ONE :** What about the joints?

**ARCHITECT :** The joints were pointed afterwards.



Detail of external wall, plans at window level and below [Scale: 1" = 1' 0"]



The main staircase window

**TWENTY-ONE :** Did you take any special precautions to prevent the penetration of moisture between the brickwork panels and the concrete frame ?

**ENGINEER :** Yes. The panel brickwork was keyed to the columns by a special grooved strip. We have also taken special measures to drain the cavity. There is a lead flashing at the bottom which drains out through vertical slots behind the facing.

**FIFTEEN :** What guided your choice of heating system, and were any alternatives considered and discarded ?

**ARCHITECT :** Yes, there was an alternative. We considered a patent form of ceiling panel heating. It was discarded because it would have been more expensive to instal than individual radiators, and it would have slowed up the erection of the structure. It would have been necessary to wait at each floor for the heating engineers to lay their pipes and test them ; you can imagine the delay which would have ensued. It would probably have been something like a fortnight per floor, and with 8 floors that would have meant a tremendous delay.

**FIFTEEN :** Ordinary central heating was used ?

**ARCHITECT :** Yes.

**TWENTY-ONE :** Are the boilers oil fired ?

**ARCHITECT :** Any type of fuel can be used, including heavy oil or creosote. There is equipment which reduces crude oils to a fine spray.

**TWENTY-FOUR :** The oil burners can be taken out ?

**ARCHITECT :** Yes, if they ever have to use solid fuel.

**FOURTEEN :** What sound insulation and acoustic treatments were used to ensure quietness in the offices ?

**ARCHITECT :** There is no special insulation apart from that in special places, such as the telephone exchange and certain offices. There were various considerations. Firstly, the question of cost, and, secondly, that this building is situated in a quiet street. So far, it has been found reasonably quiet.

**TWENTY-ONE :** How does the use of 11-in. cavity external walls economise in floor space ? If one were anxious to save floor space, a very thin panel could be used.

**ARCHITECT :** Then you would have to put in insulation.

**FOURTEEN :** 50 per cent. of your building is glazed with  $\frac{1}{4}$ -in. glass anyway, so is there any point in worrying unduly about insulation ?

**ARCHITECT :** I think there is.

**TWENTY-FOUR :** How deep are the columns ?

**ARCHITECT :** About 15 in.

**TWENTY-FOUR :** That is quite deep ; if you used thin panels you would not save space, you would have a corrugated effect inside. I suppose the recess left when 11-in. cavity walls are used just houses the radiators ?

**ARCHITECT :** Yes, the radiator is just about flush with the columns. The pipes which feed the radiators go through the columns.

**NINETEEN :** Did you cast something in the columns ?

**ENGINEER :** No ; a notch was left out at the bottom.

**TWENTY-FOUR :** That must save a lot of money.

**ARCHITECT :** Yes. The friction of all the extra bends would have to be calculated if the pipes were taken round columns. So you save not only the labour of making all the joints but also on your boilers and your fuel bill.

**TWENTY-ONE :** What is the actual width of the panel under the windows ?

**ARCHITECT :** About 4 ft. 2 in.

**TWENTY-FOUR :** So there does not have to be any cutting of bricks ?

**ARCHITECT :** No.

**NINETEEN :** Is there any room between the glazing of the staircase and the outer string to clean the glass ?

**ARCHITECT :** Yes. But the outer string abuts the main concrete mullions so that they can help to support the staircase.

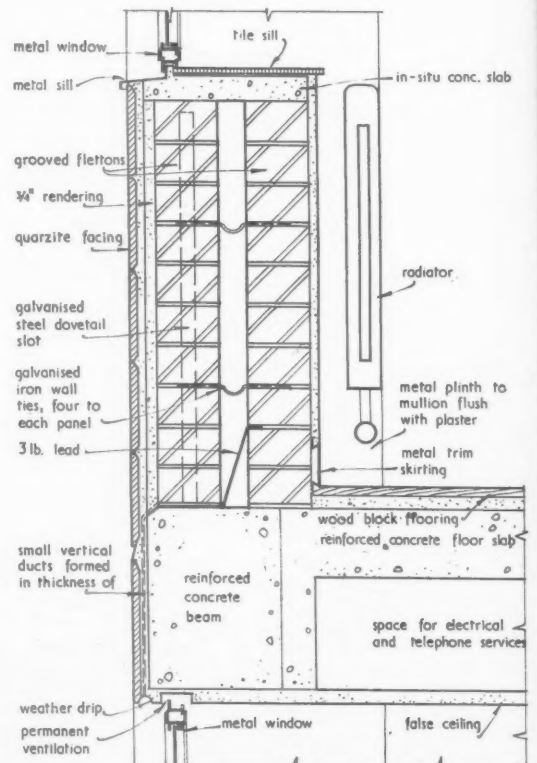
**ENGINEER :** As a matter of historical interest, in excavating for the foundations, we came across an old timber wharf which had been part of the old water way, and a great many of the old piles had to be cut out. And on one corner of the site we had to dig down quite a distance to get a solid foundation.

**TWENTY-FOUR :** Did you come across a lot of water ?

**ENGINEER :** Some, but we got a seal on it all right.



Looking vertically up the main staircase well.



Cross section through external wall [Scale: 1" = 1' 0"]



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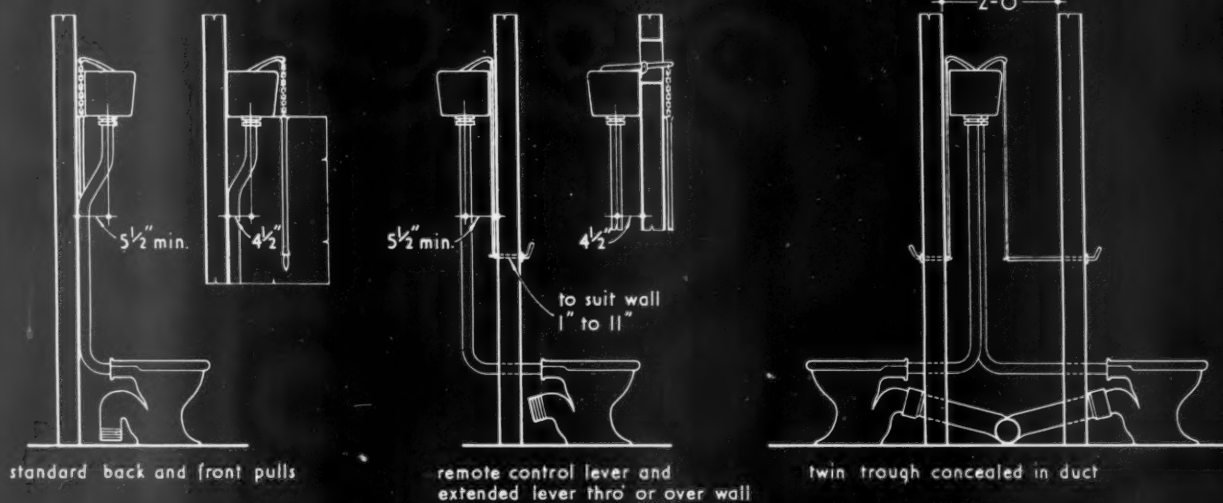
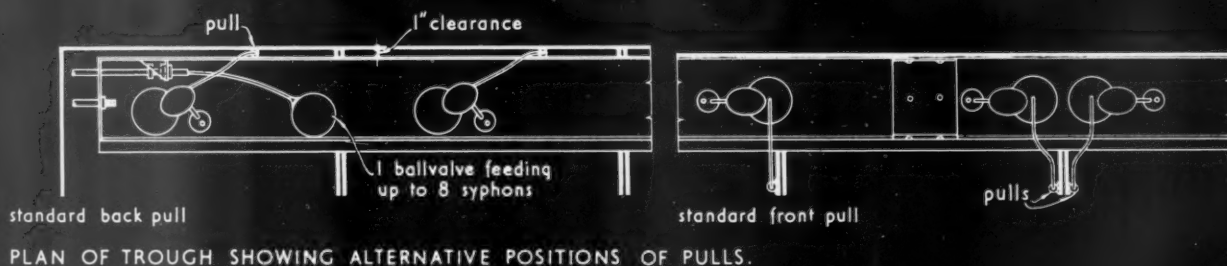
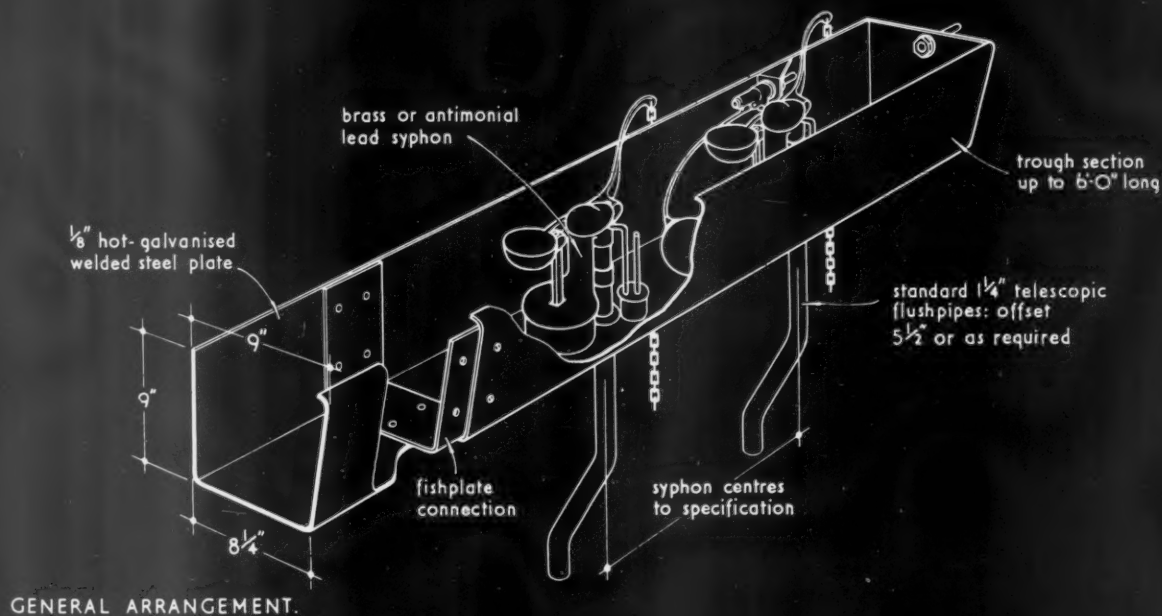




## SANITATION | EQUIPMENT | FLUSHING TROUGHS

33.Q4

The Architects' Journal Library of Information Sheets 323. Editor: Cotterell Butler, A.R.I.B.A.



### 33.Q4 FLUSHING TROUGHS FOR W.C.'s

**This Sheet** describes flushing troughs for W.C.'s.

#### Construction

**Troughs :** The troughs are constructed from  $\frac{1}{8}$ -in. rolled steel plate in sections 6 ft. long, hot galvanised after manufacture.

The sections are butted together and joined by fish-plate connections.

**Covers :** These are fitted when specified.

**Syphons :** The syphon units are of antimonial lead with patented control cup and silencer. Each syphon can be supplied to give the exact amount required between 1 and 3 gallons for each flush. One  $\frac{1}{4}$ -in. ballvalve is sufficient for 8 syphons.

**Ballvalves :**  $\frac{1}{4}$ -in. high pressure or low pressure ballvalves are supplied fitted with silence pipes and solderless copper balls. They may be fixed in any position along the trough.

**Overflow :** 1-in. overflow is supplied suitable for fixing to any connection. It may be fitted in any position in the trough above the water level.

**Drain cocks :** These are supplied fitted to the underside of the trough.

#### Operation

The syphons may be operated by chain pulls or combined chain and remote control levers.

Remote control operating levers can be positioned at any convenient height above floor level.

#### Fixing

Troughs can usually be carried on top of W.C. partitions. They may, however, be suspended by hangers from roof joists or supported on brackets, cantilevered or screwed to the wall.

*Compiled from information supplied by :*

**Adamsez Ltd.**

**Head Office :** Fireclay Works, Scotswood, Newcastle-on-Tyne, 5.

**Telephone :** Lemington 74185/6.

**Telegrams :** Sanifera, Newcastle-on-Tyne.

**London Office :** 54, Victoria Street, London, S.W.1.

**Telephone :** Victoria 2172/3.

**Telegrams :** Sanifera, Sowest, London.

**Belfast Office :** 11, Brookvale Avenue, Belfast.





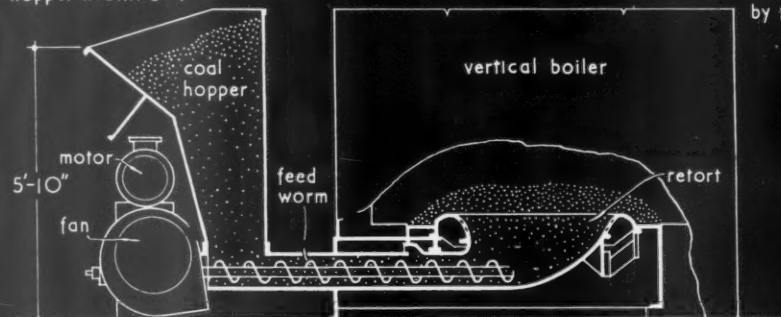


## SPACE HEATING | MECHANICAL STOKERS

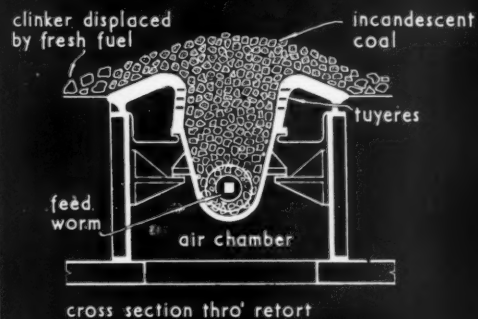
29.J10

The Architects' Journal Library of Information Sheets 324. Editor: Cotterell Butler, A.R.I.B.A.

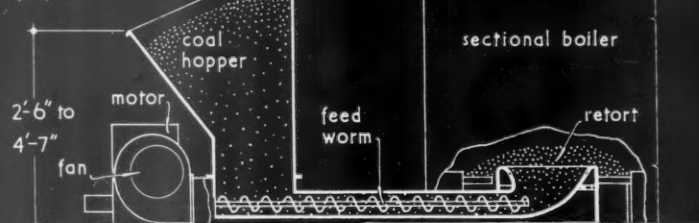
hopper width: 5'-4"



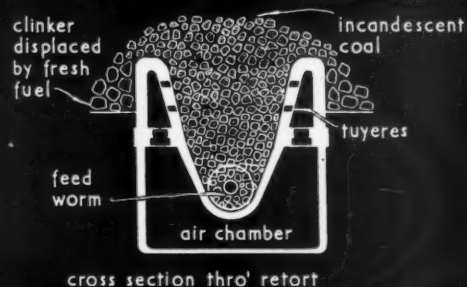
INDUSTRIAL ROBOT: HOPPER TYPE: FITTED TO VERTICAL BOILER.



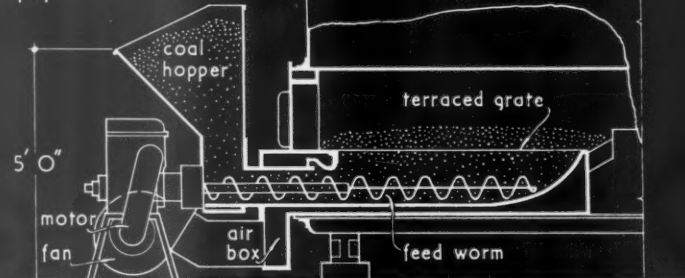
hopper width: 2'-4" to 4'-4"



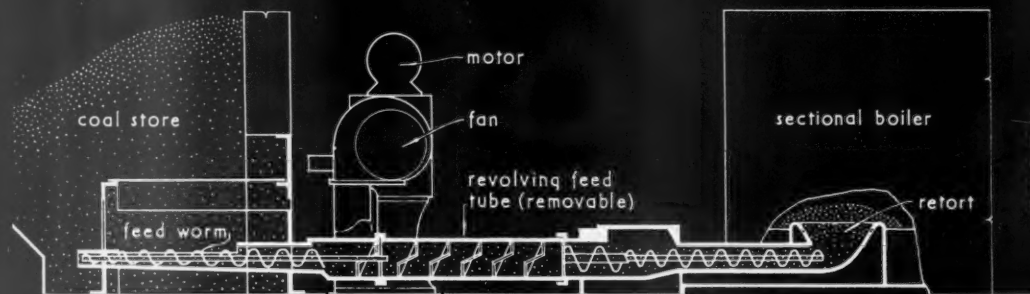
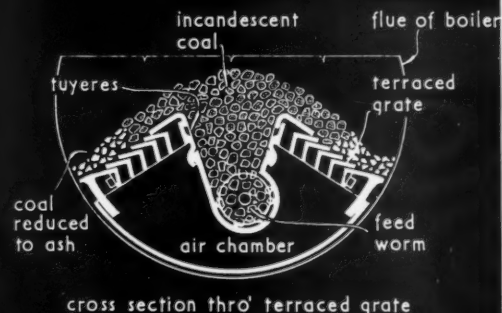
ROBOT: HOPPER TYPE: FITTED TO SECTIONAL BOILER.



hopper width: 2'-4" to 4'-4"



CLASS B SELF-CONTAINED: HOPPER TYPE: FITTED TO FLUE-TYPE BOILER.



DIREKTO: DIRECT FEED FROM COAL STORE: FITTED TO SECTIONAL BOILER.

note: all stokers may be fitted to boilers other than the particular types shown

## 29.J10 RILEY STOKERS : OPERATION AND GENERAL DESIGN

This Sheet describes the operation and general design of Riley stokers. The drawings on the face of the Sheet show sections through three hopper-type installations—Industrial Robot, Robot and Class B stokers—and a direct feed from coal store to boiler installation—Direkto stoker.

Layout dimensions for boiler houses and coal stores incorporating these stokers with different types of boiler are given on Sheet 29.J11.

### Operation

All types and sizes of stoker operate on the under-feed system and are designed to burn small bituminous coal. (Coal of size 2 in. to  $\frac{1}{2}$  in. is suitable for Industrial Robot and Class B stokers and  $1\frac{1}{4}$ — $\frac{3}{4}$  in. to  $\frac{1}{2}$  in. for Robot and Direkto stokers.) The coal, conveyed by a mechanical feed worm, enters the firepot from below the fire. The gases, which are released and ignited as the coal approaches the incandescent zone, are consumed when passing through the fire bed and smokeless combustion is obtained.

A motor rated at  $\frac{1}{2}$  to 5 h.p., according to the type and size of stoker, is employed to operate the feed worm and also to drive the fan supplying forced draught to the plenum chamber of the retort. The amount of air required for complete combustion of the particular fuel is regulated by means of an automatically controlled damper fitted to the fan.

### Capacities

Riley stokers are obtainable in a wide range of capacities to suit boilers varying from an output of 100,000 to 9,000,000 B.Th.U./hr. with hoppers to take 120 lb. to 1,215 lb. of coal. Boilers with larger outputs may be fitted with two or more stokers. Hoppers are constructed of heavy gauge steel with open tops as standard ; dust-tight lids can be supplied for the smaller sizes if required.

### Controls

The controls are designed to vary the rate of coal feed automatically to meet fluctuations of the load, at the same time adjusting the air supply to suit, and are governed either thermostatically or by boiler pressure. Two stats are used, one to control the rate

of feed and the other to act as a limiting or safety device to stop the main driving motor in the event of temperature or pressure rising above pre-determined limits. This second stat will restart the machine when the temperature or pressure has dropped to the required normal level. It is also used to operate the stoker intermittently when the normal or maximum capacity of the boiler is not required, i.e., at night or during week-ends.

Additional controls in the form of low-water cut-outs, time switches, etc., can also be incorporated.

With the smallest Robot and Direkto stokers only one stat is fitted and this controls the temperature or pressure by stopping and starting the machine.

### Safety Devices

Safety devices are incorporated in the stokers to protect the mechanism and electrical equipment in the event of materials jamming the feedworm.

### Clinker Removal

The incandescent fuel bed is gradually pushed upwards as the fresh fuel enters from below and the ash falls to the sides of the fire. The ash and clinker are removed manually through the boiler firedoor.

*Compiled from information supplied by :*

Riley Stoker Co., Ltd.

Address : 19, Woburn Place, London, W.C.1.

Telephone : Terminus 2622.

Telegrams : Ristokers, Westcent, London.



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INFORMATION CENTRE · INFORMATION SHEETS  
 QUESTIONS AND ANSWERS · CURRENT TECHNIQUE  
 THE INDUSTRY · PRICES · TECHNICAL ARTICLES

## TECHNICAL SECTION

*This feature covers both the production and marketing of new materials and designs of equipment, as well as the general trend of developments within the Building Industry.*

### THE INDUSTRY

By Brian Grant

#### SHORT BORED PILES

Readers will probably remember the suggestion made some time ago that in some soils, notably on shrinkable clays, the normal house footings should be replaced by short piles, the heads of which should be connected by reinforced concrete beams. The main difficulty with this type of construction is boring the hole for the pile; the experiments at the Thatched Barn having been carried out with an American post-boring machine which was not available in this country.

The American Highway machine is now being imported, and it will bore holes up to 16-ft. deep and 24-in. in diameter, either vertically or at an angle. Control is simple, and at a recent demonstration holes were bored rapidly. The main difficulty is not so much the boring process but the removal of the spoil from the comparatively small diameter hole. The method is to bore for 6 inches or so, then raise the borer head, the cutter lifting the spoil with it. The head is then spun much faster than its boring speed and the spoil is flung off by centrifugal force, being deposited round the edge of the hole. For setting flag poles or telegraph poles the machine is available with a derrick and winch for dealing with posts up to 2,000 lb. in weight and 45 ft. long. (*The Cheshire Engineering Co. Ltd., Alliance House, Caxton Street, London, S.W.1.*)

#### LIGHT ALLOY EXTRUSIONS

High Duty Alloys have just issued a large handbook covering extruded sections of all types, including bars, channels, beams, tees, tubes, and a number of "architectural" sections mainly for windows, stairtreads and edging strips. All the sections are very fully dimensioned and there are also tables of the structural properties of each one.

The introduction consists of an illustrated description of the extrusion process, and there is also a useful section on the normal tolerances which may be expected in practice. A handsome publication which consists of the essential information, and is almost entirely free from propaganda. (*High Duty Alloys Ltd., Slough, Bucks.*)

#### PLYWOOD AT THE SOUTH BANK

Architects who remember the way in which pre-war plywood ping-pong tables used to curl up in the damp should make a point of seeing what has been done with phenol resin-

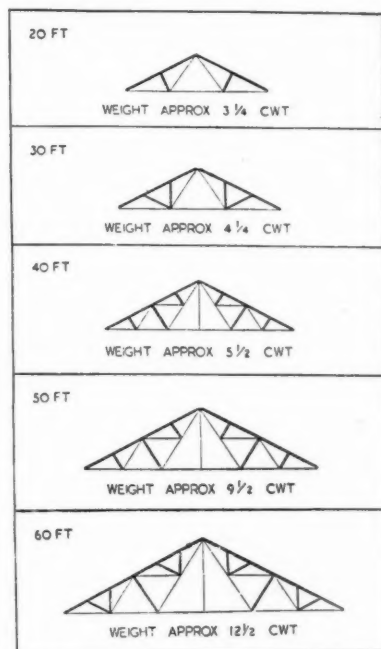
bonded Permaply at the South Bank. First of all, there is the main outside wall of the Exhibition, between the main entrance and York Road, which is constructed of narrow Permaply sheets with timber mouldings superimposed, while the roof of the main arcade consists of a single section of Permaply open to the weather on both sides. This material seems to stand up to the weather extremely well, whether it is painted or not. It was used to a considerable extent during the war for the hulls of light naval craft, and stood up satisfactorily to the humidity and heat in the Far East.

Plymax, the metal faced plywood, which many of us first used 20 years or so ago, is also quite widely used in the Exhibition, notably for partitions and doors. Venesta have just issued a booklet on this material showing how it can be used for shower partitions, counter tops, dressing cubicles, fascias and counter fronts, and referring also to the lead lined Plymax used for paneling X-ray and radiotherapy rooms. (*Venesta Ltd., Vintry House, Queen Street Place, London, E.C.4.*)

#### STANDARDIZED STEEL TRUSSES

In these days when there is so much talk of prestressed concrete and light alloy trusses, one is apt to forget that there is still a lot to be said for the almost old-fashioned steel truss, whether riveted or welded. The Quasi-Arc Co., who maintain a construction and design department, have just issued an informative booklet on Welded Roof Trusses, which is the first of a series to be published on welded structures in general. The booklet contains some useful notes on the design of welded joints, and a chart, part of which is reproduced herewith, showing the general arrangement of standardized trusses for spans from 20 to 60 ft., and with weights varying from  $3\frac{1}{2}$  to  $12\frac{1}{2}$  cwt. Welded trusses are usually lighter than riveted ones, mainly because there is no need to make any deductions for rivet holes in tension members and also because gusset plates can, as a rule, be eliminated. Furthermore, if the members are welded, it is possible to use tubes

instead of tees and angles; a technique with several advantages. (*The Quasi-Arc Co., Bilston, Staffs.*)

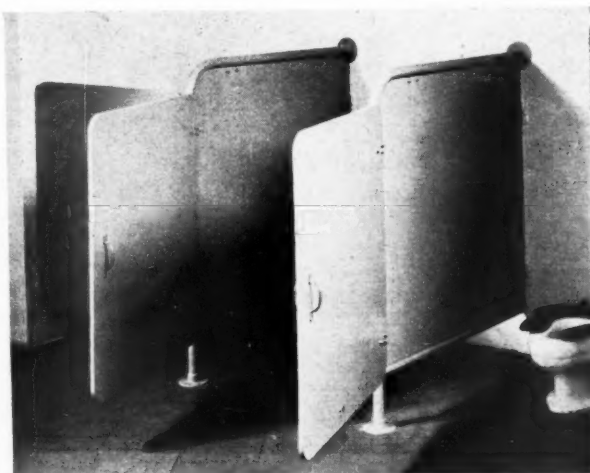


Standardised welded steel roof trusses, reproduced from the booklet issued by The Quasi-Arc Co.

#### VENETIAN BLINDS

Now that Venetian blinds have regained some of their former popularity, it is interesting to note that they are now being made with aluminium slats, which can be enamelled in many different colours and which should last longer than wooden slats. These slats are fairly flexible, so that it is possible, for instance, to work the peg stay of a casement window without raising the blind. Sizes are up to 9 ft. wide, with a drop of 15 ft. Price of a blind, 2 ft. 6 in. wide by 3 ft. deep, is £4 0s. 8d., including purchase tax, and the price per square foot decreases considerably as the area goes up, e.g., a blind 5 ft. wide by 6 ft. deep is £9 12s. 6d. (*Venetian Vogue Ltd., Stoke House, Slough, Bucks.*)

*Plymax, the metal-faced plywood. A typical example of its use—WC partitioning.*



Prices are for work executed complete and are for an average job in the London area; all prices include overhead charges and profit for the general contractor.

# CURRENT PRICES FOR MEASURED WORK

BY DAVIS, BELFIELD AND EVEREST, Chartered Quantity Surveyors

For Rates of Wages and Market Prices of Materials  
see THE ARCHITECTS' JOURNAL for July 26, 1951.

*F.A. Davis*

F.R.I.C.S., F.I.Arb.

## PRELIMINARIES

To all valuations for measured work add for Preliminaries, Water and Insurances, according to the nature of the job (say) ..... 10%

## EXCAVATOR

### Excavation

N.B.—The following prices are applicable to hand excavation in heavy soil.

Surface digging, 6" deep	per yard super	-10
Ditto, 12" deep	per yard super	1/8
Excavating not exceeding 10' 0" deep to reduce levels	per yard cube	6/9
Excavating not exceeding 5' 0" deep to form basement	per yard cube	7/7
Ditto, exceeding 5' 0" and not exceeding 10' 0" deep ditto	per yard cube	10/11
Excavating not exceeding 5' 0" deep to form surface trenches	per yard cube	9/3
Ditto exceeding 5' 0" deep and not exceeding 10' 0" deep ditto	per yard cube	12/7
Excavating not exceeding 5' 0" deep to form basement trench, commencing 10' 0" deep	per yard cube	15/11

### Disposal

Returning, filling and ramming around foundations	per yard cube	2/11
Wheeling excavated soil not exceeding 100 yards and depositing	per yard cube	3/4
Ditto and spreading and levelling	per yard cube	4/4½
Ditto, ditto, and consolidating to make up levels under floors and pavings	per yard cube	5/6
Filling into lorries and carting away	per yard cube	11/7½

### Planking and Strutting

Planking and strutting to sides of surface or basement excavation not exceeding 5' 0" deep	per ft. super	-/6
Ditto not exceeding 10' 0" deep	per ft. super	-/8
Planking and strutting to sides of surface trenches not exceeding 5' 0" deep (both sides measured)	per ft. super	-/1½
Ditto not exceeding 10' 0" deep (ditto)	per ft. super	-/3

## CONCRETOR

### Concrete (Basic Prices)

Portland cement concrete 1 : 3 : 6 with 1½" coarse aggregate in foundations and masses exceeding 12" thick	per yard cube	60/-
Ditto 1 : 2 : 4 with 1½" coarse aggregate ditto	per yard cube	61/-

### Add to Basic Prices for:—

Working around rod or mesh reinforcement	per yard cube	3/4
Being in beds less than 12" thick (6"-12")	per yard cube	1/8
Ditto less than 6" thick (4½"-6")	per yard cube	5/-

## CONCRETOR—(continued)

Being in small quantities not exceeding 3' cube	per yard cube	12/6
Being in suspended floors and roofs	per yard cube	10/1
Being in walls not exceeding 6" thick	per yard cube	16/9
Ditto exceeding 6" but not exceeding 12" thick	per yard cube	11/9
Ditto exceeding 12" thick	per yard cube	8/4½
Being in lintels, beams, etc., not exceeding 72 sq. in. sectional area	per yard cube	25/2
Ditto exceeding 72 and not exceeding 144 sq. in. sectional area	per yard cube	20/2
Ditto exceeding 144 sq. in. sectional area	per yard cube	16/9
Being in columns not exceeding 72 sq. in. sectional area	per yard cube	31/10
Ditto exceeding 72 and not exceeding 144 sq. in. sectional area	per yard cube	25/2
Ditto exceeding 144 sq. in. sectional area	per yard cube	20/2

### Formwork

Close boarded formwork and supports to soffits of floors not exceeding 12' high	per yard super	15/3
Ditto to vertical faces of walls (both sides measured)	per yard super	14/10
Ditto to sides and soffits of lintols and beams	per ft. super	2/3
Add to any of the above for wrot formwork and rubbing down concrete	per yard super	2/3

### Reinforcement

½" to 1" diameter mild steel rod reinforcement, hooked, bent and tied at intersections as required and fixing in concrete	per cwt.	38/6
½" diameter ditto	per cwt.	41/8
½" diameter ditto	per cwt.	53/4
Steel wire mesh fabric reinforcement to B.S. 1221, weighing 4.71 lb. per yard super, well lapped at joints and embedded in concrete	per yard super	2/8
Ditto weighing 9.32 lb. per yard super ditto	per yard super	5/1

## BRICKLAYER

### Common Brickwork

	Flettons	Rough stocks
Reduced brickwork one brick thick in cement-lime mortar (1 : 3 : 9)	per yard super 25/3	30/-
Add to the above:—		
If in cement mortar (1 : 3)	per yard super -/3½	-/3½
If circular on plan to flat sweep	per yard super 4/1	4/4
Ditto to quick sweep	per yard super 8/1	8/8
Half brick wall in cement lime mortar (1 : 3 : 9)	per yard super 13/8	16/1
Ditto built fair and pointed both sides with a neat flush joint	per yard super 15/6	17/10



164  
LOCAL  
AUTHORITIES  
*are saving 14 cu. feet of  
timber per house by using*  
HOPE'S  
STEEL DOOR FRAMES

HENRY HOPE & SONS LTD · SMETHWICK, BIRMINGHAM & 17 BERNERS STREET, LONDON, W.1

# TUCKER'S 'Armourply'

**DOORS • COUNTERS  
AND TABLE TOPS  
CUBICLE UNITS  
REFRIGERATORS**



**INSULATING PANELS  
ESCALATOR PANELS  
ROOF PANELS  
VEHICLE BODIES**

*Combines light weight with strength in a wide range of decorative and utility surfaces.*

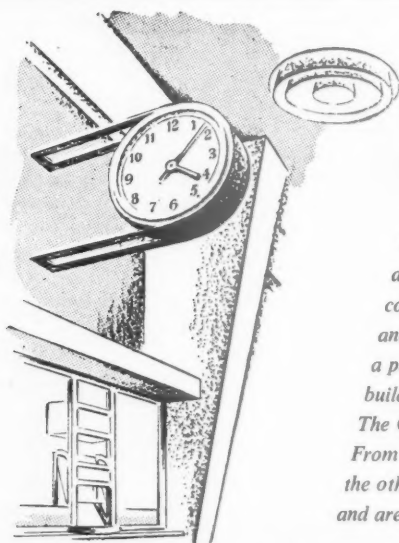
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## SOUTH BANK TIME

*To ensure accurate synchronization, all clocks at the South Bank exhibition are part of the same GIBSON MASTER CLOCK SYSTEM. The Master Clock controls the 133 slave clocks and Time Recorders in different parts of the exhibition, and batteries, charged from the mains, keep the system running in the event of a power cut. The slave clocks are designed to harmonize with the buildings in which they are installed.*

*The GIBSON system is used in many large buildings, office blocks and schools.*

*From the point of view of economy the installation should be planned at the same time as the other services. BAUME & CO. LTD. are specialists in electrical time-indication and are always willing to make clocks to any design.*

## BAUME & CO. LTD.

LONDON AND LA CHAUX-DE-FONDS

CLOCK AND WATCH MAKERS FOR MORE THAN A CENTURY



*The Gibson slave clock in the booking hall of the Festival underground station at Waterloo*

**BAUME  
WATCHES**

*Longines*  
**WATCHES**

**HEUER**  
**TIMERS**

*Gibson*  
**CLOCKS**



## BRICKLAYER—(continued)

		Rough Flettons	stocks
One brick wall built fair and pointed both sides with a neat flush joint	per yard super	29/9	34/7
1' hollow wall with 2" cavity and galvanized iron twisted ties	per yard super	29/8	34/6
<i>Engineering Brickwork</i>			
		Lingfield Engin- eering	Blue Pressed bricks
Reduced brickwork one brick thick in cement mortar (1:3)	per yard super	35/-	56/6
Half brick wall in cement mortar (1:3)	per yard super	18/11	30/-
Ditto built fair and pointed both sides with a neat flush joint	per yard super	20/7	32/3
One brick wall built fair and ditto	per yard super	38/9	60/9
<i>Sundries</i>			
Extra for internal fair face and flush pointing	per yard super	1/-	
Horizontal damp-proof course of two courses of slates and bedding and pointing	per foot super	3/3	
Ditto of hessian base bitumen well lapped at joints	per foot super	-/10	
Fixing only metal window, size 1' 8" x 4' 0", including cutting and pinning lugs to brickwork, bedding frames and pointing in mastic one side	each	7/-	
Ditto, 3' 3" x 4' 0" ditto	each	10/10½	
Ditto, 6' 6" x 4' 0" ditto	each	19/3	
<i>Partitions</i>			
Breeze concrete solid partition blocks to B.S. 492 and setting in cement mortar	per yard super	7/7½	8/10½ 10/4 13/-
Hollow clay partition blocks to B.S. 1190, keyed on both sides and ditto	per yard super	7/11	8/9 10/- 12/2
Moler hollow partition blocks, keyed on both sides and ditto	per yard super	12/6	15/4½ 17/4 19/9
<i>Facings</i>			
		White glazed facings p.c.	
		1,200/- M	
		for	
		stretchers	
		1,185/- M	
		for headers	
		and point-	
		ing with	
		white	
		cement	
Extra over common brickwork built with bricks p.c. 100/9-M for facings as described, and pointing with a neat weathered joint:—		Ordinary facings, p.c. p.c.	
To solid wall in Flemish bond	per yard super	209/- M. 11/11	232/10 M. 13/8
To cavity wall in stretcher bond	per yard super	9/9	11/1 58/7
To ditto in Flemish bond with snapped headers	per yard super	11/7	13/2 —
Half brick wall in facings in stretcher bond built fair and pointed one side with a neat weathered joint	per yard super	22/5	23/9 —
Ditto pointed both sides	per yard super	23/3	24/7 —
One brick wall in facings built fair and pointed one side	per yard super	41/11	44/6 —
Ditto pointed both sides	per yard super	42/9	45/4 —
Brick on end flat arch in facings 4½" on soffite and 9" high and pointing	per foot run	2/7	2/8 —
Brick on edge coping to 9" wall with two courses plain tiles under, laid breaking joint, two cement angle fillets and pointing	per foot run	4/5½	4/7 —

## ASPHALTER

		To B.S.	To B.S.
		1097	1418
<i>Tanking</i>			
Horizontal asphalt tanking in three thicknesses on brick or concrete	per yard super	15/3	25/9
Vertical ditto	per yard super	19/5	29/5
<i>Roofing</i>			
		To B.S.	To B.S.
		988	1162
1" asphalt flat in two thicknesses on and including felt underlay	per yard super	11/7	19/2

## ASPHALTER—(continued)

		To B.S. 988	To B.S. 1162
¾" asphalt skirting 6" high with angle fillet at bottom and rounded top, turned into groove	per foot run	1/11½	2/5½
¾" asphalt fascia 6" high with solid water check roll at top and undercut drip at bottom	per foot run	2/8½	3/3

## DRAINLAYER

*Trenches and Beds*

N.B.—The following prices are applicable to hand excavation in heavy soil, only requiring planking and strutting for depths of 3' or more.

Excavate trenches for 4"-9" pipes, including planking and strutting, filling in and ramming, and wheeling and spreading surplus:—			
For each 12" in depth, for trenches not exceeding 3' 0" deep	per yard run	2/8	
Ditto for trenches exceeding 3' 0" and not exceeding 5' 0" deep	per yard run	4/-½	
Ditto for trenches exceeding 5' 0" and not exceeding 10' 0" deep	per yard run	6/5	
6" concrete (1:3:6) bed and benching for pipes	per yard run	4" 8/-	6" 9/4
6" ditto, and surround	per yard run	13/-	15/8

*Drains*

		3"	4"	6"
Clayware butt-jointed land drains and laying in trench	per foot run	-/4	-/4½	-/8
"Seconds" quality glazed stoneware socketed drains and laying and jointing in trench	per foot run	1/10	2/6½	4/3
"British Standard" quality ditto	per foot run	2/1	3/0	5/-
Extra on "Seconds" quality for bends	each	2/9	3/11	7/2
Ditto "British Standard" quality ditto	each	3/4½	4/11½	8/9
Extra on "Seconds" quality for single junction	each	3/6	5/1½	8/7
Ditto "British Standard" quality ditto	each	4/2	6/-	10/1
Cast iron socketed drains to B.S. 437 and laying and jointing in trench	per foot run	9/6	14/6	28/4
Extra for short radius bend (Fig. No. 4)	each	19/-	37/7	105/9
Extra for single junction (Fig. No. 18)	each	34/8	67/4	186/10

*Fittings, etc.*

		4"	6"
Glazed stoneware trapped gully with galvanized grating and outlet and setting in concrete	each	19/4	31/7
Ditto with vertical inlet ditto	each	23/-	35/3
Cast iron trapped gully with high invert, grating, and 4" outlet and setting in concrete	each	42/-	—
Ditto with vertical inlet ditto	each	51/6	—
Glazed stoneware intercepting trap with inspection arm, stopper and chain and fixing in manhole and jointing to drain	each	69/-	78/6
Brown glazed stoneware half round straight channels and bedding and jointing in cement mortar	per foot run	1/7	2/5
Ditto ordinary channel bend and ditto	each	4/10	6/9½
Cast iron coated single seal manhole cover and frame to B.S. 497 Grade C and setting frame in cement and cover in grease	each	24" x 18" 41/-	24" x 24" 57/6
Galvanized ditto	each	70/3	102/-

## PAVING

		1"	1"	1½"
Cement and sand (1:3) floated screed to receive pavings	per yard super	3/2	3/10	4/4
Ditto trowelled smooth to receive linoleum	per yard super	3/6	4/2	4/8
Cement and sand (1:3) paving trowelled hard and smooth	per yard super	3/6½	4/2½	4/8½
Granolithic paving (1:2½) laid on concrete	per yard super	5/5	6/3	6/10
¾" Red composition paving to B.S. 776 laid on prepared screed	per yard super	16/-		
¾" Terrazzo paving (Portland cement and spar aggregate) laid on prepared screed	per yard super	37/3		
Extra for white or cream cement	per yard super	5/3		
¾" Rubber flooring in all colours, laid on prepared screed	per yard super	41/-		
¾" x 12" x 12" Rubber tile flooring ditto	per yard super	51/6		

## Any Questions?

The applications of WARERITE Plastics are many and varied. We venture to say, however, that we have an intimate knowledge of them all.

Sometime, somewhere, one of the 'short-cuts' we have discovered might cut through a knotty problem of yours. That is the time to remember that the answers are all here for you—whenever you feel the need, write or 'phone for technical advice or booklets.

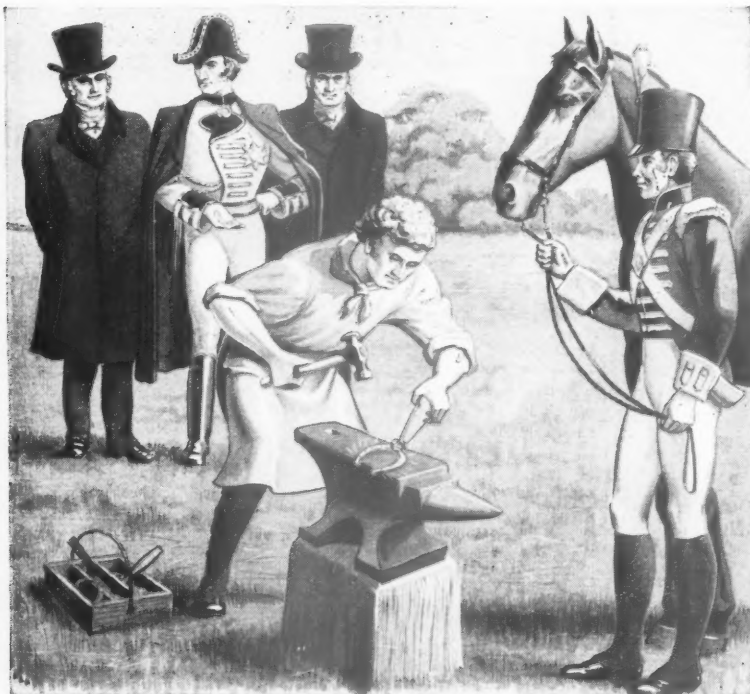
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Manufacturers of Decorative Laminates for 20 years



*"... we have each of us a trade and are in our proper position when exercising it ..."*

Wellington's reply to Canning in 1827 when asked to become Prime Minister.

# WELLINGTON

TUBE WORKS LTD

FOR STEEL TUBES AND  
STEEL TUBE FABRICATION

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GREAT BRIDGE

TIPTON

STAFF

PAVIO  
1/2" x 12  
shades  
surface  
1 1/2" Hard  
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1 1/2" Ditto  
6" x 6"  
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## PAVIOR—(continued)

$\frac{1}{4}$ " $\times$ 12" $\times$ 12" Cork tile flooring (brown shades) laid in mastic on prepared screed, surfaced and polished	per yard super	40/8
$\frac{1}{4}$ " Hard red paving bricks p.c. 340/- per M. laid flat on prepared bed in cement mortar	per yard super	18/11
$\frac{1}{4}$ " Ditto laid herringbone	per yard super	20/7
6" $\times$ 6" Red quarry tile paving to B.S. 1286 laid on prepared screed with straight joints	per yard super	19/7 21/10 $\frac{1}{2}$
6" $\times$ 6" Buff quarry tiles as last	per yard super	21/4 24/6
2 $\frac{1}{2}$ " (Finished) Gravel path laid on prepared bed, well watered and rolled to cambers and falls	per yard super	2/4

## MASON

Portland stone and all labours in pilasters, quoins, jambs, lintols, etc.	per foot cube	36/-
Ditto in arches, columns, cornices, etc.	per foot cube	50/-
Ashlar av. 6 $\frac{1}{2}$ " on bed with plain dressed face	per foot super	20/-
Portland stone or artificial stone to B.S. 1217 :-	Port-land	Arti-ficial
$\frac{1}{4}$ " $\times$ 4" Sill, sunk, weathered, throated and grooved for water bar, set and jointed in cement mortar	per foot run	6/9 4/3
9" $\times$ 3" ditto	per foot run	8/- 6/-
2" $\times$ 12" Coping, weathered and twice throated, set and jointed as last	per foot run	7/4 5/4
3" $\times$ 12" Ditto	per foot run	10/3 8/-
5" $\times$ 12" Saddle back coping twice throated, set and jointed as last	per foot run	17/- 12/3
6" $\times$ 12" Ditto	per foot run	18/9 14/10

## SLATER, TILER AND ROOFER

## Slate

Best Bangor slates to B.S. 680 laid with 3" lap, each slate nailed with two stout copper nails	per square	236/3 223/3
Ditto hung vertically to dormer cheeks and gables	per square	243/6 233/9

## Tiles

Best sand faced plain (ribbed) tiles to B.S. 402, 10 $\frac{1}{2}$ " $\times$ 6" laid to a 4" gauge with each tile in every fourth course nailed with galvanized nails	per square	162/9 155/-
Ditto hung vertically to dormer cheeks and gables to 4 $\frac{1}{2}$ " gauge with each tile nailed with galvanized nails	per square	158/- 150/3
Berkshire hand made sand faced red pantiles 14 $\frac{1}{2}$ " $\times$ 10" laid to 2 $\frac{1}{2}$ " head and 1 $\frac{1}{2}$ " side laps, each tile in every third course nailed with galvanized nails	per square	157/6 165/6
Ditto to mansard slopes	per square	99/9
Concrete plain (ribbed) tiles to B.S. 473, 10 $\frac{1}{2}$ " $\times$ 6" laid as before described for plain tiles	per square	103/6
Ditto hung vertically to dormer cheeks, and gables, ditto	per square	78/9 86/8
Concrete interlocking tiles 15" $\times$ 9" laid to 3" lap, each tile in every third course nailed with galvanized nails	per square	78/9 86/8
Ditto to mansard slopes ditto	per square	78/9 86/8

## Asbestos Cement

6" Corrugated asbestos cement sheeting fixed to wood roofs with galvanized drive screws and washers with a side lap of 1 $\frac{1}{2}$ corrugations and an end lap of 6"	per square	78/9
6" Ditto but fixed vertically	per square	84/-
Add to both last if fixed to steel purlins or sheeting rails with galvanized hook bolts	per square	2/11

## Felt

Reinforced bituminous roofing felt laid with 3" laps and nailed to rafters at 18" centres with galvanized clout nails	per square	26/3
One-ply bitumen felt to B.S. 989 laid on concrete. Each layer bedded in hot bitumen	per yard super	7/2 9/9

## CARPENTER

## Carcassing

Softwood, sawn and fixed, in plates, sleeper joists and lintols	per foot cube	17/11
Ditto in floor and ceiling joists	per foot cube	19/6
Ditto in stud partitions	per foot cube	21/-
Ditto in rafters	per foot cube	20/10
Ditto in purlins and struts	per foot cube	21/-

## CARPENTER—(continued)

Ditto and framing in ridge	per foot cube	20/10
Ditto in hip and valley rafters including cutting rafters to sizes	per foot cube	22/10

## Battening and Boarding

$\frac{1}{4}$ " $\times$ 1 $\frac{1}{2}$ " Battens nailed to softwood for 20" $\times$ 10" slates to 8 $\frac{1}{2}$ " gauge	per square	29/11 31/6
Ditto 16" $\times$ 10" slates to 6 $\frac{1}{2}$ " gauge	per square	37/10 39/11
Ditto 10 $\frac{1}{2}$ " $\times$ 6" tiles to 4" gauge (4 $\frac{1}{2}$ " for vertical hanging)	per square	60/4 57/9
Ditto 14 $\frac{1}{2}$ " $\times$ 10" pantiles to 12" gauge	per square	21/- 21/6
Ditto 15" $\times$ 9" concrete interlocking tiles to 12" gauge	per square	21/- 21/6
Roof boarding in batten widths close jointed and fixed to flat or sloping roofs	per square	124/- 159/9
Ditto tongued and grooved and prepared for felt roofing including firing to falls	per square	181/6 217/9
Sawn gang boarding fixed to joists in roof	per foot super	1/4 1/9
Wrot and cross-tongued eaves soffit	per foot super	2/- 2/5
6" Wrot and grooved eaves fascia planted on	per foot run	-/10 $\frac{1}{2}$ 1/1

## Wall and Ceiling Boards

$\frac{1}{4}$ " Fibre board to B.S. 1142 fixed with galvanized flat headed nails to softwood	per yard super	6/8 6/10
$\frac{3}{4}$ " Asbestos cement flat sheeting to B.S. 690 fixed as last	per yard super	5/4 5/7 $\frac{1}{2}$
$\frac{1}{4}$ " Ditto	per yard super	6/4 6/8

## JOINER

## Floors and Skirtings

(All thicknesses stated are nominal)

Plain edge softwood flooring in batten widths nailed to floor joists	per square	152/- 170/- 206/3
Tongued and grooved ditto	per square	168/- 180/3 218/-
1" Double grooved and tongued and grooved wood block floor laid herringbone with two-block border, set in hot mastic composition on prepared screed and wax polished :-		
Swedish softwood	per yard super	26/3
European Beech	per yard super	33/9
English Oak	per yard super	46/3
European Oak	per yard super	41/-
Burma Teak	per yard super	46/9
Softwood skirtings with splayed or molded top edge, planted on (per inch sectional area)	per foot run	-/2 $\frac{1}{2}$ -/2 $\frac{1}{2}$
Extra for grounds plugged to brickwork	per foot run	-/6

## Windows in Softwood

Rebated and molded softwood fanlights and casement sashes divided into squares for glass	per foot super	1 $\frac{1}{2}$ " 2" 2/9 3/-
Extra for hanging	each	6/1 6/1
Cased frames with 6" $\times$ 3" Oak sill and 2" molded double hung sashes including pulleys, line and weights	per foot super	— 9/9
N.B.—The above prices are for purpose made joinery. Standard pattern casement windows and double hung sashes and frames to B.S. 644 are cheaper.		

## Doors in Softwood

Framed ledged and braced doors filled in with 1" T. & G. and V-jointed boarding and hanging	per foot super	1 $\frac{1}{2}$ " 1 $\frac{1}{2}$ " 2" 4/7 5/6 5/6
Four-panel door, square both sides and hanging	per foot super	3/5 4/1 4/1
Ditto molded one side	per foot super	3/8 4/4 4/4
Ditto molded both sides	per foot super	3/11 $\frac{1}{2}$ 4/7 4/7
N.B.—The above prices are for purpose made doors. Standard panelled doors to B.S. 459 are cheaper.		
1 $\frac{1}{2}$ " Standard flush doors 2' 6" $\times$ 6' 6", internal pattern	each	97/6
2" Ditto external pattern	each	106/9

## Linings, Frames, etc., in Softwood

Window and door linings etc. (per inch in sectional area)	per foot run	Up to 6" 6" to 12" -/3 $\frac{1}{2}$ -/3
Frames wrot all round and framed (ditto)	per foot run	-/2 $\frac{1}{2}$ -/2 $\frac{1}{2}$
Mullions, transoms and cills (ditto)	per foot run	-/3 $\frac{1}{2}$ -/2 $\frac{1}{2}$
Moldings, architraves, etc. (ditto)	per foot run	2" to 4" 4" to 6" -/2 $\frac{1}{2}$ -/2 $\frac{1}{2}$



*Craftsman-laid with craftsman-made*

## SEMASTIC DECORATIVE TILES

A PRODUCT OF A DUNLOP COMPANY

At least one of the main features at the Essoldo Cinema in London's Edgware Road can be seen and appreciated without paying a penny in Entertainment Tax. As a glance at the picture will reveal, this added attraction consists of the foyer floor covering.

Semastic Decorative Tiles were chosen for this heavily trafficked area not only because they provided the required underfoot colour and comfort, but because they could stand up to the strain imposed by the thousands of pairs of feet that enter and leave the cinema each day. In other words,

these tiles are both attractive and hard-wearing, both comfortable and tough. A further important feature of this type of tile floor is that an intricate motif or a name style such as the one above can be *inlaid*.

Semastic Decorative Tiles, which are available in a wide and well-balanced range of plain and marbled colours, are craftsman-made by a Dunlop Company. They are laid only by approved contractors whose experience and qualifications place them amongst the country's best.

### INSTALLATION SERVICE

Countrywide installation is provided by the following floor laying specialists who represent the highest standard of experience and workmanship available in the country.

- ALBA FLOORING CO. LTD. • J. A. HEWETSON & CO. LTD. • HOLLIS BROS. LTD. • HORSLEY SMITH & CO. (HAYES) LTD.
- PILKINGTON'S ASPHALTE CO. LTD. • THE PENMAENMAWR & TRINIDAD LAKE ASPHALT CO. LTD.
- THE LIMMER & TRINIDAD LAKE ASPHALT CO. LTD. • SEMTEX LTD. • THE WESTERN TRINIDAD LAKE ASPHALT CO. LTD.

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### JOINED

6" Window  
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Standard

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## JOINER—(continued)

		Thickness	
		1"	1½"
6" Window boards with rounded nosings, tongued at back and including bearers	per foot run	2/7	2/10
9" Ditto	per foot run	2/11	3/2½
<i>Shelving and Fittings in Softwood</i>			
Shelving of 2" slats spaced 1" apart on bearers (measured separately)	per foot super	2/1½	2/8
Shelving on ditto	per foot super	2/2½	2/9
Crosstongued shelving on ditto	per foot super	2/9	3/4½
Shelving 9" wide on ditto	per foot run	1/9	2/1½
2" Shelf bearers plugged to walls	per foot run	-/11	1/1
The following in framed up cupboard fittings:—			
T. & G. & V-jointed back	per foot super	2/-	2/5
Crosstongued top, bottom shelf or division	per foot super	2/10	3/5
1½" Flush cupboard doors	per foot super	5/11½	
Labour rebate or groove	per foot run	-/2½	
Ditto cross-grain	per foot run	-/4	
1" x 2" Bearers screwed on	per foot run	-/5½	

N.B.—The above prices are for purpose-made cupboard fittings. Standard pattern kitchen fittings to B.S. 1195 are cheaper.

## IRONMONGERY

		Soft-wood	Hard-wood
3" Steel butts (medium quality)	per pair	-/9	-/9
4" Ditto (ditto)	per pair	1/5½	1/5½
Double action floor springs and top centres including filling boxes with oil P.C. 130/4	each	159/-	164/2
Overhead check action door springs. P.C. 63/9	each	79/10	83/1
6" Barrel bolts. P.C. 7/9	each	9/11	10/5
Cupboard locks. P.C. 8/2	each	11/11	12/10
Norfolk latches. P.C. 5/6	each	9/11	11/3
Cylinder night latch. P.C. 15/11	each	22/4	24/-
Mortice latch. P.C. 9/4	each	14/2	15/6
Rim lock. P.C. 10/-	each	13/11	14/11
Mortice lock. P.C. 15/2	each	21/6	23/2
Door furniture. P.C. 21/2	per set	24/3	24/7
Sash fasteners. P.C. 9/-	each	11/6	12/-
Casement fasteners. P.C. 7/11	each	9/10	10/4
Casement stays. P.C. 11/6	each	13/10	14/3

## STEEL AND IRONWORKER

*Structural Steelwork*

The following prices are for Basic sections (5" x 4½" to 16" x 6") only. Prices for other sections vary roughly in proportion to the price of the steel ex mills—see "Current Market Prices of Materials."

R.S.J.—in steel framed structures hoisted and fixed complete	per ton	£	s.	d.
Riveted compound girders including plates and rivets	per ton	53	5	9
R.S. Stanchions including caps, bases, cleats, etc	per ton	54	17	3
Riveted compound stanchions ditto	per ton	56	14	0
Riveted roof trusses with flat and angle members, plates, cleats, etc., 30' span	per ton	79	16	0
Ditto 40' span	per ton	77	14	0

*Sundries*

Simple wrought iron balustrades fixed complete (excluding mortices etc.)	per cwt.	9	1	0
Bolts with heads, nuts and washers and fixing	per cwt.	10	7	0

## PLASTERER AND TILE FIXER

24 gauge expanded metal lathing and fixing to softwood soffites	per yard super	5/3
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*Lime and Gypsum Plaster*

		Lime	Sirapite
Three coat lime and two coat Sirapite or similar Gypsum plaster:—			
On brick walls and partitions	per yard super	5/4	4/2
On concrete soffites including hacking	per yard super	6/5	5/10
On soffite of E.M.L. (measured separately)	per yard super	5/5	6/5
On and including wood laths, to soffites per yard super		9/2	—
1" Gypsum plasterboard fixed to softwood soffites, in accordance with manufacturer's instructions, scrimmed and finished with setting coat of suitable plaster	per yard super		6/7
Plaster moulded cornice or cove (per inch in girth)	per foot run	-/4½	

*Cement Rendering*

Rendering in Portland cement and sand (1:4) and setting in Keenes cement on brick walls and partitions	per yard super	5/3
Portland cement and sand (1:3) plain face trowelled smooth on ditto	per yard super	4/9
Portland cement and sand (1:3) screed for tiling on ditto	per yard super	2/6½

## PLASTERER AND TILE FIXER—(continued)

*Wall Tiler*

6" x 6" x ¾" Standard quality white glazed wall tiles set and jointed on prepared screed	per yard super	36/9
Ditto eggshell matt or glossy glazed enamelled	per yard super	46/6

## EXTERNAL PLUMBER AND COPPERSMITH AND ZINCWORKER

		Flats	Gutters, flashings, etc.	Stepped flashings
Milled sheet lead and labour	per cwt.	258/6	258/6	266/6
24 S.W.G. sheet copper and labour	per foot super	5/-	5/3	5/6
23 S.W.G. sheet copper and labour	per foot super	5/6	5/9	6/-
14 gauge zinc and labour	per foot super	3/5	3/8	3/11

*Rainwater Pipes and Gutters*

		3"		4"	
		With holder-bats	With nails	With holder-bats	With nails
Cast iron medium section (¾" metal) R.W. pipes and jointing and fixing to walls with pipe nails and distance pieces or holderbats (cutting and pinning holderbats measured separately)	per foot run	4/8	3/9	5/9	4/8
Pressed steel R.W. pipes and ditto	per foot run	3/3½	2/8½	4/7	3/11½
Asbestos cement R.W. pipes and ditto	per foot run	2/3	—	3/1½	—
Cast iron half round eaves gutter and jointed and fixed with brackets to fascia	per foot run	1" 2/1	¾" 2/10	¾" 3/6	¾" 4/3
Ditto O.G. ditto	per foot run	2/7	3/6	3/9	5/3
18 Gauge pressed steel half round ditto	per foot run	2/3	—	3/2	—
Ditto O.G. ditto	per foot run	2/9	—	3/7½	—
Asbestos cement half round ditto	per foot run	2/5	—	3/6½	—

*Soil and Ventilating Pipes*

		3"		4"	
		Heavy	Med.	Heavy	Med.
Lead soil, waste and ventilating pipes (17 lb. per yard for 3" and 22-8 lb. per yard for 4" diameter) fixed to walls with lead tacks and brass screws	per foot run	13/10	—	19/3	—
Medium or heavy section cast iron soil, waste and ventilating pipes with caulked joints, fixed to walls, with pipe nails and distance pieces	per foot run	4/10	4/5	6/-	6/-

## INTERNAL PLUMBER

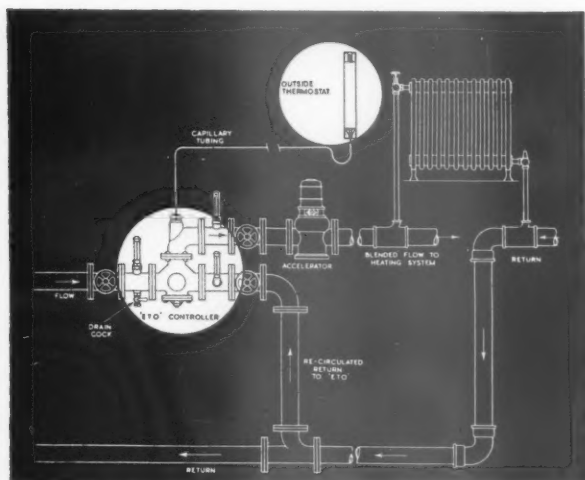
*Lead Pipes*

Prices are based upon the following weights per yard.

	1"	1½"	2"	2½"
Supply	7 lb.	11 lb.	16 lb.	21 lb.
Distributing	6	9	12-5	16
Flushing and overflow	3	5	7	9
Waste and ventilating	—	—	—	7
Supply pipe in trench (measured separately)	5/1	7/10	11/-	14/9
Ditto fixed to walls and ceilings	5/6	8/4	11/10	15/10
Distributing pipe fixed to walls and ceilings	4/10	7/1	9/7	12/7
Flushing and overflow pipe ditto	3/4	4/6	6/-	8/-
Waste and ventilating pipe ditto	—	—	—	6/9
Joints to fittings	each 5/3	6/4	6/9	7/11
Bends	each 1/-½	1/-½	1/4	1/7
Branch joints	each 6/3	7/5	8/-	9/3

*Steel Tubes and Fittings*

Galvanised steel tubes to B.S. 1387 Class C with screwed joints in red lead as supply pipe laid in trench (measured separately)	per foot run	1/8½	2/1	2/2	3/1
Ditto Class B ditto fixed to walls and ceilings as supply, distributing, waste pipe, etc.	per foot run	1/8	2/1	2/2	3/-
Joints to fittings	each	3/2	3/10	4/6	5/5
Bends	each	1/10	2/2	3/10	4/3
Tee, equal or reducing	each	1/11	2/2	2/10	3/7



## HEATING CONTROL

### IN ADVANCE

## OF CHANGES OF TEMPERATURE

The Sarco E.T.O. Controller anticipates the effect indoors of any external temperature change.

It is a self-contained fully-automatic control for accelerated hot-water heating systems, providing equable indoor temperatures under conditions of changing outdoor temperatures.

It controls heat supply at the minimum required to balance heat losses whatever the outside temperature conditions, giving maximum fuel economy.

It can be designed to suit heat emission curves appropriate to the type of heating surface installed.

It can, after installation, be corrected to allow for any variation between design and site conditions.

A boiler is subjected to less strain, and corrosion troubles avoided, because the boiler can be operated at a constant water temperature.

The E.T.O. is non-electric, entirely self-operating and direct-acting. It has packless glands which eliminate the trouble so commonly experienced with ordinary glands.

It is reasonable in cost; easy to install; easy on maintenance.

For more information, please send the request slip to SARCO THERMOSTATS LTD., CHELTENHAM, GLOS.

## SARCO E.T.O. CONTROLLER

REQUEST SLIP FOR ADDITIONAL INFORMATION

NAME:

ADDRESS:



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Lead & Gloss combined  
for  
DECORATION, DURABILITY  
and greater covering capacity  
with

# SULAC



## THE LEAD BASE, HIGH GLOSS ENAMEL PAINT

SULAC is the perfect combination of LEAD and GLOSS which produces a brilliant, hard finish of excellent covering power. It is for use Inside or Outside on all surfaces of Wood, Metal, Plaster and Stone.

SULAC is economical to use because of its fine obliterating qualities, yet it dries with a high gloss finish without brush marks. Manufactured in white and 24 attractive FAST colours.

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**INTERNAL PLUMBER—(continued)***Copper Tubes and Fittings*

Prices are based upon the following gauges:—

	$\frac{1}{2}$ "	$\frac{3}{4}$ "	1"	1 $\frac{1}{2}$ "
Supply ....	18	17	16	16
Distributing, waste, etc. ....	19	19	18	18
Copper tubes to B.S. 1386, as supply pipe laid in trench (couplings and trench measured separately) ....	per foot run 1/8 $\frac{1}{2}$	2/6	3/6	4/3
Ditto to B.S. 659 as distributing, waste pipes, etc. fixed to walls and ceilings. Couplings measured separately ....	per foot run 1/9	2/3	3/1 $\frac{1}{2}$	3/9
Brass compression type couplings—copper to copper ....	each 4/6	5/5	7/7	9/9
Ditto bends ....	each 6/-	7/1	10/5	13/4
Ditto tees ....	each 8/1	9/1	14/1	20/4

*Sanitary Fittings*

		£ s. d.
Fireclay sinks 24" $\times$ 18" $\times$ 10" including cutting and pinning brackets to tiled wall. P.C. 60/- ....	each	3 17 0
Combined metal sink and drainer 42" $\times$ 18" $\times$ 8 $\frac{1}{2}$ " to boilers (measured separately). P.C. 322/- ....	each	18 1 0
Fireclay lavatory basin 25" $\times$ 18" with taps and towel rail bracket including screwing brackets to tiled wall. P.C. 121/3 ....	each	7 4 0
Rectangular cast iron porcelain enamelled bath 5' 6" long, with taps, and panels to side and one end fixed to framing (measured separately) P.C. 362/3 ....	each	21 8 9
Fireclay w.c. pan with trap, plastic seat, high level cistern and flush pipe, including screwing pan to floor and cistern brackets to backboard. P.C. 194/6 ....	each	12 2 3
Ditto with low level cistern. P.C. 205/6 ....	each	12 15 6

**GLAZIER**

		To wood	To metal
18 oz. Ordinary quality sheet glass and glazing with putty in squares not exceeding 4 ft. sup. ....	per foot super	-/9	-/10
24 oz. Ditto and ditto ....	per foot super	-/10 $\frac{1}{2}$	-/11 $\frac{1}{2}$
32 oz. Ditto and ditto ....	per foot super	1/3 $\frac{1}{2}$	1/4
$\frac{1}{4}$ " Figured, rolled, and cathedral—untinted and ditto ....	per foot super	1/-	1/1
$\frac{1}{4}$ " Rough cast and ditto ....	per foot super	1/3	1/4
$\frac{1}{4}$ " Wired cast and ditto ....	per foot super	1/4	1/5
$\frac{1}{4}$ " Georgian wired cast and ditto ....	per foot super	1/4 $\frac{1}{2}$	1/5 $\frac{1}{2}$

**GLAZIER—(continued)**

		To wood	To metal
$\frac{1}{4}$ " Georgian wired polished plate and ditto ....	per foot super	4/10	4/11
$\frac{1}{4}$ " Polished plate (glazing quality) and ditto ....	per foot super	4/6 $\frac{1}{2}$	4/8

**PAINTER***Whitening, Distemper and Paint on Walls*

Prepare and twice whiten plastered walls and ceilings ....	per yard super	1/-
Prepare and twice distemper with washable distemper on plastered walls and ceilings ....	per yard super	1/7
Ditto on brick or concrete ....	per yard super	2/1
Prepare, prime, and paint two coats oil colour on plastered walls and ceilings ....	per yard super	4/5

*Paint on Metal*

		Basic price	Add for each additional coat
Prepare, prime, and paint one coat oil colour on general surfaces ....	per yard super	2/10 $\frac{1}{2}$	1/3
Ditto metal casements ....	per yard super	4/3 $\frac{1}{2}$	1/10
Ditto members of roof trusses ....	per yard super	3/7	1/6 $\frac{1}{2}$
Ditto balustrades one side ....	per yard super	4/3 $\frac{1}{2}$	1/10
Ditto bars, etc., not exceeding 6" girth ....	per yard run	-/8 $\frac{1}{2}$	-/3 $\frac{1}{2}$
Ditto small pipe ....	per yard run	-/8 $\frac{1}{2}$	-/3 $\frac{1}{2}$
Ditto large pipe ....	per yard run	1/5 $\frac{1}{2}$	-/7 $\frac{1}{2}$

*Paint on Wood*

		Basic price	Add for each additional coat
Knot, prime, stop and paint one coat oil colour on general surfaces of woodwork ....	per yard super	3/2	1/3
Ditto on skirtings, rails, frames, etc., not exceeding 3" girth ....	per yard run	-/5	-/2
Ditto ditto for each additional 3" in girth ....	per yard run	-/4	-/1 $\frac{1}{2}$
Ditto on sash squares one side ....	per dozen	4/-	1/6
Ditto on large sash squares one side ....	per dozen	7/3	2/8 $\frac{1}{2}$

*Stain and Varnish on Wood*

Prepare, size, stain and twice varnish on general surfaces of woodwork ....	per yard super	3/2 $\frac{1}{2}$
Ditto on skirtings, rails, frames, etc. not exceeding 3" girth ....	per yard run	-/5
Ditto ditto for each additional 3" in girth ....	per yard run	-/4 $\frac{1}{2}$

*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.*

**INFORMATION CENTRE****20.202 construction: complete structures  
CONCRETE FRAMED-BUILDING**

*Charles House, Kensington. (Concrete Quarterly. March, 1951: pp 31-34.)*

Rapidly-constructed concrete-framed building, demonstrating the effects of good co-operation between architects, engineers and contractors.

We have become so accustomed to reports of the speed of American building that it is interesting to record the speedy manner in which the frame of Charles House was constructed. Columns were arranged on a regular grid, identical on each of the 8 floors; the only deviations being at the junctions of the wings and the main spine, where staircases, lift shafts and lavatories had to be accommodated. Column sizes were standardized; internal columns being 18 in.  $\times$  12 in. for the first six stories and 12 in.  $\times$  12 in. from seventh floor to roof. External columns were 15 in.  $\times$  13

in. throughout the building, although here too, slight deviations were essential at the staircases, etc.

The columns were cast *in situ*, as many as 56 being concreted in one day, and some moulds were used six times each week. Precast beams, with reinforcement projecting from each end, were hoisted into position and temporarily supported at the heads; special column clamps, designed by the con-

tractor, provided both support and shuttering at the same time, and, when the floor slabs were cast, the column, beam top and slab became a monolithic whole.

The site was cleared in November, 1948, building commenced in December, and by the following July the whole framework and floors of the building, covering an area of 53,000 sq. ft., was complete. The building was occupied in the summer of 1950.



*Charles House, Kensington High St. (architect: A. S. Ash, consulting engineer: W. V. Zinn). Progress photograph taken 6 months after work commenced.*

Readers requiring up-to-date information on building products and services may complete and post this form to *The Architects' Journal*, 9, 11 and 13, Queen Anne's Gate, S.W.1.

## ENQUIRY FORM

I am interested in the following advertisements appearing in this issue of "*The Architects' Journal*." (BLOCK LETTERS, and list in alphabetical order of manufacturers names please).

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Please ask manufacturers to send further particulars to:—

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A.J.9.8.51

## Buildings Illustrated

*The Exhibition at Canterbury.* (Pages 157-160.) Architects: L. H. Wilson, A.R.I.B.A., A.M.T.P.I.; C. W. Gummer, A.R.I.B.A.; D. Chamberlaine, A.R.I.B.A.; R. W. Paine, A.R.I.B.A., A.R.C.A. Some of the displays designed and executed by Students of the Canterbury College of Art: Principal, A. Moody. General Contractors and Structural Work: G. H. Denne & Son Ltd.; G. S. Joiner & Son Ltd.; G. Lewis & Sons (Dover) Ltd.; B. R. Rigden, H. Goodsell; J. E. Wiltshier & Co. Ltd.; E. G. Pitcher Ltd.; K. A. Hawkes Ltd.; Richard Costain Ltd. Sub-contractors: plumbing, K. Hills; W. G. Flanders & Sons Ltd.; roofing, The Val de Travers Asphalt Paving Co. Ltd.; oast house and farm, the Marley Tile Co. Ltd.; electrical work, S. W. Bligh Ltd.; electrical fittings, Troughton & Young Ltd.; building material, Robert Brett & Sons Ltd.; pavilion scaffolding, Mills Scaffold Co., Ltd.; tubular work, G. N. Haden & Sons Ltd.; Tice & Co. (Engineers) Ltd.; paint and distemper, Hadfields (Merton) Ltd.; W. H. Screeton Ltd.; Walpamur Co. Ltd.; glazing, James Clark & Eaton Ltd.; awnings and blinds, A. H. Amey & Son Ltd.; handrails and banisters, Allen & Greaves Ltd.

*Redesigned Station Interior at Charing Cross.* (Page 161.) Architect: Jack Howe, F.R.I.B.A. General Contractors: London Transport Executive Works and Buildings Department. Sub-contractors: Tiling, Carter & Co.; renovations, C. & T. Painters Ltd.; ceiling, C. F. Anderson & Son; shops, E. Pollard & Co. Ltd.

*Exhibition of Industrial Power in the Kelvin Hall, Glasgow.* (Pages 163-165.) Co-ordinating Architect, Basil Spence, O.B.E., F.R.I.B.A. Designer-Architects: Coal, Hulme

Chadwick, A.R.C.A., A.R.A.E.S. Steel, Machine Tools, Steam Engines and Electric Power, Albert Smith, F.S.I.A., N.R.D. Shipbuilding and Railways, Jack Coia, F.R.I.B.A., D.A. (GLAS.). Civil Engineering and Irrigation, Douglas Stephen. Hydro-Electricity, Arthur Braven, A.R.I.B.A. Main Contractors: Armstrong (Wridale) & Co., Ltd. Ventilation and Water Consultants: Donald Smith, Seymour & Rooley. Structural Steel Consultants: George Davie, Crawford & Partners. Steel Contractors: The Blantyre Engineering Co., Ltd.; Bone, Connell & Baxter Ltd.; Redpath Brown & Co., Ltd.; The Lambhill Ironworks Limited; Edward Jamieson & Co. Ltd. Flat Display: Colin Hunter Ltd.; City Display Organization Ltd.; Electrical Work: Courtney, Pope (Electrical) Ltd.

*"St. Bridget's House."* 3-7, Bridewell Place, E.C.4. (Pages 167-172.) Architects: Trehearne and Norman, Preston & Partners Consulting Engineers: Travers, Morgan & Partners. General Contractors: Trollope & Colls, Ltd. Sub-contractors: Sanitary Fittings, John Bolding & Sons Ltd.; external faience and internal tiling, Carter & Co. (London) Ltd.; metal windows, the Crittall Manufacturing Co. Ltd.; Terrazzo, Fenning & Co. Ltd.; "Paropa" roofing, Frazzi Ltd.; wood block floors, Hollis Bros. Ltd.; staircase balustrade and front railings, the Kingsmill Metal Co. Ltd.; metal door frames and skirtings, the Morris Singer Co. Ltd.; Quarzite and Westmorland slate facings, John Stubbs Ltd.; main entrance and doorway and screen, Wainwright & Waring Ltd.; marble entrance floor and hall, J. Whitehead & Sons Ltd.; heating and hot water, Young, Austen & Young Ltd.; glazing, James Clark & Eaton Ltd.; lifts, Waygood-Otis Ltd.

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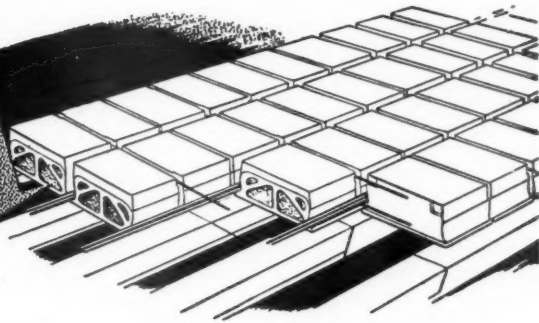
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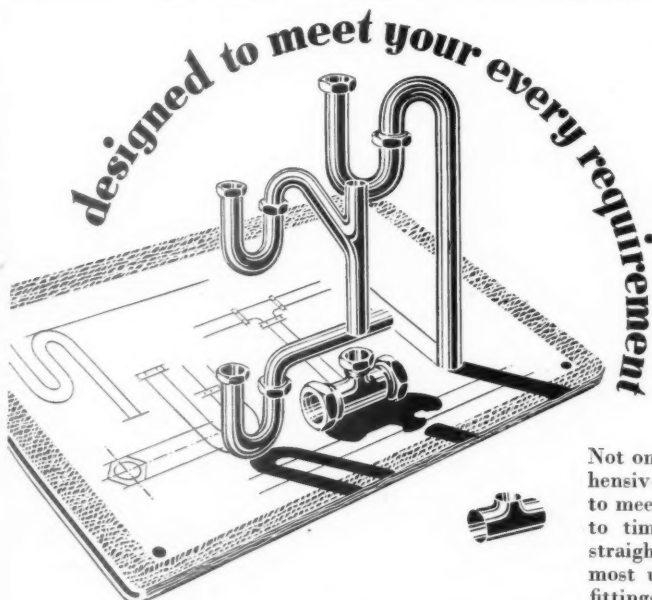
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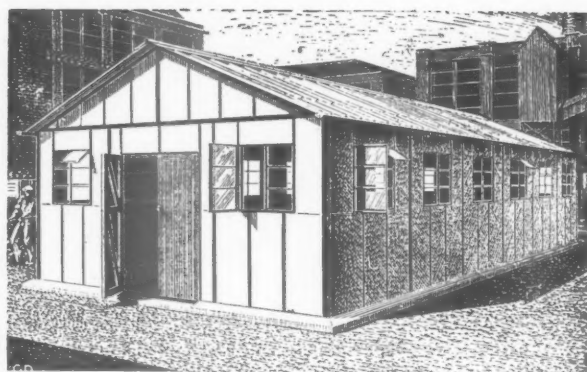
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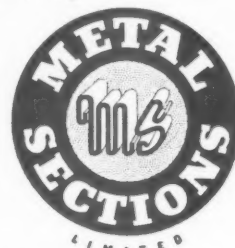


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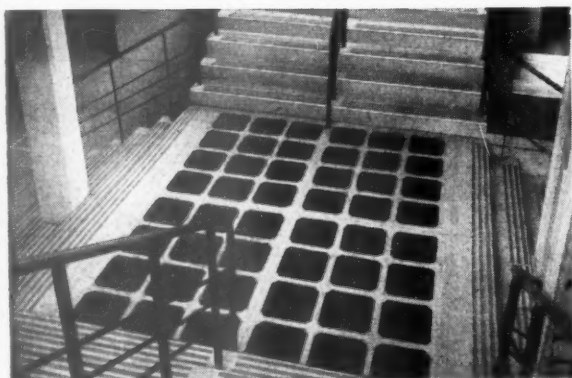
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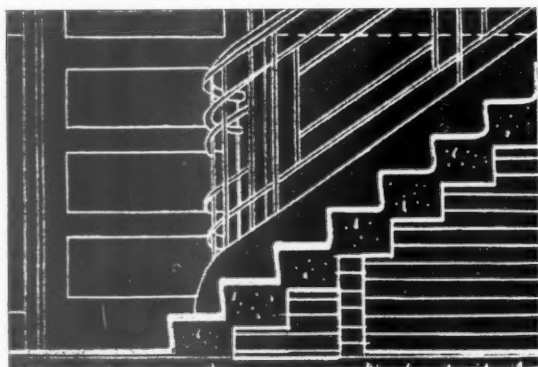


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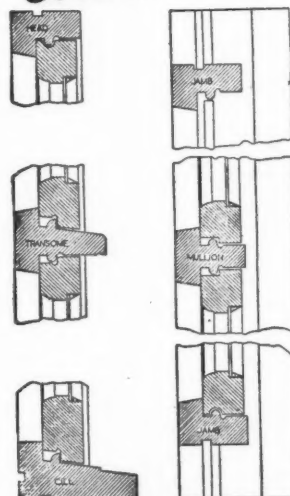
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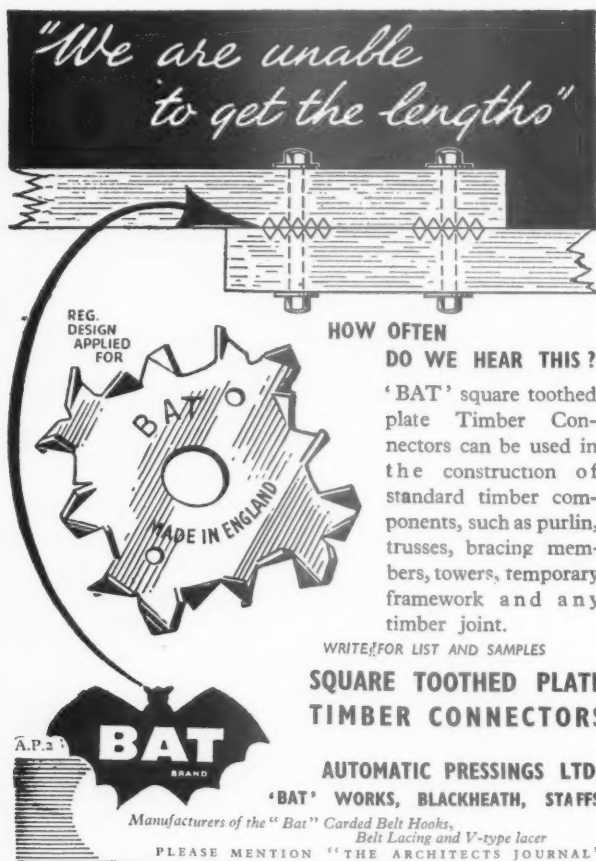
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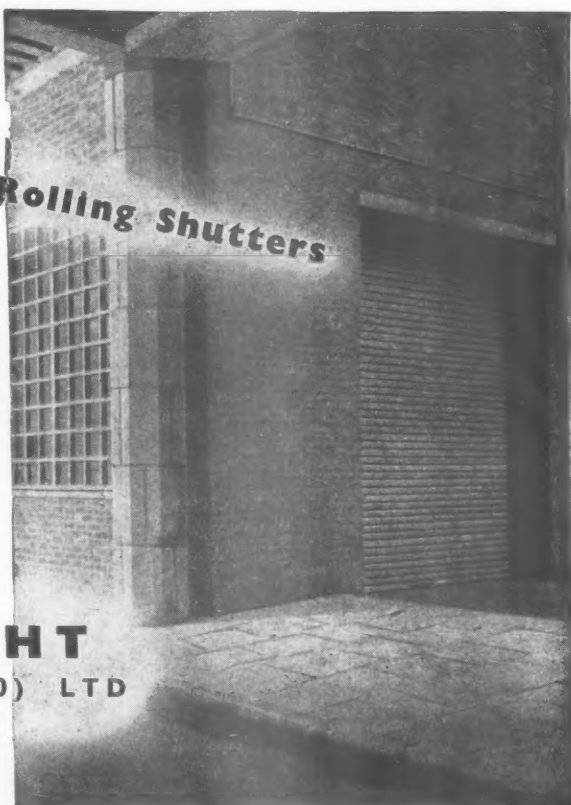
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Replies to Box Numbers should be addressed care of "The Architects' Journal," at the address given above.

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### LONDON COUNTY COUNCIL.

Applications are invited for positions of ARCHITECTURAL ASSISTANT (salaries up to £580 basic a year) in the Housing and Valuation Department. Commencing salaries will be determined according to qualifications and experience. Engagement will be subject to the Local Government Superannuation Acts, and successful candidates will be eligible for consideration for appointment to the permanent staff on the occurrence of vacancies.

All rates of pay up to £600 a year (basic) are at present subject to an addition of 10 per cent.

Successful candidates will be required to assist in the design, layout and preparation of working drawings for housing schemes, cottages and multi-storey flats, and will be employed in the Housing Architect's Division.

Forms of application may be obtained from the Director of Housing, The County Hall, Westminster Bridge, S.E.1 (stamped addressed envelope required and quote reference A.A.1). Canvassing disqualifies. (816) 2615

### ADMINISTRATIVE COUNTY OF EAST SUFFOLK.

#### APPOINTMENT OF PLANNING ASSISTANT (GRADE V, £570-£620).

Applications are invited from suitably qualified persons for the appointment of Planning Assistant in the County Planning Department.

The duties of the appointment will comprise work in connection with the preparation of Development Plans, and candidates should have had experience in all aspects of Town and Country Planning, the preparation of factual surveys and the planning of towns and villages.

Applicants for the appointment should have passed the Associate Membership Examination of the Town Planning Institute. Qualifications in engineering, surveying or architecture would be an advantage.

Applications, stating age, qualifications, experience, present and past appointments, present salary, and giving names and addresses of two referees, to be delivered to the County Planning Officer, County Hall, Ipswich, not later than Saturday morning, the 18th August, 1951.

G. C. LIGHTFOOT.

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### CITY AND COUNTY OF CANTERBURY. CITY ARCHITECT'S DEPARTMENT.

The City Architect invites applications for the appointment of an ASSISTANT ARCHITECT. Salary scale, A.P.T., V (£570 per annum, rising to £620).

Applicants should be Associates of the Royal Institute of British Architects. Previous experience of Educational Buildings is desirable, but not essential. A keen interest and some experience in contemporary design is essential.

The appointment will be subject to one month's notice in writing on either side, and to the terms of the National Joint Council's Scheme of Conditions of Service and the provisions of the Local Government Superannuation Act, 1937. The successful applicant will be required to pass a medical examination.

Applications, giving age, qualifications and experience, and the names and addresses of two persons to whom reference may be made, should be sent to L. Hugh Wilson, Esq., A.R.I.B.A., A.M.T.P.I., City Architect and Planning Officer, Municipal Buildings, Canterbury, not later than Friday, 17th August, 1951.

Canvassing, directly or indirectly, will be a disqualification.

J. BOYLE.

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Applications, giving age, qualifications and full details of present and past experience, salaries and appointments held, together with the names of three persons to whom reference may be made, should be addressed to the General Manager at Midlands Bank Chambers, Welwyn Garden City, Herts., and be received by 4th September, 1951.

4078

### BOROUGH OF ILKESTON. APPOINTMENT OF ARCHITECTURAL ASSISTANTS.

BOROUGH SURVEYOR'S DEPARTMENT. Applications are invited for the following appointments:—

(a) ONE ARCHITECTURAL ASSISTANT (A.P.T., Va.).

(b) ONE ARCHITECTURAL ASSISTANT (Gen. Div. to Grade III), according to qualifications and experience.

Candidates for appointment (a) must be Registered Architects, with good experience in the design of houses and estate development. Previous Municipal experience will be an advantage.

Candidates for appointment (b) should preferably have the appropriate technical qualifications.

Applicants must disclose in writing whether or not they are related to any member or senior officer of the Council. Canvassing will disqualify.

Forms of application, conditions of appointment, and any other information, can be obtained from A. O. Marshall, M.I.Mun.E., M.I.Struct.E., F.I.A.A., Borough Surveyor and Water Engineer, Town Hall, Ilkeston, to whom the applications are to be submitted by Monday, 27th August, 1951.

No housing accommodation can be offered.

J. YATES.

Town Clerk.

Town Hall, Ilkeston. 4049

### CITY OF BATH. CITY PLANNING AND ARCHITECTURAL DEPARTMENT.

#### AMENDED ADVERTISEMENT.

Applications are invited for the appointment of CHIEF ARCHITECTURAL ASSISTANT, Grade A.P.T., VII (£695-£760 per annum). Applicants must be Registered Architects, and preference will be given to those who are Associates of the Royal Institute of British Architects. They should have good experience in design and construction of Municipal housing and other works.

The appointment is subject to the provisions of the Local Government Superannuation Act, 1937, and the successful candidate will be required to pass a medical examination.

Applications, stating age, qualifications and experience, together with the names and addresses of three referees, should be sent to the City Planning Officer and Architect, 2, Princes Buildings, Bath, not later than the 18th August, 1951.

The Corporation are prepared to render assistance to the successful candidate in securing housing accommodation if required.

JARED E. DIXON.

Town Clerk.

Guildhall, Bath. 4047

### BOROUGH OF SCARBOROUGH. APPOINTMENT OF ARCHITECTURAL ASSISTANT.

Applications are invited for the permanent position of ARCHITECTURAL ASSISTANT, Grade A.P.T., V (£570-£620), in the Borough Engineer's Department.

The position is superannuable.

Housing accommodation is available if required. Applications, stating age, experience, qualifications, past and present appointments, and the names of two persons to whom reference may be made, to reach the undersigned by Tuesday, 14th August, 1951.

H. V. OVERFIELD, M.I.C.E.,

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### COUNTY BOROUGH OF BARNESLEY. DIRECT LABOUR BUILDING DEPARTMENT. APPOINTMENT OF BUILDING MANAGER.

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The appointment will be subject to the Council's Scheme of Conditions of Service, to the General Conditions of Service which the Corporation has varied from time to time and to the provisions of the Local Government Superannuation Act, 1937.

The successful candidate will be required to pass a medical examination, and the appointment will be subject to two months' notice on either side.

Applicants must be capable of managing the whole of the building works to be carried out by direct labour, both in the erection of houses, schools and other buildings, and in the renovation, alteration and maintenance of all properties under the control of the Council.

Applicants must either have held a similar position with another Local Authority or had extensive experience with a large Building Contractor, and be highly competent in management, administration and the control of labour. He must be thoroughly experienced in building construction, estimating, costing of building works, and the purchase of plant and materials.

Applications, giving age and full details of professional qualifications and experience, together with the names of three persons to whom reference may be made, should be submitted to the undersigned not later than Monday, 27th August, 1951.

Canvassing, either directly or indirectly, will disqualify.

A. E. GILFILLAN.

Town Clerk.

Town Clerk's Office, Town Hall, Barnsley. 30th July, 1951. 4068

### BOROUGH OF EALING. BOROUGH ENGINEER AND SURVEYOR'S DEPARTMENT.

Applications are invited for the permanent appointment of a SENIOR ARCHITECTURAL ASSISTANT. Candidates must be either Associate Members of the Royal Institute of British Architects or possess a recognised equivalent qualification. Candidates with Municipal experience preferred.

The salary for the appointment will be within Grades VII-VIII of the A.P.T. Division of the National Scheme of Conditions of Service (£715-£840 per annum, inclusive of London weighting).

The Council are unable to provide housing accommodation for the successful candidate.

Forms of application, together with Conditions of Appointment must be obtained from the Borough Engineer and Surveyor, Town Hall, Ealing, W.5, and must be returned to me not later than the 13th August, 1951.

E. J. COPE-BROWN.

Town Clerk.

23rd July, 1951. 4043

### MINISTRY OF WORKS.

There are vacancies in the Chief Architect's Division for ARCHITECTURAL ASSISTANTS, with recognised training and fair experience. Successful candidates will be employed in London and elsewhere on a wide variety of Public Buildings, including Atomic Energy and other Research Establishments, Telephone Exchanges, and Housing.

Salary: Architectural Assistants, £300-£525 per annum. Starting pay will be assessed according to age, qualifications and experience. These rates are for London; a small deduction is made in the Provinces.

Although these are not established posts, some of them have long term possibilities, and competitions are held periodically to fill established vacancies.

Apply in writing, stating age, nationality, full details of experience and locality preferred, to Chief Architect, Ministry of Works, Abel House, John Islip Street, London, S.W.1, quoting reference WG10/BC. 2914

### METROPOLITAN BOROUGH OF LEWISHAM.

#### APPOINTMENT OF SENIOR ASSISTANT ARCHITECT.

Applications are invited for the appointment of Senior Assistant Architect in the Borough Architect's Department, at a salary within the scale A.P.T. Division, Grade VIII (£735-£810 per annum, plus London "weighting," age 26 and over, £30 per annum).

Applicants must possess an approved University degree in architecture, or be Associates of the Royal Institute of British Architects, with at least 8 years' experience (excluding the period spent in theoretical training), or possess a University degree in architecture in addition to being Associates of the Royal Institute of British Architects with at least 7 years' experience (excluding the period spent in theoretical training). Preference will be given to candidates with wide housing experience, including the design and construction of multi-storey flats.

The appointment will be subject to the Rules and Regulations of the Council from time to time in force relating to Officers; to the National Scheme of Conditions of Service; to the provisions of the Local Government Superannuation Act, 1937; to termination by one month's notice on either side, and to the successful candidate passing satisfactorily a medical examination by the Council's Medical Officer of Health.

Forms of application may be obtained from the undersigned, to whom they should be returned accompanied by copies of not more than three recent testimonials, in an envelope, endorsed "Appointment of Senior Architect," so as to be received not later than Saturday, the 25th August, 1951.

Canvassing, either directly or indirectly, will be a disqualification.

ALAN MILNER SMITH.

Town Clerk.

Lewisham Town Hall, Catford, S.E.6. 4070

### COUNTY BOROUGH OF MERTHYR TYDFIL. BOROUGH ENGINEER'S AND SURVEYOR'S DEPARTMENT.

#### APPOINTMENT OF ARCHITECTURAL ASSISTANT.

Applications are invited for the above appointment. The salary will be in accordance with A.P.T., Grade IV, of the National Scheme of Conditions of Service (£550-£575).

Candidates must have passed the Intermediate R.I.B.A. Examination and have had at least two years' experience after attaining that qualification.

The appointment will be subject to:—

(1) Scheme of Conditions of Service of the National Joint Council.

(2) Provision of the Local Government Superannuation Act, 1937.

(3) The passing of a satisfactory medical examination.

(4) One month's written notice on either side. The Council will provide housing accommodation if required.

Applications, stating age, qualifications and experience, together with copies of three recent testimonials, should be delivered to the undersigned not later than Tuesday, the 21st August, 1951.

Canvassing in any form will be deemed a disqualification.

T. S. EVANS.

Town Clerk.

Town Hall, Merthyr Tydfil. 30th July, 1951. 4069



# **BOROUGH OF GOSPORT. BOROUGH ENGINEER AND SURVEYOR'S DEPARTMENT.**

## **APPOINTMENT OF QUANTITY SURVEYOR.** Applications are invited for the appointment of a Quantity Surveyor in the A.P.T. Division, Grade VI. Salary £645-£710.

Preference will be given to applicants who are Chartered Quantity Surveyors. Applicants must be fully experienced in, and prepared to accept responsibility, for the preparations of Bills of Quantities, measurement of works on site, agreement of final accounts, etc.

The appointment is subject to the National Conditions of Service for Local Government Officers, the Local Government Superannuation Act, 1937, the passing of a medical examination, and one month's notice on either side.

Applications, stating age, qualifications, present and previous appointments, details of experience, and accompanied by copies of two recent testimonials, should be sent suitably endorsed to the undersigned, to reach him not later than 24th August, 1951.

**EDWARD ADDENBROOKE.**

*Town Clerk.*

Town Hall, Gosport.

27th July, 1951.

4067

## **SOUTH-EASTERN GAS BOARD.**

### **WEST SURREY DIVISION.**

#### **GAS ENGINEERING DRAUGHTSMEN.**

Vacancies exist for Gas Engineering Draughtsmen in the Wandsworth Drawing Office of the West Surrey Division of the South-Eastern Gas Board.

Salary will be according to qualifications and experience, and within the ranges of £485-£565 and £600-£700 per annum.

Applicants for the higher paid position must have had at least 10 years' drawing office experience with Gas Undertakings or Gas Works Plant Contractors and must be competent to design and detail mild steel structures, foundations, gas and steam mains, etc.

Applications in writing (quoting reference V16/153), giving age, present occupation, experience and qualifications, etc., should reach the undersigned not later than 14 days after publication of this notice.

**R. J. McRAE.**

*Personnel Manager.*

Katharine Street, Croydon.

4077

## **CITY OF GLOUCESTER.**

### **CITY ARCHITECT'S DEPARTMENT.**

Applications are invited for the appointment of an ASSISTANT ARCHITECT. Salary A.P.T., Grade V (£570-£620 per annum).

Preference will be given to Associate Members of the R.I.B.A., and the appointment is subject to the Local Government Superannuation Act, 1937.

Applications, stating age, whether married or single, training, qualifications, experience, previous appointments and present position, together with copies of recent testimonials, should reach the undersigned not later than Monday, the 20th August, 1951.

**A. MORGAN, L.R.I.B.A.**

*City Architect.*

Suffolk House, Greyfriars, Gloucester.

July, 1951.

4087

## **COUNTY BOROUGH OF WEST HAM.**

Applications are invited for following posts on permanent establishment of Department of Borough Architect and Planning Officer in connection with Reconstruction Programme of the Borough.

### **ARCHITECTURE:**

**SENIOR ASSISTANT ARCHITECT (TWO).**

A.P.T., Grade VIII (£735-£810).

**SENIOR ASSISTANT ARCHITECT. A.P.T.,**

Grade VII (£685-£760).

Applicants should be A.R.I.B.A., having considerable experience in large Housing and Education works and Public Buildings, and should be capable of taking complete charge of contracts.

**ASSISTANT ARCHITECT. A.P.T., Grade VI**

(£645-£710).

**ASSISTANT ARCHITECT. A.P.T., Grade V/Va**

(£570-£620).

Applicants should be A.R.I.B.A. or Registered Architects, and have had experience in large Housing and Education works and able to supervise contracts.

### **PLANNING:**

**SENIOR ASSISTANT (PLANNING). A.P.T.,**

Grade VIII (£735-£810).

**SENIOR ASSISTANT (PLANNING). A.P.T.,**

Grade VII (£685-£760).

Applicants should be A.R.I.B.A. and A.M.T.P.I., and experienced in the planning work entailed in the reconstruction of a war damaged and obsolete area.

**GENERAL ASSISTANTS, TECHNICAL (Architecture and Planning). General Division Scale:**

£150 (age 16), £245 (age 21), £425 (age 30).

Applicants should be probationers of the R.I.B.A. Previous experience in an Architect's office is desirable, but not essential. Applicants should state their position regarding military service.

London allowance in addition to salary scales, viz.: £10 p.a. (16-20 years), £20 p.a. (21-25 years), £30 p.a. (26 years and over).

Application Forms (returnable by 28th August, 1951) to be obtained from Borough Architect and Planning Officer, Thomas E. North, F.R.I.B.A., 70, West Ham Lane, Stratford, E.15.

The office is situated within 20 minutes on the tube from Central London.

**G. E. SMITH.**

*Town Clerk.*

West Ham Town Hall, Stratford, E.15.

4086

# **NATIONAL COAL BOARD. NORTH-EASTERN DIVISION. ARCHITECTURAL STAFF.**

Applications are invited for the following appointments in the Chief Architect's Department of the Division at Denaby, near Doncaster.

**ARCHITECTURAL ASSISTANTS, Grade I.** Salary scale: £410-£220 to £550 per annum (men); £340-£115 to £445 per annum (women).

Applicants should have passed the Intermediate Examination of the R.I.B.A., and should have some experience in the preparation of sketch plans, working drawings and specifications, and have a good knowledge of building construction. (Commencing salary according to qualifications and experience).

**ARCHITECTURAL ASSISTANTS, Grade II.** Salary scale: £300-£20 to £440 per annum (men); £247-£15 to £352 per annum (women).

Applicants should be probationers of the R.I.B.A. and be actively engaged in study for the Intermediate Examination.

**QUANTITY SURVEYING ASSISTANTS, Grade I.** Salary scale: £410-£20 to £550 per annum.

Applicants should have had five years' office experience in "working up." Preference will be given to applicants who have passed the Intermediate Examination (Quantities Section) of the R.I.C.S.

**QUANTITY SURVEYING ASSISTANTS, Grade II.** Salary scale: £300-£20 to £440 per annum.

Applicants should have had at least two years' office training and some experience in "working up." Preference will be given to Students of the R.I.C.S. who are preparing for the Intermediate Examination (Quantities Section) of the R.I.C.S.

**JUNIOR QUANTITY SURVEYING ASSISTANTS.** Salary scale: £100 to £358 per annum (according to age).

Applicants must hold School Certificate with four credits (one of which must be mathematics), or the equivalent thereof, and be prepared to take the examinations (Quantities) Section of the R.I.C.S.

**ENGINEERING ASSISTANT (Building-Electrical), Grade I.** Salary scale: £410-£20 to £550 per annum (according to qualifications and experience).

Applicants should have drawing office experience in the preparation of layouts and schedules for the installation of power and lighting in building.

**ENGINEERING ASSISTANT (Building-Heating and Mechanical), Grade II.** Salary scale: £300-£20 to £440 per annum, according to qualifications and experience.

Applicants should have drawing office experience in the preparation of layouts and schedules for the installation of heating, hot water, ventilation, and mechanical plant in building.

The work of the Department covers Pithead Baths, Canteens, Medical Centres, Workshops, Offices, Laboratories, Recreation Buildings, etc.

Applications for the above appointments should be made on Form S.B.A. obtained from the Establishments Officer, National Coal Board, North-Eastern Division, Rannmoor Hall, Belgrave Road, Sheffield, 10.

4100

## **METROPOLITAN BOROUGH OF HAMPSHIRE.**

Applications are invited for the appointment of an ASSISTANT ARCHITECT (Temporary) in the Housing Architect's Section of the Borough Engineer and Surveyor's Department, at a salary within Grade A.P.T. V (£570 to £620 per annum, plus London weighting), to be fixed according to qualifications and experience. Age limit 45 years of age on 1st January, 1951.

Applicants should be suitably qualified, and have experience in general Architectural work, including Municipal flat and house planning and design, adaptations and conversions, and be able to prepare working drawings and specifications.

Applications, stating age, examination qualifications, present and past appointments, with dates and salaries, detailed particulars of experience, and accompanied by copies of three recent testimonials or names of three referees, must be delivered to me in a sealed envelope endorsed "Architectural Assistant," not later than 12 noon on Monday, 3rd September, 1951.

Applicants must disclose in writing whether they are to their knowledge related to any member or senior officer of the Council. The Council are unable to provide housing accommodation.

Canvassing will disqualify.

**P. H. HARROLD.**

*Town Clerk.*

Town Hall, Haverstock Hill, N.W.3.

September, 1951.

4089

## **BRACKNELL DEVELOPMENT CORPORATION**

(BRACKNELL BERKS).

Applications are invited for the following appointments:—

(1) **CHIEF ASSISTANT ARCHITECT.** at a commencing salary of £1,200 p.a. The successful candidate will be responsible for the control of a large drawing office engaged on a wide variety of work both architectural and planning, and for the co-ordination of a large building programme.

(2) **SENIOR ARCHITECT.** Salary £960-£50-£1,060 p.a. The successful candidate will be responsible for the control of that section of the department engaged on planning and all architectural work other than housing.

The posts will be superannuable under the Local Government Superannuation Act, 1937, and the successful candidates will be required to pass a medical examination.

Subsistence allowances are payable for a limited period in addition to salary in certain cases to allow of arrangements being made for family accommodation locally.

Candidates are required to state if they are, to their knowledge, related to any member of the Corporation or staff.

Successful applicants will work under the direction of E. A. Ferriby, B.Arch., A.R.I.B.A., A.M.T.P.I., Chief Architect to the Corporation.

Applications, giving full particulars of the candidate's age, qualifications and experience, together with the names of three persons to whom reference can be made, must reach the General Manager, Bracknell Development Corporation, Farley Hall, Binfield, Bracknell, Berks., on or before 23rd August, 1951, marking envelope "Architect."

4085

## **LONDON COUNTY COUNCIL.**

Brixton School of Building. Required in September, 1951, an ASSISTANT, Grade B, to lecture on Building Construction and to supervise studio work for Architects and Surveyors.

Applicants must be Corporate Members of the R.I.B.A. or the R.I.C.S., and have good professional experience. Teaching experience will be a recommendation. Salary, Burnham (Technical) Scale, maximum £833 p.a., plus allowance for approved training, professional and full-time teaching experience.

Application forms, obtainable from the Secretary at the School, Ferndale Road, S.W.4, should be returned by 15th September, 1951. (989) 4098

## **EPPING RURAL DISTRICT COUNCIL.**

### **APPOINTMENT OF ARCHITECTURAL ASSISTANT.**

Applications are invited for the above appointment in the Surveyor's Department.

Salary grading will be A.P.T. Va (£600-£660 per annum), and commencing salary will be assessed according to qualifications and experience. Candidates should be preferably, though not necessarily, Registered Architects, and should have a good general experience of house design and construction. The Council will provide modern housing accommodation, and can provide transport, though if the successful candidate possesses a car the appropriate scale of travelling allowance will be paid if so desired.

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

Applications, endorsed "Architectural Assistant," stating age, qualifications and full details of experience, and accompanied by the names and addresses of two referees, are to be sent to Mr. A. W. R. Webb, A.M.Inst.C.E. Surveyor, at the address below, not later than Monday, 3rd September, 1951.

**G. BOWDEN.**

*Clerk of the Council.*

Rural District Council Offices,

209, High Street, Epping, Essex. 4099

## **NATIONAL COAL BOARD-NORTH-WESTERN DIVISION.**

Applications are invited for the following vacancies in the Divisional Architects' Department, Manchester:—

(a) **QUANTITY SURVEYOR, Grade I.** Salary £700-£245-£875 per annum. Applicants should be a Member of the R.I.C.S., with considerable experience in a Quantity Surveyor's office, and be experienced in the preparation of Bills of Quantities for all trades, detailed approximate estimates, writing Specifications, valuation and measurements for interim certificates and settlement of final accounts.

(b) **CLERK OF WORKS, Grade II.** Salary £400-£25-£550 per annum. Applicants must have been building tradesmen with extensive and recent experience of the site supervision of five- or six-figure Contracts, preferably under the control of an Architect, and should have a sound knowledge of heating and electrical layouts, reinforced concrete work, and an understanding of Contract procedure. Applicants must be prepared to supervise contracts in the St. Helens and Wigan areas.

Appointments will be made within the salary scales, according to the applicant's experience and qualifications.

Applications, stating age, education, qualifications, experience, present appointment and salary, should be submitted not later than the 23rd August, 1951, to the Divisional Establishment Officer, National Coal Board, North-Western Division, 40, Portland Street, Manchester, 1. 4090

## **COUNTY COUNCIL OF ESSEX.**

### **COUNTY ARCHITECT'S DEPARTMENT.**

#### **APPOINTMENT OF ASSISTANT COUNTY ARCHITECT.**

The County Council of Essex invite applications for the appointment of an Assistant County Architect, to be in charge under the County Architect of the Section dealing with Education Buildings.

Applicants must be Members by examination of the Royal Institute of British Architects, and in addition to having had considerable experience in the design and supervision of public buildings must be capable administrators.

The salary attaching to the post will be at the rate of not exceeding £1,350 a year, and in fixing the commencing salary regard will be had to the qualifications and experience of the successful applicant.

Canvassing, either directly or indirectly, is forbidden.

Applications must be made on a form obtainable from me. The form should be returned completed to me at the address stated below in a sealed envelope endorsed "Assistant County Architect" not later than 31st August, 1951.

**JOHN E. LIGHTBURN.**

*Clerk of the County Council.*

County Hall, Chelmsford, Essex.

30th July, 1951. 4088

**LONDON COUNTY COUNCIL ARCHITECTS' DEPARTMENT.**  
Applications are invited for positions of ARCHITECT, Grade III (£560-£700) and TECHNICAL ASSISTANT (up to £580) for architectural work on new housing, schools and other public buildings. The positions are superannuable, and the above rates are subject to an addition of 10 per cent. on the first £600 and 7½ per cent. on any remainder. Application forms from the Architect, The County Hall, S.E.1, enclosing stamped addressed foolscap envelope and quoting AR/BK/A. Canvassing disqualifies. (514) 3914

### Partnership

4 lines or under, 7s. 6d.; each additional line, 2s.

**ASSOCIATE**, 35 (Scot), M.R.San.I., desires Partnership or position leading thereto, London or Provinces. Wide practical experience of control of major contracts throughout Britain from initial to final stages, including surveying. Highly efficient business administrator, possessing pleasant personality, progressive outlook and drive. Responsibility welcomed. Car driver. Replies in confidence to Box 4082.

### Architectural Appointments Vacant

4 lines or under, 7s. 6d.; each additional line, 2s.

**REQUIRED** at Company's Head Office, Guildford, ARCHITECTURAL ASSISTANT, R.I.B.A. Intermediate standard. Varied work, mainly factory. Five-day week. Salary by arrangement. Box 4011.

**QUALIFIED ARCHITECTURAL ASSISTANT** required by T. P. Bennett & Son, 45, Bloomsbury Square, W.C.1. Should have 1-2 years' office experience; good draughtsman; surveying experience desirable. Write, stating experience, salary required, etc., Box 4027.

**ARCHITECTURAL DRAUGHTSMEN** required by Midlands Industrial Firm, with large Prefabricated School Construction Programme. Preferably capable of taking sectional control. Full details of experience, etc., and salary required to Box 4066.

**TWO JUNIOR ASSISTANTS** required, September, for permanent posts in General Practice. Good prospects for proved ability. Mark application envelopes "Assistant." Box 4094.

**ARCHITECTURAL ASSISTANT** required immediately. Car driver. Starting salary £350-£500, according to experience. Apply with full details to Deacon & Laing, 9, St. Paul's Square, Bedford. 4071

**CHARTERED SURVEYOR AND ARCHITECT** requires SENIOR ASSISTANT in busy office, central London district; knowledge of Factory and Institutional work desirable. Salary £650-£750 p.a., according to age and experience. Box 4072.

**AN INDUSTRIAL ARCHITECT** is required by a large firm in the Manchester area for responsible work on development and supervision of work in progress. Knowledge of Quantities an advantage. Interesting post with good prospects. Applicants, aged 28/35, should be experienced in the design of modern industrial building. Please write full particulars, including experience, qualifications, training and salary required, to Box 4080.

**ARCHITECTURAL DRAUGHTSMAN** required in Hounslow office. Must have good knowledge of building construction. Reply, stating age, experience, and salary required. Box 4081.

**ASSISTANTS** required for appointments in Architects' Department at Hammersmith. Successful applicants will be given time to acquire background knowledge of non-traditional construction handled by this firm, with a view to assisting with the design and working drawings for projects in the United Kingdom and abroad. Salary £500 upwards, according to experience. Write, giving details of experience, age and qualifications, to Staff Architect, George Wimpey & Co., Ltd., Hammersmith Grove, London, W.6. 4103

**VACANCY** for articled Pupil in practice in the Borough of Bexley. Good educational standard required. Apply to L. F. Halton, L.R.I.B.A., 57, High Street, Bexley, Kent. 4102

**CAPABLE ASSISTANT** required for busy Architectural practice, within 12 miles of London, N.W. Kent area. Apply in writing, giving details of experience, age, salary, etc., to Box 4101.

### Architectural Appointments Wanted

**YOUNG woman ASSOCIATE**, with 5 years' office experience, used to handling complete contracts from design to site supervision, seeks a job in a progressive London office. Salary about £700. Box 210.

**YOUNG Lady JUNIOR ASSISTANT**, 3½ years' experience, desires position in City or S.E. London. Box 4095.

**EXPERIENCED SENIOR ARCHITECT**, L.R.I.B.A., requires responsible appointment. Able to manage contracts. Box 214.

**ASSOCIATE**, 35 (Scot), M.R.San.I., returning to London, requires temporary post where wide practical experience of control of large undertakings from initial to final stages, including surveying, leveling, setting out, would be a considered advantage. Sound business acumen, pleasant personality, and progressive outlook. Car driver. Replies in confidence to Box 4083.

**REQUIRED** by young man, 22 years of age, position in progressive Architect's office in order to gain experience. 3 years' training and some practical experience. Box 216.

**JUNIOR ASSISTANT** (20) seeks position with Architect or Surveyor. Completed articles, probationer R.I.B.A., deferred. Good draughtsman; able to survey. Box 215.

### Other Appointments Vacant

4 lines or under, 7s. 6d.; each additional line, 2s.

**CLERK OF WORKS** for Building Maintenance Department of large Food Factory. Must be good draughtsman, able to prepare schemes, details and estimates. Age 25 to 35 years. Salary up to £625, with biennial increments, subject to satisfactory service. Five-day week. Apply to the Clerical Manager, Huntley & Palmers, Ltd. 4079

**BUILDING SURVEYOR** required in busy office. Fully capable of dealing with maintenance, W.D. reinstatement, schedules of dilapidations, and specifications for new buildings. Apply W. A. Cessford Ball, F.R.I.B.A., 205, Lavender Hill, S.W.11. Battersea 2481/2. 4084

**DRAUGHTSMAN**, age not less than 25, required for Pickfords, Surveyor's Department in London. Duties mainly commercial works up to £2,000 in all parts of the country. Ability to prepare Specifications an advantage, but professional qualifications not necessary. Salary around £500 p.a., or higher if warranted. Alternative Saturdays; canteen facilities. Apply in writing, with full details of experience and salary required, to Surveyor, Pickfords, 205, High Holborn, W.C.1. 4093

### Services Offered

4 lines or under, 7s. 6d.; each additional line, 2s.

**CIVIL ENGINEER**, B.A., D.I.C., A.M.I.C.E., experienced in reinforced concrete design and construction, offers services part time. London area. Box 4024.

**PROGRESSIVE** Group of Chartered Architects (A.A. & Poly.) seeks relief from daytime frustration in public office. Exhibition Work, Models, Perspectives, Working Drawings, Surveys. Anything interesting considered. Own car. No satisfaction, no money. Box 4074.

**ARCHITECT'S Wife** (above), trained Secretary, seeks part-time employment at home. Typing, Correspondence, Specifications, Bills of Quantities, Schedules, etc. Reasonable remuneration. Box 4075.

**ARCHITECT AND SURVEYOR**, own office and car, offers all services to busy Firms in South England. Specialist in Country House Conversions, Land and Property Surveying, and Planning Problems. Strictest confidence. Box 2823.

**ASSISTANT** (28), just qualified, 10 years' office experience, seeks part-time Architectural work. Home Counties area. Box 4073.

**ANY** type of Steel or Concrete Construction designed and detailed. Estimates on application. Box 4076.

**QUALIFIED ENGINEER** has capacity available for Civil and Structural Design. Box 4092.

**R.I.B.A.** Calculations of Simple Structural Members and Theory of Structures. Postal tuition. Apply D. A. Fowler, Dip Arch. (Abdn.), F.R.I.B.A., 22, Oakwell Mount, Leeds, S. 1208

**FREE-LANCE** Work sought by two young ARCHITECTURAL ASSISTANTS, married, living in Central London. Both with R.I.B.A. Inter. and 5 years' office experience. Box 4097.

**ARCHITECT** (34), school trained, offers spare time assistance (Design and W.D.s). Experienced industrial housing, schools, including comprehensive secondary. Confidential. Box 4096.

### For Sale or Wanted

4 lines or under, 7s. 6d.; each additional line, 2s.

**ARCHITECTURAL** and Surveying Practice for disposal, South Coast town. Well established, with good connections. Certified accounts available. Box 4055.

### Miscellaneous

4 lines or under, 7s. 6d.; each additional line, 2s.

**J. BINNS, LTD.**, Specialists in the supply and fixing of all types of Fencing, Gates and Cloakroom Equipment. Harvest Works 99-107, St. Paul's Road, N.1. Canonbury 2861.

**WINKFIELD MANOR NURSERIES**, ASSOC. lay out Rock and Formal Gardens and Labourless "Allweather" Tennis Courts. Eight Chelsea Gold Medals since 1947. Contractors to the Festival of Britain. Winkfield Row 393. 1716

**FRENCH POLISHERS**—Wm. Burton's, for every style of polishing. 26, Foulser Road, Upper Tooting, S.W.17. BAL. 3968. 2517.

**FENCING FOR ALL PURPOSES**. Supplied and erected; established 100 years. Parker, Winder & Achurch, Ltd., 30, Broad Street, Birmingham, 1. Telephone: Midland 5001.

### INSURANCE

**ARCHITECTS' Indemnity Insurance** effected. Please write for Proposal Form to E. J. SAXBY, Incorporated Insurance Broker, 37a, Carfax, Horsham, Sussex. Tel. 990. 2039

### Educational Announcements

4 lines or under, 7s. 6d.; each additional line, 2s.

**R.I.B.A. EXAMS**—Mr. L. Stuart Stanley, M.A., F.R.I.B.A., M.T.P.I., Distn. in T.P. (Tutor in the School of Arch. Lon. Univ.), and Mr. G. A. Crockett, B.A., A.R.I.B.A. (Medallist), A.M.T.P.I., F.R.S.A., prepare Students by correspondence tuition. Stuart Stanley & Crockett, 10, Adelaide Street, Strand, W.C.2. TEM. 1603/4. THE POLYTECHNIC 309, REGENT STREET, W.1.

**SCHOOL OF ARCHITECTURE, SURVEYING, AND BUILDING.**

President of the School: SIR RANISTER FLETCHER, D.Lit.(Lon.), M.Arch., P.-P.R.I.B.A. Head of the School: JOHN S. WALKDEN, F.R.I.B.A., Dist.T.P., M.T.P.I., R.I.B.A., Athens Bursar.

**EVENING COURSE IN PLANNING.** The three-year PART-TIME COURSE leading to the Polytechnic DIPLOMA IN PLANNING and to exemption, where applicable, from the Final Examination of the Town Planning Institute, will commence in September.

Prospectuses may be obtained on application to the undersigned.

J. C. JONES,

Director of Education. 4091

## PHENCO PLASTIC FLOOR COVERING

**PHENCO** is recommended by Architects as exceptionally strong and hard wearing, with high resistance to oil, grease and chemicals. NON-inflammable. Non-slip and dustless and easily kept clean by normal methods.  
**PHENCO** is tested to British Standards Specification for wear, indentation, pliability, water absorption and non-inflammability. B.S. 276/1932, B.S.S. 386/1936, B.S.S. 810/1938.  
**PHENCO** FLOORING is a durable and flexible material with pleasing colour tones. It is supplied in 8 or 12 yard rolls, 36 in. wide by 3/32 in. or 1/8 in. thick; also in tiles 12 in. by 12 in. and 9 in. by 9 in. and 1/8 in. thick.

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## PHOENIX RUBBER CO. LTD.

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Tel.: Slough 22307/8/9

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# Alphabetical Index to Advertisers

	PAGE		PAGE		PAGE
Acerington Brick & Tile Co., The	ixix	Elgood, E. J., Ltd.	ixix	Mellowes & Co., Ltd.	ixix
Adamite Co., Ltd., The	ixix	Ellis School of Architecture, The	ixix	Metallic Seamless Tube Co., Ltd., The	ixix
Adams, Robert (Victor), Ltd.	ix	Esavian, Ltd.	ixix	Metal Sections, Ltd.	ixii
Aldas Electric, Ltd.	vi	Esse Cooker Co., The	ixxi	Mills Scaffold Co., Ltd.	ixxii
Allied Guilds	ixix	Evode, Ltd.	ixxi	M.K. Electric, Ltd.	xiv
Anderson, D. & Son, Ltd.	xlviii	Exfoliators (Vermiculite), Ltd.	ixxi	National Federation of Clay Industries, The	xxxiv
Anglo-Scottish Construction Co., Ltd.	xlv	Falkirk Iron Co., Ltd., The	ixxi	Nagus, W. & M., Ltd.	ixix
Architects' Benevolent Society	ixv	Ferodo, Ltd.	v	Northern Organisation	ixxi
Architectural Press Ltd., The	ixviii	Finlock Gutters, Ltd.	ixxi	Orbit, Ltd.	xvi
Armstrong & Co. (Wridale), Ltd.	xlvii	Fitzpatrick & Son (Contractors), Ltd.	ixxi	Phoenix Rubber Co., Ltd.	ixviii
Armstrong Cork Co., Ltd.	ii, xxv	Foyles, Ltd.	ixix	Pilkington Bros., Ltd.	ixix
Austin, James, & Sons (Dewsbury), Ltd.	xxvi	Franki Compressed Pile Co., Ltd., The	ixix	Pilkington Tiles, Ltd.	ixxi
Automatic Pressings, Ltd.	ixiv	Furse, W. J., & Co., Ltd.	ixix	Prodorite, Ltd.	xxii
Aygee, Ltd.	xxxvi	Gas Council, The	ixix	Radiation Group Sales, Ltd.	ixviii
Bath Cabinet Makers & Artcraft, Ltd.	xli	Gibson, Arthur L. & Co., Ltd.	ixxi	Rawplugh Co., Ltd., The	ixviii
Baume & Co., Ltd.	ixv	Glow-Worm Boilers, Ltd.	ixxi	Ruberoid Co., Ltd., The	ixxi
Boulton & Paul, Ltd.	xxxviii, ixix	Granwood Flooring Co., Ltd., The	ixxi	Sanders, Wm. & Co. (Wednesbury), Ltd.	ixvii
Box, C. W.	ixix	Greenwood's & Airvac Ventilating Co., Ltd.	ii	Sarco Thermostats, Ltd.	ixvii
British Engineering Brick Association, The	ixix	Gypco Products, Ltd.	ixvi	Scaffolding (Gt. Britain), Ltd.	ixix
British Insulated Callender's Cables, Ltd.	ixix	Hammer, Geo. M. & Co., Ltd.	ixviii	Seatt, Wilfred T. (Sales), Ltd.	ixix
British National Electric, Ltd.	xxxiii	Harvey, G. A., & Co. (London), Ltd.	iii	Sealcrete Products, Ltd.	xvi
British Plaster Board, Ltd., The	viii	Hills (West Bromwich), Ltd.	iii	Semtex, Ltd.	ixvii
British Trolley Track Co., Ltd.	xxxvi	Hope, Henry, & Sons, Ltd.	iii	Shanks, E. O., & Sons, Ltd.	ixvii
Broad & Co., Ltd.	ixxi	Horseley Bridge & Thomas Piggott, Ltd.	ixxi	Simplex Electric Co., Ltd.	iii
Brown, Donald (Browall), Ltd.	ixxi	Ibstock Brick & Tile Co., Ltd.	ixxi	Sissons, W. & G., Ltd.	ixxi
Burgess Products Co., Ltd.	ixxi	Imperial Chemical Industries, Ltd.	ixxi	Small & Parkes, Ltd.	ixxi
Carron Company	ixxi	Industrial Engineering, Ltd.	ixxi	Smith & Pearson, Ltd.	ixxi
Cement Marketing Co., Ltd., The	vii	Insulate Products Corporation, Ltd.	ixxi	Smith & Rodger, Ltd.	ixxi
Carter & Co., Ltd.	ixxi	International Correspondence Schools	ixxi	Smith's Fireproof Floors, Ltd.	ixxi
Celotex, Ltd.	ixxi	International Paints, Ltd.	ixxi	Storrie Smithson & Co., Ltd.	ixxi
Clark & Eaton, James, Ltd.	ixxi	Johnston Bros. (Contractors), Ltd.	ixxi	Stubbs, John (Marble & Quartzite), Ltd.	ixxi
Clarke Ellard Engineering Co., Ltd.	ixxi	Kenyon, Wm., & Sons, Ltd.	ixxi	Sulzer Brothers (London), Ltd.	ixxi
Cole Ventilation, Ltd.	ixxi	Kinner Shuttles	ixxi	Sundela Board Co., Ltd.	ixxi
Concrete, Ltd.	ixxi	Kwikform, Ltd.	ixxi	Sutcliffe Speakman & Co., Ltd.	ixxi
Costain, Richard, Ltd.	ixxi	Lacrinoid Products, Ltd.	ixxi	Tarmac, Ltd.	ixxi
Courtney, Pope, Ltd.	ixxi	Laing, John, & Son, Ltd.	ixxi	Thermalite, Ltd.	ixxi
Crittall Manufacturing Co., Ltd., The	ixxi	Lamont, James H., & Co., Ltd.	ixxi	Thorn, J., & Sons, Ltd.	ixxi
Davidson, C. & Sons, Ltd.	ixxi	Lead Industries Development Council	ixxi	Thorn, John B.	ixxi
De La Rue, Thomas, & Co., Ltd.	ixxi	Limmer & Trinidad Lake Asphalt Co., Ltd.	ixxi	Troilope & Colls, Ltd.	ixxi
Denny, Mott & Dickson, Ltd.	ixxi	Linoleum Manufacturers' Association	ixxi	Troughton & Young (Lighting), Ltd.	ixxi
Dignus, Ltd.	ixxi	Lisle, Munday & Co., Ltd.	ixxi	Truett & Steel, Ltd.	ixxi
Docker Brothers	ixxi	Lockhart Equipment, Ltd.	ixxi	Tucker, J. H., & Co., Ltd.	ixxi
Downing, G. H., & Co., Ltd.	ixxi	Logan (Vermiculite) Ltd.	ixxi	United Paint Co., Ltd., The	ixxi
Dreadnought Fireproof Doors (1930), Ltd.	ixxi	Luxfer, Ltd.	ixxi	Val De Travers Asphalt Paving Co., Ltd.	ixxi
Dunbrik, Ltd.	ixxi	MacAndrews & Forbes, Ltd.	ixxi	Walpamur Co., Ltd.	ixxi
Durable Asphalt Co., Ltd.	ixxi	McCarthy & Sons, Ltd.	ixxi	Wareite, Ltd.	ixxi
Durasteel, Ltd.	ixxi	Magnet Joinery, Ltd.	ixxi	Ward, Thomas W., Ltd.	ixxi
Eagle Pencil Co., Ltd.	ixxi	Mallinson, W., & Sons, Ltd.	ixxi	Wellington Tube Works, Ltd.	ixxi
Ebor Concrete, Ltd.	ixxi	Mander Bros., Ltd.	ixxi	Wheatly & Co., Ltd.	ixxi
Econa Modern Products, Ltd.	ixxi	Marley Tile Co., Ltd., The	ixxi	Wheeler, F. H., & Co., Ltd.	ixxi
Edgar, Wm., & Son, Ltd.	ixxi	Martyn, Bruce, Ltd.	ixxi		

For Appointments (Wanted or Vacant), Competitions Open, Drawings, Tracings, etc., Educational, Legal Notices, Miscellaneous Property, Land and Sales, see ixvi, ixvii, ixviii, ixix.

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PAGE

lxii  
lxxiii  
xlv

xxiv

lxix  
xvi  
lxviii  
xix

xxii

lviii  
xviii  
xxx  
lvii

lxix  
xvii  
lvi  
lxiii  
iii

xxix

lxii  
lxi  
lvii  
lix  
xxxv  
xxvii  
xxxi  
xxxii

xl  
lxii  
lxix  
lii  
xxiv  
xxii

lxv

lv

lv

lv

lv

lv

lv

lv

lv

lv

lv

lv

lv

lv

lv

lv

lv

lv

lv

lv

lv

lv

lv

lv

lv

lv

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lv

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lv

lv

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lv

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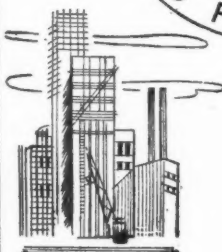


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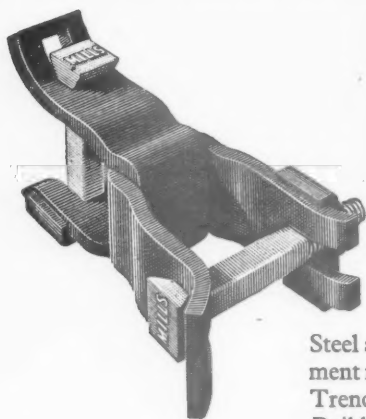
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