

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

Architects' Commonplace Book

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

No. 2835] [Vol. 109
THE ARCHITECTURAL PRESS
9, 11 and 13, Queen Anne's Gate, Westminster,
S.W.1. Phone: Whitehall 0611

Price 9d.

Registered as a Newspaper.

★ 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 Ic one week, Ic 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. | Welbeck 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, School of Architecture, Manchester Municipal School of Art, All Saints, Manchester, 15. | Ardwick 3480 |
| ARCUK | 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. | Welbeck 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. | Welbeck 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, 43, George Street, Croydon. | Croydon 5452 |
| BEDA | British Electrical Development Association, 2, Savoy Hill, W.C.2. | Temple Bar 9434 |
| BGC | British Gas Council, 1, Grosvenor Place, S.W.1. | Sloane 4554 |
| BGF | British Gas Federation, 1, Grosvenor Place, S.W.1. | Sloane 8266 |
| 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 A. Guy Chant, F.R.I.B.A., Salop County Council, 5, Belmont, Shrewsbury. | Shrewsbury 3031 |
| CCA | Cement and Concrete Association, 52, Grosvenor Gardens, S.W.1. | Sloane 5255 |
| CDA | Copper Development Association, Kendals Hall, Radlett, Herts. | Radlett 5616 |
| CIAD | Central Institute of Art and Design, 41, 42, Dover Street, W.1. | Regent 3074 |
| CIAM | Congrès Internationaux d'Architecture Moderne, Dolderal, 7, Zurich, Switzerland | |
| CID | Council of Industrial Design, Tilbury House, Petty France, S.W.1. | Whitehall 6322 |
| CPC | Codes of Practice Committee, MOW, 42, Onslow Gardens, S.W.7. | Kensington 8161 |
| CPRE | Council for the Preservation of Rural England, 4, Hobart Place, S.W. Sloane 4280 | |
| CUJC | Coal Utilization Joint Council, 13, Grosvenor Gardens, London, S.W.1. | Victoria 1534 |
| DGW | Directorate General of Works, Ministry of Works, Lambeth Bridge House, S.E.1. | Reliance 1761 |
| 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 |
| EC | Electricity Commission, Savoy Court, Strand, W.C.2. | Temple Bar 7565 |
| 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 |
| FB 1951 | Festival of Britain 1951, 2, Savoy Court, Strand, W.C.2. | Waterloo 1951 |
| FASSC | Federation of Association of Specialists and Sub Contractors, 21, Tothill Street, S.W.1. | Whitehall 9606 |
| 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 |
| FRHB | Federation of Registered House Builders, 82, New Cavendish Street, W.1. | Langham 4041 |
| FS (Eng.) | Faculty of Surveyors of England, 8, Buckingham Palace Gdns., S.W.1. | Sloane 2837 |
| GG | Georgian Group, 27, Grosvenor Place, S.W.1. | Sloane 2844 |
| HC | Housing Centre, 13, Suffolk Street, Pall Mall, S.W.1. | Whitehall 2881 |
| IAAS | Incorporated Association of Architects and Surveyors, 75, Eaton Place, S.W.1. | Sloane 5615 |
| ICE | Institution of Civil Engineers, Great George Street, S.W.1. | Whitehall 4577 |

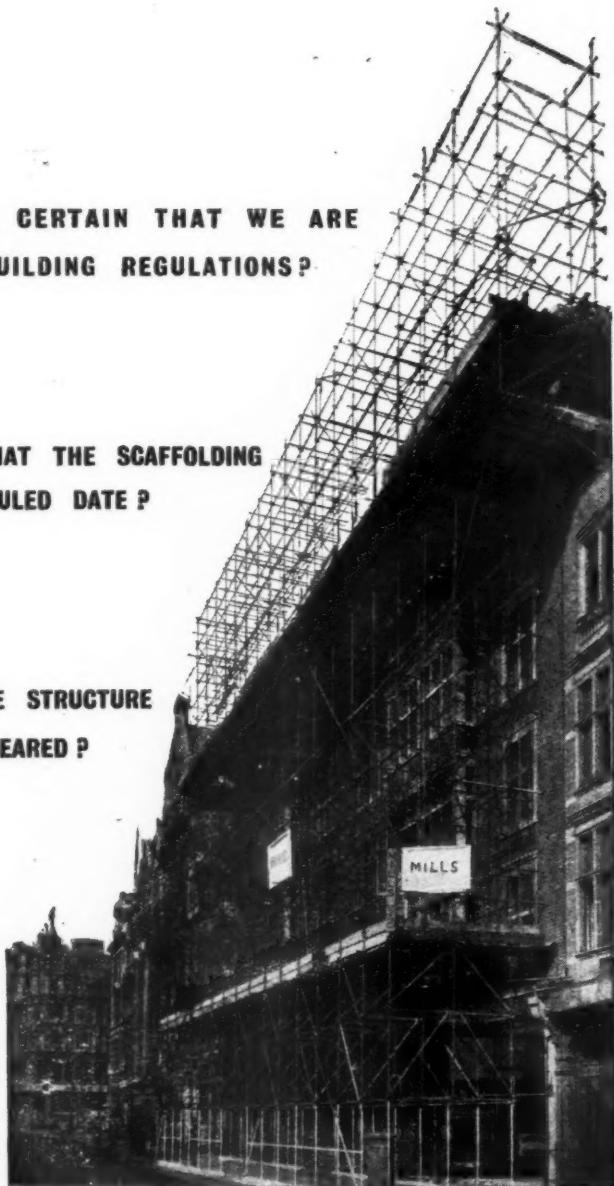
HOW CAN WE MAKE CERTAIN THAT WE ARE
COMPLYING WITH THE NEW BUILDING REGULATIONS?

HOW DO WE KNOW THAT THE SCAFFOLDING
WILL BE ERECTED BY THE SCHEDULED DATE?

HOW QUICKLY CAN THE STRUCTURE
BE DISMANTLED AND THE SITE CLEARED?

HOW MUCH IS IT
ALL GOING TO COST?

HOW DO WE GET
STARTED, ANYWAY?



MILLS SCAFFOLD CO. LTD.

Head Office:

**MILLS
KNOW HOW**

TELEPHONE: RIVERSIDE 5026/9
OR YOUR NEAREST DEPOT

BELFAST • BIRMINGHAM • BOURNEMOUTH • BRIGHTON • BRISTOL • CARDIFF
COVENTRY • DUBLIN • GLASGOW • HULL • ILFORD • LIVERPOOL
LOWESTOFT • MANCHESTER • NEWCASTLE • NORWICH • PORTSMOUTH
PLYMOUTH • RAMSGATE • SOUTHAMPTON • SWANSEA • YARMOUTH

TRUSSLEY WORKS, HAMMERSMITH GROVE, LONDON, W.6



The name that stands supreme for product and service

THE VAL DE TRAVERS ASPHALTE PAVING COMPANY, LIMITED

ASSOCIATED COMPANIES

A. C. W. HOBMAN & CO. LTD. ■ TARROADS LTD. ■ THE DIAMOND
TREAD CO. (1938) LTD. ■ THE LONDON ASPHALTE CO. LTD. ■ SICILIAN ROCK
ASPHALTE CO. LTD. ■ UNITED LIMMER & VORWOLLE ROCK ASPHALTE CO. LTD.
THOS. FALDO & CO. (1929) LTD. ■ W. G. WALKER (GLASGOW) LTD.

Val de Travers House, 21-22, Old Bailey, London, E.C.4

Telephone: City 7001 (10 Lines)

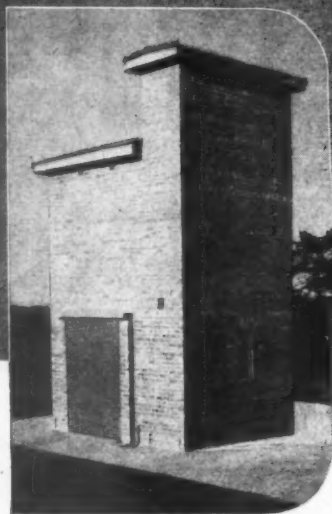
Telegrams: Traversable, Cent., London.

BRANCHES

BIRMINGHAM ■ CANTERBURY ■ ELY ■ EXETER ■ GLASGOW
LINCOLN ■ LIVERPOOL ■ MANCHESTER ■ NEWCASTLE-ON-TYNE

RUBEROID

A complete roofing service



R46

from the smallest to the largest

Above : The roof of the Brabazon Hangar, Bristol.
Area, 270,000 square feet of Ruberoid Insulated Steel Roof.

Photograph by permission of Williams & Williams Ltd.

Architect : Eric Ross, A.R.I.B.A. Consulting Engineers : Brian Colquhoun and Partners

Ruberoid Roofing gives protection to buildings of all designs and dimensions in every variety of climate the world over. Whether measured in square feet or acres, the quality is always of the standard that has been associated with Ruberoid since the earliest days of its manufacture, over 50 years ago.

Ruberoid Contract Departments in London, Birmingham, Manchester, Leeds, Newcastle, Nottingham, Edinburgh, Glasgow and Belfast, estimate for supplying and fixing Ruberoid Roofing anywhere in the British Isles.

Architects, Engineers and Builders are invited to write for our Range of Technical Publications, including No. 326 entitled "Standard Specifications for Ruberoid Roofs."

RUBEROID ROOFING



THE RUBEROID COMPANY LIMITED 1, COMMONWEALTH HOUSE, NEW OXFORD STREET, LONDON, W.C.1

Cut lighting costs with

'PERSPEX'

CORRUGATED

ROOF LIGHTING

Supplied to match corrugated metal and asbestos sheeting, corrugated 'Perspex' has exceptionally high light transmission, is tough, durable and easy to fix.

'Perspex' is the registered trademark for the acrylic sheet manufactured by I.C.I. Limited.



IMPERIAL CHEMICAL INDUSTRIES LIMITED

G.A.

DECORATIVE COMPLEMENT TO MODERN DESIGN



Hygienic · durable · decorative

THE WALPAMUR CO LTD · DARWEN & LONDON

© 32

The CHEVIN *Solid Fuel* CONVECTOR FIRE

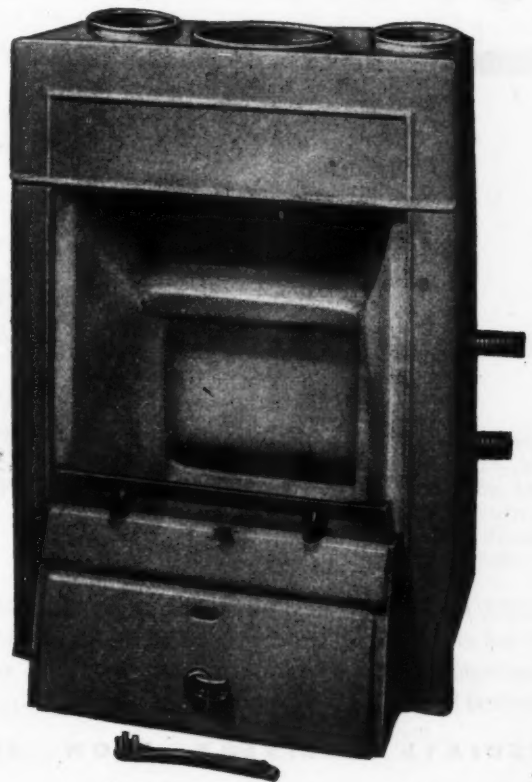
provides
RADIANT HEAT
Domestic HOT WATER
WARMED AIR TO
OTHER ROOMS
HIGH EFFICIENCY
with FUEL ECONOMY



A Self-contained

OPEN FIRE

THE double-cased unit, incorporating the CHEVIN smokeless Fuel Grate and shown here, provides warm air which may be directed by ducts to other parts of the house. Air to the fuel bed is controlled by the hook-on Ashpit front, giving infinite variation of control. A loose ash pan provides easy removal of ash and is easily carried by means of the operating tool. There is a built-in luminous flame gas burner arranged for right-hand, left-hand or concealed connection, and a boiler may be fitted for the supply of domestic hot water. The fire front and fire surround are finished in vitreous enamel in attractive colours.



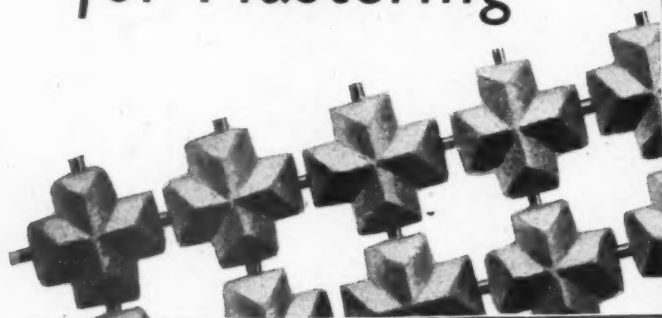
The CHEVIN *Convector Fire*

There is a single-cased CHEVIN Convector Fire (which also incorporates the Chevin Smokeless Fuel Grate) for heating the room in which it is installed. Both models are described in our leaflet 12/48. May we send you a copy?



PARK FOUNDRY BELPER DERBY

The **FINEST KEY** for Plastering



COLTERRO Lath

ELECTRICALLY KILNED PLASTER BASE

An immensely strong, pliable, coppered wire mesh with porous clay keys electrically kilned to the intersections.

COLTERRO Electrically Kilned Plaster Lath is the perfect key for all interior and exterior curved or plain plaster work. It is available in rolls of approximately six square yards for immediate application to the job. It is the ideal base for the "ceiling without a crack".

IMMEDIATE DELIVERY FROM STOCK

Full technical details and sample from:—

W. H. COLT (LONDON) LTD

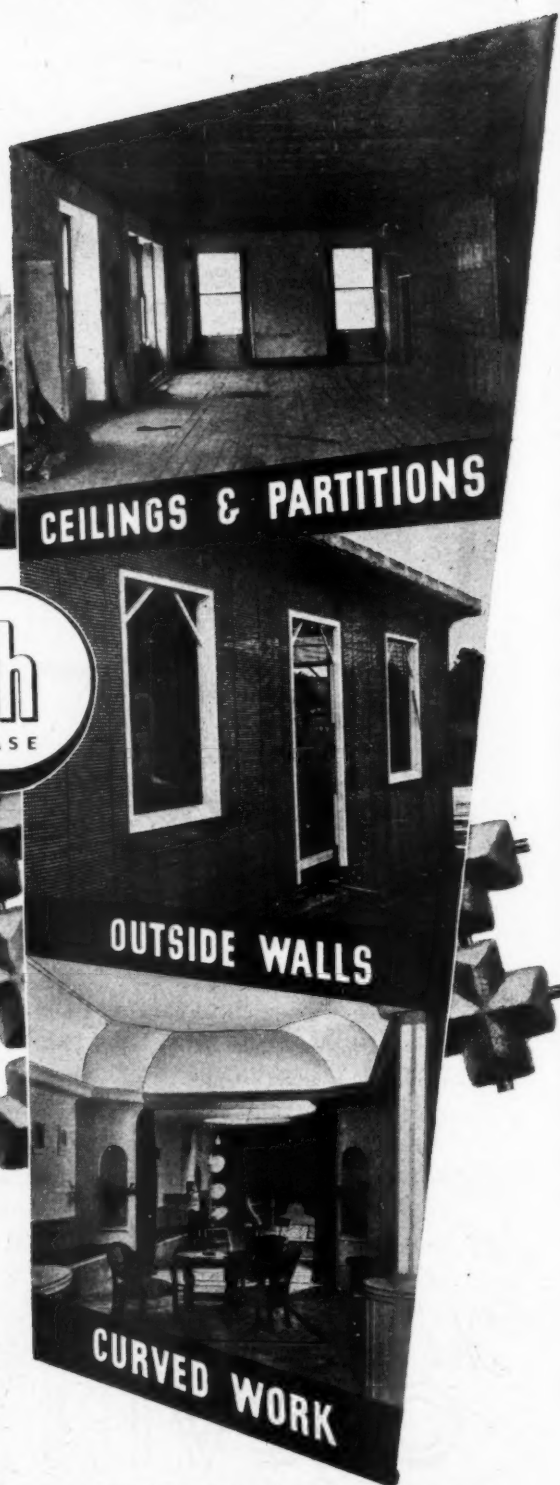
(Architectural Division A2); Surbiton, Surrey. ELMbridge 6511/5

ALSO BRADFORD, BIRMINGHAM, NEWCASTLE, MANCHESTER, SHEFFIELD & NEWPORT (MON)

Sole Stockholders for Scotland:—

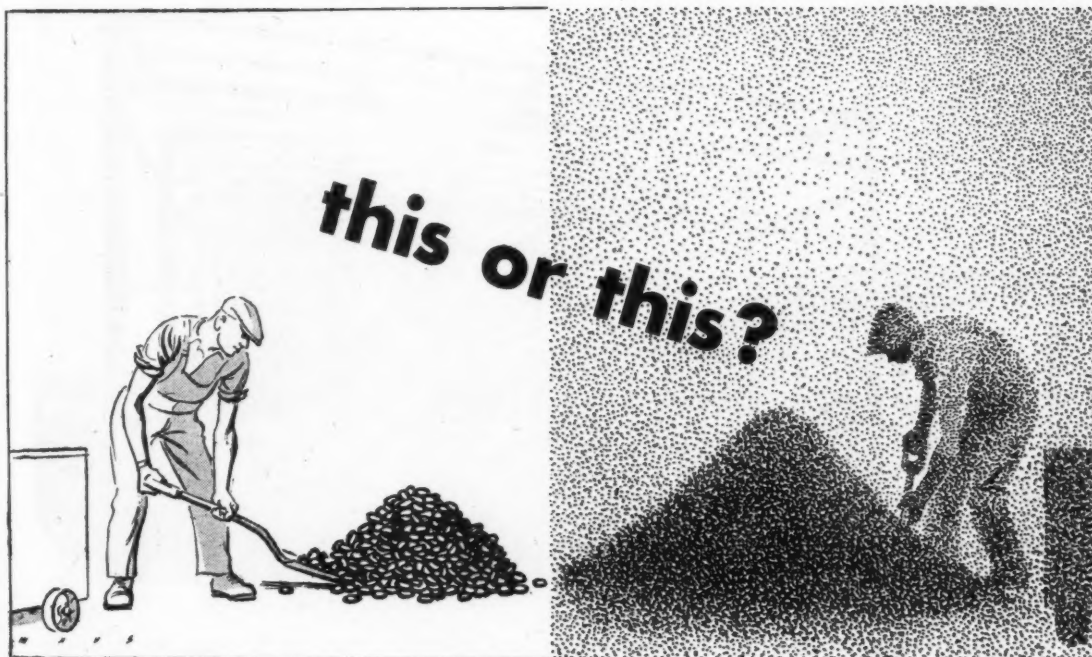
ROWEBB LIMITED

113 Douglas Street, Glasgow, C.2, and 15 Tower Street, Edinburgh, 6.



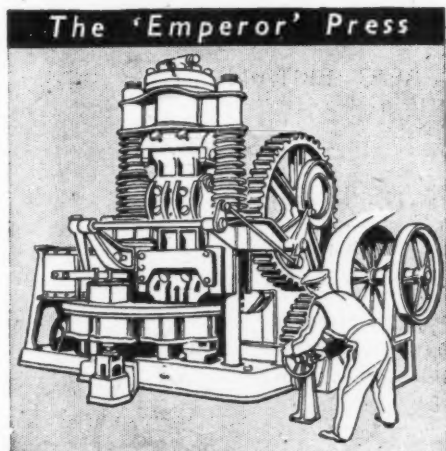
- HIGH TENSILE STRENGTH
- UNRIVALLED KEY
- EASILY WORKED TO SHAPE
- FIREPROOF
- NO LICENCE OR PERMIT REQUIRED

which is the easier to handle . . .



The briquetting of fine pulverent materials and the pressing into special shapes and forms, as a preliminary to other manufacturing processes, is now a matter of increasing importance. The 'Emperor' Press produces as many as 30 pressings per minute. In the manufacture of Coal Briquettes the output is as high as 25 tons per

hour, and it is equally efficient in connection with the briquetting of iron, steel, brass, copper and aluminium borings and turnings. Full details are gladly supplied on request.

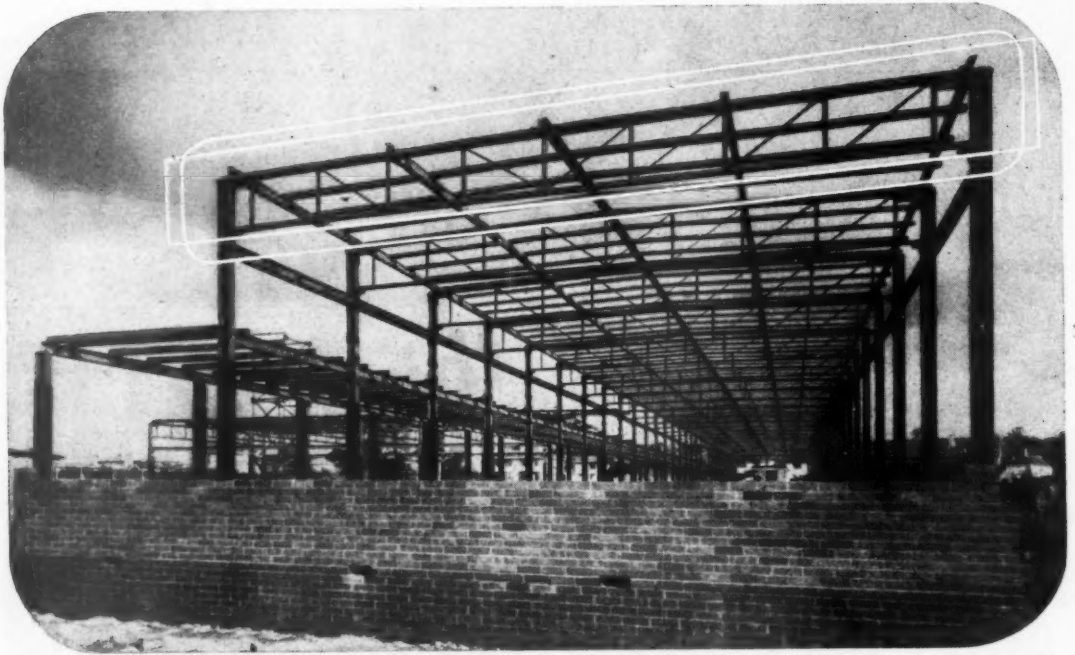


Sutcliffe Speakman

Sutcliffe Speakman & Company, Ltd., Leigh, Lancashire
London Office: Godliman House, Godliman St., E.C.4
Telephone: CITY 2810

WELDED TUBULAR CONSTRUCTION

-by the originators of tubular scaffolding!



MID SOUTH PRIMARY SCHOOL • Architects Department • County Borough of Reading

Welded tubular construction does the job with less steel, skilful design saving up to 60%. Its clean modern appearance pleases the eye of the architect. The simple shapes which arise from the method of construction are easy to protect against corrosion.

SCAFFOLDING (GREAT BRITAIN) LTD.
LONDON S.W.17

Telephone: WIMBLEDON 8070 (15 LINES)

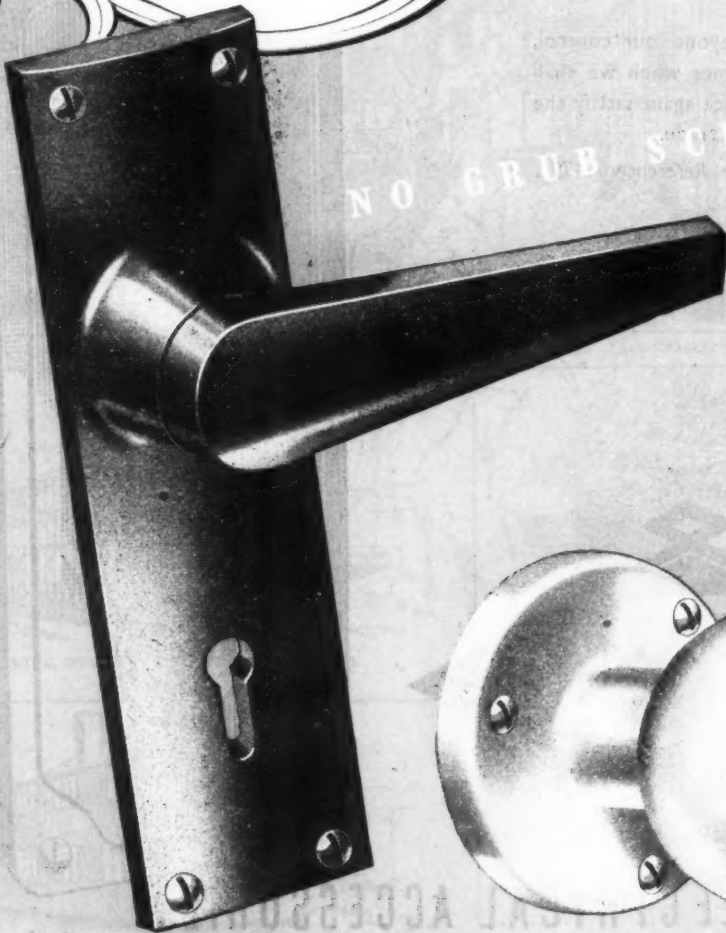
WORKS: MITCHAM • SURREY

Branches at: ABERDEEN • BIRMINGHAM • BOURNEMOUTH • BRIGHTON • BRISTOL
CARDIFF • DOVER • DUBLIN • DUNDEE • EDINBURGH • EXETER • GLASGOW
HULL • LEEDS • LIVERPOOL • MANCHESTER • NEWCASTLE • NOTTINGHAM • OXFORD
PLYMOUTH • PORTSMOUTH • SOUTHAMPTON • STOKE-ON-TRENT.

Designed and Constructed by S.G.B.



HERE is more than comely simplicity about Lacrinoid door furniture; in fixing and in working it is just this side of perfection.



LACRINOID

TRADE MARK

LACRINOID PRODUCTS LTD · GIDEA PARK WORKS · GIDEA PARK · ESSEX
TEL: HORNCHURCH 2981 · CABLES: LACRINOID, ROMFORD
MOULDERS, MANIPULATORS & FABRICATORS OF ALL TYPES OF PLASTICS

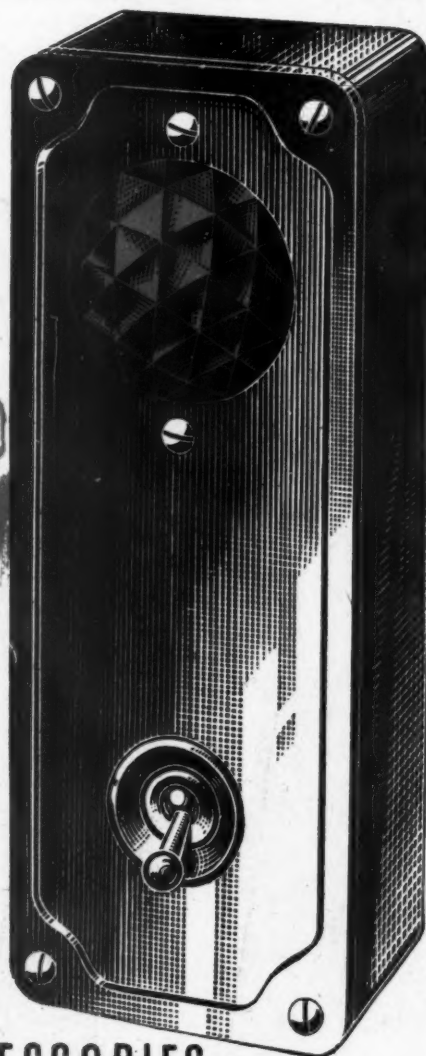
VISIBLE CONTACT

IRONCLAD INDICATING SWITCH UNITS

"BRITMAC" Electrical Accessories are made to a very high Standard of Quality. Like all first class equipment the supply of "BRITMAC" Products is totally inadequate to meet the demand.

Present day conditions are beyond our control, we look forward to better times when we shall be in the happy position to once again satisfy the ever-increasing demands of the trade.

The Switch Unit illustrated, Our Reference P.4391, is the I-section pattern.



ELECTRICAL ACCESSORIES
POINTS OF PERFECTION

BRITMAC ELECTRICAL CO. LTD.

SALES ORGANISATION OF C. H. PARSONS LTD
Head Office: BRITANNIA WORKS · WHARF DALE ROAD · TYSELEY · BIRMINGHAM · II

Telephone: ACOcks Green 1191 (3 lines)

Telegrams: "BRITMAC, BIRMINGHAM"

London Office: 121 VICTORIA STREET, LONDON, S.W.1.

Telephone: Victoria 9778 (2 lines)

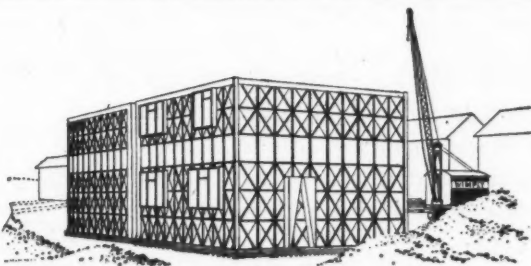
Glasgow Office: GRESHAM CHAMBERS, 45 WEST NILE STREET, GLASGOW, C.I.

Telephone: Central 9106

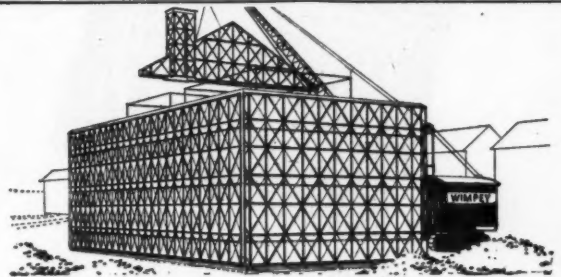
An answer to the housing problem



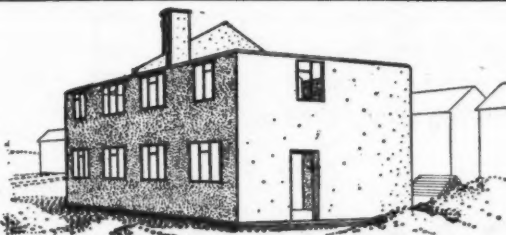
WIMPEY 'NO-FINES' HOUSES: THE DRAWINGS BELOW SHOW THREE MAIN STAGES IN THEIR CONSTRUCTION



1 Internal framework, window and door cores in position.



2 External framework, concrete poured to eaves level, gable framework in course of erection.



3 Completed concrete shell.

WIMPEY 'No-Fines' House

BY APPLYING civil engineering methods to the housing problem Wimpey's have evolved the *No-Fines* house—warm, solid, permanent, quickly and economically built.

No-Fines concrete, made of cement and coarse aggregate only, is a non-proprietary material with high thermal insulation. Framework used in construction is designed full height and in the minimum number of units, acts as a complete template for all openings,

chases, etc., and permits pouring in the minimum number of lifts.

Erecting framework, pouring concrete, and striking framework for one pair of *No-Fines* houses can be completed in 3 days. Thousands of Wimpey *No-Fines* houses have been and are being built throughout Britain. Official comment on this method of building states that, with the Wimpey organisation behind it, it is "capable of producing outstanding results".

GEO. WIMPEY & CO. LIMITED. HEAD OFFICE: THE GROVE, HAMMERSMITH, W.6.

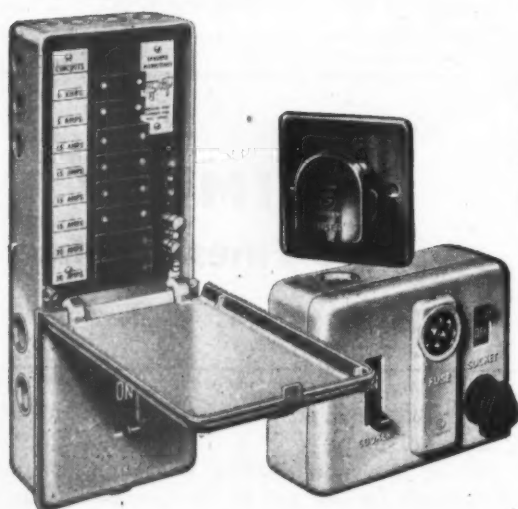
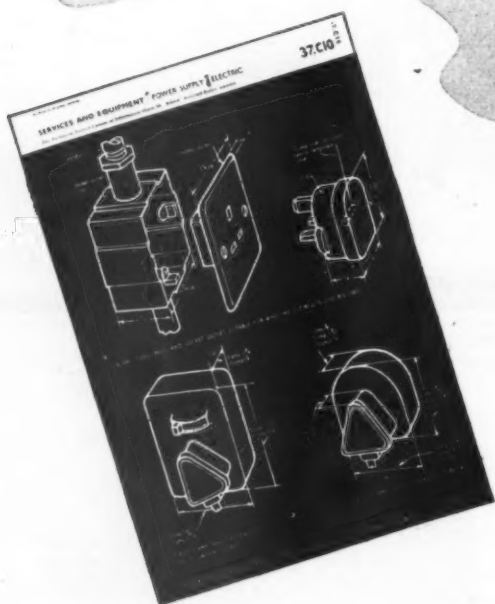
INFORMATION

The products of Sanders, Wednesbury, cover Electrical Switching and Distribution Equipment for heavy industrial, light industrial, or domestic situations, and include Socket Outlets with and without Switches, Electric Clock Connectors, and Cooker Control Units.

Design policy ensures that every new product introduced conforms to the latest British Standard issued, where one is appropriate or applicable.

"The Architects' Journal" Library of Planned Information is kept advised of new developments, revisions, and extensions to the range of products of particular interest to the architectural profession.

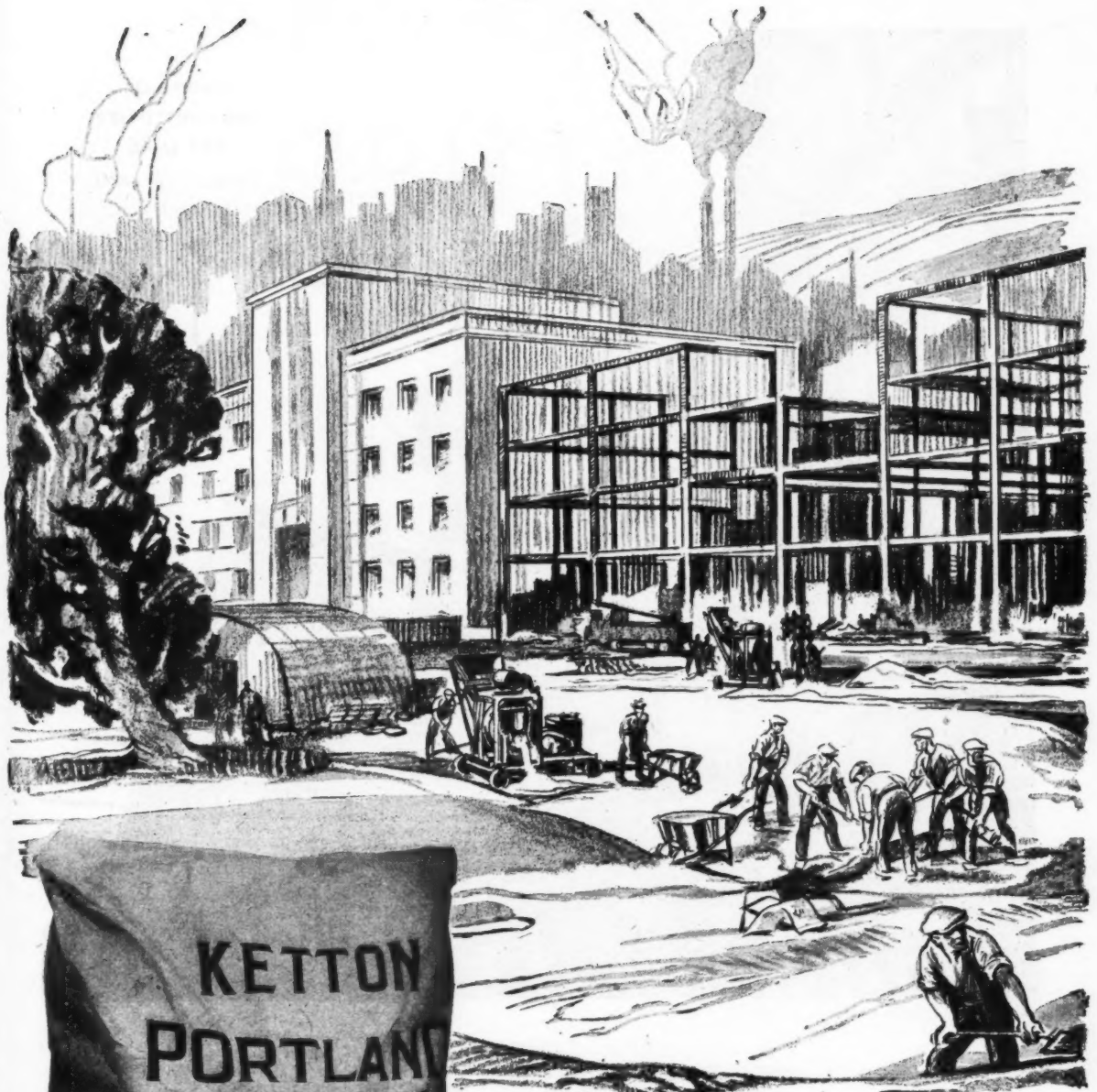
A staff of experienced engineers, with specialised knowledge of Sanders products will be pleased to give technical information at any time on request.



SANDERS WEDNESBURY

MAKERS OF GOOD SWITCHGEAR FOR OVER FIFTY YEARS

WM. SANDERS & CO. (WEDNESBURY) LTD., WEDNESBURY, STAFFS.



The rhythmic chug and rattle of concrete mixers . . . the swift flow of tipped aggregate . . . busy men and pressing urgencies . . . all the movement and noisy activity characteristic of a big constructional job—as typical of such work as the litter of empty cement bags around the site. And if the bags bear the familiar KETTON imprint—well that is one worry the less anyway!

Sole Distributors:

THO^S. W. WARD LTD.
ALBION WORKS SHEFFIELD

'Phone:
26311 (15 lines).

'Grams:
"Ketco, Sheffield."

THE KETTON PORTLAND CEMENT CO., LTD., KETTON, Nr. STAMFORD



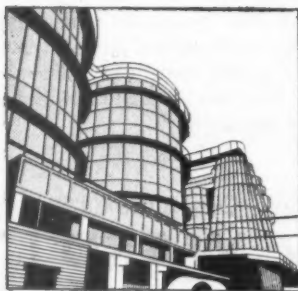
Photograph by courtesy of Brotherton & Co., Ltd.

**THERE IS
NO SUBSTITUTE
FOR LEAD**

Now in plentiful supply
at reduced prices.

h
LEAD

For economical corrosion-resistance . . . **LEAD**



Lead has been used for these Mills Packard Sulphuric Acid Chambers because Lead gives high corrosion-resistance most economically. The shaded diagram shows its application.

The Technical Information Bureau of the Lead Industries Development Council exists to give assistance on problems relating to the use of lead sheet and pipe in building work. Details of its application are given in a series of Information Sheets. These Sheets are available to architects, surveyors, builders, plumbers and other technicians interested upon application to the Council. "Students" applications should be endorsed by an instructor or master of a technical school.

LEAD INDUSTRIES DEVELOPMENT COUNCIL, EAGLE HOUSE, JERMYN STREET, LONDON, S.W.1

LEAD TECHNICAL INFORMATION BUREAU, 25 LOWER BELGRAVE STREET, LONDON, S.W.1

TELEPHONE: SLOANE 0474

77/4/49

CRITTALL WINDOWS



HOT-DIP GALVANIZED WINDOWS OF
VARIOUS TYPES ARE SPECIALLY
MADE FOR SCHOOLS & HOSPITALS

THE CRITTALL MANUFACTURING CO. LTD.
BRAINTREE ENGLAND

**15 YEARS
PROVEN
EXPERIENCE**

250,000 SATISFIED NILCRODE CUSTOMERS

Every Nilcrode flushing cistern embodies 15 years' hard practical experience of cistern design and manufacture. The special Nilcrode tank, made of tough moulded plastic, has proved itself vastly superior to older types. Fit Nilcrode and your troubles cease.

- *Nilcrode cannot rust or corrode, is immensely strong and completely non-absorbent.
- *Nilcrode shells are electrically tested against possible material flaws.
- *Nilcrode cisterns are quiet and certain in action.
- *Nilcrode cisterns are strong, durable, light in weight, pleasing in design.

NILCRODE

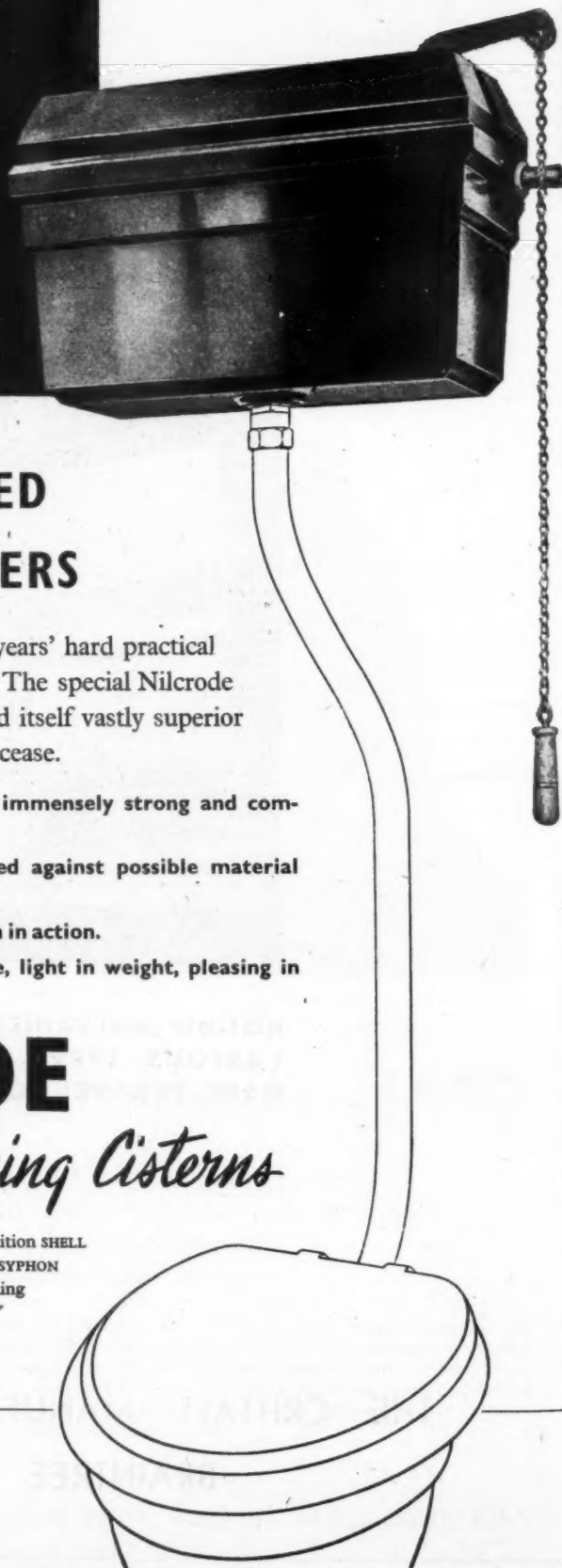
Moulded Flushing Cisterns

SPECIFICATION : NILCRODE moulded composition SHELL available 2, 2½ or 3 gall. cap., 1½" or 1¾" Harriap SYPHON complete with lever, chain pull, outlet cap and lining for lead. BALL COCK ½" M.O.H. or BSS with 4½" copper ball. ¾" OVERFLOW for lead. COVERS if required.

Full details from

J. D. STOWARD & CO. LTD.,
BRIDGEWATER ST., SALFORD 3, LANCs.

G. W. HARRISON & CO. LTD.,
NAPIER LEAD WORKS, LAISTERDYKE, BRADFORD, YO13ES.



THE BEST AND MOST COMPLETE RANGE OF CEMENT PAINTS IN THE WORLD



● **Permaceem** (WATERPROOF)

For a permanent, decorative
waterproof and washable finish.



● **Permaceem** (ANTI-CON)

For interior decoration and
prevention of condensation.

● **Permaceem** (ANTI-PEST)

An interior decorative paint lethal to
flies and other pests, scientifically
proved effective and lasting. Ideal
for Hospitals, Schools and wherever
food is handled.



● **Permaceem** (GREY)

A waterproof industrial paint
in cement grey only.

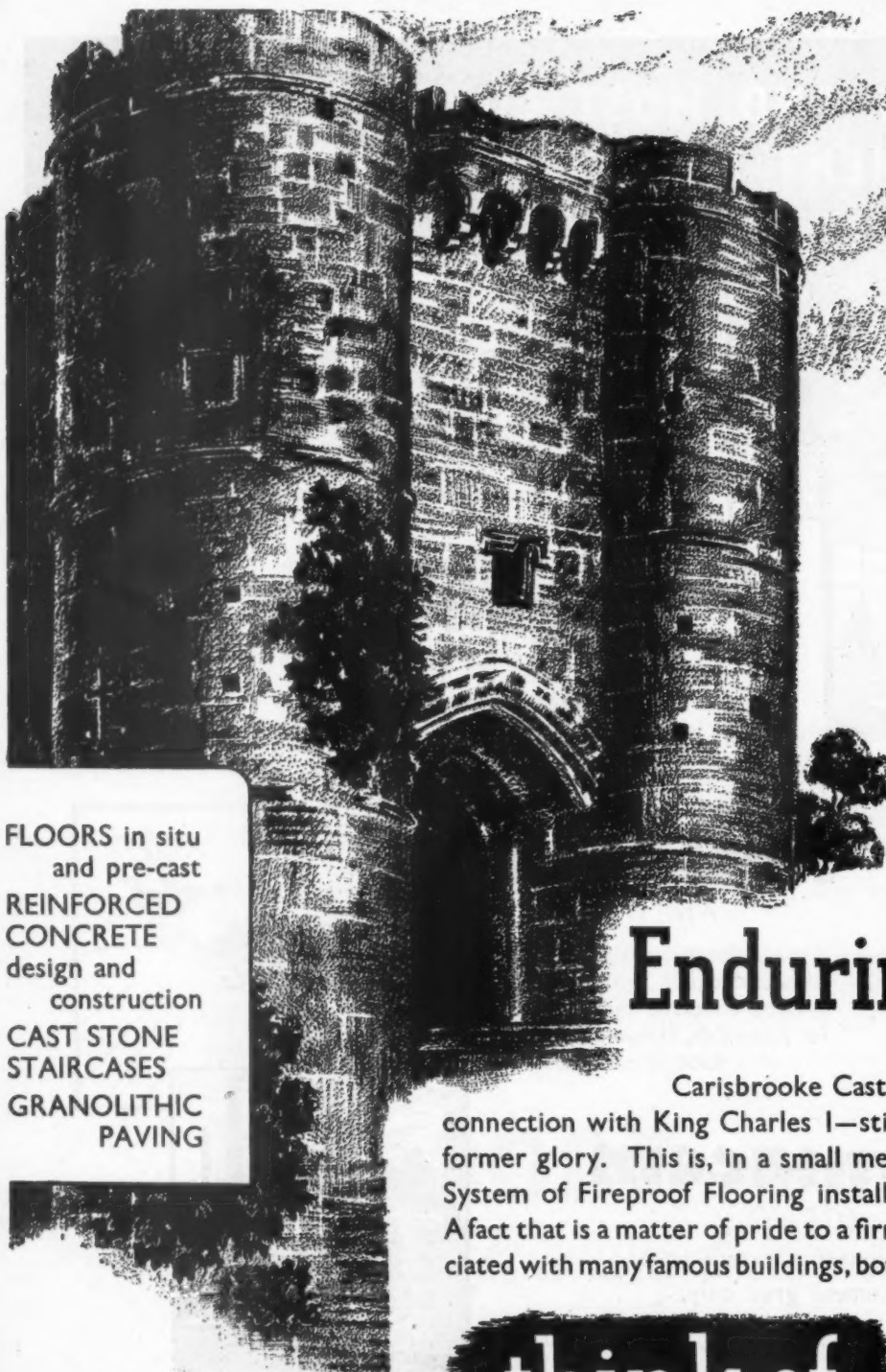


"Permaceem for Permanence"

● WRITE FOR FULL
PARTICULARS TO—

PERMACEM PAINT COMPANY LIMITED

40 BROADWAY · LONDON, S.W.1 · ENGLAND
TELEPHONE: WHITEHALL 6355 (5 LINES)



FLOORS in situ
and pre-cast
REINFORCED
CONCRETE
design and
construction
CAST STONE
STAIRCASES
GRANOLITHIC
PAVING

When you see Enduring Work

Carisbrooke Castle—memorable for its connection with King Charles I—still stands secure in its former glory. This is, in a small measure, due to Stuart's System of Fireproof Flooring installed at its restoration. A fact that is a matter of pride to a firm who have been associated with many famous buildings, both ancient and modern.

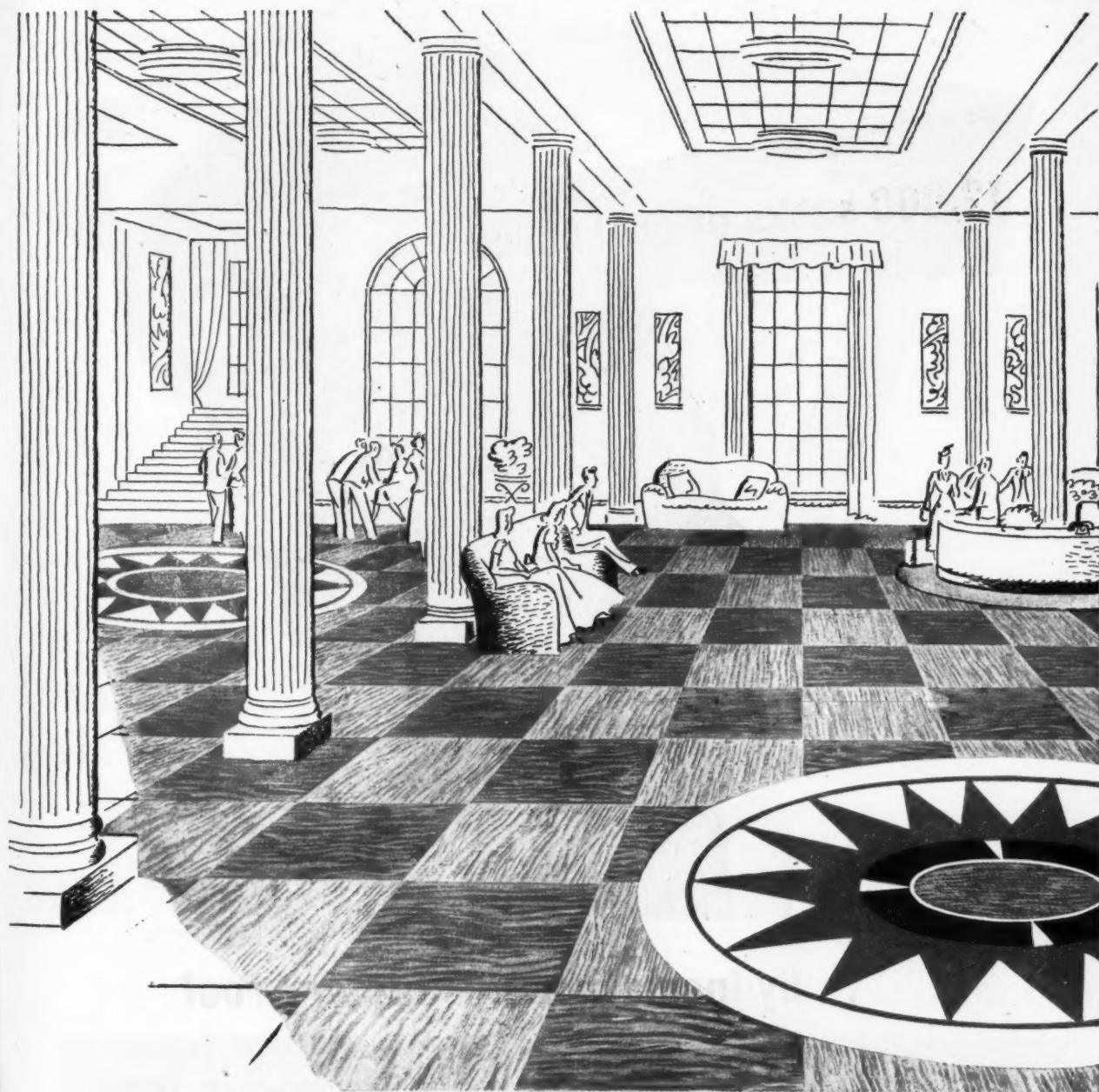
-think of

STUART'S

ESTABLISHED 1840

GRANOLITHIC COMPANY LIMITED

- ★ LONDON :
26 West End Avenue
Pinner, Middlesex
Telephone: Pinner 6223 & 5159
- ★ EDINBURGH :
46 Duff Street
Telephone: Edinburgh 61506
- ★ MANCHESTER :
Ayres Road, Old Trafford
Telephone: Trafford Park 1725
- ★ BIRMINGHAM :
Northcote Road, Stechford
Telephone: Stechford 2366



in halls and foyers of civic buildings, hotels, theatres and restaurants—in public rooms and offices—in hospital wards and corridors—NORTH BRITISH RUBBER FLOORING is the ideal floor covering. Soft, resilient, silent, long-lasting,

easy to keep clean... beautifully colourful. Sheets or tiles—23 colours (11 marbled, 12 plain)—to harmonise with any decorative scheme. NORTH BRITISH RUBBER FLOORING is a necessary luxury, obtainable at a most economic price.

**NORTH
BRITISH**

RUBBER FLOORING

THE NORTH BRITISH RUBBER COMPANY LIMITED, EDINBURGH, LONDON & BRANCHES

12,000 sacks of coal saved



... by insulating ONE factory roof

As much as 600 tons of fuel can be saved in a year by insulating with Celotex cane fibre insulation the roof of a steel framed factory (100,000 sq. ft. of corrugated asbestos). The installation of Celotex, simply and easily effected by means of the Celotex Metal Fixing Systems, substantially reduces transmission heat losses in buildings of every description. And because it cuts fuel bills and reduces the capital charge of heating plant, Celotex soon pays for itself. The table below is based on Fuel Efficiency Bulletin No. 12 and gives general information on the fuel savings obtained by insulating steel framed roofs with Celotex. Our technical department will gladly calculate specific data for your individual needs.

| CONSTRUCTION | Uninsulated | | Under-Purlin Insulation | | Over-Purlin Insulation | | | |
|---|-------------|------|-------------------------|------|------------------------|------|--------|------|
| Corrugated Asbestos Cement | 1/4" | - | 1/4" | - | 1/4" | 1/4" | - | - |
| Corrugated Iron | - | 226 | - | 226 | - | - | 226 | 226 |
| Celotex Insulating Board | - | - | - | - | 1/2" | 1" | 1 1/2" | 1" |
| Air Space/Purlins | - | - | 4" | 4" | - | - | - | - |
| Celotex Insulating Board | - | - | 1/2" | 1/2" | - | - | - | - |
| Thermal Transmittance 'U' | 1.40 | 1.60 | 0.51 | 0.52 | 0.35 | 0.23 | 0.36 | 0.24 |
| Fuel Consumption tons p.a. | 7.7 | 8.3 | 1.7 | 1.8 | 1.9 | 1.3 | 2.8 | 1.3 |
| Cost of Heating Plant. Cost £'s | 88 | 94 | 19 | 20 | 22 | 14 | 22.5 | 16 |
| Saving in Plant and Fuel due to Celotex Insulation % | | | 78 | 79 | 75 | 84 | 79 | 84 |

invest in **CELOTEX** insulation

CELOTEX LIMITED, NORTH CIRCULAR ROAD, STONEBRIDGE PARK, LONDON N.W.10



**BUILD ON A
RUBERY OWEN
STRUCTURE**

Many famous buildings throughout Great Britain have been built on Rubery Owen steel structures. They include hotels, hospitals, blocks of flats and offices, cinemas, municipal buildings, transport depots and garages. Specialists in complete factory buildings, Rubery Owen have a nation-wide reputation for the highest standard of engineering skill and craftsmanship. Service bureaux are established at London, Birmingham, Coventry and Southampton.

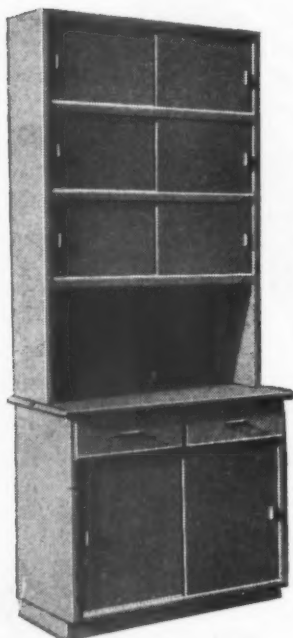
RUBERY, OWEN & CO. LTD., DARLASTON, SOUTH STAFFS. Member of the Owen Organisation
Branches at: LONDON, BIRMINGHAM, COVENTRY, MANCHESTER, SOUTHAMPTON, WREXHAM, GLASGOW

LOWEST

INSTALLATION, PAINTING, MAINTENANCE AND

PRIME COST

The headaches have been ironed-out! Sliding doors, (No Patent Catches) slide perfectly, painted or unpainted. Material variation claims abolished. Minimum demands on your Softwood and Plywood allocations.



The Austin-Hall Sliding Door Kitchen Fitment.

DELIVERED READY FOR FIXING
ONE INSTALLATION COST
PLINTH INCLUDED

Dimensions: 7'11" high. 3'6" wide
(With Plinth) (Top Unit 1 ft. deep)
(Bottom Unit 1'7" deep)

Quantities: ·017 Stds. Softwood
13 sq. ft. Plywood

The Austin-Hall Partition Cupboard Fitment. →

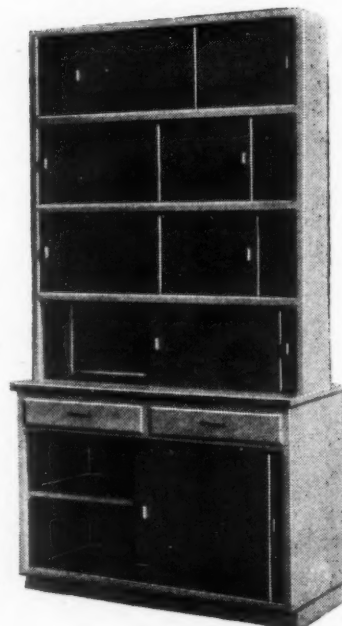
FORMS PART OF PARTITION WALL AND
SAVES NEARLY 4 SQ. YDS. PARTITION
WALLING, FINISHED AND DECORATED,
COSTS APPROX. £1 PER SQ. YARD.

THROUGH SERVING-HATCH TO TABLE
BACK AND FRONT ACCESS TO
FLOOR CUPBOARD

DELIVERED READY TO BE BUILT-IN

Dimensions: 7'11" high. 4'3" wide
(With Plinth) (Top Unit 10 1/2" deep)
(Bottom Unit 1' 9" deep)

Quantities: ·019 Stds. Softwood
8 sq. ft. Plywood



DESIGN

::

CONSTRUCTION

::

QUALITY

AUSTIN-HALL GROUP OF COMPANIES

AUSTINS OF EAST HAM LTD.

GRAnge wood 3444

LONDON E.6

THE SNOWCEM CASE BOOK

POLICE HOUSING FOR THE COUNTY OF LANCASHIRE



This illustration shows some of a group of 22 houses at Hutton, near Preston, part of a scheme for providing 700 houses throughout the County.

The external walls of the houses shown are painted with cream SNOWCEM to harmonize with the surroundings. This is a picturesque estate where full advantage has been taken of the wooded nature of the site. The County Architect is Mr. G. Noel Hill, F.R.I.B.A., M.T.P.I.

Easily applied to concrete, stone or suitable brick with brush or spray. In white, cream, pink and silver-grey. Our Technical and Advisory department is at your service.

SNOWCEM WATERPROOF CEMENT PAINT



THE CEMENT MARKETING CO. LTD., 192 Ashley Gdns., London, S.W.1. Phone: VICTORIA 6677.

or:— G. & T. EARLE LTD., Cement Manufacturers, Hull. Telephone: Hull 16121.

THE SOUTH WALES PORTLAND CEMENT & LIMÉ CO. LTD., Penarth, Glam. Telephone: Penarth 300.

T1649R.

REDLAND

for endurance and appearance



Architect: J. Garrett Bonnett Esq., F.R.I.B.A.

Builders: Messrs. G. E. Wallis & Sons, 231, STRAND, W.C.2

★ We shall be pleased to send you a detailed specification, and quote delivery to any part of Great Britain. Our Technical representative will gladly call and discuss special arrangements.

SEE OUR EXHIBIT AT THE BUILDING CENTRE



Redland Interlocking Tiles are first choice on modern housing projects where economy, speed of laying and saving of timber are foremost considerations. The tiles are guaranteed for 50 years against lamination and decay and once laid need no replacement. A double water channel ensures absolute protection from water penetration.

Redland tiles have been used on housing estates for over 30 years and nearly 300 Local Authorities have used Redland Tiles. Increased manufacturing facilities now make it possible for tiles to be supplied quickly in any part of the United Kingdom.

Redland Roofing Tiles are available in two standard designs, INTERLOCKING 15in. x 9in. and PLAIN 10½in. x 6½in. in six rich warm colours.

Selling organisation for Redland Tiles:

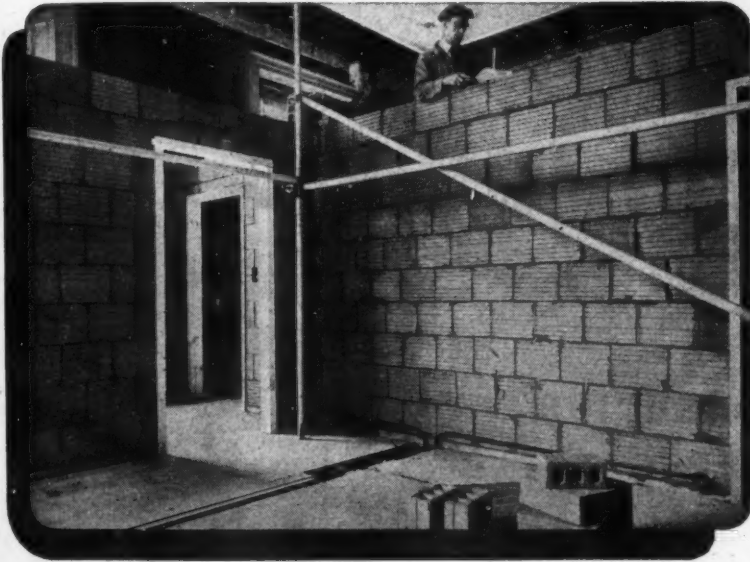
REDHILL TILE CO. LTD.

Moorhouse, Nr. Westerham, Kent.

Telephone: Limpsfield Chart 3206/7.

SANKEY'S MOLER

Hollow Partition Blocks and Insulating Bricks



*The French Embassy, Albert
Gate, Knightsbridge, S.W.3.*

*Architect:
Fernand Billery, Esq.*

*Contractors:
Trollope & Sons
(London) Ltd.*

SANKEY'S MOLER HOLLOW PARTITION
BLOCKS were selected for use at
The French Embassy, Albert Gate,
Knightsbridge, S.W.3, and used for the
construction of internal partition walls
on account of their valuable properties—

THERMAL INSULATION

SOUND RESISTANCE

LIGHT WEIGHT

See Folder No. 116 Architects' "Classifile."

J.H.SANKEY & SON.LTD

ALDWYCH HOUSE, ALDWYCH, LONDON, W.C.2

Telephone: HOLborn 6949 (20 lines)

Telegrams: Brickwork, Estrand, London

xxvii



The Clix "Surrey" A.C.
Switch Socket Outlet

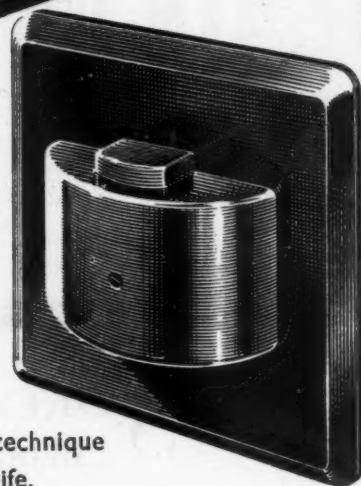
Switch to

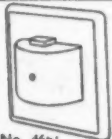
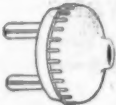





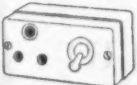


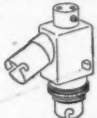
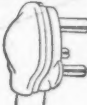


Electrical accessories based on better ideas

Clix electrical accessories mark a new approach to the problems of lighting and power control. Practically every accessory in the range is a radically new design. In every case the best of modern materials and manufacturing technique combine to give improved operation, appearance and longer life.

Write for the Clix catalogue of electrical accessories, post free on request.



| | | | | | |
|---|---|---|---|---|---|
|  |  |  |  |  |  |
| List No. 4601 5-amp. Flush "Surrey" Switch | List No. 4466 Clix 2-pin "M" Plug | List No. 2871 5-amp. Metal-clad Switch Units | List No. 3780 3-pin Switch Socket Outlets | List No. 4485/6 Clix Ceiling Roses | List No. 4941 Clix Suspension Switches |
|  |  |  |  |  |  |
| List No. 3122 5-amp. "Pet" Switches | List No. 4343 3-pin Switch Socket Outlets | List No. 4092 5-amp. "Epic" Switches | List No. 4980 B.C. Lampholder, Cord- Grip, Shade Carrier (Brown Moulded) | List No. 6011 B.C. Lampholder Adaptors | List No. 4424 Clix 3-pin Plugs B.S.546 |



THE GENERAL ACCESSORIES CO. LTD.

Manufacturers of Good Electrical Accessories since 1896

BARTON HILL WORKS, BRISTOL 5

THEIR NAMES ARE LEGEND - NO. 2



THOMAS SHERATON (1751-1806)

It is tragically ironic that those who give most to the world frequently receive so little in return. Thomas Sheraton was such a man. He whose artistic genius created furniture of exquisite delicacy and beauty, unparalleled by any before him save Chippendale, lived out his life in grinding poverty. In his meagre little room he created designs for furniture to grace the houses of the aristocracy and to be perpetuated wherever fine furniture was held in esteem.

Some have said that Sheraton's genius was less balanced

than that of Chippendale, but no one can deny that the exotic beauty of his designs set a tradition which craftsmen were proud to follow.

In our own way we follow the traditions which masters like Sheraton began. Today the demand for fine quality exotic Veneers is greater than ever. Our Warehouses contain a large and varied stock—including some of the finest veneers in the world. You are invited to come and inspect them for yourself.

EXOTIC & DECORATIVE

Veneers

STAMFORD
TRADING CO. LTD

STAMFORD HOUSE, 24/26 KINGSLAND ROAD, LONDON, E.2. (Shoreditch 5537)



EVEN IF THE LION HAD NO NAME, FEW WOULD CALL HIM "KITTY"
(African Proverb)

The three T.I. Aluminium companies have decided to trade under one name, and a name at that which gives an accurate idea of their identity. So Reynolds Rolling Mills Ltd., Reynolds Light Alloys Ltd. and The South Wales Aluminium Company Ltd. now have their marketing arrangements united under the title of T.I. Aluminium Ltd. This arrangement will simplify administration and make for even more efficient production of Aluminium and Aluminium Alloy Billets, Ingot, Slabs, Tubes, Extrusions, Sheet and Strip. The efficient service offered by T.I. Aluminium is in keeping with its name.



REDFERN ROAD, TYSELEY, BIRMINGHAM. TEL: ACOCKS GREEN 3333

ALUMINIUM AND ALUMINIUM ALLOY INGOT, SLABS,

BILLETS, SHEET, STRIP, TUBES AND EXTRUSIONS TO ALL A.I.D., B.S./S.T.A. AND B.S. SPECIFICATIONS. Export enquiries should be addressed to T.I. (Export) Limited, 21-23 High Street, Birmingham, 5



The sales and administrative organisation for Reynolds Light Alloys Ltd., Reynolds Rolling Mills Ltd. and The South Wales Aluminium Company Ltd.

In common with every other periodical, this JOURNAL is rationed to a small part of its pre-war consumption of paper. Circulation is therefore temporarily restricted but would-be subscribers are advised to have their names put on the waiting-list. Their names will then be added to the subscription list as soon as possible. Subscription rates: by post in the U.K. or abroad, £1 15s. 0d. per annum. Single copies, 9d.; post free, 11d. Special numbers are included in subscription; single copies, 1s. 6d.; post free, 1s. 9d. Back numbers more than 12 months old (when available), double price. Volumes can be bound complete with index, in cloth cases, for 17s. 6d. each; carriage 1s. extra.



DIARY FOR JUNE JULY AND AUGUST

Titles of exhibitions, lectures and papers are printed in italics. In the case of papers and lectures the authors' names come first. Sponsors are represented by the initials given in the glossary of abbreviations on the front cover.

BIRMINGHAM. *Prestressed Concrete Exhibition.* Jubilee Works, Sherlock Street. JUNE 16-27

British Theatre Exhibition. Bingley Hall. UNTIL JUNE 18

BRISTOL. *Design Week* organized by the Council of Industrial Design. Details to be announced locally. JUNE 13-18

Design Fair. City Museum and Art Gallery, Queens Road. Daily, 10 a.m. to 6 p.m. Sundays, 2.30 p.m. to 5 p.m. Opening at 3 p.m. on June 13. JUNE 13-JULY 2

CARDIFF. *Background For Living Exhibition.* (Sponsor, David Morgan Ltd.) David Morgan Ltd., Cardiff. UNTIL JUNE 18

DERBY. *Derbyshire Homes Through Three Centuries Exhibition.* Art Gallery, Strand, Derby. Weekdays, 10 a.m.-6 p.m.; Sundays, 2.30-4.30 p.m. UNTIL JULY 2

EDINBURGH. *Demonstration of Building Plant.* Canning Street. (Sponsors, MOW and Building and Civil Engineering Industries' Joint Advisory Panel for Scotland.) June 21, 11 a.m. to 6 p.m.; June 22, 10 a.m. to 8 p.m.; June 23, 10 a.m. to 6 p.m. JUNE 21-23

GLASGOW. *Demonstrations of Building Plant.* Glasgow Green. (Sponsors, MOW and Building and Civil Engineering Industries' Joint Advisory Panel for Scotland.) June 29, 11 a.m. to 6 p.m.; June 30, 10 a.m. to 8 p.m.; July 1, 10 a.m. to 6 p.m. JUNE 29-JULY 1

LONDON. *The Royal Academy Summer Exhibition.* At Burlington House, Piccadilly, W.1. UNTIL AUG. 7

Exhibition of paintings by Giorgio de Chirico. Summer exhibition of Royal Society of British Artists, Suffolk Street, S.W.1. UNTIL JUNE 11

Hampstead Seen. Exhibition of plans, drawings, photographs and paintings by Hampstead artists, architects and photographers. (Sponsors, Hampstead Artists' Council.) 12 noon to 7 p.m. every day. UNTIL JUNE 25

Lionel Brett. *Looking at Buildings.* Annual Meeting of Council for Visual Education, 13, Suffolk Street, S.W.1. 2.45 p.m. JUNE 13

The Appearance of Housing Estates Exhibition. Housing Centre, 13, Suffolk Street, Haymarket, S.W.1. Weekdays, 9.30 a.m.-5.30 p.m. Saturdays, 9.30 a.m.-12 noon. JUNE 14-JULY 1

RIBA Council Election Results. Charles Woodward and Sydney Redfern. *Questions and Answers in Practice.* At the RIBA, 66, Portland Place, W.1. (Sponsor, RIBA.) 6 p.m. JUNE 21

TPI Annual General Meeting. In the Assembly Room, Central Hall, Westminster. 5.30 p.m. JUNE 23

Exhibition of Industrial Finishes. At Earls Court. (Sponsor, CID.) AUG. 31-SEPT. 13

NOTTINGHAMSHIRE. *British Architects' Conference.* To be held at Nottingham. (Sponsor, RIBA.) JUNE 29-JULY 2

SOUTHAMPTON. *Design Week* organized by the Council of Industrial Design. Details to be announced locally. JULY 11-16

WEST HARTLEPOOL. David T. Jones. *Post-War Legislation and its Effect on Local Health Authorities.* J. Stanley Miles. *Neighbourhood Planning.* Town Hall. (Sponsor, RSL.) 10 a.m. JUNE 24

COMPETITIONS

Competition for Furniture Design. The Scottish Furniture Manufacturers' Association. Five prizes, each being a planned visit to Scandinavia. Open to all architects, designers, students, apprentices, craftsmen, or operatives in Scotland. Designs are required for furniture for one room and for a single piece of furniture. Application forms from The Competition Secretary, The Scottish Manufacturers' Association, 166, Buchanan Street, Glasgow, C.1, to whom entries must be made by June 18.

Competition for Design of Strip Carpet. The IAAS announces that this competition will be open to all architects and architectural students in the United Kingdom and the Commonwealth. It will be divided into three sections: hotels, cinemas and theatres and ships. In each section a first prize of 75 guineas and a second prize of 25 guineas will be awarded. Details will be announced later.

Design of Community Centre. The Incorporated Association of Architects and Surveyors. Two prizes, £150 and £75, for Urban Design. Two prizes, £100 and £50, for Rural Design. Open to all architect members of the IAAS, and to any architect, whether principal or assistant, in the United Kingdom, Northern Ireland and Eire. Closing date, February 1, 1950. Applications to General Secretary, 75, Eaton Place, Belgrave Square, S.W.1.

NEWS

THURSDAY, June 9, 1949
No. 2835 VOL. 109

| | |
|--|------------------|
| News | 513 |
| The Future of St. John's Wood .. | 514 |
| This Week's Leading Article .. | 515 |
| Astragal's Notes and Topics .. | 516 |
| LCC Housing: More Opinions .. | 517 |
| Facets in Art Education .. | 518 |
| Exhibition at BEA House .. | 519 |
| House at Bellingdon .. | 522 |
| Shop at Wimbledon .. | 523 |
| Shop at Marylebone .. | 525 |
| Information Sheets: | |
| 14.N9 Windows fixed in Insulight Hollow Glass Block External Panels .. | To face page 526 |
| 20.Z1 Bitumetal Roof Deck .. | |
| Societies and Institutions .. | 527 |
| Technical Section: | |
| Information Centre .. | 529 |

Though no feature in the JOURNAL is without value for someone, there are often good reasons why certain news calls for special emphasis.

★ means spare a second for this, it will probably be worth it.

★★ means important news, for reasons which may or may not be obvious.

Any feature marked with more than two stars is very big building news indeed.

The names of A.A. SCHOLARSHIP WINNERS have been announced.

They are as follows: The Minter Open Entrance Scholarship (value £100), D. Flower, London, N.W.7 (Highgate School); The Sir Walter Lawrence Open Entrance Scholarship (value £100), P. Manoussos, London, N.W.3 (Highgate School); The Metal Window Scholarship (value £75), presented by The British Metal Window Manufacturers Association, Ltd., N. R. Grimwade, Cheltenham (Cheltenham Grammar School); The Natural Asphalte Council Scholarship (value £50), presented by the Natural Asphalte Mine-owners and Manufacturers Council, A. A. Briggs, Stockton-on-Tees (Stockton Technical School); The Northern Aluminium Scholarship (value £50), presented by the Northern Aluminium Company, M. A. Meager, Clacton-on-Sea (Clacton County School); The Patent Glazing Scholarship (value £50), presented by the Patent Glazing Conference, M. S. Podd, Norwich (King Edward VI Grammar School); The Metal Window Senior Scholarship (value £50), presented by the British Metal Window Manufacturers Association, Ltd., R. H. J. Geary, London, N.W.10 (Kilburn Grammar School; Northern Polytechnic School of Agriculture).

DOORS
ARE
HUNG
MORE
QUICKLY
on



HOPE'S

PRESSED STEEL

DOOR FRAMES

MADE IN STANDARD SIZES FOR STANDARD WOOD DOORS
AND SUPPLIED IN ONE PIECE, COMPLETE WITH LUGS, HINGES
AND ADJUSTABLE LOCK-STRIKES, READY FOR BUILDING IN

Send for Catalogue No. 231

HENRY HOPE & SONS LTD., Smethwick, Birmingham
and 17 BERNERS ST., LONDON, W.1

From AN ARCHITECT'S Commonplace Book

BANALITY IN BUILDING. [From *The Land of Italy*, by Jasper More (B. T. Batsford, Ltd.).] To the foreign visitor who has learnt to regard this country as the source of all art, there is perhaps no greater disillusionment than the Italian achievement of the last eighty years. To the Italian who points out that the collapse of taste has been a universal rather than an Italian phenomenon, it might be replied that Italy, though she escaped both the Gothic revival and the industrial revolution, achieved during this period constructions of a banality which, if anything, exceeds those of other countries of Europe and America. A weedy classicism was the architectural stock-in-trade of the first half-century of United Italy, its spindly columns and half-hearted pediments forming the support or setting for a standardized decorative treatment of vine leaves, fruits and female heads. Towards the end of the 19th century the spirit of building became gradually more robust, culminating in the great Victor Emmanuel monument in Rome, which may be considered the high-water mark of the Italian liberal style. With the advent of Fascism a note of asperity was rapidly infused into surface treatments . . . From this early Fascist style, the psychological basis of which is the exhibitionism of the inferiority complex, occurred a sudden swing-over to an architecture of bold lines and vast plain surfaces, devoid of any decoration at all.

★ An ARCHITECTURAL SUMMER SCHOOL is to be held in York during August.

This School of Architectural History and Measured Drawing, sponsored by York Civic Trust, in association with the York and East Yorkshire Architectural Society and the West Yorkshire Society of Architects, will be held in York from August 13 to 27. In arranging this School it has been the aim of the Trust's Academic Development Committee to place the treasure of architecture and craftsmanship of the city at the service of students of architecture in schools recognized by the RIBA, and others, for the purposes of study.

The particular objects of the Summer School are: to enable students of architecture to make measured drawings of buildings in York under the guidance of a staff of experts; and to provide, in addition, a series of lectures on various aspects of the History of Architecture by a number of distinguished architectural historians who could not normally be brought together in one place; and thus to provide a meeting ground between those with a vocational and those with a liberal interest in architecture.

The fee for the School will be two guineas. The number of vacancies will be strictly limited and it may be necessary to deal with suitable applications in the order in which they are received. Applications for admission should be addressed to the Secretary, York Civic Trust (Academic Development Committee), 6, High Petergate, York. They should be received not later than June 18

of new contracts would for some time be restricted to the provision of houses for occupation by agricultural workers and miners. Now, the circular adds, in view of the progress which the building industry has made during the past 18 months in reducing the amount of housing work in their hands, the Secretary of State considers that the time has come when the restriction on the approval of tenders for houses for the general population can be relaxed.

On the need for more three-apartment houses, the circular remarks that where a local authority can show that there is a real need for three-apartment houses in their district, the Secretary of State will be prepared to agree that a proportion—not exceeding 25 per cent.—of the houses in any development may be of this size.

Since the selection of approved non-traditional types is to be left to local authorities themselves, it is not proposed in the meantime to make any further arrangements for the allocation of such houses under centrally organized programmes. To assist local authorities in their decision, however, the Department are negotiating maximum prices with the various sponsors of non-traditional houses, and a separate circular will be sent to local authorities as soon as possible giving full particulars of the maximum prices which the Department are prepared to approve in each case.

The Secretary of State has drawn attention to the fact that since the war large numbers of semi-detached cottages have been built by local authorities. To secure architectural variety and to effect economies in both the use of land and the cost of building, he thinks that a number of flatted houses and terraced types might easily be included in schemes where sites lend themselves to this treatment.

★ The gold Albert Medal of the RSA for 1949 has been awarded to Sir Giles Gilbert Scott.

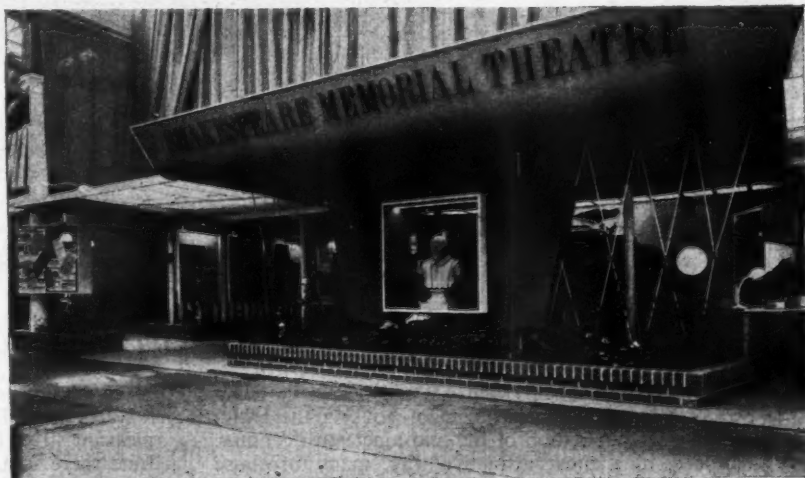
Sir Giles Gilbert Scott, O.M., R.A., F.R.I.B.A., has been responsible for the planning of many important works throughout the country, including Liverpool Cathedral, the New Library at Cambridge University, Waterloo Bridge, additions to Magdalen College, extensions to the Bodleian Library, Oxford, the new Chapel at Charterhouse School, restoration at Chester Cathedral and the rebuilding of the House of Commons, as well as many churches and war memorials.

The medal will be presented by Princess Elizabeth, President of the RSA, on Monday, July 11.

★ LOCAL AUTHORITIES in Scotland may build MORE HOUSES NEXT YEAR.

The present restrictions on the placing of tenders for houses are to be relaxed in Scotland, and local authorities can now arrange their own programmes of non-traditional houses. These facts are given in a circular sent out by the Department of Health for Scotland which also gives details of the principles on which the 1950 housing allocations will be based. The circular also encourages local authorities to include flatted and terraced houses in suitable housing schemes, and allows the building of more three-apartment houses where there is a real need for them.

Explaining the reason for these changes in policy, the circular refers to the restriction imposed in October, 1947, on the building of new houses. Because of the very large number of houses then under construction, it was laid down that the approval



Stand containing the history of the theatre at Stratford-on-Avon, designed by Brian Peake of the Design Research Unit and on view at the British Theatre Exhibition, Birmingham, which will remain open until June 18.



The Future of St. John's Wood

The unique quality of St. John's Wood lies in its being the perfect solution to the problem of housing the growing middle class population of the mid-nineteenth century. It combines, in a most attractive way, many of those requirements of contemporary housing which are as yet only partially solved: seclusion and privacy, with proximity to a central area; variety and charm in the houses, without the monotony of present-day housing estates; and the small incidents of urban design which can

go so far towards providing the right setting—variety of textures in walls and footpaths, carefully sited trees and pleasant street furniture. In the *Architectural Review* for June there is an article by Peter Dickinson and Stephen Gardner which examines the architectural character of St. John's Wood and gives suggestions for its redevelopment. These suggestions should be carefully studied in view of the proposals of the LCC for converting part of the area into a site for large blocks of flats.

★★

Dr. THOMAS SHARP has been elected President of the Institute of Landscape Architects.

Dr Sharp is in private practice as a landscape architect and town planning consultant. Besides preparing some general regional plans and detailed plans for a great many towns, including a notable series of cathedral cities, and also for a number of new country villages, he has prepared designs for parks and gardens and for the landscaping of stretches of countryside. He has written many books on town and country planning and landscape.

A Plea for the RAISING OF THE "FREE" LIMIT in building was made recently by Mr. Norman Longley.

Mr. Longley, president of the NFBTE, speaking at the half-yearly meeting of the Southern Counties Regional Federation at Eastbourne, said that if the Minister of Works would raise substantially the present "free" limit of £100 a year for general building work, builders who carried out works of maintenance, repair, and re-conditioning would be better able to plan their work ahead, keep their men steadily employed on an organized basis, and so reduce costs. Despite rumours that had been circulating for the past few weeks, the Minister of Works had not, he understood, come to a decision. But experience of the last year fully justified a substantial increase. The raising of the limit last year meant a better balanced flow of work for the industry and, without diverting men and materials from essential works such as housing, had enabled inroads to be made on the accumulated maintenance and repair work which so many millions of houses and other buildings still needed. The further raising of the limit would enable this good work to be accelerated.

NEWS IN BRIEF

Messrs. Freeman, Fox & Partners will be the consulting engineers for the construction of the Exhibition to be held on the South Bank of the Thames in connection with the Festival of Britain, 1951.

The LMBA is offering prizes to the value of five guineas to the City and Guilds of London Institute for students taking the painting and decorating classes.

Mr. Peter Middleton has won the first award in a competition for a war memorial promoted by the Committee of the Nottinghamshire (Sherwood Rangers) Yeomanry Old Comrades and Welfare Association.

Mr. John Arthur Fergus Watson has been elected president of the Royal Institution of Chartered Surveyors, in succession to Mr. S. V. Hicks.

Mr. G. Ellis Miles, a diploma student of the Leicester School of Architecture, who is at present employed by a London firm of design consultants, has won the first prize award of £50 for his design of a new television set in a nation-wide competition.

Mr. P. M. Ewen, has been appointed executive director to the Association for Planning and Regional Reconstruction, and took up his appointment on June 1.

CONCERT HALL ACOUSTICS

THE past ten years, which have seen so much technical leadership pass to America, have also witnessed the Americans loss of it in acoustics. Their architects and their scientists have drifted apart, and their journals contain only occasional articles on the subject.

The real advances have been made in Switzerland, Denmark and Sweden, where lively university teams and other research groups have been at work. Their interest grew, partly from new types of absorbents which were attractive for theoretical studies and for many practical purposes, and also because these absorbents were architecturally adaptable and could be used with great decorative effect. Panels, imperforate and perforated, and slit absorbers, were outstanding.

In Britain the new note of interest was first sounded in Post-war Building Study No. 14. This brought us some way forward in the matter of the new absorbents, but it made two additional suggestions which were important. The first was to emphasise the direct path for sound between source and listener, on the assumption that the sound should be heard strongly initially if the listener is to hear it properly. The other point was that reverberation should be considered not for one frequency only, at middle pitch, but at a low frequency and a high one also.

The effect of the first is more important than may seem from the plain statement. What it amounts to, when the source is an orchestra, is that both it and the audience must be quite steeply raked, so that the listeners can see (and hear) the whole body of players. The criticism of the traditional platform arrangement was that the fiddles, which are inclined to be weak, are shadowed acoustically by one another on the flat part of the platform, and the brass and drums, which are often too strong, are relatively exposed. The suggestion is that there should be no platform in the ordinary sense, but that the seating for both the orchestra and listeners should slope up from the same level.

The other matter—the calculation of reverberation over a range of frequencies, ties up with the new absorbents. The objective in design is to absorb low and middle frequencies and preserve the high, which is precisely what the panels do. The high frequencies are essential for intelligibility and character.

The designs of the new LCC hall are worth studying as a demonstration of these ideas, because it is apparent that the combined influence of Mr. Bagenal and the BRS, both of whom played a large part in Post-war Building Study No. 14, has been brought to bear effectively upon them. The result is a dramatic change from the pre-war approach.

There is no doubt that the crux of the matter is the new absorbents. In respect of these the Post-war Building Study went only part of the way. Fortunately, we now have available, in English, most of the rest of the story, for the

Physical Society Acoustics Group has just published* the papers of a symposium on the subject. This illustrates and describes adequately this important addition to architectural resources.

For the future, as the RIBA *Journal* recently said,† the question is one of being able to predict reliably for good tone quality. This is the goal of all the new work, and rapid strides are being made in that direction.

* "Resonant Absorbers and Reverberation," published by the Physical Society, 1, Lowther Gardens, Prince Consort Road, London, S.W.7, price 7s. 6d., postage 6d.

† "Concert Hall Acoustics," RIBA *Journal*, December, 1948, pp. 70-76; January, 1949, pp. 126-129.



The Architects' Journal

9, 11 and 13, Queen Anne's Gate, Westminster, S.W.1

Phone: Whitehall 0611

N O T E S & T O P I C S

BERGAMASC CONGRESS

The seventh CIAM Congress is to be held this summer at Bergamo, since it is the turn of the Italian group to be the hosts. It was England's (the MARS Group's) turn last time, it will be remembered, when the sixth congress was held in 1947 at Bridgwater, Somerset.

Out of curiosity as to what sort of setting the leading modern architects of Europe and America are going to have for their discussions, I looked up Bergamo (pop. 38,000—the ancient Pergamus) in my *Baedeker*, edition of 1866. It says you must stay at the Capello, near the railway station, famous for its lake trout, you must not miss the view from the Casa Terzi or fail to visit the *Citta* (old town), "inhabited by the Bergamasc nobility, who keep themselves apart from the traders of the lower town," and that "the Bergamasc dialect is the most inharmonious perhaps of northern Italy."

I wish my colleagues in the MARS Group a happy time there. Henceforward Bergamo, if it wishes, can claim to be the Bridgwater of northern Italy. The original Harlequin, if this has any significance, was a Bergamasc.

RAILWAY BOMBARDMENT

British Railways' new tavern cars seem to have had almost as bad a Press as I'd hoped, for even the sillier pennies gave a faintly supercilious sniff, though admittedly on a Saturday. Monday's *Times* had a brief letter ("ridiculous, even by the silliest roadhouse standards") with a lot of signatures beginning with Sir Leigh Ashton of the V & A, and continuing *via* the presidents or chairmen of the RCA, the CID, the AA (and its school), the DIA, the RSA, the SIA, the Institute of Contemporary Arts, the RDI Faculty and the Industrial Art Committee of the FBI.

Quite a heavy broadside, in fact, and I was particularly glad to see that for once the Council of Industrial Design seems to have spoken before being spoken to. Twice, in fact, if you count Mr. Gordon Russell in his RDI hat as well. It seems obvious nonsense for a nationalized industry not to consult the appropriate Government department, but it still doesn't seem to happen very often. My only surprise is that the taverns weren't thatched as well, but, of course, it would have had to be *imitation* thatch, probably too difficult to manage in fireproof cement.

LAGGING ALL THE WAY

If an enthusiast for architecture wants to impress a lay mind by showing him some of the best contemporary work, nine buildings out of ten will be Scandinavian, Swiss or American. The tenth subject may well come from the remaining fifty-odd countries, with

Britain resting on its withered "international style" laurels about a third of the way down.

If that makes some of the modern boys bridle a bit and thrust their crib books under the drawing board, be thankful that it's only said by a cantankerous old Astragal in the AJ and not by your favourite columnist running down this artistic yet remunerative profession in one of the dailies. Before compiling your list to prove me wrong, do not forget to remove any buildings by architects who were trained and educated abroad. All this leads to the point that, however tired one may become of the constant harping on the good work done by certain countries, there are, nevertheless, few alternatives from which to choose. A lead once established gets progressively greater.

The usual excuse for the low standard of design is the low standard of public taste. However, the public in this country is not alone in its bad taste, as the following quotation shows: "The suite (of furniture) exists in some imitated antique style or some more or less so-called 'modern style' . . . the furniture and the interior decoration are designed on the principle of art for art's sake." This extract, surprisingly enough, refers to the Swedes, and is taken from one of ten lectures on Swedish architecture given to a group of English architectural students by leading Swedish architects. This pleasant little book*, though containing little that is new for the Swedophile, shows how little public taste need affect good design, and indicates clearly how progressive-minded and accomplished are the leaders of the architectural societies, the business houses and the Co-operative movement in Sweden by comparison with the complacent nondescripts in equivalent positions over here. It makes one realise with what care we must cherish the few glimmerings of enlightenment discernible in such organizations as the CID.

EASTERN STATIONS

One of the few places where high quality new buildings can be seen in London is in the new stations on the Eastern extension of the Central Line.

* Ten Lectures on Swedish Architecture. Published by the Svenska Arkitekters Riksförbund.

LCC HOUSING

MORE OPINIONS

Below is printed a further selection of architects' opinions on the work of the LCC Housing Department. They have been sent in response to the LCC's invitation and are based on the exhibition the LCC arranged at County Hall following severe criticism of post-war LCC housing on the radio, in the JOURNAL and elsewhere. The JOURNAL accepted the LCC's challenge to publish the profession's opinions on its work.

R. Gardner-Medwin, A.R.I.B.A.:

I agree with the multitude of critics who complain of the bleak and uncontemporary housing of the LCC, but as I have to depend mainly on your pictorial review I shall not elaborate. It is the cause of our complaining we have to cure.

How can we expect good architecture from a regiment of architects commanded by a valuer or, for that matter, by a city engineer or a borough surveyor? There are some splendid examples nowadays of public officers producing, by excellent teamwork under the leadership of able architects, architecture of the highest order. There is one example in another section of the LCC. But all over the country we find commonplace housing schemes, schools and public buildings which are the inevitable, emasculated by-products of valuation, city engineering and borough-surveying.

If the many architects who are public servants are expected to produce fine architecture in the spirit of the times, they must be given the chance to express themselves as architects, having faith in their architect chief and in his organization.

Jack Howe, A.R.I.B.A.:

There is clearly a broader issue than just the quality of post-war LCC housing; it concerns architecture as a whole in this country, whether it be the work of official departments or the private practitioner, and if the present controversy helps to stimulate public and professional awareness some good purpose will have been served. Surely the essence of the matter is that although in our present state of society pigs' ears are only too frequently made from silk purses, it is fortunately still true to say that only good architects can produce good architecture.

Bernard H. Cox, L.R.I.B.A.:

It may be that from social and economic standpoints there is a great deal to be said for the LCC's housing achievements but, when the issue is narrowed to aesthetics, I have no hesitation in saying that the standard of design is very decidedly inferior to that of flats built by certain Metropolitan Boroughs, such as Finsbury and Holborn, and to comparable buildings in Sweden, Switzerland and Denmark. The fundamental fault seems to lie in the application of an idiom traditional for small houses in this country to buildings on a very much larger scale, rather than any objective approach to the architectural problem inherent in such buildings.

Alan Emmerson

The exhibition made me angry. The weaknesses of the LCC organization have been pointed out; these remarks concern the architects and those who find these schemes "enlightened" and "fine."

Would they want their wives to carry babies up four or five storeys? Could



A view of the "Old Town" at Aarhus, Denmark, a collection of sixteenth century houses which have been carefully collected and preserved, as has also been done in Skansen Park, Sweden and at the Lillehammer Museum of Norway.

I had my first trip on it last week and strongly recommend one as a pick-me-up for the profession.

Stratford, by Sir T. P. Bennett, is rather heavy and dull, but one fancies he was tied to the dull uniform of the LNER suburban stations. Then come a group of which some are by London Transport's architects and some by Adams, Holden and Pearson, including Red Bridge and Gant's Hill. The former are goodish and the latter, as one would expect, are very good, but I confess I found their goodness all a little insipid in its effortlessness. One felt the architect knew all the answers so well that no one feature really gripped one's memory.

The great success of the trip for me was the bus station and partial reconstruction of the Underground station at Newbury Park, by Oliver Hill (Edward Duley, assistant architect). The 150-ft. long copper-covered arch of the bus station is a striking piece of architecture. One hopes this station—which will be a big bus-rail interchange point—will soon be completed.

BION MARCHES ON

Ripley has died at Bion, his strange Long Island palace of curios, but his Believe It or Not enterprises, which

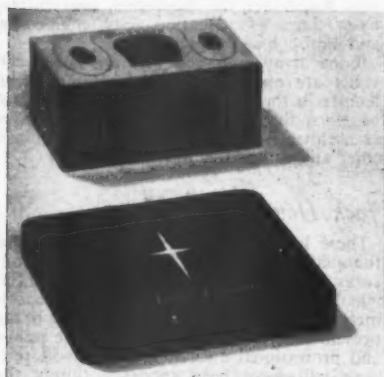
brought him, in a good year, £100,000 income, are to go on "as an institution," for in Ripley's files, as the *Sunday Express* tells us, there is enough material to carry on his cartoons for at least another five hundred years.

This is good news, for how soothing it is to read on a Sunday morning, as two rich cups of coffee bring one slowly to life and the spots glide before one's eyes, that Voltaire could tolerate no less than seventy cups a day (with or without spots is not revealed); how fascinating, too, to learn without effort the vivid truth that the Koala bear is half an inch long at birth and never drinks anything at all. Even architecture, that most unpopular subject, is sometimes featured in the Ripley drawings, and I am stimulated now to research backwards in the archives of Fleet Street to discover those stranger-than-fiction facts about buildings which this tireless recorder has revealed to the world.

I could start my research in comfort at home, for my first item lies in front of me now in my copy of the *Sunday Express* for May 8; reprieved from its dustbin doom on account of the sketch of a house which, believe it or not, was built upside down at the Buffalo Exhibition of 1901. Alas, it doesn't say why.

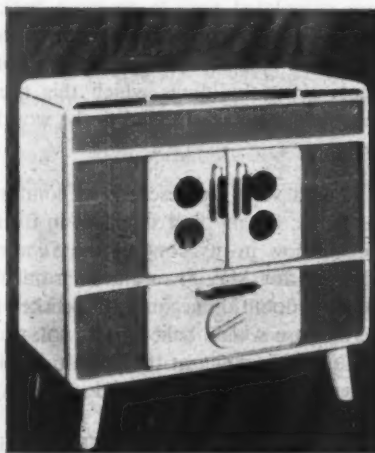
ASTRAGAL

FACETS IN ART EDUCATION



The LCC School of Arts and Crafts which, it is claimed, was the first in the world to realise the relationship of the designer to the machine, recently staged an exhibition of "Facets in Art Education," showing how the students are expressing themselves in art forms relating to industry. These examples of the students' work were on view at the exhibition. Above, chest of drawers in oak and brown oak with yew handles, by J. M. More. Left, packs for tea and cigarettes by J. Messenger; centre, small table with tray, designed and made by J. A. Cam, and coffee set by George Cook; bottom, silver coffee pot by A. D. Cairncross and silver beaker by E. U. T. Ellis. Below, prototype of open-close stove for solid fuel burning by K. Homes. These and other exhibits illustrated the variety of subjects studied at the School, where the standard of admission is normally that expected of a student who has spent two years as a full time day student, or the same length of time as an evening student, in a senior department of a school of art. The School attracts students from a wide area, including many from abroad, and it is said that its methods have influenced training systems in many parts of the world.

Photographs, LCC copyright reserved.



they fit a bed into a room which, if it wasn't true would be funny? Will their children play in dreary housing estates? Lack of space cuts short the depressing list, but would they honestly like to live the lives of these Londoners whom they economically squeeze so many per sq. ft.?

If the genius who boldly created that semi-circle at Hackney was as bold in advancing housing standards, or if the time spent on trick eaves details was spent persuading certain people that human economy is not measured in £ s. d.; in short, if these architects would forget formal conceptions and think in terms of human living, then criticisms of window panes and roof-pitches would not arise. As architects we have a grave responsibility to the society in which we live. With the biologist and sociologist we condition human environment; with the artist and sculptor we enrich human experience; with the engineer and technician we economise in structure and human effort; with the building operative and factory worker we make and we erect; and with our fellow men we work and we live. Or we should do.

It is objected that there is more to it than this. "We don't like them ourselves, but what can we do?" History shows us that architecture is great only when society is great, well worn though the cliché may be. Therefore it is up to the architect to discover in society his profession and himself, the forces that will make society great, and as an architect and a human being fight at all levels for all that which is progressive and against all that which is against progress. As a student this will mean a fight for more scholarships, so that the best of our youth become architects; as an architect, a fight against building cuts, cartels and trusts in materials, and restrictive land holding; as a human being it means a fight for peace, for without peace we cannot build.

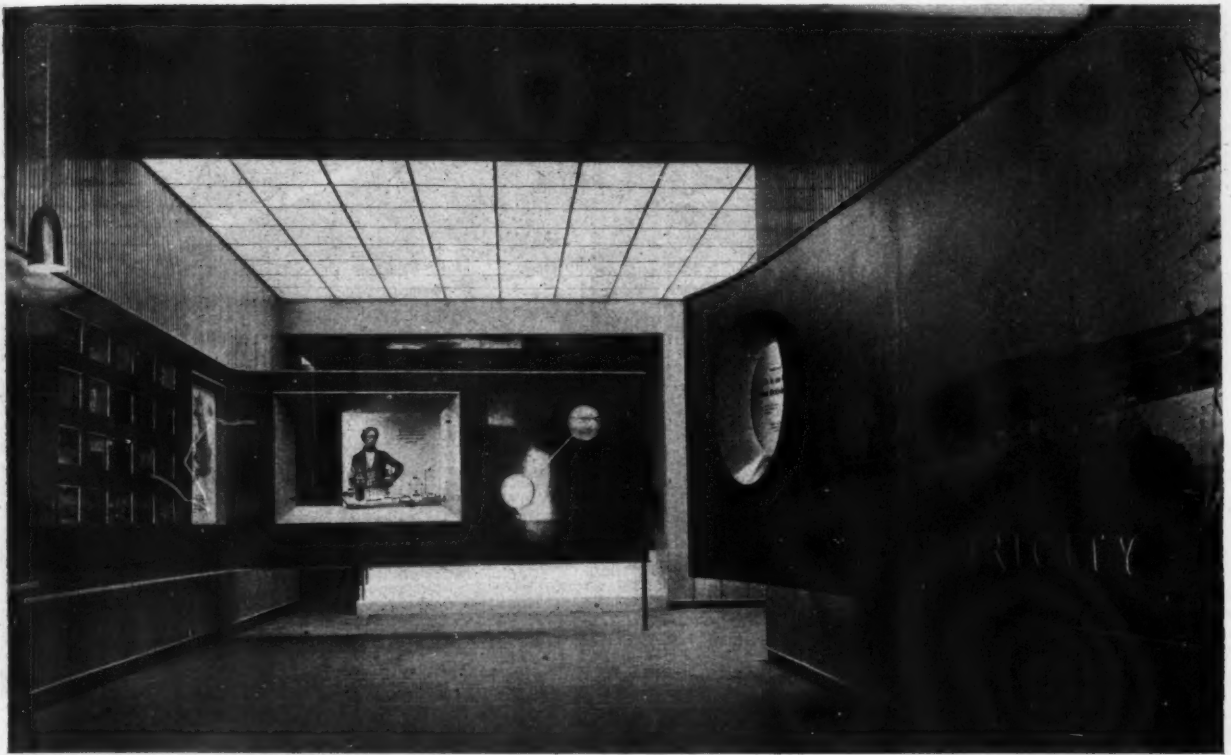
The people who live in LCC tenements are human beings. They are not ciphers in a housing category or creatures who give scale to an elevation. We architects owe our livelihoods to the daily activities of these people, and must regard them as fellow citizens with a right to the very best that human endeavour and initiative can offer. It may mean going without that new car, but when we do this, every man, woman and child will face life without the frustrations of mean, dull, bad building. In their lives architecture will be great.

Edward Banks, F.R.I.B.A.:

When the grime of London covers the "newness," the Department's Housing Schemes shown will then appear as the neo-Peabody blocks they really are! Such efforts have little architectural merit and even less "tourist-attraction" value.

A. H. Schofield, A.M.T.P.I.:

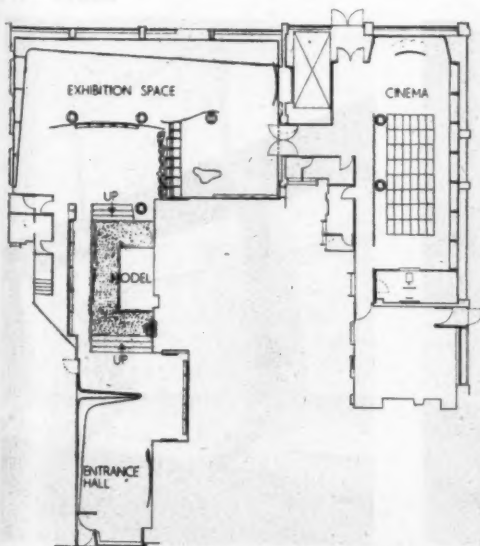
The cottage estates are less defensible than the flat dwellings. They are wrongly sited; in almost every case in the Green Belt. The Abercrombie Report is quoted in support of such placing, but both this and the subsequent official documents have been reluctant to substantiate the use of land in the Belt. There is, as with the flats, evidence of an overwhelming desire to lay hold of areas of land large enough to permit one unit to be repeated ten-thousandfold, rather than to fill in gaps and strengthen the open structure of present communities with carefully designed individual buildings. In the lay-outs there is an obsession with space for its own sake. Cottages are lined up to roads which are laid out to geometrical patterns on a drawing board, instead of being grouped away from the traffic-ways. Valuable agricultural land is swallowed up and, as with the Council's flat dwellings, there is no conformity to an over-riding plan for a Metropolitan environment.



Entrance hall to the exhibition.

EXHIBITION AT B.E.A. HOUSE

DESIGNED BY D. ATKINS AND A. C. BRAVEN

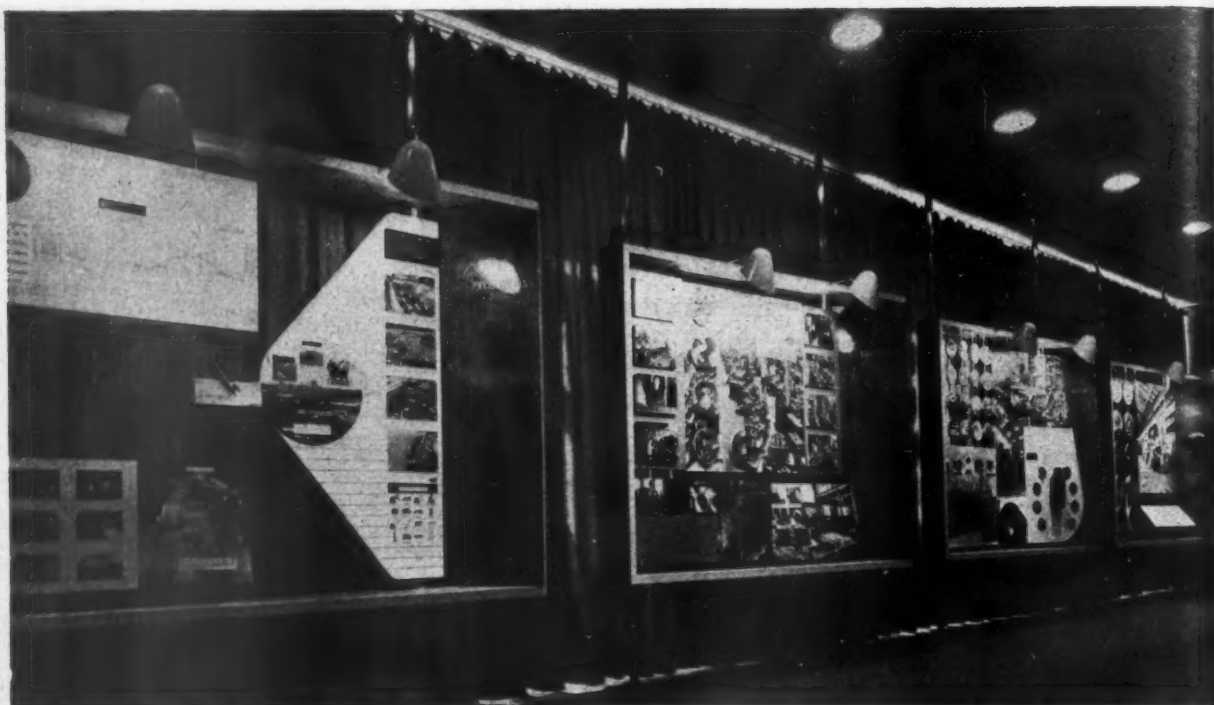


PLAN OF EXHIBITION (Scale: 1/4" = 1'0")

GENERAL.—The purpose of the Exhibition, which is permanent in character, and situated at B.E.A. headquarters in Great Portland Street, London, W.1., is to explain (a) the organization of British electricity; (b) the generation of bulk supplies of electricity; (c) the generating plant expansion programme; and (d) what it means to build a new power station.

PLANNING.—The layout was dictated by the shape of the site, which is narrow in width. It was impractical to provide exits and entrances from Great Portland Street since the general planning was conditioned by the script, which required continuity of exhibition units. For these reasons it was found necessary to provide the entrance from Great Portland Street and the exit in Bolsover

Street. The position of individual exhibition units was dictated by the conditions laid out in the script and with a view to providing circulation areas punctuated by pausing spots to permit inspection of the more intricate units. Particular attention was given to producing a feeling of spaciousness in the exhibition, while allowing it to be sufficiently broken up to form a number of separate entities suitably designed to create visual interest. This has been done by means of the choice of various forms of lighting, and the colour and texture of materials chosen for exhibition units, wall and ceiling surfaces. The fin unit facing the entrance in Great Portland Street was designed to permit passers-by to view only the preamble to the exhibition. Wherever possible



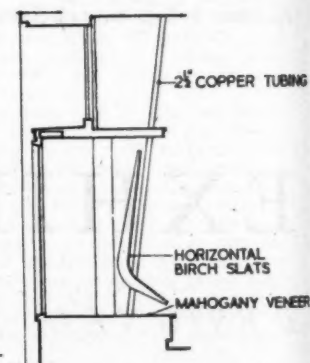
Display screens in the exhibition space.

complicated parts of the script, comprising detail copy-writing and numerous photographs, have been confined to definite framed shapes set against simple expanses of material of uniform texture and colour.

MATERIALS AND FINISHES.

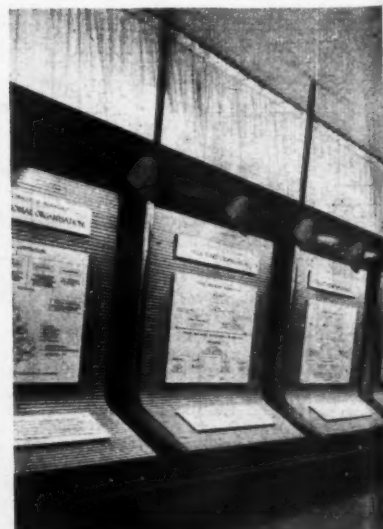
—The choice of materials has been restricted to birch, hardwood, mahogany, copper, acoustic tiles and curtain fabric. Birch and maho-

gany have been used in the form of slatting to assist in producing a feeling of spaciousness where display requirements were intricate. Copper, a commodity used throughout the electrical industry, has been used both constructionally and decoratively. Acoustic tiles, on account of their properties, have been used for the ceiling above a working model to which speakers are synchronized. Curtain fabric has been chosen as a back-



SECTION OF DISPLAY UNIT
[Scale: $\frac{1}{4}'' = 1'0''$]

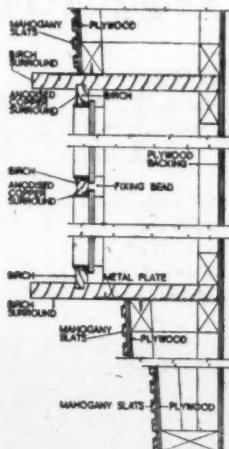
Left, screens in exhibition space; right, display units in the cinema.



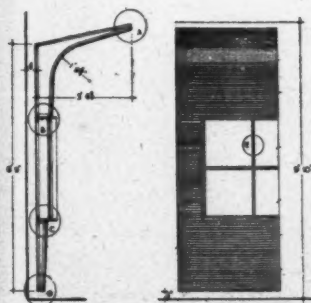
EXHIBITION AT B.E.A. HOUSE



View of the exhibition showing working model.



1/2 FULL SIZE DETAIL OF
DISPLAY UNIT



DETAIL OF DISPLAY UNIT
(Scale: 1/4"=1'0")

ground to display units on the wall.

LIGHTING.—All lighting has been considered with a view to emphasizing particular display units. Indirect lighting by a ply-

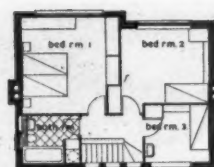
glass lay-light above the fin unit creates a focal point for viewers outside the building.

The main contractor was A. Davies & Co. (Shopfitters), Ltd. For list of sub-contractors, see page 532.

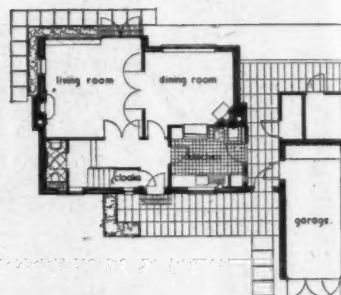
Display unit and exhibition screens.



BY D. ATKINS AND A. C. BRAVEN



FIRST FLOOR PLAN



GROUND FLOOR PLAN

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

Left: garden elevation. Bottom: left, the staircase from the first floor landing; right, bedroom No. 1.

HOUSE AT BELLINGDON

DESIGNED BY R. JELINEK-KARL

CONSTRUCTION.—This is traditional. The external brick walls are 11-in. cavity. The roof is covered with sand-faced hand-made tiles, laid on tongued and grooved boards. The casement sashes are made of wood.

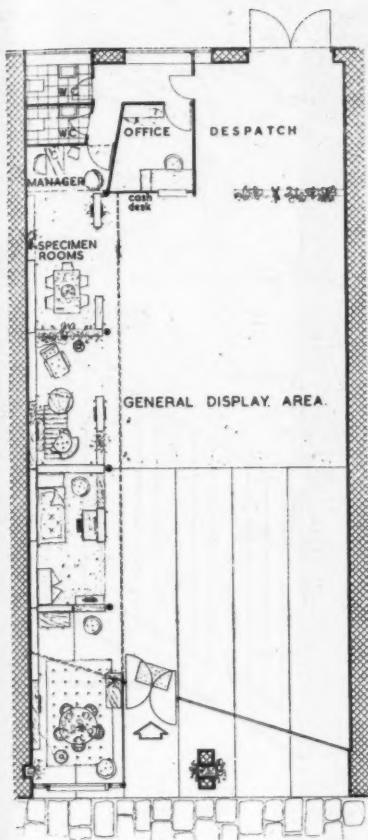
INTERNAL FINISH.—The floors are secret nailed, tongued and

grooved $2\frac{1}{2}$ by $1\frac{1}{2}$ boards. The stairs have teak treads and hemlock risers and strings. The ceilings are of plaster slabs rendered with hard-setting plaster. The walls and ceilings have a stippled finish. The walls of the kitchen, bathroom and w.c. are finished with cream tiles. The skirting in the dining room is constructed of

oak, and that in the living room is made of mahogany. The fireplaces are made of polished Ancaster stone.

SERVICES.—Hot water is supplied from an indirect system. The main contractors were W. Chapman and Sons Ltd. For list of sub-contractors, see page 532.





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



Above and below: the exterior of the shop.

SHOP AT WIMBLEDON

DESIGNED BY BRIAN PEAKE

GENERAL.—The original premises consisted of two separate shops, one of which was a fishmongers. The central pier and

reveals were built in white glazed bricks with bands of dark green. The problem was to design show-rooms for this firm who sell furni-

ture to a predominantly middle-class clientele, and to so design them as to be built at once under the existing very stringent licensing conditions.



CONSTRUCTION.—The principles behind the design were to make the whole of the interior form the display space.

EXTERNAL FINISHES.—The outside recessed lobby is formed with glazed screens made in hardwood, the original conception of using metal not being possible owing to the limited licence amount. The hardwood is wax polished and skirtings are black vitriolite. The glasscrete window is intended to stress the existence of the specimen rooms. Insufficient money was allowed on the licence to face the centre column or reveals and the only



The sales counter in the main shop.

SHOP AT MARYLEBONE

DESIGNED BY PATRICK GWYNNE

GENERAL.—For this gramophone shop the premises were altered to provide sales counters, record storage and sorting space for 10,000 or more records and at least 6 audition rooms with waiting space and space for record playing desk. The sales counters and record racks are of "saw-tooth" plan in order to increase the apparent width of a rather narrow (10 ft. nominal) shop space, as well as to make use of space along the wall between existing chimney breasts and piers. A small foyer space containing the open window-display is provided in the front portion of the shop. The waiting space is arranged to

contain a playing desk for playing customers' records to them through loudspeakers in the audition rooms.

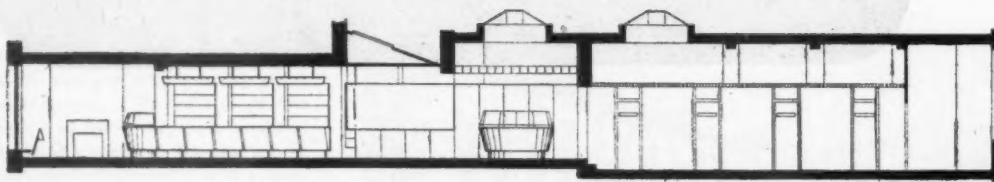
CONSTRUCTION AND FINISHES.—Apart from the removal of an accumulation of partitions little structural alteration was required. The audition rooms were treated as a new structural element within the existing building and are formed with their own independent roofs which are of thick sheeting on light wooden beams sloped to the back wall and exposed in order to help increase the visual size of each room, which is further emphasized by concealed strip lighting on the

rear walls. These rooms are built up of 2-in. thick strawboard sheets and wrapped around on all surfaces, including roof and floor, with fibreglass quilting.

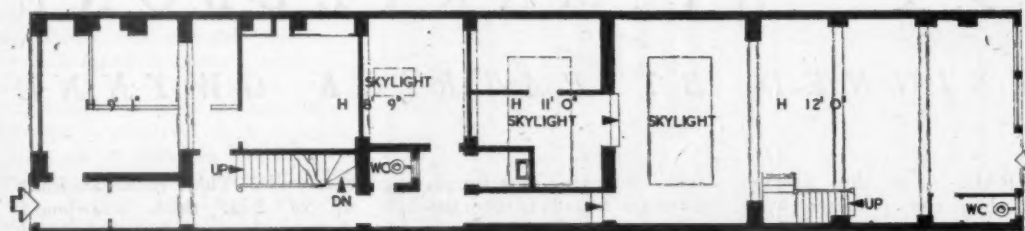
A false ceiling of jointed aluminium drums is hung over the waiting space and office in order to hide from normal view an untidy lantern-light and to distribute the strong overhead light. Aluminium strips 4 in. deep and at 4-in. intervals are similarly employed over the passage between the audition rooms. The main contractors were Messrs. Leslie Bilsby, Ltd. For list of sub-contractors see page 532.



Above, left the waiting room ;
right, one of the audition rooms.



SECTION AFTER ALTERATION



PLAN BEFORE ALTERATION



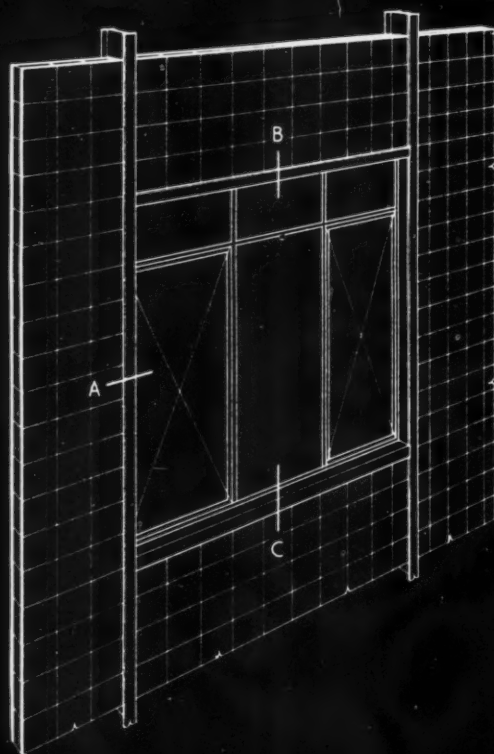
PLAN AFTER ALTERATION [Scale 1/8"=1'-0"]

S H O P A T M A R Y L E B O N E

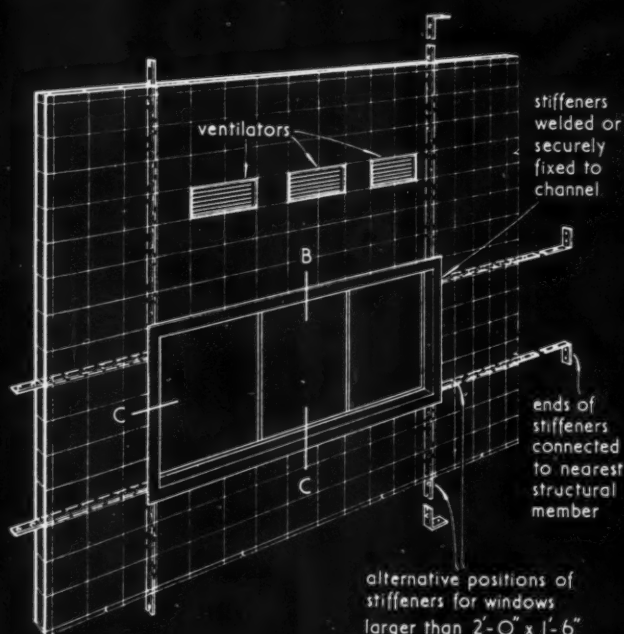
BUILDING BLOCKS | GLASS | APPLICATIONS

The Architects' Journal Library of Information Sheets 177. Editor: Cotterell Butler, A.R.I.B.A.

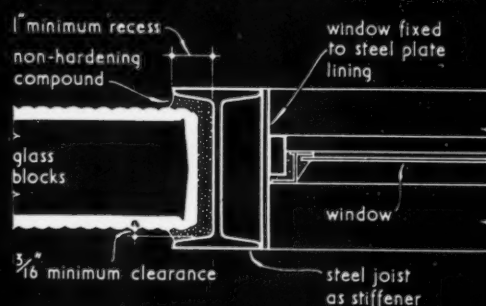
14.N9



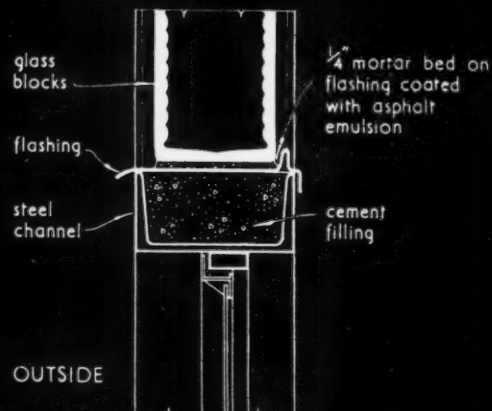
EXTERNAL WINDOW WITH OPENING LIGHTS.



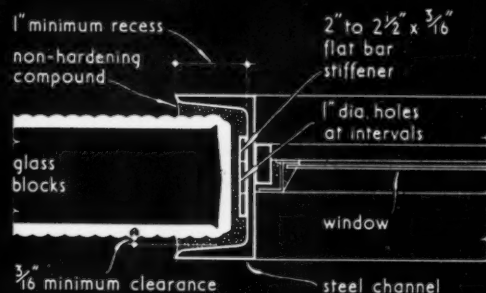
EXTERNAL WINDOW WITH FIXED LIGHTS.



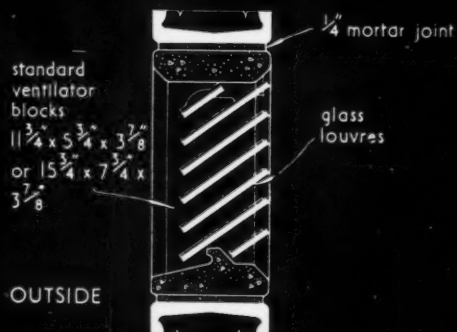
SECTION A.



SECTION B.



SECTION C.



SECTION THRO VENTILATOR.

WINDOWS FIXED IN 'INSULIGHT' HOLLOW GLASS BLOCK EXTERNAL PANELS.

Manufacturer: Pilkington Brothers Limited.

14.N9 WINDOWS FIXED IN · INSULIGHT · HOLLOW GLASS BLOCK EXTERNAL PANELS

This Sheet describes the fixing of windows in hollow glass block external panels. Sheet 14.N8 describes the fixing of doors in external panels and Sheet 14.N7 deals with the fixing of doors and windows in internal panels. Sheet 14.M1 gives standard shapes and sizes of blocks together with tables of dimensions of openings to accommodate panels up to 20 ft. high or 20 ft. wide, and area not more than 120 ft. super. Sheet 14.N1 describes the general construction of external panels using hollow glass blocks.

Construction

Windows with opening lights: It is essential that these be fixed to frames of rigid construction connected to the main structure so that shocks caused by slamming will not be transmitted to the glass blocks.

Windows with fixed lights: For windows up to 2 ft. by 1 ft. 6 in. no form of stiffener is necessary. For windows larger than this horizontal or vertical stiffeners, as shown, should be provided. These may be in the form of 2 in. to 2½ in. by ¼ in. rust-proofed flat bars with 1 in. diameter holes at intervals to form a key for the mortar. The bars should be rigidly fixed at their ends to the nearest part of the main structure.

Ventilators

These are supplied in two standard sizes to suit the standard 5½ in. and 7½ in. blocks. They are made two blocks wide by one block high and comprise a concrete frame into which are fitted glass louvres. The standard glass supplied is ⅜ in. rough cast but other types of glass can be supplied if required. These standard ventilators are permanently open and are not suitable for positions where control is necessary.

Panel Sizes

Insulight hollow glass blocks are non-loadbearing units, and although they will carry their own weight safely up to a reasonable height it is necessary because of wind pressure and other stresses to put intermediate support in panels where the height is more than 20 ft., the width more than 20 ft. or the area more than 120 ft. super. These dimensions may be exceeded for internal panels in certain cases.

Fixing

Treatment at head and jambs: In all panels, the head and sides must be built free of the main structure—except for the reinforcement—to prevent panels being subjected to strains due to settlement, building load,

or expansion. A ½ in. clearance should be provided which must be kept free of mortar spillings, and filled with a non-hardening compound. Where intermediate support or structural dividing members are introduced into panels the glass blocks must be insulated by clearance joints. In external panels, recesses into which the head and sides are built free of the main structure must be provided, except where the dimensions of the panel do not exceed 8 ft. high by 2 ft. wide, or 6 ft. high by 3 ft. wide. The recess should be 4½ in. wide by 1 in. deep, allowing ½ in. clearance and ½ in. cover with ⅜ in. play on either face; the ½ in. clearance should be filled with a non-hardening compound to provide a weatherproof joint. In internal panels, rebate fixing is recommended: in certain cases butt fixing can be used.

Treatment at sill: Before the bottom course is laid, the sill should be coated with an asphalt emulsion or similar material, and the blocks then bedded with mortar as specified below, so as to allow for slight movement without disrupting the mortar bed and thereby preserving the weather-resistance of the panel.

Reinforcement: Reinforcing strips should be built into every third to every fifth course dependent on the size and position of the panel. The ends should pass through the clearance joint and be secured to the main structure. Such a material as "Exmet" 2½ in. wide No. 20 gauge expanded metal has been found suitable for this purpose.

Bedding and pointing: As glass blocks are non-absorbent a fairly dry and fatty mortar should be used. A suitable mix is one part Portland cement, one part hydrated lime (preferably lime putty) and four parts of sand by volume. Clean builders' sand free from gravel (not sea sand) should be used. The face of the joints may be struck back and smoothed during erection. If coloured joints are required they may either be picked out in colour by painting after the mortar is thoroughly dry or raked out at the time of erection and later pointed with coloured cement. The pointing may be of any form or finish; a keyed joint formed with a curved jointing tool is the normal one.

Further Information

The Manufacturers maintain a Technical Research and Information Bureau which is available to answer questions and advise on technical problems dealing with this subject generally.

Compiled from information supplied by :

Pilkington Brothers Ltd.

Head Office : St. Helens, Lancashire.

Telephone : St. Helens 4001.

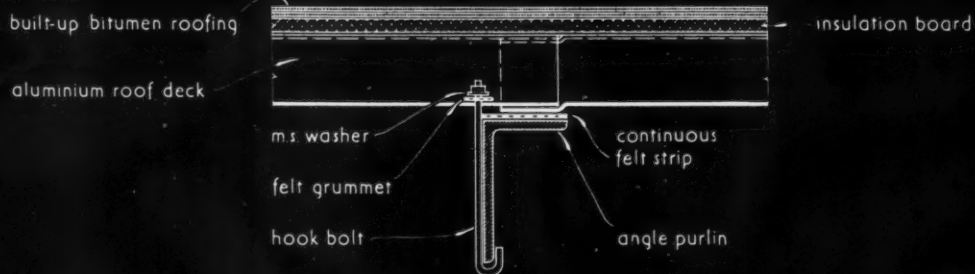
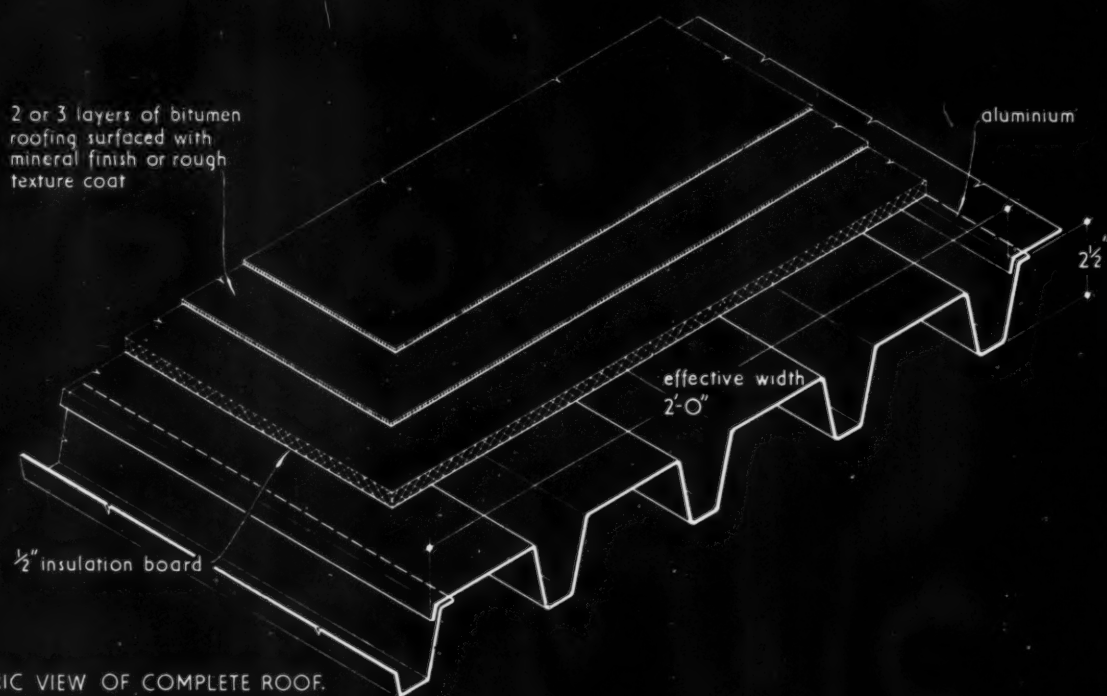
London Office : 63, Piccadilly, W.1.

Telephone : Regent 4281.

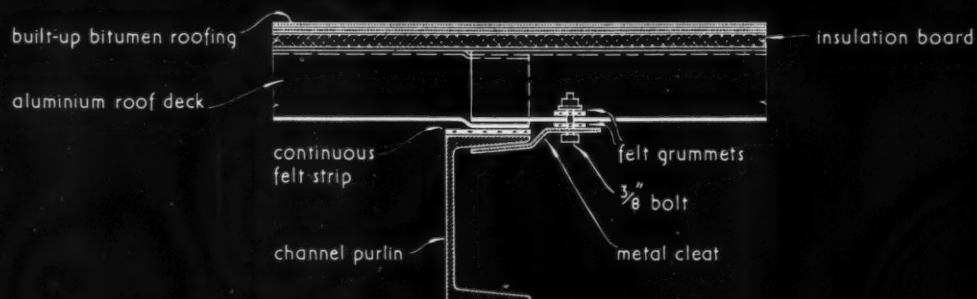
ROOFS | COMPOSITE

The Architects' Journal Library of Information Sheets 178. Editor: Cotterell Butler, A.R.I.B.A.

20.Z1



TO ANGLE PURLIN.



TO CHANNEL PURLIN.

ALTERNATIVE METHODS OF FIXING.

20.Z1 · BITUMETAL · ROOF DECK

This Sheet describes a composite roof built up from aluminium decking, insulation board and bitumen roofing which is adaptable to flat, pitched or vertical construction.

It consists of prefabricated aluminium alloy roof deck units, fixed direct to the roof purlins, to the top surface of which is bonded, with hot bitumen, a layer of $\frac{1}{2}$ in. insulation board. To this is bonded, with hot bitumen, two or three layers of bitumen roofing. On flat roofs the top is surfaced with stone chippings applied *in situ*. On sloping roofs the final layer of roofing is a cap sheet of mineral surfaced bitumen roofing.

The weight of the complete roof varies from 4 lb. to 8 lb./sq. ft. according to the specification of the bitumen roofing used, *i.e.*, 4 lb. for mineral surfaced bitumen roofing cap sheet and 8 lb. for top texture of stone chippings.

Aluminium Deck Units

Weight: Approximately 1 lb./sq. ft.

Size: The units have an effective covering width of 2 ft. and are supplied in required lengths to a maximum of 10 ft. 2 in. (*i.e.*, maximum spacings for purlins is 10 ft. centres).

End overlap: One end of each unit is joggled across its full width to provide an overlap of 2 in.

Side overlap: Flanges at the sides of adjacent units enable them to nest one in the other to form a continuous roof section.

Closure pieces: Aluminium alloy closure pieces can be used at eaves, ridges and verges and are fixed to the decking by means of hollow aluminium rivets.

Safe Load-Span Table

| Span | Maximum safe load (lb./sq.ft.) | For deflection $1/250$ span (lb./sq.ft.) |
|--------------|--------------------------------|--|
| 4 ft. 0 in. | 256 | 320 |
| 4 ft. 6 in. | 204 | 216 |
| 5 ft. 0 in. | 164 | 158 |
| 5 ft. 6 in. | 136 | 118 |
| 6 ft. 0 in. | 114 | 92 |
| 6 ft. 6 in. | 98 | 72 |
| 7 ft. 0 in. | 84 | 58 |
| 7 ft. 6 in. | 73 | 47 |
| 8 ft. 0 in. | 62 | 39 |
| 8 ft. 6 in. | 57 | 32 |
| 9 ft. 0 in. | 51 | 27 |
| 9 ft. 6 in. | 45 | 23 |
| 10 ft. 0 in. | 41 | 20 |

Loads shown = Dead plus live (*i.e.*, deduct weight of roof to ascertain maximum live loads permissible).

Thermal Transmittance

The following table is extracted from the National Physical Laboratory's Report, reference H.3370, 8th December, 1947, on "The Thermal Transmittance of a Roofing Unit 'Bitumetal'."

| Inner air temperature | | Outer air temperature | | Thermal transmittance | |
|-----------------------|-----|-----------------------|-----|--|---|
| °C. | °F. | °C. | °F. | Gram. cal. per sq. cm. per second for 1°C. difference in temperature between the air on either side. | B.Th.U. per sq. ft. per hour for 1°F. difference in temperature between the air on either side. |
| 34 | 93 | 19 | 66 | 0.000045 | 0.33 |

Note.—The thermal transmittance of a test specimen is the quantity of heat flowing in unit time per unit area, divided by the temperature difference between the air on either side. (British Standards Institution Specification No. 874—1939.)

Compiled from information supplied by:

William Briggs & Sons, Ltd.

Head Office: East Camperdown Street, Dundee.

Telephone: Dundee 82211 (10 lines).

Works: Dundee, Arbroath, and Ladybank (Fife).

Offices—

London: Vauxhall Grove, S.W.8.

Telephone: Reliance 2214-5 and 1451-2.

Aberdeen: Bedford Road, Kittybrewster.

Telephone: 591.

Edinburgh: Murrayfield Station, L.M.S. Siding.

Telephone: 61233.

Glasgow: 200, Old Dumbarton Road, C.3.

Telephone: Western 6801-2.

Leicester: L.N.E.R. Station, Belgrave Road.

Telephone: 60306.

Liverpool: Kirkby Trading Estate, Charley Wood Road.

Telephone: Simonswood 3266-7.

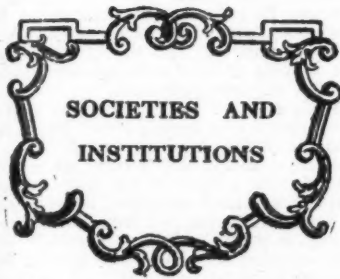
Norwich: Trowse Millgate.

Telephone: 26863.

Copyright Reserved.

The Architects' Journal Library of Information Sheets.

Editor: Cotterell Butler, A.R.I.B.A.



Speeches and lectures delivered before societies as well as reports of their activities, are dealt with under this title, which includes professional societies, trade associations and government departments. To save space they are represented by their initials—see front cover. Lectures cannot usually be reported in full, but the extracts given are in the speaker's own words.

TCPA

C. W. Gibson

May 26. The Planning Centre, 28, King Street, W.C.2. Extracts from address on LONDON'S HOUSING POLICY, given to the Town and Country Planning Association. The chairman was F. W. Dalley.

C. W. Gibson : The London County Council's policy can be stated quite simply: it is, to build 100,000 new homes for the people as quickly as possible, to build good homes, in well-planned estates, which fit snugly in with the neighbourhood unit principle of the London Plan, to pull down all the slums as soon as possible and to rebuild in their place good modern homes, to press on vigorously with this task as fast as the supply of labour and materials will permit, until every London family has a home of its own with its own front door.

To get a picture of London's housing needs a few figures must be given. It has been estimated that the number of dwellings required to complete the clearance of areas included in the London County Council's 1937 slum clearance programme and areas enlarged and added during the progress of that scheme is 35,000, which should be reduced to 31,000 to allow for the houses in these areas which the enemy cleared by dropping bombs on them. 14,500 dwellings are required to re-house the 43,000 families who were estimated to be living in overcrowded conditions in 1939, and there is not any doubt at all that the situation so far as overcrowding is concerned has deteriorated very considerably since then. 80,000 dwellings were destroyed by enemy action and in those 80,000 dwellings there lived over 100,000 families. Together, all these factors produce a need for at least 145,000 dwellings. But it has never been assumed that the surveys made up to 1937 completed the slum clearance problem, and later experience shows quite clearly, especially in the East

End, that there is much more to be done. In addition, owing to the passage of time, and war-time deterioration, a very large amount of previously border-line property will now have ripened, as they say, into the unfit category. For this reason, I think the figure of 145,000 dwellings needed should be raised, on the calculation I made a moment ago, to at least 150,000.

The replanning of London's road system in general accordance with the London Plan, the provision of open spaces where none, or a few small ones, now exist, will mean inevitably the pulling down of thousands of existing dwellings and their rebuilding on other sites inside London, or their being rebuilt outside the County. I estimate that all this will involve the building of at least 200,000 new houses and flats in or near London. This is a colossal task which I do not believe can be carried out by any other agency than the Housing Committees of the London County Council and the Metropolitan Borough Councils. I do not believe private enterprise will begin to tackle it, because there is very little profit in it, if any.

PRE-WAR PLANS

To carry out this huge programme at a speed which was requisite to the needs of London it became necessary to make one department responsible for all housing work, and a Director of Housing and Valuer was appointed to take charge of the new organization. In order to make a quick start it was decided to make use of plans and types on which we were working before the war, but to put in improved kitchens and other internal fittings and, where possible, to put lifts in the 5-storey blocks of flats. It was also decided—and this is important in view of one or two things I have read recently in the architectural journals—to reduce the amount of paved forecourts, to put in tenants' gardens, flower-beds, bushes, trees and lawns. It has also been agreed to put into the pre-war types on which we were working, as far as possible, heated drying-rooms, laundries and club rooms for tenants on the estates; and, of course, they are all in the post-war types. The department was instructed to prepare new post-war lay-outs broadly in line with the London Plan, and new types of flats and cottages which were to be larger than the pre-war types.

In order to get plans more speedily prepared, and to get a wide variation of architectural treatment in our blocks of flats, as well as to get the benefit of other brains and ideas, we have employed already no less than 52 architects in private practice, who are engaged on 78 different schemes of building. I should like to take this opportunity to say publicly a word of praise for the very fine work which has been done both by the private architects and by the architects in the Housing Department of the London County Council.

It is quite unfair for anybody, whoever they are, to build up a criticism of what is being done by the London housing authorities on the assumption that it is just a piece of blind, haphazard building without any plan behind it at all. We are all of us engaged in rebuilding—not only rebuilding houses but rebuilding our schools and health centres and so on. There is a big master design and it is being kept to, and will show itself in the course of a few years. It could not be otherwise. Therefore I say the master plan is being worked to with enthusiasm and energy. All our effort has already resulted in a great number of houses for the people of London to live in—the ordinary people of London, I mean, people like me. I do not want to give the breakdown of the total figures, but at the end of March this year a total of 140,889 homes had been provided in one way and another by the LCC and borough councils since the end of the war,

plus those families housed in accommodation which I refuse to include in the claim for proper housing—temporary huts and Service camps. I have often said that the sooner we can get them out of the temporary huts and Service camps the better. There are 2,829 families living in that kind of accommodation. But apart from that, all the housing authorities in London have provided since the end of the war 140,889 homes, and I claim that there is no city in the world which has done so much housing work for its people since the end of the war. The people owe a debt of thanks, not only to the housing authorities, but to the builders, both operatives and contractors, who have made this possible. I say this, further, and with some feeling, having passed through two elections, that those people who decry this effort are no friends of decent housing and a great people, or of London.

But in spite of this, there is no excuse for complacency. There is still a great deal to be done and it will stretch the energies and determination of every housing committee for several years to come. There are not only slums to be pulled down and rebuilt, many thousands of young families to be housed, but also a very large number of single and lone people, both young and old, who need comfortable homes. Many educational and social buildings have to be erected, if Londoners are to have the social life and the good living conditions to which they are entitled. The completion of new homes for Londoners must be speeded up. Building costs must be reduced, or we shall kill the thing because we shall get into a financial bog. Land costs ought to be drastically cut. I admit that I have a strong personal feeling on these matters; I think that land costs in London are outrageous and have no justification either socially or economically, but the law being as it is we have to pay them at the moment. Building materials must be made more abundant. The building industry must make itself more efficient. It should use every mechanical tool and machine that it can get hold of, and it should bring the building operative much more fully into consultation on the site through joint production committees. There will be difficulties, but they must be surmounted. They should be a spur to greater initiative and inventiveness, not something to be despondent over. This is the policy which the Labour Party at County Hall is following.

THE LCC AND THE LONDON PLAN

Let me make it clear again that in all this activity the LCC will keep to the broad principles of the London Plan. This Plan was never intended to be regarded as a detailed scheme of operations. If you will forgive me for saying so, I speak with some knowledge because I was a member of the Committee which started the first inquiries, and I was a Vice-Chairman of the Town Planning Committee. (I am only saying this to cover myself.) This Plan was never intended to be regarded as a detailed scheme of operations. It is now being worked out in detail as a gigantic development plan. It may be that those interested will be able to read about it in a few days' time in a document published by the LCC. But it is recognized that there must be considerable flexibility even in this detailed development plan. It must be remembered that London is a living city and cannot be forced, and will not be forced, into a planning strait-jacket.

In no aspect of London's housing policy has there been more uninformed criticism than on the development by the LCC of cottage estates outside the County. I do not object, and I expect criticism and opposition from people in whose districts we go and build, but I do not expect the kind of criticism and opposition that we have had from some quarters, from people who should

know better because they are more able to get at the facts. It has been recognized for many years that London could only solve its housing shortage by building estates outside the County. Parliament gave it powers to do so, and several out-county estates were developed, or partly developed, before the war. It was always envisaged that this would continue in the post-war period, and arrangements were made to secure sites for this purpose.

The London Plan itself envisages that about half a million people would be decanted out of London—"decanted" is a horrible word but I do not know another word to use—but the LCC Housing Committee has never thought of itself providing for more than approximately one-quarter of this number in its out-county estates, which are planned to be complete communities, with all social amenities and with local employment for the people. The London Plan provides for this in paragraph 131. The Greater London Plan Report says in paragraph 52, "Another exception is found in the necessity for overcrowded inner London to start decentralizing simultaneously with rebuilding immediately on the cessation of hostilities. For this first step sites must be found which satisfy two apparently contradictory requirements: They must be near enough to their former places of work for an easy journey, and they must have present or future possibilities of work nearby. . . . On the face of it, these quasi satellites offend against all notions of planned decentralization: they are, in the first instance, residential and they are too close in. Nevertheless, they are necessary features of the short term policy of immediate post-war housing requirements: the maximum figure of 125,000 has been allotted for the purpose."

We (that is, the London County Council Housing Committee) have, therefore, the backing and support of the modern high priests of town planning for our programme of 12 large cottage estates outside the County, as part of the great effort to provide Londoners with good homes in the quickest possible period of time.

THE GREEN BELT

All the out-county estates which we have secured have been secured with the authority of the Minister of Town and Country Planning and the Minister of Health, after a full public inquiry, and it is pertinent, I think, to note that all the out-county estates put together occupy less than one per cent. of the total acreage of the so-called Abercrombie green belt. I say Abercrombie because that is the only name by which people seem to know it in these days. The suggestion that the London County Council is closing up the green belt with masses of ugly houses is not true. It never was true, and anybody who took the trouble to inquire could see that it was not true. It is the tragic need of Londoners for homes which has driven us to it. We throw away rateable values every time we put a family out of London; very often we send out our most adventurous and energetic citizens, but we have to do it because unless we can build outside the County at the rate we are building we shall never be able to provide, in any reasonable time, enough new homes for the people of London to live in, and, what is equally important, get into the position where we can begin to do in a big way what we are doing in the East End of London on a large scale, the replanning of London.

It is true to say that whenever the LCC starts to develop an out-county estate in these days it generally has to provide two acres for other purposes to every one-acre on which it builds houses. So that we are spending an enormous sum of London's money in building homes, it is true, but we are also spending a very large sum in adding to the green belt, to the open space, to the school and other facilities in those

areas outside our County. It can therefore, I suggest, be truly said that the LCC has, in its post-war housing work, done its best to keep in line with modern conceptions and to avoid building purely dormitory suburbs.

American Institute of Architects

Frank Lloyd Wright

Extracts from talk given at Convention held at Houston, Texas, in March, when Frank Lloyd Wright received the Gold Medal of the AIA.

Frank Lloyd Wright:

No man climbs so high or sinks so low that he is not eager to receive the good will and admiration of his fellowmen. He may be reprehensible in many ways, he may seem to care nothing about it, he may hitch his wagon to his star and however he may be circumstanced or whatever his ideals or his actions, he never loses the desire for the approbation of his kind. So I feel humble and grateful. I don't think humility is a very becoming state for me.

I don't know what change it is going to effect upon my course in the future. It is bound to have an effect. I am not going to be the same man when I walk out of here that I was when I came in. Because, by this little token in my pocket, it seems to me that a battle has been won.

Well, anyway, it is very unbecoming on an occasion like this to boast. But I do want to say something that may account in a measure for the fact that I have not been a member of your professional body, that I have consistently maintained an amateur status.

Long ago, way back in the days of Oak Park, I set up a standard of payment for my services of ten per cent. I have consistently maintained it. I have always felt a competition for the services of an architect, who to me is a great creative artist, was a sacrilege, a shame, and pointed to history to prove that nothing good ever came of it. And I think nothing good ever will come of it. Also, I think that to make sketches for anybody for nothing, to tender your services, to hawk yourself on the curb in any circumstances is reprehensible.

I know the ideals of this Institute very well. I took them to heart years ago, and believe me, with this Medal in my pocket, I can assert truthfully that never have I sacrificed one iota of those ideals in any connection whatsoever.

I have spent a good many years of my life hoping somebody would come and give me something to do. And every job I ever had hit me out of the blue on the back of the head. Now, that's true. So, this Gold Medal—let's forget all about design, let's forget all about contributions to construction and all the rest of it—I feel I can stick it in my pocket and walk away with it just because I sat there waiting for a job.

Now, of course, architecture is in the gutter. It is! I have heard myself referred to as a great architect. I have heard myself referred to as the greatest living architect. I have heard myself referred to as the greatest architect who ever lived. Wouldn't you think that ought to move one? Well, it doesn't. Because in the first place, they don't know. In the next place, no architect, or in the sense that a man now has to be an architect, ever lived.

What must an architect be if he is going to be really worthwhile, if he is really going to be true to his profession? He must be a

creator. He must perceive beyond the present. He must stay pretty far ahead. Well, let's not say that because we can all do that. But he must see into the life of things if he is going to build anything worth building in this day and generation.

Well, now, we are prosecuting a cold war with people who declare with a fanatic faith, that is pitiful, in the "have-nots." We declare a faith in the "haves" when we act. We declare a faith in the union of something beneficial to both the "haves" and the "have-nots" when we talk. When are we going to practise what we preach? When are we going to build for democracy? When are we going to understand the significance of the thing ourselves and live up to it? When are we going to be willing to sit and wait for success? When are we going to be willing to take the great desire for the deed?

We have got the kind of buildings we deserve. We have got the kind of cities that are coming to us. This capitalist city of which Houston is an example. We did it. It came to us because we are what we are, and don't forget it. We put ourselves on a hill here, in a highlight, we talk about the highest standard of living the world has ever seen, we profess all these things and we don't deliver.

Why we don't isn't the fault of institutions. It is not the fault of any class. It is not the fault of the big boys that make the money and make the blunders and shove us over the brink, like this out here that I spoke of a minute ago. How would they learn better? How is the architect who built the building going to know any better? How are they going to find out?

They can only find out by your disapproval. They can only find out by your telling the truth, first to yourselves and then out loud, wherever you can get a chance to tell it.

The form printed below is to assist readers requiring up-to-date information on building products and services. Complete and post it to The Architects' Journal, 9, 11 and 13, Queen Anne's Gate, S.W.1, and the advertisers listed will be asked to supply information direct.

ENQUIRY FORM

I am interested in the following advertisements appearing in this issue of "The Architects' Journal."

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

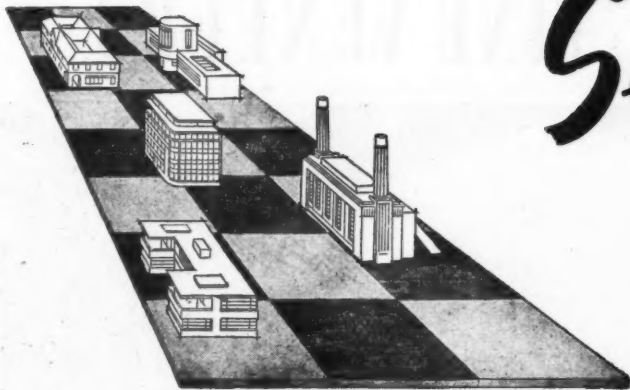
Please ask manufacturers to send further particulars to:—

NAME.....

ADDRESS.....

..... A.J.9.6.49

BLOCK LETTERS, Please



Semastec

DECORATIVE TILES

are now accepted as a thoroughly practicable form of plastic floor covering, sympathetic to the tread and possessing excellent design possibilities.

A large part of their success has been due to the careful and skilful installation which is undertaken by approved contractors of the highest standing and long experience in the contracting world.

APPROVED CONTRACTORS

- J. A. Hewetson & Co. Ltd., Dansom Lane, Hull
- Hollis Bros. Ltd., Craven Hall, Hull
- Hollis Bros. Ltd., 150 Holborn, London, E.C.1
- Horsley Smith & Co. (Hayes) Ltd., Dawley Road, Hayes, Middlesex
- Pilkington's Asphalte Co. Ltd., 68 Northiam Street, Hackney, E.8
- Semtex Ltd., 185, 187, 189 Finchley Road, London, N.W.3
- The Alba Flooring Co. Ltd., West Arthurlie Works, Lochlibo Road, Barrhead, Glasgow
- The Limmer & Trinidad Lake Asphalt Co. Ltd., Steel House, Tothill Street, Westminster, S.W.1
- The Penmaenmawr & Trinidad Lake Asphalt Co. Ltd., National Bank Buildings, Fenwick St., Liverpool, 2
- The Western Trinidad Lake Asphalt Co. Ltd., Asphalt House, St. Mary Street, Cardiff

Semastec DECORATIVE TILES ARE A PRODUCT OF SEMTEX LTD.
a Dunlop Company

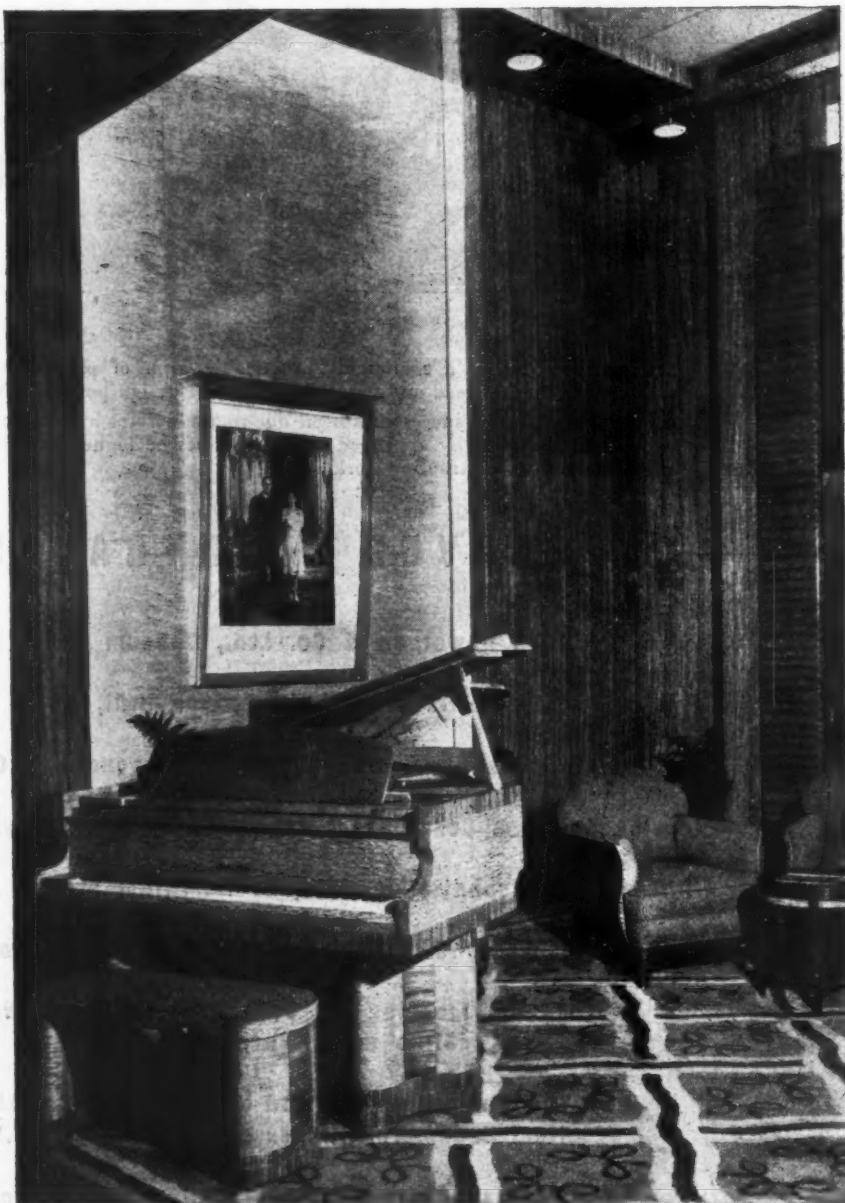
The Beauty of FINE VENEERS



Much of the Hardwood, Veneer and Panels used in the s.s. CARONIA was supplied by William Mallinson & Sons Ltd.

Among the veneers which we were privileged to supply is the Quilted Maple and Zebrano used on the Challen piano in the first class main lounge, which our photograph shows against a background of beautiful veneered panelling.

You are invited to visit our showrooms, and to make the fullest use of our unrivalled experience in the selection and use of hardwoods, veneers and veneered panels.



WILLIAM MALLINSON & SONS LTD

TIMBER AND VENEER MERCHANTS AND PANEL MANUFACTURERS

130-150 HACKNEY ROAD • LONDON • E2

TELEPHONES
SHOREDITCH 8888-8811

TELEGRAMS & CABLES
"ALMONER" LONDON

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

TECHNICAL SECTION

A digest of current information prepared by independent specialists; printed on one side of the paper only, to allow readers to cut out the items for filing and paste them up in classified order. Headings below.

INFORMATION CENTRE

1 SOCIOLOGY. 2 PLANNING: General. 3 PLANNING: Regional and National. 4 PLANNING: Urban and Rural. 5 PLANNING: Public Utilities. 6 PLANNING: Social and Recreational. 7 PRACTICE. 8 SURVEYING, SPECIFICATION. 9 DESIGN: General. 10 DESIGN: Building Types. 11 MATERIALS: General. 12 MATERIALS: Metal. 13 MATERIALS: Timber. 14 MATERIALS: Concrete. 15 MATERIALS: Applied Finishes, Treatments. 16 MATERIALS: Miscellaneous. 17 CONSTRUCTION: General. 18 CONSTRUCTION: Theory. 19 CONSTRUCTION: Details. 20 CONSTRUCTION: Complete Structures. 21 CONSTRUCTION: Miscellaneous. 22 SOUND INSULATION-ACOUSTICS. 23 HEATING, VENTILATION. 24 LIGHTING. 25 WATER SUPPLY, SANITATION. 26 SERVICES, EQUIPMENT: Miscellaneous. 27 FURNITURE, FITTINGS. 28 MISCELLANEOUS.

1.11 sociology COMMUNITY PLANNING

Can Communities be Planned? PEP. (Political and Economic Planning. Broad-sheet No. 296, March 28, 1949. 2s.)

Important and useful clarification and analysis of social problems and influences representing essentials of good communities. References to new towns planning.

In an introduction a short historical outline is given of the characteristics of community life, and how it gradually broke up, particularly with the development of the industrial revolution. The question is asked whether there is a real need to revive the spirit of local communities, and whether planners, in trying to do so, are not moving against the tide of people's wishes, since with modern communications there does not seem to be a real need for people to focus their interests on a particular locality when they can pick their friends and spread their occupational, political and cultural concerns over widely scattered areas. In answer it is stated, however, that there is a definite need for local communities even if it is not easy to measure the effect of a lack of community activity.

In order to be able to balance the advantages and disadvantages of local life it becomes necessary to know what is really meant by a good community. Planners today study the best size for a town, the provision of neighbourhood units, the contributions that can be made by community associations and many other problems of social planning. But there are no standards by which to judge whether a new place is good or not. It is only possible to particularize some of the social influences which help to give it value, and these are increasingly to be found in people's spare-time or leisure activities, the quality of which largely

gives a community its tone. It is especially the encouragement given by clubs and other group activities which assist in the constructive use of leisure.

The second part of the broadsheet, which discusses the social problems to be tackled in new communities, is of particular interest to planners in relation to new towns planning. It stresses the value of preserving common employment which would probably encourage a community feeling. The disadvantages that may result from tenant selection from one employment or one industry should be balanced by good economic planning. Other aspects investigated include the problems of family relationship, and of mixed development, and there is a section on communal activities and institutions analysing the contributions planners can make to assist community life.

In conclusion attention is drawn to the two dangers inherent in trying to plan communities, namely, to forget that local communities are not the only social relationship open to people in a modern society, and to exaggerate the importance, in a local community, of organized activities.

4.49 planning: urban and rural PLAN FOR SALISBURY

Newer Sarum: A Plan for Salisbury. T. Sharp. (Architectural Press for the Salisbury City Council. 1949. 10s.)

Outline planning proposals for Salisbury. Development limits. Communications. Central area planning. Neighbourhoods and open spaces. Landscape design. Summary of recommendations. Fully illustrated. Index.

In an introduction Dr. Sharp points out that his planning proposals concern a city which is essentially a country town. Its distinction lies in the way it has kept not merely an odd survival but many survivals of the small buildings of earlier periods, as well as churches and great houses. To him it seems to be the most mediæval of all English cities and is one of the first to be built, in the thirteenth century, to a deliberate plan. This genuinely mediæval plan has remained almost unchanged, and today Salisbury represents "the mixture, even the untidy mixture, which history itself is." Now, after 700 years, Salisbury needs replanning, but it is a "singularly difficult city to doctor. It offers the planner no help. In all the intensely built-up inner city there are no slack places where he can slip his relief roads through. There are no free but hitherto obscured sites where he can put up his new public buildings. The valley floodlands are impassable, the sides of the ridges too steep for roads. Yet somehow the city must overtake the times which have overtaken it."

With these facts and difficulties in mind the author sets out to analyse the city's functions and social structure before drawing up detailed planning proposals. He discusses the standard of living accommodation for an estimated 1947 population of 30,760, gives an indication of the employment structure in Salisbury based on 1939 figures, and draws attention to the city's importance as a market, cultural and tourist centre. This analysis leads to the conclusion that Salisbury's main function, that of a market town for the surrounding district, should be con-

tinued. Also that its importance as a tourist centre should be enhanced by preserving and extending its attractions. The town is primarily a service and not a production centre, and it is suggested that the acquisition of certain new industries is desirable in order to provide for a better balance in employment structure. These industries should, however, be of a size and kind that are in proportion to the size and character of the town. The development of industrial undertakings is bound up with the question of the future size of Salisbury, and Dr. Sharp proposes that the city's population should not be allowed to grow beyond 35,000 in the next few decades, since it would be entirely mistaken to plan for large-scale industrialization which would ruin the town's function as a tourist centre. Generally speaking, the future Salisbury should be much like the Salisbury of today, with its living conditions much improved and its historical character maintained.

Actual planning recommendations are chiefly directed towards solving Salisbury's traffic problems, and include the construction of external by-passes to the east and the south, new radial links into the city, the provision of a complete circuit of new roads just outside the city centre to act as a central by-pass, and the construction of two new cross-town roads. The present station approach should be improved and a new bus station constructed. Parking problems can only be solved by providing storage on three floors in two buildings where a method of mechanical parking can be operated, in addition to open plots.

Other planning proposals cover the erection of new public and semi-public buildings in the central area, the development of a riverside park, the division of the city into neighbourhoods, the establishment of additional public open space and the development of a new small factory area. There are also notes on landscaping and on the problems of design in three dimensions, with particular reference to a satisfactory visual relationship of new to old buildings.

The report is illustrated by maps and diagrams and by a selection of particularly beautiful photographs.

7.22 practice DRAWING OFFICE ORGANIZATION

Report on Drawing Office Organization. (O. W. Roskill & Co. (Reports), Ltd., 1948. 30s.)

Layout, equipment, general organization, recruitment and training of staff. Short bibliography.

This somewhat excessively priced mimeographed document forms a companion to the *Report on Filing and Indexing* by the same authors (see 31.10.47: No. 2799). It is mainly devoted to office practice in the engineering industries and contains little information of value to architects. The importance of up-to-date technical data being available to the drawing office staff is stressed, and that such material should be efficiently filed and indexed. There is a note on the organization of public offices reprinting suggestions issued by ABT for the typical organization of a local authority architect's office. Layout, including lighting, are only briefly mentioned, followed by some notes on drawing boards and instruments, on the reproduction of drawings enumerating the most common types of contact prints, and on standard layout and presentation of drawings. A list of principal manufacturers and suppliers of drawing office equipment and a short bibliography conclude the report.

15.56 materials: applied finishes and treatments JOINTLESS FLOORING

Jointless Flooring in Germany. BIOS Final Report No. 1824. (HMSO. 1949. 12s.)

Detailed accounts of investigations into the



WE MAY NOT BE SUPERMEN, [BUT . .]

we do maintain that service and the experience of 75 years in all parts of the world constitute our strong suit.

Built-up Bituminous Roofings.
Asphalte for Roofs and Balconies.
Asphalte Tanking and Dampcourses.
Coloured Asphalte and Pitch Mastic for Domestic and Industrial Floors.
Asphalte and Tarmacadam for Roads, Footpaths, Car parks and Playgrounds.

THE NEUCHATEL ASPHALTE CO. LTD.

58 Victoria Street, London, S.W.1

Telephone: Victoria 9982

ASPHALTE BY

NEUCHATEL

GLASGOW

EDINBURGH

NEWCASTLE

MANCHESTER

BIRMINGHAM

PORTSMOUTH

PLYMOUTH

FROME

MORE GAS FOR INDUSTRY

more need for

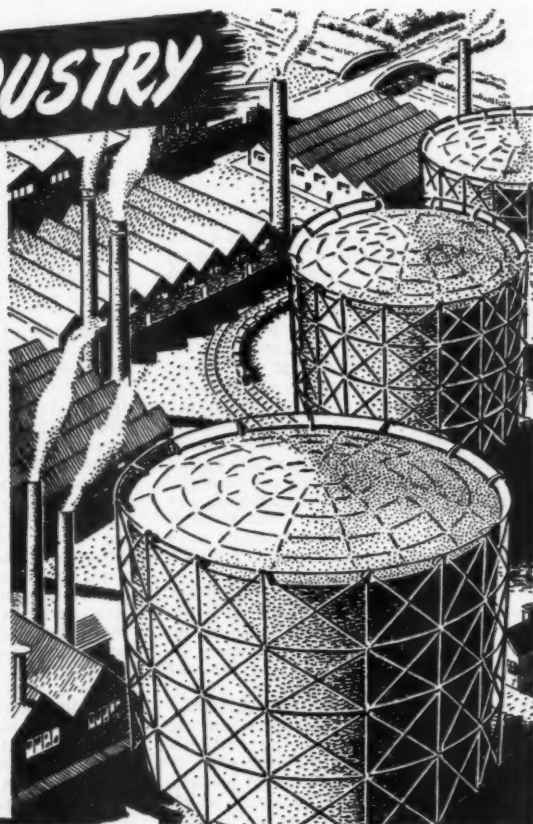
RAWLPLUG

FIXING DEVICES

Rising output of gas has opened the way to further expansion in many industries. New plant and machines are being installed to meet the growing demand and Rawlplug Fixing Devices are playing a great part in speeding the work. With Rawlbolts, for example, machines are being bolted firmly into position without grouting, waiting for cement to dry, or other delays. For screw fixings, Rawlplugs make firm fixtures in any material, quickly and cheaply. Other devices include Toggle Bolts for thin and hollow materials, Rawlanchors and a host of other fixing aids which are helping the Gas Industry to extend its service to the nation. In all conditions, in all materials, Rawlplug Fixing Devices are best for efficiency and time-saving. Our Technical Service Department will gladly help with your fixing problems.

THE RAWLPLUG CO. LTD. • CROMWELL RD. • LONDON • S.W.7

B375



technical aspects of jointless flooring in Germany. Floorings studied were asphalt, magnesite, polymer emulsion/cement.

The document, which contains 118 pp., will be mainly of value to flooring manufacturers and to research workers.

16.51 materials: miscellaneous BUILDING PAPERS

Waterproof Building Papers. BS 1521:1949. (British Standards Institution. 2s.)

Minimum requirements for waterproof papers other than for use in dampcourses. Two classes: "A" for prevention of draughts and moisture in wall or roof structures; "B" for temporary purposes, e.g., concrete curing.

19.71 construction: details GRIPPING DEVICE

A Wire Gripping Device for Prestressed Concrete Production. Division of the Chief Scientific Adviser, MOW. (Civil Eng. and Public Works Review. April, 1949. pp. 204-5.)

Details of the "Gladwin" and "Split Conical" grip, developed by the Field Test Unit of the MOW for holding stressed wire reinforcement.

20.131 construction: complete structures PRESTRESSED CONCRETE IN BELGIUM

Applications of Prestressed Concrete in Belgium. G. Magnel. (J. of the Institution of Civil Engineers. April, 1949. pp. 161-174.)

Principles and structural details of the Magnel system of prestressing. Examples of applications in Belgium in bridges, factories, hangars and underpinning of mediaeval towers.

22.33 sound insulation and acoustics PARTY WALLS

Party Walls between Houses; Their Fire Resistance and Sound Insulation. R. C. Bevan and W. A. Allen. (National Building Studies, Special Report No. 5. HMSO, May, 1949. 2s.)

Functions of party walls, standards, behaviour of one-, two-, three-, and four-leaf walls. Important for housing work. Illustrated 14 pl. 25 diagrams.

This report breaks new ground. It puts party wall construction on a functional basis in place of mere custom. It displays the technique of attacking building construction scientifically, and it is a useful text for sound insulation in fire resistance generally. Part I deals with functional requirements, the characteristics of traditional walls, and modern standards. Part II discusses the design of party walls for traditional and non-traditional houses, and gives results of many measurements.

BRS takes an interest in history these days, and the evolution of party wall requirements is traced from the Fitz Alwynne Assize of 1189 to present times. It shows how fire resistance dominated construction until the 1850's, after which sound insulation acquired increasing prominence. Then the characteristics of the common 9-in. brick wall are examined and shown to be excessive in respect of fire resistance (they offer 6 hr.), but deficient for sound reduction (48 db.). Finally, data is presented from which more suitable standards

are derived, being 1 hr. fire resistance and an average sound reduction of 55 db.

Part II discusses construction in detail. It classifies possible types of walls according to the number of leaves they have, up to four, and according to whether they are framed or not. It considers the construction which theory appears to require for each class, and at the same time gives measured sound insulations for a very large number of traditional and non-traditional types of house which incorporated BRS recommendations. Later, woven through this part of the report is a great deal of practical material on sound insulation and fire resistance. Field measurements of fire resistance are, as the authors say, unpopular, but inadvertent trials are reported which confirm the theoretical discussions.

A summary contains a review of the chief design points.

The report displays a considerable advance in scientific ideas on construction, and it is satisfactory to note how often and how readily the raised standard of sound insulation has been obtained.

23.101 heating and ventilation DOMESTIC HEATING APPLIANCES

Improved Solid Fuel Heating Appliances. Supplement No. 1 to Circular 170/84. (M. of Health. April, 1949.)

Supplement to list of appliances approved by M. of Health for use in houses. In future lists open fires with back boilers will only be included if of continuous burning type.

23.102 heating and ventilation TRENDS IN HEATING

Trends in Heating, Ventilation and Air Conditioning. H. H. Bruce. (Heating and Ventilating Engineer and J. of Air Conditioning. March, 1949.)

This presidential address reviews recent trends. There is a fairly lengthy comment on the BRS experimental house heating trials at Abbots Langley, a brief consideration of central hot water supply for "low-rental" flats, some notes on district heating, and brief references to radiant heating, mechanical ventilating, comfort, cooling and solar radiation. A useful outline of recent trends.

23.103 heating and ventilation SKIRTING AND PANEL HEATING

Chicago Welcomes ASHVE for 55th Annual Meeting. Cyril Tasker. (Heating and Ventilating Engineer and J. of Air Conditioning. March, 1949.)

The author refers to various papers read at the meeting. Two are of special interest. One on the results of tests on a non-basement bungalow heated by baseboard (skirting) panels and one on comfort and economic advantages of insulation used in a four-room house heated by electric ceiling panels. The summarized report on baseboard heating suggests that it would be quite satisfactory in England.

24.112 lighting DAYLIGHTING: HOUSES, SCHOOLS

Daylight (Dwellings and Schools). BSC. of P. Chap. 1 (A), 1949. (British Standards Institution. 5s.)

Recommended standards for houses, flats and schools; sky factor tables. Important; illustrated with 13 figures.

It is some years since this code was first published in draft, but it now seems a clear and useful guide.

Part I, on definitions, includes a description of how daylight is distributed from different kinds of windows. There are good illustrations.

Part II is on houses and flats. The standards are given in a much simpler form than before. Related to the standards is the set of tables of sky factors for the full range of domestic window sizes, which forms Appendix C. These were formerly set out for 15° increments of the angle of external obstruction, but they have now been extended to give 5° increments in the important ranges from 15° to 30°. Part II of the code shows how the tables can be used for every kind of window condition normally encountered in flats and houses.

Part III deals with schools, and contains the familiar recommendation for a 5 per cent. sky factor. This apparently uncompromising insistence on a high sky factor is modified, however, by recognition that there are cases where supplementary artificial lighting for daytime use should be acceptable.

There are appendices on vision and on site development for good daylighting.

26.50 services and equipment: miscellaneous LIGHT ALLOY CONDUIT

Light Alloy Conduit. Precautions to be observed in Use. (Electrical Review, May 6, 1949.)

Brief notes on memorandum issued by Institute of Electrical Engineers. Warnings against corrosion either by contact of dissimilar metals or contact of aluminium or zinc types with other building materials.

This feature answers any question connected with building confidentially and free of charge. Questions to the Technical Editor, The Architects' Journal, 9, 11 and 13, Queen Anne's Gate, S.W.1.

QUESTIONS AND ANSWERS

2992 T.C.P. ACT, 1947: DEVELOPMENT CHARGES

Q It is noticed that the last question on Form D.1. states: "Do you claim any exemption from Development Charge?"

Does this mean that the Act requires the submission to the Central Land Board of Form D.1. in all cases of buildings even if the works are covered by Section 78—unfinished buildings—or Section 80—land ripe for development and the exercise of the permitted one-tenth increase in cube contents under the Third Schedule? In all of these cases no Development Charge is payable.

A No, there is no need to submit any form to the Central Land Board when it is clear from the Act or the various Orders that no development charge arises. I understand that the particular question referred to is intended to cover cases of doubt, where the applicant wishes to reserve some right of argument over the incidence of the charge.

Announcements

Mr. E. W. Riley, A.R.I.B.A., has moved to 45, Squirrels Heath Road, Harold Wood, Essex.

Mr. Peter Ray, F.S.I.A., has moved to Marsh Hill House, Holyfield, Waltham Abbey, Essex (tel.: Nazeing 2201).

Mr. R. Wallace Willocks, L.R.I.B.A., is now practising from 124, The Parade, Leamington Spa, Warwickshire, and would be glad to receive trade catalogues.

Mrs. Ruth Stern, A.R.I.B.A., would be pleased to receive trade catalogues, etc., at 24, Belvedere Court, N.2.

East Kilbride Development Corporation would like to receive trade catalogues for the use of the architectural and planning department. These should be addressed to the General Manager, Torrance House, East Kilbride, Lanarkshire.

The MOH has issued a circular to housing authorities giving details of the general procedure to be followed in order to obtain a direction for deemed planning permission under Section 35 of the Town and Country Planning Act, 1947.

Following an increase in wages awarded by the National Arbitration Tribunal, and an increase in the cost of pig-iron, the Minister of Works has authorized an increase of 1½ per cent. in the current maximum selling prices of cast-iron baths.

The BOT announce that resin, turpentine and pine oil are no longer purchased on public account and are reverted to private trading. Imports will be subject to licence. For currency reasons the use of these materials for certain purposes will still be restricted.

Mr. E. Denis Knight, A.R.I.C.S., F.I.A.S., chartered and corporate quantity surveyor, has opened additional offices at Queen's House, 12, Queen Square, Brighton, 1.

The partnership of Mr. W. R. Bennett, L.R.I.B.A., and Mr. R. R. Wilkins, A.R.I.B.A., under the name of J. Stanley Beard, Bennett & Partners, will in future be known as J. Stanley Beard, Bennett & Wilkins. The address is still 101-3, Baker Street, W.1 (tel.: Welbeck 2858).

Mr. C. E. Peverley, registered architect and quantity surveyor, has commenced practice at 5a, Church Street, York, and will be pleased to receive trade catalogues and technical information.

Mr. A. J. Milne, general manager of the Alumilite & Alzak Ltd. group of companies, has now been appointed managing director.

Mr. Paul Kennerell Pope, A.R.I.B.A., until recently chief architectural assistant in the City Engineer's Department, Bath, has entered into partnership with Ernest Tew and Oliver, A./A.R.I.B.A. The practice will be known as Tew, Pope & Oliver, A./A.R.I.B.A., chartered architects, 7, Northumberland Buildings, Bath (Tel.: Bath 60785).

An agreement has been signed on the prices to be paid by Britain for Finnish sawn timber imported within the framework of the present trade treaty. New prices are 4 to 5 per cent. lower than last year.

In connection with the extension of private purchasing of flooring block blanks, Timber Control points out that the purchase price maximum of 10s. per cubic foot c.i.f. was indicated with the object of avoiding applications being made to Control for expensive material, as the scheme is not intended to cater for the higher priced goods. Some applicants appear to have assumed that applications for any species and specification will receive Control's approval, provided the c.i.f. price does not exceed 10s. per cubic foot. This is not so. Any applications which are not reasonably priced in comparison with pre-war c.i.f. values will not be approved.

Buildings Illustrated

Permanent exhibition at British Electricity House. (Pages 519-521.) Architects, Donald Atkins and Arthur C. Braven, A.R.I.B.A. General contractors, A. Davies & Co. (Shopfitters), Ltd. Sub-contractors: Electric wiring, Acorn Electric Co.; electric heating and light fixtures, Troughton & Young; models, Cockade, Ltd.; wallpapers, Sandersons.

House at Bellington. (Page 522.) Architect, R. Jelinek-Karl, L.R.I.B.A., A.L.A.A. General contractor, W. Chapman & Sons, Ltd. Sub-contractors: Bricks, Dunton Bros.; tiles, Colliers of Reading; central heating, A. F. Hazell; electric wiring, Bertram Voles; plumbing, A. F. Hazell; sanitary fittings, Selden, Ltd.; door and window furniture, A. J. Binns; plaster, Hilliard & Co.; tiling, A. K. Youens.

Shop at Wimbledon. (Pages 523-524.) Architect, Brian Peake, F.R.I.B.A. Contractor, Boyd Gibbins, Glasscrete window, J. A. King & Co., Ltd.

Shop at Marylebone. (Pages 525-526.) Architect, Patrick Gwynne. General contractors, Leslie Bilsby, Ltd. Sub-contractors: Electrical, T. Clarke & Co., Ltd.; ventilation and heating, Benham & Sons, Ltd.

Correction

A news item published on May 26 wrongly referred to the Ministry of Health instead of the Ministry of Education in connection with standardization and prefabrication in educational building.

*The Symbol of Paint Quality
for 138 years*

BLUNDELL

BLUNKOTE

HARD GLOSS PAINT

Protective Paint for
Inside or Outside use.

CREOLE

WATER PAINT

The Perfect Oil-Bound
Washable Distemper.

BLUNTONE

FLAT WALL PAINT

Completely washable and
lasting decorative finish.

Full details sent on request.

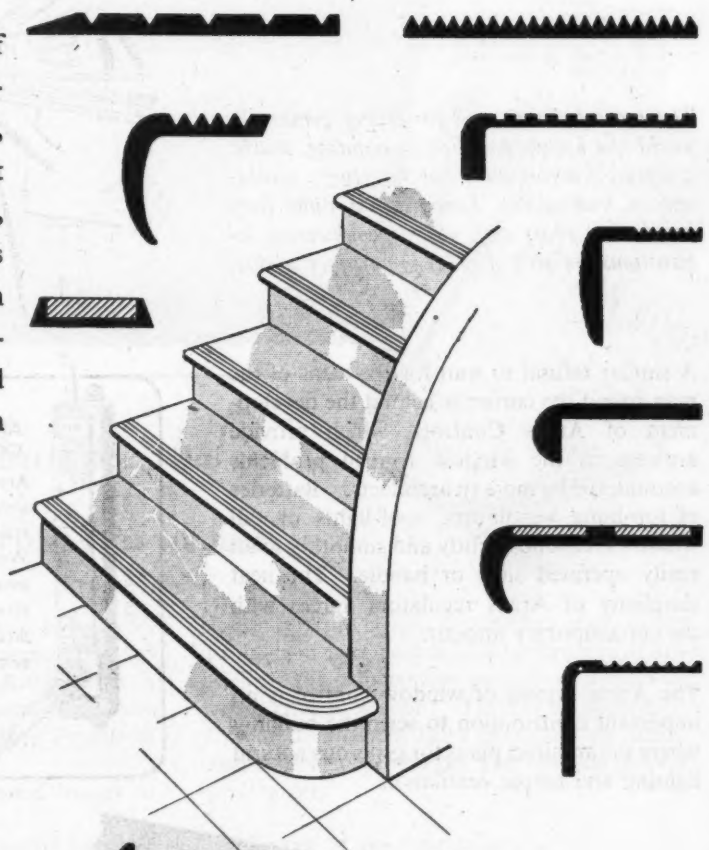
BLUNDELL SPENCE & CO., LTD., HULL & 9, Upper Thames St., LONDON, E.C.4.

ALUMINIUM SECTIONS

give shape to ideas

An almost unlimited variety of cross-sectional shapes can be produced in aluminium by extrusion, offering the designer the widest scope for his skill and ingenuity, and greatly easing the problems of the production engineer. With aluminium sections, manufacturing costs can be minimised and special advantages conferred on the product.

Shown here are various examples of step edgings which combine pleasing appearance with utility. They are durable and do not rust or tarnish, and a serrated non-skid surface is readily incorporated or provision can be made for friction strip inserts. Step edging sections are inexpensive and quickly available.



You may be able to make use of the exceptional advantages of aluminium sections. Write to us for advice on all problems of application and design.

Northern Aluminium COMPANY LIMITED

MAKERS OF ALUMINIUM SHEET, STRIP, PLATE, SECTIONS, TUBING, WIRE, FORGINGS, CASTINGS, PASTE FOR PAINT

TECHNICAL DEVELOPMENT DIVISION: BANBURY, OXON. SALES OFFICES: LONDON, BIRMINGHAM, MANCHESTER, BRISTOL, NEWCASTLE-ON-TYNE, LEEDS

Leonardo...

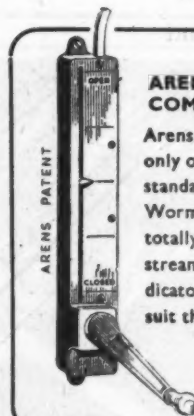
had the answer...

The most brilliant and far-seeing genius the world has known excelled at painting, music, sculpture, aeronautics, architecture, mathematics, hydraulics. Leonardo da Vinci lived nearly 500 years ago, yet his engineering innovations are still of great importance to-day.



A similar refusal to wait for the ideas of the man round the corner is behind the development of Arens Controls, which provide answers to the window control problems encountered by modern architects. Batteries of top-hung ventilators, roof-lights or tall windows respond silently and smoothly to an easily operated slide or handle. The neat simplicity of Arens regulators agrees with the contemporary interior.

The Arens system of window control is an important contribution to scientific building where the architect plans for generous natural lighting and ample ventilation.



ARENS COMPACT GEAR BOX

Arens Compact Gear Box requires only one-third of the space of a standard Worm Gear operator. Worm and sliding members are totally enclosed. Has a pleasant streamlined appearance. An indicator which can be engraved to suit the customer is included.

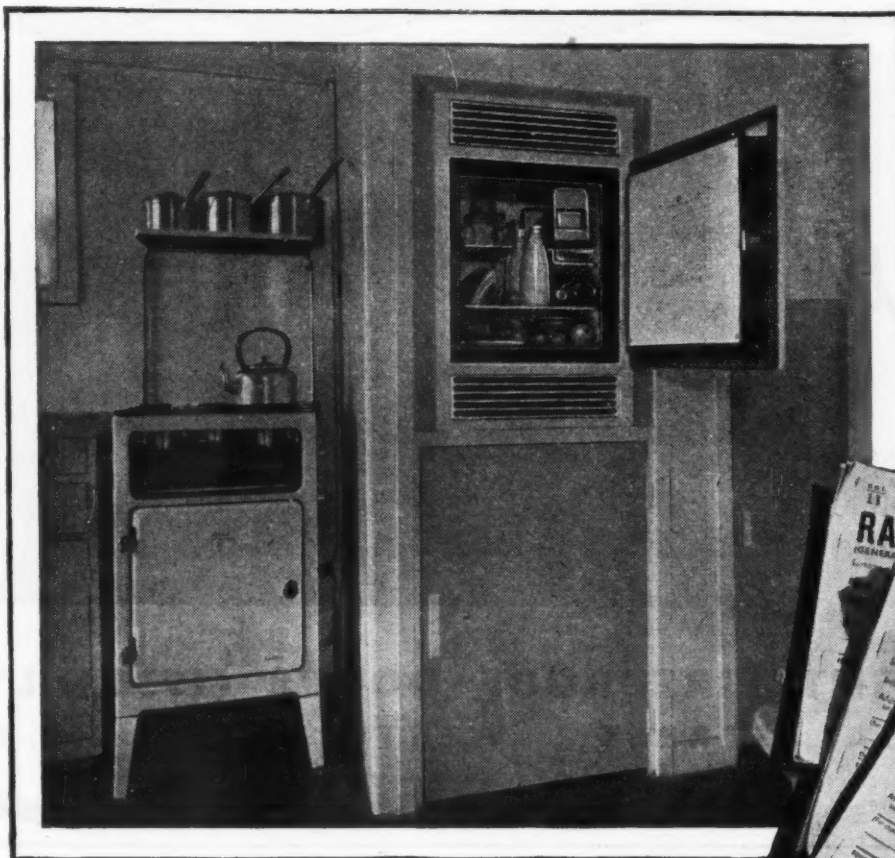
ARENS

Regd. Trade Mark

REMOTE
CONTROLS

Covered by Patent

ARENS CONTROLS LTD., TUNSTALL ROAD, EAST CROYDON, SURREY. Telephone: Addiscombe 3051/4. Telegrams: Unicontrol, Phone, London



Today, more than ever before, Refrigeration is a necessity

If rationed food goes bad it cannot be replaced. In recognition of this fact the Government installed 75,000 'built-in' Electrolux Gas Refrigerators in temporary "Prefabs". Many Local Authorities followed this lead when planning their Permanent Housing Schemes.

Electrolux Refrigerators, operated by gas or

electricity easily fit into any kitchen plan. They can be built into modern kitchen furniture at any height. The only moving part of an Electrolux Refrigerator is its door! There is no machinery. This means freedom from vibration, low maintenance cost, dependability and absolute *Silence* at all times.

Electrolux Ltd., are the originators of the continuous Absorption Process which accounts for the permanent SILENCE of Electrolux Refrigerators. Only Electrolux Cabinets contain the Silent Electrolux Cooling Unit.



BUILT-IN *Silent* Electrolux REFRIGERATORS



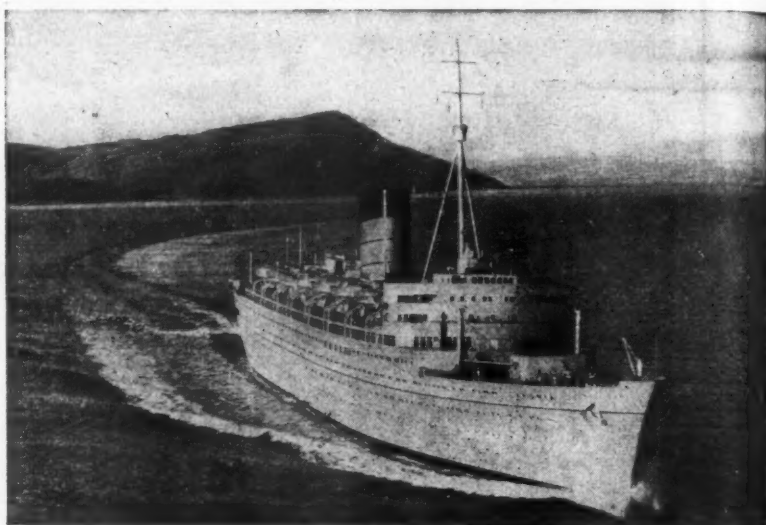
Operated by Gas or Electricity

ELECTROLUX LIMITED, LUTON, BEDS. Head Office, 153/5, REGENT STREET, LONDON, W.1.

The new Cunard White Star
(34,000Ton)
liner

"Caronia"

is protected by
DREADNOUGHT
Firescreen Doors



DREADNOUGHT FIREPROOF DOORS (1930) LTD
26 VICTORIA STREET, WESTMINSTER, S.W.1

When daylight fades ...



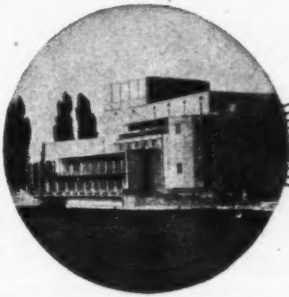
First-class dining saloon in
the T.S.S. 'Orcades' fitted with
Metrovick Fluorescent Lighting

they switch to
METROVICK
Lighting

METROPOLITAN-VICKERS ELECTRICAL CO., LTD
St. Paul's Corner, 1-3, St. Paul's Churchyard, London, E.C.4

S/A 903

Catering in Shakespeare's Theatre



The Restaurant kitchens of the Shakespeare Memorial Theatre at Stratford-upon-Avon are equipped with Radiation large cooking gas appliances. During the season some 200 theatre patrons are served each day with meals cooked in these appliances, which include the 4-oven Grosvenor Range shown below. The services of Radiation kitchen planning specialists are available, without obligation, to all concerned in the planning and equipment of kitchens for hotels, hospitals, restaurants, canteens and similar establishments.



Radiation

Large Cooking Equipment Ltd.
PALATINE WORKS
WARRINGTON, LANC.

A Comprehensive Range of Large Cooking Equipment is Displayed at
The Radiation Showrooms, 8, Stratford Place, London, W.1. Phone: Mayfair 6462

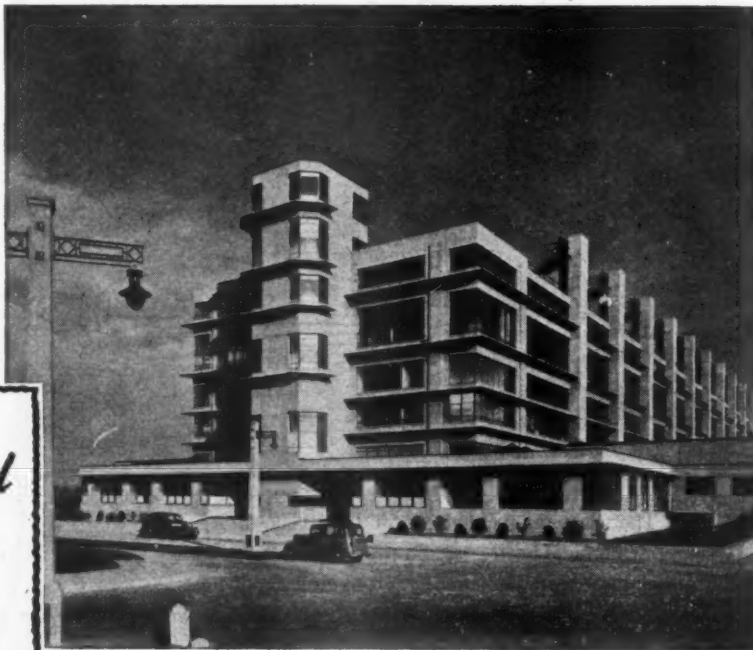
Planning for the Future

Today . . . Today industry is being re-equipped and houses are being built on a large scale. For the many schemes in hand (and those still to be carried out) electricity is specified because of its efficiency, cleanliness and convenience. And so the demand for electricity increases and will continue to increase.

. . . and tomorrow To meet these needs, a vast £400,000,000 scheme is in progress. It will provide new plant, power stations and transmission lines. After that, there will be further electricity schemes, to keep pace with the needs of still more housing and industrial development.

*Electricity —
the power behind
production*

BRITISH ELECTRICITY



Modern factory for the manufacture of drugs and fine chemicals — Midlands



HARDWEARING FLOORINGS

IN
COLOURED ASPHALT
OR
DECORATIVE TILES

THE
LIMMER & TRINIDAD

LAKE ASPHALT CO., LTD.
STEEL HOUSE, TOTHELL ST., WESTMINSTER, LONDON, S.W.1
TELEPHONE: WHITEHALL 6776

Combining Beauty with Durability . . .

CHARTER **STONE** PAINT

The re-introduction of CHARTER STONE PAINT has already met with pronounced success. Enquiries are reaching us from all over the country and our list of satisfied users grows rapidly.

The pleasing treatment to which this product lends itself, combined with the knowledge of TURNER QUALITY has excited outstanding interest among leading Architects and Public Bodies.

CHARTER STONE PAINT has been used with every success by several London Boroughs on blocks of Model Flats recently completed.

Easy to apply. Rapid drying. Rock hard in wear. Decorative in finish. Water and weather resisting. Suitable for brick, concrete, stone, asbestos-cement, and most non-greasy surfaces. In a variety of attractive shades.

Descriptive literature and colour cards from the sole manufacturers.

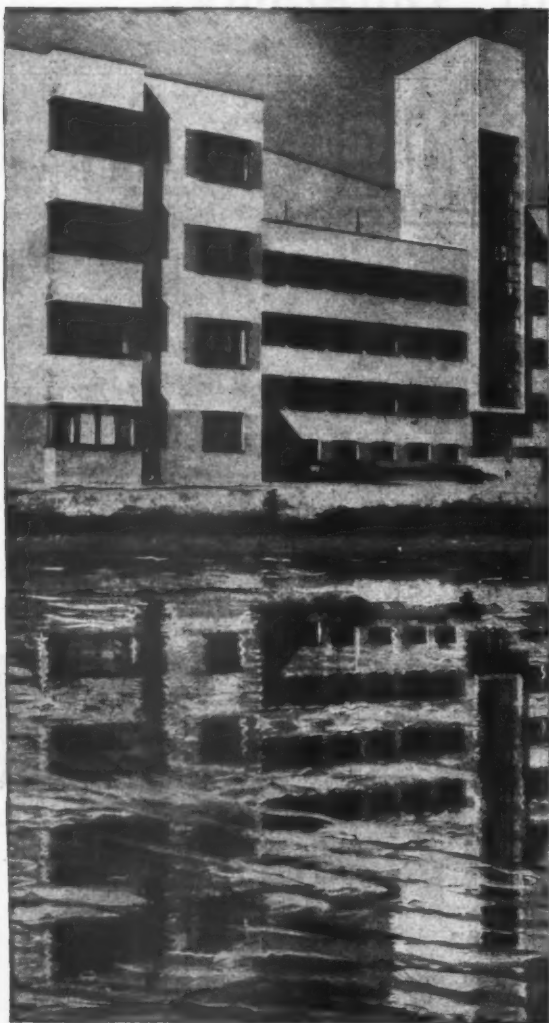
CHARLES TURNER & SON, LTD.
Makers of Quality Paints since 1821.
BLOOMSBURY HOUSE, 165, HIGH HOLBORN, LONDON, W.C.1



THERE IS NO LIMIT TO ITS
ARCHITECTURAL POSSIBILITIES

M'KECHNIE
metal technique

EXTRUSIONS IN BRASS • BRONZE • NICKEL SILVER • M'KECHNIE BROTHERS LTD. • BIRMINGHAM 16



Tretol Liquid Waterproofer when added to the gauging water will permanently waterproof mass concrete and renderings against strongest sub-soil water pressure without any deviation from normal work. Its chemical action guarantees absolute efficiency.

TRETOL LTD. 12-14 North End Road, London, N.W. 11

Tel. Speedwell 4621 (5 lines)

TRETOL
LIQUID CEMENT
WATERPROOFER

NRC PAINTS

MURAGLOSS

GLOSS PAINT
AN OUTSTANDING SPECIALITY FOR
PAINTING LIMEWASHED AND DISTEMPERED
SURFACES.
Even on heavy lime or distemper deposits one coat of
Undercoating and one coat of Finish produces a gloss
finish of excellent properties.

NEOFEX
ENAMEL FINISH
for interior and exterior
decoration and preservation.

MURALAC
FLAT OIL PAINT
the delicate sheen
just right.

NORTH BRITISH CHEMICAL CO. LTD. (Paints Division) Drayliden, Manchester

Save Space with COMBINED TANKS



Triangular Type Hot Water Supply Tank combines the functions of Cylinder and Cistern. It requires no floor space, being fixed in any convenient corner above the level of the highest tap.

The "HERCULES" Combination Hot Water Supply Tank is expressly designed to give efficient and economical Hot Water Storage for flats and small houses.

In the small modern house or flat, "R.B." Combined Tanks will solve the problem of finding space for Hot Water Storage in the most efficient way. Over 50 years manufacturing experience is behind each "R.B." Tank, and the many thousands now in use testify to their unfailing reliability. Made throughout of stout, hard-rolled copper and complete with dust-proof covers and all connections and fittings.

From Builders' and Plumbers' Merchants everywhere

RANGE BOILERS LTD.

(and subsidiary companies)

STALYBRIDGE

SOLE MANUFACTURERS OF THE FAMOUS 'FORTIC' PATENT COMBINATION TANK

JOHN KENT

for *Linsite*
FLOORING

Now being used for flats and L.C.C. Housing Schemes. Bitumen-based waterproof floor covering ideal for homes, offices, factories, hospitals, etc. Non-absorbent, non-slip and hard wearing. Impervious to heat. Looks like lino, takes similar polish. Can be laid on existing concrete or wood floors. Made in a variety of colours.

for **LUXOR** ★
★ MAGNESITE, JOINTLESS FLOORING

A plastic flooring with new features of comfort, elegance and durability; Luxor has been developed as a result of many years of research into the chemical reactions of oxychloride cements and extensive practical experience of the technicalities of floor laying.

for PLASTERING
PAINTING AND
DECORATING

In this department our expert staff of highly skilled craftsmen and operatives is able to carry out first-class work of every type. A John Kent job is a job well done, and good work is always economical in the long run. Your enquiries are invited.

★
ADDRESS YOUR
ENQUIRIES TO

John Kent (LONDON) Ltd

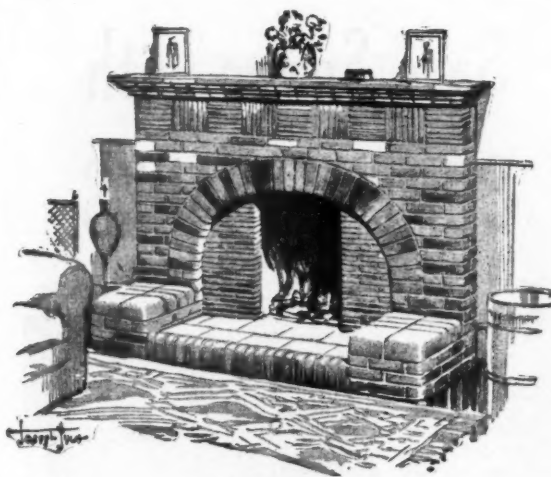
25 BALLARDS LANE, N.3

TELEPHONE FINCHLEY 5927

A Special Service for Architects

In addition to supplying a wide range of Old English Fireplaces, Claygate will execute individual orders to clients' own specifications.

An experienced staff is maintained solely for this purpose, and designs will be faithfully reproduced, with all the skill and attention to detail for which Claygate is famous.



★ The latest catalogue of original Claygate designs for fireplaces is profusely illustrated and contains all essential information for architects. A copy will be sent post free on request. Quotations for special designs readily supplied.

Claygate Old English Fireplaces

CLAYGATE FIREPLACES LTD., 7, CLAYGATE, SURREY
SCOTTISH WORKS: BARRIE ROAD, HILLINGTON, GLASGOW, S.W.2.

We are manufacturers of—

all types of lettering, including the following : Built-up Metal Letters for Shopfronts, Fascias, etc., constructed of lead coated and enamelled sheet steel, sheet bronze, or stainless steel, in any style, including those illustrated.

Cast Metal Letters in bronze, brass or aluminium and in Roman or Block style : with Flat Face, Vee Face or Vitreous Enamelled Filling.

Bronze Plates, Name Plates, Memorial Tablets, etc., with machine or hand-cut letters in Roman or Block styles.

We can supply letters to our own standard patterns or to your individual design. Alternatively, we can prepare designs to your draft sketches. Our long standing experience is always at your service. We offer keen competitive prices, correct design, first-class workmanship and prompt delivery.

Other specialities include Drawn Metal Mouldings in stainless steel or bronze, suitable for shopfronts or showcases ; Door Handles ; Letter Plates ; Ventilating Grilles ; Kicking Plates ; Finger Plates, etc. ; Repetition Metal Work ; Sheet Metal Work ; Architectural Metal Work.

CARLTON METAL MOULDING CO. LTD.

Dept. A.J. 16
TAYBRIDGE WORKS • TAYBRIDGE ROAD • BATTERSEA • S.W.11
Telephone : BAttersea 2075/6/7. Telegrams : CARLMET, BATT, LONDON.

ROMAN Sans Serif
BLOCK Script RIBBON
Italic
GROTESQUE
Old English
Special

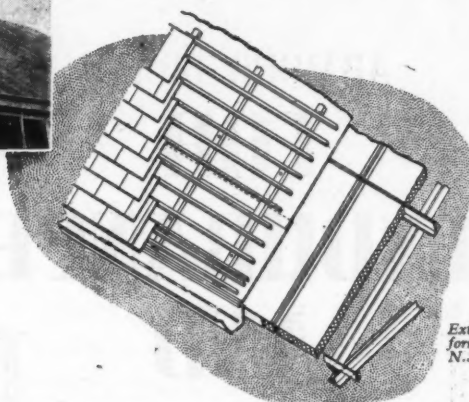
Thermacoust Channel Reinforced WOOD WOOL ROOFING SLABS

*Ashton Vale Primary School,
Bristol. J. Nelson Meredith,
F.R.I.B.A., City Architect:
Laying roof with Thermacoust
reinforced Slabs to receive tiles.*



THERMACOUST Channel-reinforced Slabs help to speed up building construction. They keep that building warm in winter, cool in summer. They are large in unit size, light in weight, easily handled and can be worked with ordinary wood-working tools. They are being extensively used for roofs, flat or pitched, in schools, factories, office buildings, shops, etc. Limited quantities supplied without a steel authorisation. Standard slabs 6ft. long; 6ft. 8in. and 7ft. slabs made to order.

- ★ FOR Pitched or Flat Roofs.
- ★ NO purlins needed at less than 6ft. centres.
- ★ NO timber rafters needed for tiled roofs.
- ★ NO other insulating material has greater structural strength.



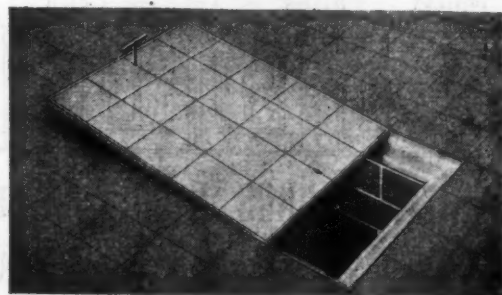
For Information Sheets and prices write to:— **THERMACOUST LIMITED, 39 VICTORIA STREET, LONDON, S.W.1. (ABBy 2738)**

Fill in a BROADSTEL COVER to the surface
with tiles, wood-blocks, terrazzo, asphalt etc.
to match the surroundings

Designed to match the floor or paving, the Broadstel Cover becomes an integral part of the job and is scarcely discernible. The ready means of access is there, but only the thinnest line of metal marks the spot.

Stronger than cast iron and highly resistant to impact. Wide range of sizes in locking, non-locking, and rubber-sealed patterns, all reinforced to stand specific loading. Officially approved by Ministry of Works and Ministry of Health. Thousands in use throughout the country.

and you have what is
almost an invisible
Manhole Cover



BROADS

★ Please write for Illustrated Brochure

MANUFACTURING CO. LTD.

4 SOUTH WHARF, PADDINGTON, LONDON, W.2. Telephone: PADDington 909J (15 lines)

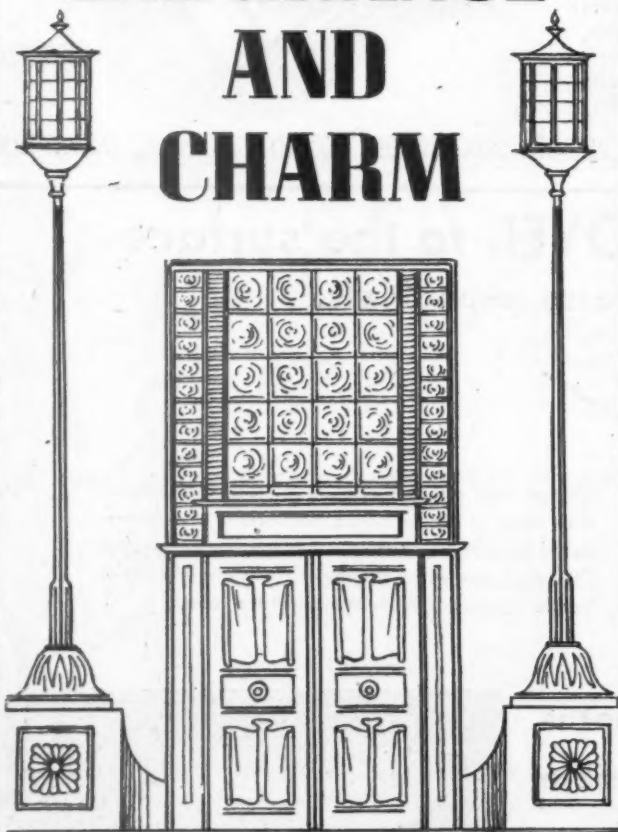
ARMOURDOR

HIGH GLOSS



ARMOUR BRAND

FOR ENDURANCE AND CHARM



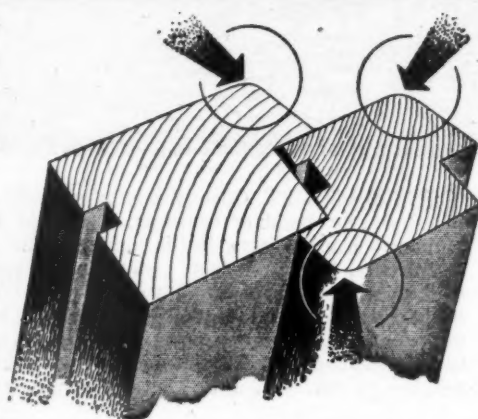
GRIFFITHS BROS. & CO. London LTD.

PAINT, ENAMEL & VARNISH SPECIALISTS

MACKS ROAD, BERMONDSEY, S.E.16

TELEPHONE, BERMONDSEY 1151

Refinements in the true RIPPER tradition



★ The rounded arrises illustrate a characteristic Ripper refinement of finish.



IP46
lay bars.



IP46
with bars.

We have available from stock the entire range of **GMP** windows, to B.S.I. Specification, which can also be supplied (if required) with glazing bars. The adjacent illustrations are typical.



IV46
lay bars.



IV46
with bars.

RIPPER WOODWORK

Rippers Ltd., Castle Heddingham, Essex

Phone: Heddingham 291 (4 lines)

London: 9 Southampton Place (Suite 16) W.C.1 Phone CHAncery 8304/7



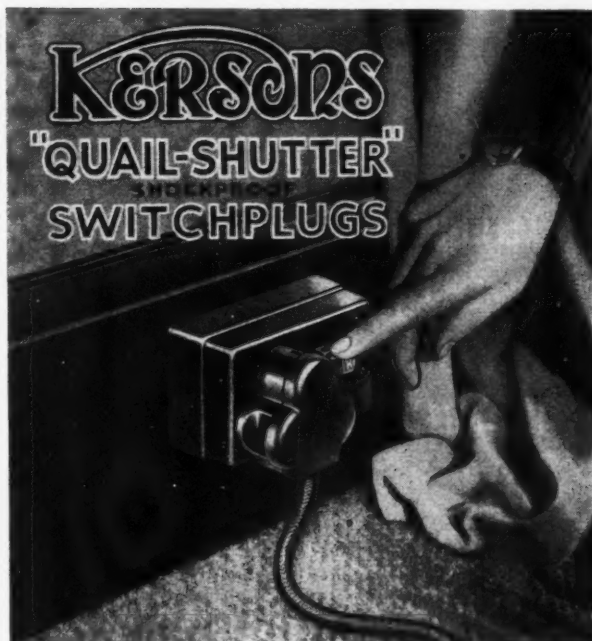
THE DROP IN THE BUCKET

That's been about the proportion between the raw material we could get and the mass of IBECO we've been asked to supply. Almost every day someone else has realised that for this, that, or the other job IBECO has *all* the desirable qualities . . . Today, the position is a little easier—just a little. So if you have a good case for using IBECO, let us hear from you. This time we may be able to say yes.



—World's finest water-proof Kraft paper with a score of lining, insulating and proofing uses in building

C. Davidson & Sons Limited (Dept. K78) Bucksburn, Aberdeen



An attractive range of 3-pin switch-plugs designed to B.S. 546 with safety-shutter feature protecting user from contact with "live" socket tubes.

Vitreous porcelain insulation.
Safety shuttered outlets.
Single or double pole mechanism.

SURFACE TYPE

3-pin, 5 or 15 amp.

FLUSH TYPE

For mounting in iron boxes.
3-pin, 5 or 15 amp.
Overlapping moulded plates.

All units include Kersons "Cloverleaf" 3-pin moulded plugs.



"Quail-Shutter" Flush type Switchplug, with iron box.



THE KERSONS MANUFACTURING CO. LTD.
HANSONS BRIDGE ROAD, BIRMINGHAM, 24

ELECTRIC
PASSENGER
LIFTS
INSTALLED
IN
INDUSTRIAL
WORKERS
FLATS
FOR
TWELVE
LONDON
BOROUGHS
BY



**HAMMOND
&
CHAMPNESS
LTD.**

Office & Works
GNOME HOUSE
BLACKHORSE LANE
WALTHAMSTOW
LONDON, E.17

Telephone:
LARKSWOOD 1071



Pre-cast

CONCRETE

**Cast Stone
Granolithic
Terrazzo**

EBOR

RAPID DELIVERIES OF
FENCING
PAVING
WALLING
BLOCKS
AND PRE-FAB
STRUCTURES
IN MANY SIZES

CONCRETES LTD. URE BANK, RIPON

Telephone: Ripon 202

DUNBRIK

THE PRECISION FACING BRICK

Introduced in 1934 and since specified by Government Departments, Local Authorities, Leading Architects, Builders, etc. Buildings faced with Dunbriks include Houses, Schools, Factories, Hospitals, Drillhalls, Cinemas, Flats, Office Blocks, etc.

Dunbriks are Manufactured by:—

London and Home Counties
DUNBRIK LIMITED 35, Gloucester Square, London, W.2. 'Phone: Paddington 2471/2

Suffolk, East and Central Essex
ALPHAMSTONE BRICK & TILE CO. LTD.
Alphamstone, near Bures, Suffolk. 'Phone: Twinstead 229
Dorset, S.W. Hants and S. Wilts.

W. E. MASTERS, Brick Manufacturer, Lytchett Minster, near Poole, Dorset. 'Phone: Lytchett Minster 291/2

Oxon, Berks, N. Wilts and N. Glos.
THE COTSWOLD BRICK AND TILE CO. LTD.,
47, Market Square, Witney, Oxon. 'Phone: Witney 390

East and West Ridings, Yorkshire
DUNBRIK (YORKS) LTD., Stanley Ferry, near Wakefield, Yorks. 'Phone: Wakefield 3694

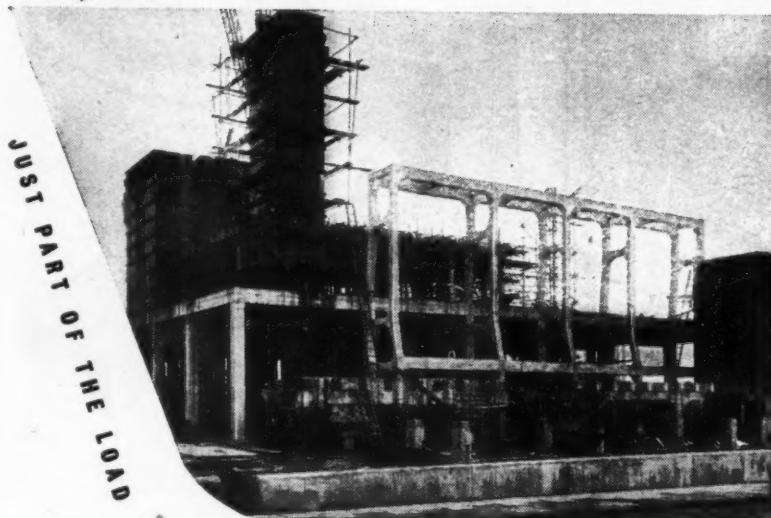
Northumberland and Durham
SAMUEL TYZACK & CO. LTD., Monkwearmouth, Sunderland. 'Phone: Sunderland 4854/5

Scotland
SCOTTISH DUNBRIK LTD., 250, Alexandra Parade, Glasgow, E.1. 'Phone: Bridgeton (Glasgow) 1818; Dundee 81673

Ulster
DUNBRIK (ULSTER) LTD., Doagh Station, Co. Antrim, N. Ireland. —Doagh 59.

Beauty • Economy • Permanence • Uniformity

1,222 TONS



JUST PART OF THE LOAD THIS

TWISTEEL JOB WAS DESIGNED TO BEAR

The superstructure of the building in this photograph is of reinforced concrete. The building was designed to contain the South Metropolitan Gas Company's wet purification plant at East Greenwich, London.

Design and reinforcement were by Twisteel Reinforcement Ltd. Stress calculations had to take into account the heavy loads that would be involved. For in addition to the usual superimposed loads, the platform carries coolers and detarrers of 1,222 tons total weight.

The concrete work measures 96' x 82' x 15' 6" in height, with a central exhaustor house 50' x 25' x 15' in height. Piled foundation consists of 139 No. 16" dia. Simplex Cast-in-Situ piles.

CONTRACTORS: The Demolition & Construction Co., Ltd.

TWISTEEL
REINFORCEMENT LIMITED

LONDON: 43 UPPER GROSVENOR STREET, W.1. Phone Grosvenor 1216. BIRMINGHAM: ALMA STREET, SMETHWICK, STAFFS. Phone Smethwick 1991
MANCHESTER: 7 OXFORD ROAD. Phone Ardwick 1691

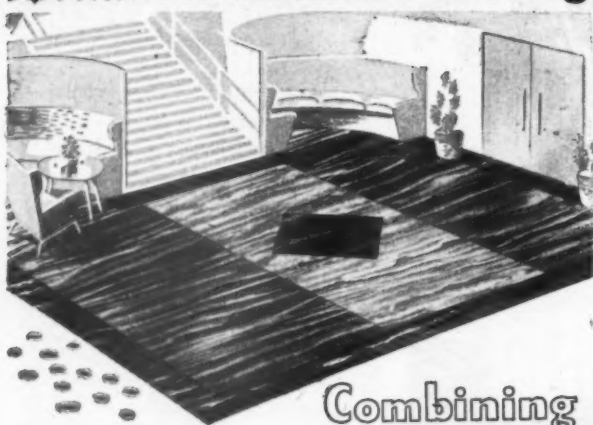
PARAGON LANTERN LIGHTS

Maximum strength, minimum obscuration of light, extreme durability and attractive neatness of design are four outstanding characteristics of "Paragon" Lantern Lights and Skylights, whether of standard pattern (24 sizes), or purpose-made to suit any curb-trimming. They are manufactured outright by us at our Deptford Works from materials of pre-war quality. All opening sashes are double-weathered and hung on brass cup-pivots. The steel glazing bars are, of course, of the well-known "Paragon" type and standard, being of completely lead-clothed steel.

Our Brochure "A" will be sent you on request.

PARAGON GLAZING CO. LTD.
1 • VICTORIA ST. • WESTMINSTER • S.W.1
Telephone: ABBey 2348. Pto. Br. Exch. Telegrams: "Eclairage, Sowest" London

Britannia Rubber Flooring



Combining Durability with Harmony

Length of service and the essential of harmonising with every type of surround are characteristics of Britannia Rubber Flooring. Made in a wide range of colours and designs by a firm of 95 years' experience, and backed by an expert laying service.

Samples, Estimates and Designs on Application to:—

Britannia Rubber & Kamptulicon Co. Ltd.

Bridgewater Road · Alpertown · Wembley · Middlesex
Established 1854 Telephone: Wembley 2961 (5 lines)

L 405 C.



Mrs. Brown **RELIES** on

Ashley

CEILING SWITCHES

| | | |
|---------------|----------|-----------|
| | Bakelite | Porcelain |
| | Base. | Base. |
| Brown one-way | CS 151 | CS 251 |
| White one-way | CS 152 | CS 252 |
| Brown two-way | CS 153 | CS 253 |
| White two-way | CS 154 | CS 254 |

Architects specify **ASHLEY**

ACCESSORIES LTD.
ULVERSTON · N. LANCs.

Telephone: 'ULVERSTON' 3333 Telegrams: 'ROTARY' Ulverston.

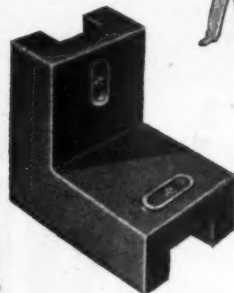


THE SIGN OF GOOD TIMES



Arched
Boiler

*Always specify
Jenkins*



Boot Boiler with
intersecting flue.

JENKINS Welded STEEL BOILERS

EXPORT ENQUIRIES INVITED

Robert Jenkins & Co. Ltd.
ESTABLISHED 1850
ROTHERHAM

Telephone: 4201-6 (6 lines)

BELLS AND TOWER CLOCKS



Mt. LEBANON, PITTSBURGH, U.S.A.
Auto-swinging bell 1947

**RINGING PEALS CHIMES
CARILLONS**

also all types of
TOWER CLOCKS

Dials from 2 feet 6 in. dia. up to the largest size made

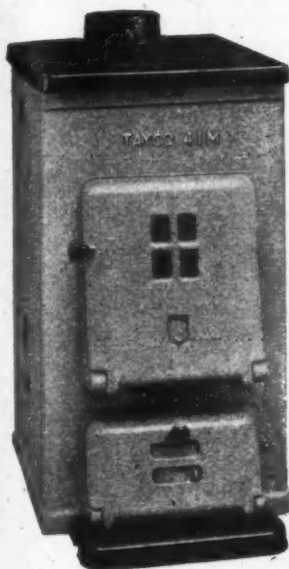
GILLETT & JOHNSTON LTD.

CROYDON, SURREY
Founders of Famous Bells
Tel. Thornton Heath 3221 (5 lines)

TAYCO

New Series

DOMESTIC BOILERS



No. 41M (Illustrated)

- Designed in accordance with British Standard No. 758
- Patented hinged hotplate cover
- Vibratory type shaking grate
- Constant hot water
- Low fuel consumption
- Durable enamel finish
- Easy clean surface
- Made in 4 capacities from 21,000 to 41,000 B.T.U's.
- Approved by Fuel Efficiency Dept. of Ministry of Fuel and Power.

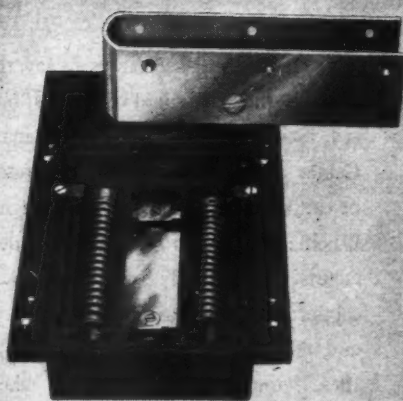
Full Particulars from:

R. TAYLOR & CO. (Ironfounders) LTD.

Muirhall Foundry, Larbert, Stirlingshire

London Office & Showrooms:—66, Victoria Street, S.W.1.

'VICTOR' DOOR SPRINGS



No. 21. "Sceptre Victor" double-action spring. Shallow box. Oil-tight and waterproof. Tension of springs and closing speed readily adjustable.

ROBERT ADAMS
(VICTOR) LTD

139 Staines Road Hounslow

Safety is everybody's business

COMPLETE

PROTECTION

to windows is achieved by the use of Broughton Wire Screens with the minimum obstruction of light and allowing full ventilating facilities. Ideal for Schools, Canteens, all Public and Industrial Buildings.

J. BROUGHTON & SON (ENGINEERS) LTD.

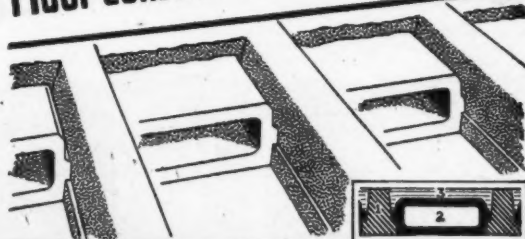
SECURITY WORKS, VERE ST., BIRMINGHAM, 5

Phone: MIDland 5901-2-3

Grams: Autoguard, Birmingham

BROUGHTON is everybody's **Safety**

Floor Construction Simplified



TILECAST

Section showing simplicity of construction.
1. Pre-cast load-carrying ribs.
2. Pre-cast concrete tiles.
3. In-situ topping.

PRE-CAST HOLLOW CONCRETE FLOORS

Supplied under manufacturing licence from the Indented Bar & Concrete Engineering Co., Ltd. Specifications and full information on request. We specialise in every type of work which calls for pre-cast concrete and will be glad to put our service at your disposal.

SPEEDILY ERECTED

NO SHUTTERING REQUIRED

ALL CONCRETE SOFFIT

ACCOMMODATION for SERVICES

WOOD FILLETS, etc.,

in IN-SITU TOPPING

Please write to:—

FORMACON LTD.

Specialists in Pre-cast Concrete Products

The Trading Estate, Cowley Mill Road, Uxbridge, Middlesex

Tel.: UXBIDGE 2390



For protection and fine finish. A long-oil Enamel of extreme durability and gloss retention, in 20 attractive permanent shades.

Particularly resistant to Sea Atmosphere.



LIKE WATER ON A DUCK'S BACK



"Pyroténax" M.I. Cables are fire-resistant, easy to install and require no maintenance or renewal. They conform to all recognised requirements and are readily adaptable to all Standard fittings.

WE won't go so far as to say that water is their "natural element," but we do say most definitely, that "Pyroténax" M.I. Cables are quite unaffected by water, steam or condensation, temperature changes or oil. Whether exposed to these normally destructive factors occasionally or continuously, the copper sheath and sealed ends afford complete and effective protection. In the same way these "tough guy" cables will take all and more of the hard knocks likely to be experienced under the most arduous conditions.

PYROTENAX
MINERAL INSULATED
COPPER COVERED
Cables
For LOW TENSION LIGHTING, POWER & CONTROL WIRING

PYROTENAX LIMITED—HEBBURN-ON-TYNE

Telephone: Hebburn 32244/7

LONDON OFFICE: 7 Victoria St., S.W.1. 'Phone: Abbey 1654/5.

BIRMINGHAM OFFICE: 2 Moor St., 4. 'Phone: Midland 1265

CLASSIFIED ADVERTISEMENTS

Advertisements should be addressed to the Advt. Manager, "The Architects' Journal," 9, 11 and 13, Queen Anne's Gate, Westminster, S.W.1, and should reach there by first post on Friday morning for inclusion in the following Thursday's paper.

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

Available only to applicants accepted from the Control of Engagement Order, 1947.

Public and Official Announcements

2ls. per inch; each additional line, 2s.

THE INCORPORATED ASSOCIATION OF ARCHITECTS AND SURVEYORS maintains a register of qualified architects and surveyors (including assistants) requiring posts, and invites applications from public authorities and private practitioners having staff vacancies. ADDRESS: EMPLOYMENT REGISTER, WERN PARK, WHITELEAF. Tel.: Uplands 0935. 991

LONDON COUNTY COUNCIL.

Applications are invited for unestablished positions of (i) ARCHITECT, Grade III (salaries up to £700 a year) and (ii) ARCHITECTURAL ASSISTANTS (salaries up to £580 a year), in the Housing and Valuation Department. Commencing salaries in either grade 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.

Successful candidates will be required to undertake 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. Preference will be given to candidates holding a recognized professional qualification.

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 Ref. G.R.3). Canvassing disqualifies. (2269) 1046

NORTH RIDING OF YORKSHIRE COUNTY COUNCIL.

Applications are invited for the undermentioned permanent appointments in the Architect's Department:—

- (a) ASSISTANT ARCHITECT. A.P.T. Division, Grade VI (£595-£660).
- (b) ARCHITECTURAL ASSISTANT. A.P.T. Division, Grade IV (£480-£525).

Candidates for (a) must be Associate Members of the Royal Institute of British Architects, and for (b) must have passed the Intermediate examination of the Royal Institute of British Architects.

Appointments superannuable, subject to the National Scheme of Conditions of Service and to satisfactory medical examination, and will be terminable by two calendar months' notice in writing on either side.

Forms of application are not being issued, but further information may be obtained from the County Architect, County Hall, Northallerton. Applications, stating age, qualifications and experience, together with particulars of present and previous appointments and the names and addresses of three persons to whom reference may be made, to reach the undersigned not later than 13th June, 1949.

Canvassing will disqualify, and a candidate who is related to a member of, or senior officer under, the Council must disclose the fact when applying.

HUBERT G. THORNLEY,

Clerk of the County Council.

County Hall, Northallerton. 1110

NORTHAMPTONSHIRE COUNTY COUNCIL. COUNTY ARCHITECT'S DEPARTMENT. APPOINTMENT OF ARCHITECTURAL ASSISTANT.

Applications are invited for the appointment of Architectural Assistant, in A.P.T., Grade VI (salary scale £595-£660).

Preference will be given to Members of the R.I.B.A., and candidates must have good general experience in design and construction of buildings for which a Local Authority is responsible.

If the selected candidate is married, is unable to obtain a house in or near Northampton, and is compelled to maintain his family elsewhere, his salary will be temporarily increased by 25s. per week, together with such sum as will reimburse him for the cost of a third-class return railway ticket to his family's home once every two months, his circumstances to be reviewed by the appropriate Committee of the Council every three months.

Travelling and subsistence allowances will be paid in accordance with the Council's approved scales.

The appointment will be determinable by one month's notice on either side, and will be subject to the provisions of the Local Government Superannuation Acts.

Forms of application may be obtained from the County Architect, County Hall, Northampton, to whom applications, accompanied by a copy of one recent testimonial, must be delivered not later than 17th June, 1949.

J. ALAN TURNER,

Clerk of the County Council.

County Hall, Northampton. 1169

GLAMORGAN COUNTY COUNCIL.

Applications are invited for the following appointments on the permanent establishment of the County Architect's Department:—

- (a) ASSISTANT COUNTY ARCHITECT. Commencing salary £960 per annum, rising by annual increments of £25 to £1,060 per annum.
- (b) SENIOR ASSISTANT ARCHITECTS. Grade A.P. and T., VIII (£685-£760).

- (c) ASSISTANT ARCHITECTS. Grade A.P. and T., VI (£595-£660).
- (d) ASSISTANT ARCHITECTS. Grade A.P. and T., V (£520-£570).

- (e) ASSISTANT ARCHITECTS. Grade A.P. and T., IV (£480-£525).
- (f) PRINCIPAL QUANTITY SURVEYOR. Commencing salary £310 per annum, rising by annual increments of £25 to £310 per annum.

- (g) SENIOR ASSISTANT QUANTITY SURVEYOR. Grade A.P. and T., VIII (£685-£760).
- (h) ASSISTANT QUANTITY SURVEYOR. Grade A.P. and T., VI (£595-£660).

- (i) ESTIMATING ASSISTANT. Grade A.P. and T., VI (£595-£660).
- (j) PRINCIPAL ELECTRICAL ENGINEERING ASSISTANT. Grade A.P. and T., VIII (£685-£760).

- (k) SENIOR ELECTRICAL ENGINEERING ASSISTANT. Grade A.P. and T., VI (£595-£660).
- (l) ELECTRICAL ENGINEERING ASSISTANT. Grade A.P. and T., IV (£480-£525).

Candidates for (a) must be Registered Architects and/or Associates of the R.I.B.A., possess high ability in design and administration, and be capable of co-ordinating and directing policy of all technical sections of the County Architect's Department; for (b), (c) and (d) candidates must be Registered Architects and/or Associates of the R.I.B.A.; for (f), (g), (h) and (i) candidates must be Chartered Quantity Surveyors of the R.I.C.S. (Quantities Section), and for (j) and (k) candidates must be Associate Members of the Institution of Electrical Engineers.

Candidates must not be over 35 years of age, but this condition may be relaxed in the case of a person already in the service of the authority, or a specially suitable candidate employed by another authority. In the case of ex-service applicants, the age limit will be raised by the number of years service in H.M. Forces during the last war.

Application forms and particulars of all the above-mentioned appointments and conditions of service may be obtained from L. R. Gower, F.R.I.B.A., County Architect, County Hall, Cardiff, to whom applications must be returned, in sealed envelopes appropriately endorsed, not later than the 25th June, 1949. Canvassing, either directly or indirectly, will disqualify. Officers maintaining a home elsewhere, who are unable to obtain suitable accommodation, may be granted a lodging allowance of £75 per annum for a period not exceeding six months.

D. J. PARRY,

Clerk of the County Council.

Glamorgan County Hall, Cardiff. 1144

METROPOLITAN BOROUGH OF SHOREDITCH. APPOINTMENT OF ARCHITECTURAL ASSISTANT.

Applications are invited for the appointment of Two Architectural Assistants, in Grade A.P. and T., VI, salary £595-£660 per annum, plus London weighting, or in Grade VA, salary £550-£610, plus London weighting, dependent on the qualifications and experience of the applicants.

Applicants should have good architectural experience, and be competent to undertake the preparation of working drawings and details for housing schemes, including multi-storey flats.

Preference will be given to Associates of the Royal Institution of British Architects, and the appointments will be subject to medical examination, the Council's Superannuation Scheme, and general conditions of service.

Applications, stating age, training and experience, together with the names of two persons to whom reference may be made, should be submitted to the undersigned not later than Thursday, 16th June, 1949, and endorsed "Architectural Assistant."

Any applicant who is related to a member of the Council or the holder of any senior office under the Council must disclose the fact in his application.

C. A. JAMES,

Town Clerk.

Town Hall, Old Street, E.C.1. 1140

HUDDERSFIELD TECHNICAL COLLEGE. Principal: Dr. W. E. Scott, M.B.E.

SCHOOL OF ART.

Headmaster: H. BERWICK RATCLIFFE, A.R.C.A.

Applications are invited for the post of Full-time ASSISTANT LECTURER, in the Architecture Department of the above School, to commence duties in September, 1949. Applicants should possess a Degree or Diploma in Architecture and/or the Associateship of the Royal Institute of British Architects. Salary will be in accordance with the Burnham Scale for Further Education Establishments, and may reach a maximum of £660 per annum. Further particulars and forms of application are obtainable from the Principal, the Technical College, Queen Street South, Huddersfield, to whom the completed forms should be returned as soon as possible.

H. KAY,

Director of Education.

25th May, 1949. 1167

COUNTY OF ESSEX.

ILFORD COMMITTEE FOR EDUCATION. The Essex County Council invite applications for an ARCHITECTURAL ASSISTANT, to work in the office of the Borough Engineer, to deal with work for the Committee for Education.

Applicants should be Members of the Royal Institute of British Architects, and should have had experience in the planning, designing, construction and supervision of school buildings.

The scale of salary will be in accordance with the National Joint Council, A.P.T. Division, Grade V, £520×£15×£20 to a maximum of £570, plus the appropriate London area allowance. There will also be paid such travelling and subsistence allowances as may from time to time be determined by the Council.

Application should be made on a form to be obtained from and returned to the Borough Education Officer, Town Hall, Ilford, together with copies of not more than three recent testimonials, within 14 days of the appearance of this advertisement. 1193

COUNTY OF LINCOLN—PARTS OF LINDSEY.

COUNTY ARCHITECT'S DEPARTMENT. The following vacancies occur in the above Department:—

- TWO JUNIOR ARCHITECTURAL ASSISTANTS. Grade III, £450-£495 per annum.

A subsistence allowance will be paid to married men finding it necessary to obtain lodgings in Lincoln whilst maintaining their homes outside Lincoln of 25s. per week for six months, plus third-class railway fare to their home each two months.

Applicants need not have had previous Local Government experience, but preference will be given to applicants with a good knowledge of building construction and detail.

Applications, stating age, qualifications, experience, present salary, and whether to their knowledge they are related to members or senior officers of the County Council, accompanied by copies of two recent testimonials, should be sent to the undersigned not later than the 16th June, 1949.

A. RONALD CLARK, A.R.I.B.A.,

A.M.T.P.I.,

County Architect.

County Offices, Lincoln. 1156

COUNTY OF LINCOLN—PARTS OF LINDSEY.

COUNTY ARCHITECT'S DEPARTMENT. The following vacancies occur in the above Department:—

- (a) THREE SENIOR ARCHITECTS. Grade VI, £595-£660 per annum.
- (b) TWO SENIOR ASSISTANTS. Grade V, £520-£570 per annum.

A subsistence allowance will be paid to married men finding it necessary to obtain lodgings in Lincoln whilst maintaining their homes outside Lincoln of 25s. per week for six months, plus third-class railway fare to their home each two months.

Applicants need not have had previous Local Government experience, but preference will be given to applicants who are Associates of the R.I.B.A.

Applications, stating age, qualifications, experience, present salary, and whether to their knowledge they are related to members or senior officers of the County Council, accompanied by copies of two recent testimonials, should be sent to the undersigned not later than the 16th June, 1949.

A. RONALD CLARK, A.R.I.B.A.,

A.M.T.P.I.,

County Architect.

County Offices, Lincoln. 1156

CUMBERLAND COUNTY COUNCIL. Applications are invited for the following appointments on the permanent establishment of the Architect's Department:—

- (a) SENIOR ASSISTANT ARCHITECTS. Grade VIII, A.P.T. Division (£685-£760 per annum).
- (b) ASSISTANT ARCHITECT. Grade VI, A.P.T. Division (£595-£660 per annum).
- (c) ASSISTANT ARCHITECT. Grade V, A.P.T. Division (£520-£570 per annum).

- (d) COST AND ACCOUNTS CLERK. Grade III, A.P.T. Division (£450-£495 per annum).

Applicants for post (a) are required to be Associate Members of the R.I.B.A. and capable of a high standard of design. Preference will be given to those candidates who have had experience in the control of staff.

Applicants for posts (b) and (c) must be registered Architects, and preference will be given to those who are Associates of the R.I.B.A. and who have had experience in a Local Authority's Architectural Department.

Applicants for post (d) should have sound experience of builders' methods, plant and material, and the duties will include the checking of builders' accounts and the preparation and maintenance of a register of builders' costs.

The appointments will be terminable by one month's notice on either side, and will be subject to the provisions of the Local Government Superannuation Act, 1937, and to the passing of a medical examination.

Applications, on forms obtainable from the County Architect, 15, Portland Square, Carlisle, should be delivered to him not later than Monday, 20th June, 1949, together with copies of not more than three recent testimonials.

G. N. C. SWIFT,

Clerk of the County Council.

24th May, 1949. 1139

CITY OF STOKE-ON-TRENT.
CITY ARCHITECT'S DEPARTMENT.
Applications are invited from suitably qualified persons for the following appointments to the permanent staff:—

- (a) ASSISTANT ARCHITECTS. Salary A.P.T. Division, Grade VI, £595-£660.
- (b) ASSISTANT QUANTITY SURVEYORS. Salary A.P.T. Division, Grade VI, £595-£660.
- (c) ASSISTANT ARCHITECTS. Salary A.P.T. Division, Grade V, £520-£570.
- (d) ASSISTANT ARCHITECTS. Salary A.P.T. Division, Grade III, £450-£495.

The selected applicants will be required to pass a medical examination, and the appointments will be subject to the usual conditions applicable to Local Government Service.

Previous experience of Local Government work is not essential.

HOUSING ACCOMMODATION WILL BE MADE AVAILABLE FOR MARRIED APPLICANTS IN RESPECT OF POSTS (a) AND (b).

Applications, giving date of birth, particulars of training and experience, etc., with copies of two recent testimonials, should be received by J. R. Piggott, F.R.I.B.A., City Architect, City Architect's Department, Kingsway, Stoke-on-Trent, endorsed with the title of the appointment applied for, not later than Wednesday, 22nd June, 1949.

HARRY TAYLOR, Town Clerk.
Town Hall, Stoke-on-Trent.
26th May, 1949. 1153

GLAMORGAN COUNTY COUNCIL.
HIGHWAYS AND PLANNING DEPARTMENT.
Applications are invited for the following permanent appointments in the County Planning Department, namely:—

- (a) **HEADQUARTERS, CARDIFF.**
ASSISTANT PLANNING OFFICER.
Salary £810 to £910 per annum.
- (b) **PRINCIPAL PLANNING ASSISTANT (DESIGN).** Grade A.P.T. VIII. Salary £685 to £760 per annum.
- (c) **PRINCIPAL PLANNING ASSISTANT (DEVELOPMENT CONTROL).** Grade A.P.T. VIII. Salary £685 to £760 per annum.

AT EASTERN AREA PLANNING OFFICE, PONTYPRIDD.
(d) **ASSISTANT AREA PLANNING OFFICER.** Grade A.P.T. VI. Salary £595 to £660 per annum.
AT SOUTHERN AREA PLANNING OFFICE, BRIDGEND.
(e) **ASSISTANT AREA PLANNING OFFICER.** Grade A.P.T. VI. Salary £595 to £660 per annum.

In addition, a lodging allowance at the rate of 27s per annum will be granted if the person appointed is (a) not already in the employ of the County Council and is employed outside the administrative county, (b) maintaining a home elsewhere, and (c) unable to obtain suitable accommodation within a reasonable distance of the place of employment. This lodging allowance is payable up to a maximum period of 6 months.

Applicants must hold suitable academic or professional qualifications, which must have been obtained by examination, and no applicant will be considered who has not passed the final examination of one of the following bodies, or have exemption therefrom:—

- Royal Institute of British Architects.
- Royal Institution of Chartered Surveyors.
- Town Planning Institute.
- Institution of Civil Engineers.
- Institution of Municipal Engineers.

The appointments will be subject to the National Scheme of Conditions of Service, to the staffing regulations of the County Council from time to time in force, and to the provisions of the Local Government Superannuation Act, 1937. The successful candidates will be required to pass a medical examination.

Appointment (a) will be subject to three calendar months' notice and the other appointments to one calendar month's notice on either side. Applicants must not be over 45 years of age, but this condition may be relaxed in the case of a person already in the service of the County Council or a specially suitable candidate already employed by another Local Authority. In the case of ex-Service applicants, the age limit will be raised by the number of years served in H.M. Forces during the recent war.

Applications, stating age, qualifications, experience and present salary, accompanied by a copy of a recent testimonial and the names and addresses of two referees, should be addressed as soon as possible to the County Planning Officer, Mr. E. John Powell, M.I.C.E., County Hall, Cardiff.

Dated the 26th day of May, 1949.

A. CLIFFORD WALTER.
Deputy Clerk of the County Council.
Glamorgan County Hall, Cardiff. 1109

BOROUGH OF ACTON.
ARCHITECTURAL ASSISTANT.

Applications are invited for this temporary appointment, at a salary in accordance with A.P.T. Grade V, of the National Scales (£520-£570 p.a.), plus London "weighting."

Candidates must have passed the Intermediate examination of the R.I.B.A. or have a similar qualification.

Application forms may be obtained from the Borough Engineer, Town Hall, Acton, W.3, and must be returned to him endorsed "Architectural Assistant" by the 15th June, 1949.

Canvassing will disqualify.

H. C. LOCKYER.
Town Clerk.
Town Hall, Acton, W.3. 1097

COUNTY OF ESSEX.
BOROUGH OF WALTHAMSTOW.
COMMITTEE FOR EDUCATION.
ARCHITECT'S DEPARTMENT.

Applications are invited for the following permanent appointments in the office of the Architect to the Committee for Education, Mr. Frank H. Heaven, A.R.I.B.A., A.R.I.C.S.:—

- (a) **ONE CHIEF ASSISTANT ARCHITECT,** at a salary of £535, rising by increments of £25 to £710 per annum.
- (b) **ONE ASSISTANT ARCHITECT,** at a salary of £520, rising by increments of £15 to £570 per annum.
- (c) **TWO ASSISTANT ARCHITECTS,** at a salary of £480, rising by increments of £15 to £525 per annum.
- (d) **ONE ASSISTANT ARCHITECT,** at a salary of £390, rising by increments of £15 to £435 per annum.

In addition a London weighting addition (£30 if over 26 years of age, or £20 age 21 to 25) will be payable.

The appointments will be subject to the Standing Orders of the Essex County Council from time to time in operation, to the provisions of the Local Government Superannuation Act, 1937, and to the conditions of service contained in the Scheme of the National Joint Council for Local Authorities, Administrative, Professional, Technical and Clerical Services, as amended from time to time and as adopted by the County Council.

Applicants should have qualified as Members of the R.I.B.A. or be in progress of qualifying for membership, or hold other similar qualifications, and, for the post (a) must have had considerable experience in an Architect's office in connection with the design, construction and maintenance of educational or similar buildings, and some administrative experience.

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

Forms of application may be obtained from and should be returned to the undersigned not later than three weeks from the publication of this notice.

E. T. POTTER, B.Sc.
Borough Education Officer.
Education Offices, Town Hall, Forest Road, E.17.
May, 1949. 1196

NORTH-WEST METROPOLITAN REGIONAL HOSPITAL BOARD.
ARCHITECT'S DEPARTMENT.

Applications are invited for the following appointments in the Architect's Department:—

- (a) **ASSISTANT ARCHITECT.** Grade A.P.T. VI (£595 to £660 per annum, plus London weighting). (Two vacancies.)

Applicants should be Members of the R.I.B.A. or hold an equivalent qualification, and must have good general experience in design and construction. A knowledge of hospital work is an advantage.

(b) **ARCHITECTURAL ASSISTANTS.** Grade A.P.T. II-V (£420 to £570 per annum, plus London weighting).

Applicants must have good general experience of design and construction, and will be placed on the grade appropriate to their experience and qualifications. Appointments will be subject to the National Health Service (Superannuation) Regulations, 1947, and will be terminable by one month's notice. Applications, giving details of experience, together with the names of two referees, should be addressed to the Secretary, North-West Metropolitan Regional Hospital Board, 11a, Portland Place, W.1, not later than 25th June, 1949. 1198

EAST KILBRIDE DEVELOPMENT CORPORATION.
NEW TOWNS ACT, 1946.

APPOINTMENT OF ARCHITECTURAL STAFF.
Applications are invited for the undernoted architectural appointments in connection with the development of the New Town at East Kilbride, Lanarkshire (Chief Architect and Planning Officer, Mr. D. P. Reay, B.Arch., M.Sc., A.R.I.B.A., A.M.T.P.I.).

- (a) **SENIOR ARCHITECT.** £760 × £40 = £1,000 per annum.

To direct design groups working on particular projects, buildings or groups of buildings. Candidates should be Associates of the Royal Institute of British Architects or possess similar qualifications, and should show evidence of a sensitive contemporary approach to the design, equipment, and layout of buildings.

- (b) **ARCHITECTS.** £550 × £30 = £760 per annum.
- (c) **ASSISTANT ARCHITECTS.** £450 × £25 = £525 per annum.

To work under (a) above. Similar qualifications.

- (d) **JUNIOR ASSISTANT ARCHITECTS.** £390 × £25 = £485 per annum.

The commencing salary in each case will be in accordance with qualifications, experience, etc. The appointments are subject to the Corporation's Conditions of Service.

There is a superannuation scheme, and selected candidates will require to pass a medical examination. Application forms may be obtained from the General Manager, Torrance House, East Kilbride, Lanarkshire, to whom they should be returned not later than 25th June, 1949.

Envelopes should be marked with the title of the post applied for. Canvassing, directly or indirectly, of the members of the Corporation will constitute an absolute disqualification. 1191

COUNTY OF LINCOLN—PARTS OF LINDSEY.
COUNTY ARCHITECT'S DEPARTMENT.
APPOINTMENT OF CLERK OF WORKS.
Applications are invited for the appointment of Clerk of Works on the Temporary Staff to supervise the erection of new Secondary Modern School at Scunthorpe.

The salary will be £9 9s. per week for a period of not less than 18 months. At the completion of the job the person appointed may be given the opportunity to transfer to further building schemes which may then be commencing, subject to satisfactory service and to the Council's approval.

The successful applicant would be required to take up his duties as soon as possible and to reside in or near Scunthorpe.

Applicants, stating age and experience, together with copies of testimonials or names for reference, to be sent to the undersigned not later than the 15th June, 1949.

A. RONALD CLARK, A.R.I.B.A., A.M.T.P.I.
County Architect, 1194

COUNTY BOROUGH OF EAST HAM.
APPOINTMENT OF ASSISTANT PLANNING OFFICER.

Applications are invited for the appointment of Assistant Planning Officer, Grade A.P.T. III (salary £450-£495 per annum), plus London weighting, in the Town Planning Section of the Borough Engineer's Department.

Candidates must be competent draughtsmen and have general knowledge and experience of town planning work.

Housing accommodation is not provided, but the Council will be prepared to consider an application for subsistence allowance in an appropriate case from the person appointed who may be unable to obtain suitable accommodation.

Application forms, obtainable from the undersigned, must be returned not later than 15th June, 1949.

H. A. EDWARDS.
Town Clerk, 1192

CITY AND COUNTY OF THE CITY OF EXETER.

Applications are invited for the following appointments on the permanent staff of the City Architect's Department:—

- (a) **SENIOR ARCHITECTURAL ASSISTANT.** Salary within A.P.T. Grade V (£520 to £570 p.a.). Candidates should be Associate Members of the Royal Institute of British Architects, or hold equivalent qualifications.

(b) **HEATING AND ELECTRICAL ENGINEERING ASSISTANT.** Salary will be in accordance with A.P.T. Grade III (£450 to £495 p.a.), or Grade IV (£480 to £525 p.a.), according to qualifications and experience. Applicants must be experienced in the design of Electrical Installations and of Central Heating and Domestic Hot Water Systems for large buildings, the preparation of Specifications, Estimates, etc. In connection therewith, the supervision of erection of new installations, and the inspection and supervision of the maintenance of existing installations.

The above appointments will be subject to one month's notice on either side and to the provisions of the Local Government Superannuation Act, 1937.

The successful applicants will be required to pass a medical examination.

Canvassing will disqualify, and candidates must disclose whether to their knowledge they are related to any member of the Council or to the holder of any senior office under the Council.

Applications, stating age, qualifications, previous and present appointments and salaries, full details of experience, and the earliest possible date when available, together with copies of recent testimonials, should be sent to H. B. Rowe, F.R.I.B.A., A.M.I.S.A.R.C.E., City Architect, Municipal Offices, Exeter, not later than 25th June, 1949.

C. J. NEWMAN.
Town Clerk, 1087

Exeter. 18th May, 1949.

COUNTY BOROUGH OF WEST HARTLEPOOL.
APPOINTMENT OF ASSISTANT ARCHITECTS (GRADE IV).

Applications are invited for the appointment of Assistant Architects in the Borough Architect's Department, at a salary in accordance with Grade A.P.T. IV, £480-£525.

The appointments are subject to the Scheme of Conditions of Service of the National Joint Council for Local Authorities' Administrative, Professional, Technical and Clerical Services (with the exception of Paragraph 39), and the provisions of the Local Government Superannuation Act, 1937.

The successful applicants will be required to pass a medical examination.

Applications, stating age, qualifications, previous and present appointments, details of experience, together with copies of recent testimonials, are to be sent to S. M. Richmond, F.R.I.B.A., A.M.T.P.I., Borough Architect, Municipal Buildings, West Hartlepool, not later than Friday, the 24th June, 1949.

The Council are prepared to consider the allocation of housing accommodation to the successful applicant if required.

ERIC J. WAGGOTT.
Town Clerk, 1200

Municipal Buildings, West Hartlepool. 31st May, 1949.

NORTHERN IRELAND HOUSING TRUST. APPOINTMENT OF ARCHITECT AND QUANTITY SURVEYOR.

Applications are invited for the following posts:—

- (a) ASSISTANT ARCHITECT. Salary scale, £500 × £25—£750.
(b) QUANTITY SURVEYOR. Salary scale, £500 × £25—£750.

Applicants for (a) must be Fellows or Associates of the Royal Institute of British Architects. Successful candidates will be engaged on the design, layout and preparation of working drawings, and the supervision of works, for both Urban and Rural Estates. Experience in the design of Community Buildings and shops will be an advantage.

Applicants for (b) must be Members of the Royal Institution of Chartered Surveyors and be experienced in the preparation of Estimates, Bills of Quantities, Measuring-up, and the adjustment of Final Accounts in connection with housing schemes.

Preference will be given to ex-Service candidates possessing the required qualifications. Application should be made not later than Friday, 1st July, 1949, on forms which may be obtained from

GENERAL MANAGER.

Northern Ireland Housing Trust,
5, Donegall Square South, Belfast.
1201

CITY OF COVENTRY.

PLANNING DEPARTMENT.

Applications are invited for the following appointments on the permanent staff of the Planning Department:—

- (a) ONE PLANNING ASSISTANT. Grade A.P.T. VA.
(b) THREE JUNIOR PLANNING ASSISTANTS. Grades A.P.T., I-III, according to experience.
(c) TWO STUDENT PLANNERS. Grade—General Division, plus merit increments for degrees.

Applicants for appointment (a) must hold a qualification either in architecture or in engineering, and should have had experience in an office of a Local Authority, preferably on planning work. Preference will be given to candidates holding in addition a Town Planning Diploma or being Associate Members of the Town Planning Institute.

Applicants for appointments (b) should have had experience in (i) Control of Development under the General Development Order, or (ii) Research and Survey work in connection with the preparation of the Development Plan, or (iii) Preparation of Layouts for Housing Estates and Industrial Areas.

In the case of appointments (b) applicants should be neat and expeditious draughtsmen, and for one of these appointments preference will be given to applicants holding a recognized qualification in building construction.

Applicants for appointments (c) will be given every opportunity to obtain experience in various aspects of Town Planning with a view to ultimate qualification.

All appointments are subject to the following: (a) National Scheme for Local Government Officers, as amended by Coventry Corporation; (b) Local Government Superannuation Act, 1937, as amended respecting annuities for Widows by the Coventry Corporation Act, 1936, and Coventry Municipal Officers' Widows and Orphans Pension Fund; (c) medical examination; (d) one calendar month's notice on either side.

HOUSING ACCOMMODATION MAY BE MADE AVAILABLE FOR THE SUCCESSFUL CANDIDATE FOR APPOINTMENT (a).

Applications, suitably endorsed, on forms to be obtained from the undersigned, are to be received not later than 30th June, 1949.

E. H. FORD, O.B.E., M.Inst.C.E.,
M.Inst.Mun.E., M.T.P.I.
D. E. R. GIBSON, M.A., A.R.I.B.A.,
A.M.T.P.I.

Joint Planning Officers.

1204

SUDAN GOVERNMENT.

The Public Works Department require (a) a PLANNING OFFICER, aged 35-45, and (b) an ARCHITECTURAL ASSISTANT, age 23-40, for service in the Sudan. Duties, in the case of (a) consist of the planning and detailing of, and in the case of (b) the preparing of plans in connection with a scheme for providing married accommodation in Khartoum. Candidates for (a) must have recognized professional qualifications in Civil Engineering or Architecture and full experience in the planning and execution of housing schemes, and for (b) they must have a sound architectural training and experience of general building work and be capable of the preparation of working drawings required.

Appointment will be on Short Term Contract on a salary scale £E.880 to £E.1,232 for (a) and £E.640 to £E.880 for (b). Cost-of-living allowance varying between £E.180 and £E.390 per annum, according to number of dependents is at present payable, and, subject to certain limitations, an outfit allowance of £E.40 is payable on appointment. There is at present no income tax in the Sudan. Free passage on appointment. Full particulars and general information may be obtained on application to: Sudan Agent in London, Wellington House, Buckingham Gate, London, S.W.1. Please mark envelopes "Planning Officer (a)" or "Architectural Assistant (b)." 1186

ESSEX EDUCATION COMMITTEE. SOUTH-WEST ESSEX TECHNICAL COLLEGE AND SCHOOL OF ART, FOREST ROAD, WALTHAMSTOW, E.17.

Required permanent Full-time LECTURER IN STRUCTURAL ENGINEERING SUBJECTS. The post is one of special responsibility in the Department of Architecture and Building, primarily for the supervision of the full-time day and evening courses for the Graduateship and Associate-Membership examinations of the Institution of Structural Engineers. Previous teaching experience is not essential, but the candidate should be able to instruct drawing office classes in structural design and the preparation of structural specifications, quantities, and estimates in accordance with good contemporary practice.

Salary scale: £300 × £15—£555, with the addition of a London allowance of £36 or £48, according to age, plus allowances up to £45 for recognized full-time training and £30 for graduate qualifications. In fixing the basic salary, up to twelve increments may be allowed for suitable professional and industrial experience. The allowance in respect of special responsibility may be up to £150 per annum.

Applications (no forms), giving full particulars of training, qualifications, and experience, should be submitted to the Clerk of the Governors, at the College, within two weeks of the appearance of this advertisement.

D. N. BUNGEY,

Acting Chief Education Officer.
County Offices, Chelmsford. 1173

CITY AND COUNTY OF BRISTOL. CITY ARCHITECT'S DEPARTMENT.

Applications are invited for the following permanent Staff appointments:—

SENIOR ASSISTANT ARCHITECTS:

- (a) Grade VII, £636-£710 (General and Housing Sections).
(b) Grade VI, £595-£660 (Education Section).
(c) GRADE V, £520-£570 (Housing Section).
(d) GRADE IV, £450-£495 (Housing Section).
(e) Grade III, £420-£465 (Education Section).

JUNIOR ASSISTANT ARCHITECTS:

- (f) Grade I, £390-£435 (Housing Section).

ASSISTANT TO LAND SURVEYORS:

- (g) General Division, £135-£385.

Applicants for appointments (a), (b) and (c) should be Associate Members of the R.I.B.A. or hold equivalent qualifications, and have good general experience in design and construction; experience in Local Authority office work will be an advantage.

Appointments are subject to provisions of Local Government Superannuation Acts, 1937 and 1939, and successful applicants required to pass medical examination. All appointments terminable by one month's notice in writing on either side.

Housing accommodation provided, if necessary, at an economic rent.

Applications indicating specific appointment applied for, stating age, training, qualifications, experience, present appointment and salary, and the names of two referees, must be delivered to the undersigned not later than Thursday, 16th June.

J. NELSON MEREDITH, F.R.I.B.A.,

City Architect.
Eagle House, Colston Avenue, Bristol, 1.
27th May, 1949. 1176

BOROUGH OF NELSON. APPOINTMENT OF ARCHITECTURAL ASSISTANT.

AMENDED ADVERTISEMENT.
Applications are invited for the appointment of ARCHITECTURAL ASSISTANT in the Borough Surveyor's Department, at a salary in accordance with Grade V of the National Scales of Salaries (£520 to £570) (consolidated).

Candidates should have experience in housing and general work, and preference will be given to applicants who have passed the Final or Inter. R.I.B.A. examination. Applications giving detailed particulars of experience and qualifications, endorsed "Architectural Assistant," with copies of three recent testimonials, to be delivered to the undersigned on or before Tuesday, the 28th June, 1949.

F. W. ROBERTS,

Town Clerk.
Town Hall, Nelson.
31st May, 1949. 1210

BOROUGH OF CHELMSFORD.

Appointment of:—

- (a) ARCHITECTURAL ASSISTANT.
(b) ASSISTANT QUANTITY SURVEYOR.

Applications are invited for the above appointments, the salary in both cases being in accordance with A.P.T. Grade III (£450-£495 per annum).

Applicants should be suitably qualified and have had experience on housing work. The appointments are subject to the Local Government Superannuation Act, 1937, and are terminable on the expiration of one month's notice on either side. The successful applicants will be required to pass a medical examination.

Applications, suitably endorsed, giving details of qualifications, experience, appointments held (with salary), and giving the names and addresses of two referees, are to reach the undersigned by noon, Thursday, 23rd June, 1949. Canvassing in any form will disqualify.

VINCENT J. WILLIS, M.I.Mun.E.,
F.R.S.A.I.
Borough Engineer, Surveyor, and
Architect.
Municipal Offices, Duke Street, Chelmsford
27th May, 1949. 1179

LONDON COUNTY COUNCIL.

PLANNING STAFF.

Vacancies in the following grades (some permanent):—

- PLANNING OFFICER, Grade I, £840 to £960 a year.
PLANNING OFFICER, Grade II, £700 to £840 a year.
PLANNING OFFICER, Grade III, £550 to £700 a year.
TECHNICAL ASSISTANT (a), £440 to £580 a year.
TECHNICAL ASSISTANT (b), 55s. to 167s. 6d. a week.

Candidates for Grade III positions and above should possess architectural, surveying or town planning qualifications, and will be engaged on either (a) Research; (b) Development Plan, and Survey; (c) Development applications, or (d) Reconstruction Areas and detailed planning.

Full particulars and forms of application obtainable from the Architect to the Council (AR/P/P), The County Hall, Westminster Bridge, S.E.1 (enclose stamped addressed foolscap envelope). Canvassing disqualifies. (193) 899

LONDON COUNTY COUNCIL.

HammerSmith School of Building and Arts and Crafts, Lime Grove, W.12, required to commence as soon as possible in the Senior Building School:—

(a) A SENIOR ASSISTANT LECTURER, to be responsible to the Head of the Department for the Building and Quantity Surveying section, preparing students for the R.I.C.S. examinations. Applicants should be Corporate Members of the R.I.C.S., with practical experience—some teaching experience desirable.

The salary is that of the Burnham Technical Scale for Senior Assistants, which ranges in London for a man from a minimum of £736-£838, rising by £25 a year to a maximum of £848-£953, according to age, qualifications and experience.

(b) A LECTURER IN BUILDING CONSTRUCTION and allied subjects. Applicants should hold A.R.I.B.A. or similar qualifications, and have practical experience; some teaching experience desirable.

(c) TWO STUDIO MASTERS in the Architectural section, preparing students for the Inter. and Final examinations of the R.I.B.A. Applicants should hold A.R.I.B.A. and have preferably been trained at a "recognized" school of Architecture.

The salary for posts (b) and (c) is that of the Burnham Technical Scale for Assistants, which ranges in London for a man from a minimum of £336-£593 to a maximum of £603-£708, according to age, qualifications, and experience.

In all the appointments, reasonable facilities will be afforded for private practice, provided it does not interfere with normal duties.

Application forms, returnable within seven days of the publication of this notice, are obtainable by sending a stamped addressed envelope to the Secretary at the School.

Please state post for which application is made. (715) 1214

WARWICKSHIRE COUNTY COUNCIL.

COUNTY ARCHITECT'S DEPARTMENT.

Applications are invited for the undermentioned appointments on the established staff:—

ASSISTANT ARCHITECTS. Grade V, £620-

£570 per annum.

ASSISTANT ARCHITECTS. Grade IV, £480-

£525 per annum.

ARCHITECTURAL ASSISTANTS. Grade III,

£450-£495 per annum.

ARCHITECTURAL ASSISTANTS. Grade II,

£420-£465 per annum.

The appointments are subject to the provisions of the Local Government Superannuation Act, 1937, and the successful applicants will be required to pass a medical examination.

Application forms can be obtained from C. H. Elkins, F.R.I.B.A., A.R.I.C.S., Shire Hall, Warwick.

L. EDGAR STEPHENS,

Clerk of the Council.
Shire Hall, Warwick. 1172

MANCHESTER MUNICIPAL COLLEGE OF TECHNOLOGY

(FACULTY OF TECHNOLOGY IN THE UNIVERSITY OF MANCHESTER).

APPOINTMENT OF ASSISTANT LECTURER IN STRUCTURAL ENGINEERING.

The Governing Body invites applications for an ASSISTANT LECTURESHIP IN STRUCTURAL ENGINEERING in the College of Technology, with the title and status of Assistant Lecturer in the University of Manchester.

Candidates should be graduates in Science or Technology and should possess a good knowledge of the Theory of Structures. The person appointed will be required to undertake research work on Structures and to assist in lecturing and laboratory work in Structural Engineering and Building Science.

Salary scale: £500 per annum, rising by annual increments of £20 to £580, with commencing salary according to qualifications. Superannuation is covered by the F.S.S.U. scheme.

Conditions of appointment and form of application may be obtained from The Registrar, College of Technology, Manchester, 1. The last day for the receipt of applications is Tuesday, 12th July, 1949.

Canvassing, either directly or indirectly, will disqualify a candidate for appointment.

J. E. MYERS,

Principal of the College. 1215

LONDON COUNTY COUNCIL.
SCHOOLS ARCHITECT required. A.R.I.B.A. Contemporary designer. Able to organise a programme. Salary up to £1,500, with prospects. Also **ASSISTANT ARCHITECTS**, up to £700. Application form and particulars from the Architect to the Council, The County Hall, S.M.L. (712) 1211

SOMERSET COUNTY COUNCIL.
COUNTY PLANNING DEPARTMENT.
Applications are invited for the following permanent appointments:—

(a) **AREA PLANNING OFFICER**, in the Yeovil Area Office. Salary within the scale £760-£225 to £860.

(b) **PLANNING ASSISTANT**, A.P.T., IV, £480-£215 to £255.

(c) **THREE JUNIOR PLANNING ASSISTANTS**, A.P.T., I, £390-£15 to £435, and

(d) **JUNIOR SURVEYING ASSISTANT**, A.P.T., I, £390-£15 to £435.

Applicants for (a) must be Members or Associate Members of the Town Planning Institute, have had good experience in a planning department for a large area, including towns and countryside, and have administrative ability. Additional qualifications and experience in architecture, engineering or surveying will be an advantage. Commencing salary according to qualifications and experience. (b) Must have had good general experience in Town and Country Planning and should possess a recognized professional qualification. (c) Should have been trained in the office of an architect, engineer or surveyor, and have been accepted for studentship of a recognized Professional Institution. (d) Should have had extensive experience in the revision of Ordnance Survey Maps and surveying generally, and should be able to drive a car.

All the appointments are subject to the provisions of the Local Government Superannuation Act, 1937. Forms of application obtainable from the undersigned must be completed and returned not later than 28th June, 1949.

R. W. DALE,

County Planning Officer.

41, Upper High Street, Taunton. 1205

COUNTY OF ESSEX.
ILFORD COMMITTEE FOR EDUCATION.
The Essex County Council invite applications for a **SECTIONAL ASSISTANT ARCHITECT**, in the Office of the Borough Engineer of Ilford.

Applicants should be Members of the Royal Institute of British Architects and have had considerable experience in the planning, designing, construction and supervision of School buildings, and have had administrative experience.

The scale of salary will be in accordance with the National Joint Council, A.P.T. Division, Grade VII, £635-£225 to £710, plus the appropriate London area allowance. There will also be paid such travelling and subsistence allowances as may from time to time be determined by the Council.

Applications should be made on a form to be obtained from, and returned to, the Borough Education Officer, Education Offices, Town Hall, Ilford, together with copies of not more than three recent testimonials, within 14 days of the appearance of this advertisement. 1170

CITY OF SALFORD.
Applications are invited for the appointment of **ARCHITECTURAL ASSISTANT** in the Architects' Department. Salary, Grade V, £520 to £570.

Candidates should be Associates of the Royal Institute of British Architects or hold an equivalent qualification, and should possess a sound experience in design and construction, and also be experienced in the management of building contracts.

The appointment will be subject to:—

(a) The Conditions of Service of the National Joint Council as adopted by the City Council;

(b) the provisions of the Local Government Superannuation Act, 1937;

(c) the passing successfully of a medical examination;

(d) the Standing Orders of the Council.

Applications, stating age, qualifications and experience, together with particulars of past and present employment—accompanied by copies of two recent testimonials—should be forwarded in envelopes endorsed "Architectural Assistant," addressed to the City Engineer and Surveyor, Town Hall, Salford, 3, and be delivered not later than Saturday, 18th June, 1949.

Applicants must disclose, in writing, whether or not they are related to any member of the Council or an officer of the Authority.

H. H. TOMSON, Town Clerk.

1171

COUNTY BOROUGH OF HALIFAX.
BOROUGH ENGINEER'S DEPT.
APPOINTMENT OF BUILDING INSPECTOR.

Applications are invited for the above appointment, at a salary in accordance with A.P.T., I, of the National Scale, namely, £390-£435 per annum. The appointment is subject to the Superannuation Act, 1937.

Applicants should possess an appropriate Technical Certificate and should have had previous experience as a Building Inspector.

Applications, stating age, qualifications, present position, salary and experience, accompanied by copies of three recent testimonials and appropriately endorsed, should be delivered to the undersigned not later than Saturday, 18th June, 1949.

R. de Z. HALL,

Town Clerk.

Town Hall, Halifax.

24th May, 1949. 1166

SALOP COUNTY COUNCIL.
COUNTY ARCHITECT'S DEPARTMENT.
Applications are invited for the appointment of a **SENIOR ASSISTANT ARCHITECT**, to act as a Senior Section Head, on A.P.T., Grades VII-VIII (£635 to £760 per annum). Applicants must be Registered Architects and Members of the R.I.B.A.

The appointment will be subject to one month's notice in writing on either side; 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.

Application forms may be obtained from the County Architect, A. G. Chant, F.R.I.B.A., 5, Belmont, Shrewsbury, to whom they must be returned, accompanied by copies of not more than three recent testimonials, not later than Tuesday, 21st June, 1949.

G. C. GODBER,

Clerk of the Council.

Shrewsbury. 1103

COUNTY COUNCIL OF THE COUNTY OF STIRLING.

APPOINTMENT OF ARCHITECTURAL ASSISTANT.

Applications are invited for the appointment of an Architectural Assistant (Education) in the County Architect's Department.

The Scale of Salary will be J.I.C. Scale, Grade V(a), £550-£610 per annum, which includes cost-of-living bonus.

Candidates should preferably be Associate Members of the Royal Institute of British Architects and have had good experience in general architectural work, with particular reference to School Planning and Design and in the Preparation of Working Drawings and Specifications.

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

Applications, together with copies of three recent testimonials, should be forwarded (marked "Architectural Assistant") to the County Clerk, Viewforth, Stirling, within 14 days of the last appearance of this advertisement.

GEORGE J. SHERRIFF,

County Clerk.

County Offices, Viewforth, Stirling. 1163

CIVIL SERVICE.

QUANTITY SURVEYORS AND ASSISTANT QUANTITY SURVEYORS are required throughout the United Kingdom by the Ministry of Works, Admiralty, War Department, Air Ministry and War Damage Commission, and occasionally overseas by the Admiralty, Air Ministry and War Department. Although these are not established posts, some of them have long term possibilities, and competitions are held periodically to fill established vacancies.

Salaries for these professional posts in London for officers over 25 years of age range from £500 per annum, they are slightly lower in the provinces. Salary on entry will be in accordance with age, qualifications, and experience.

Vacancies also exist for **QUANTITY SURVEYING ASSISTANTS** and others having some experience in a quantity surveyor's office, at salaries ranging from £300 p.a. upwards.

Applicants should write, quoting ref. J.Q.S., to Room 377, Ministry of Labour and National Service, Technical and Scientific Register, York House, Kingsway, W.C.2. 1195

WILTS COUNTY COUNCIL.

ASSISTANT ARCHITECT.

Applications are invited for the appointment of Assistant Architect on the staff of the County Architect's Department. Salary on Grade V of the A.P.T. Division of the National Scales (£520-£570 per annum).

Candidates should be suitably qualified and preferably have had experience of the planning, design and construction of educational buildings and other architectural work undertaken by a local Authority.

The appointment is superannuable, subject to medical examination, and terminable by one month's notice on either side.

Canvassing disqualifies.

Forms of application may be obtained from the County Architect, County Hall, Trowbridge, and should be delivered to him within two weeks from the date of the publication of this advertisement.

P. A. SELBORNE STRINGER,

Clerk of the County Council.

County Hall, Trowbridge, Wilts.

20th May, 1949. 1194

SOUTH-WESTERN REGIONAL HOSPITAL BOARD.

ARCHITECT'S DEPARTMENT.

Applications are invited for two posts of **JUNIOR ARCHITECTURAL ASSISTANTS** to the Board. The successful candidates will be on the staff of the Board's Architect, and should be Associate Members of the R.I.B.A. Candidates should live in or near Bristol. The initial salary will be on the scale A.P.T., Grade III, i.e., £450-£215-£495, or according to age and experience.

Applications, stating age and qualifications, together with the names of two referees, should reach the Secretary of the Board, 5/6, Cotham Lawn Road, Bristol, 6, not later than 28th June, 1949. 1182

LONDON COUNTY COUNCIL.
VACANCIES FOR TEMPORARY CLERKS OF WORKS IN ARCHITECT'S DEPARTMENT.
Applications are invited for Temporary Clerks of Works to supervise the work of painting and cleaning contracts at Schools from July to September, 1949, for a period of 10 weeks.

Rate of pay up to £10 10s. per week.

Application forms from the Architect (A.P./C/W), County Hall, Westminster Bridge, S.E.1, enclosing stamped addressed foolscap envelope. Canvassing disqualifies. (655) 118

COUNTY OF MONMOUTH.

COUNTY PLANNING COMMITTEE.

Applications are invited for the following appointments in the County Planning Department:—(a) **ONE PLANNING ASSISTANT**, Grade III. Salary £450, rising by annual increments of £15 to £495 (A.P.T., III). (b) **TWO DRAUGHTSMEN**. Salary according to age, £15 at 15 years of age, rising by annual increments to £385 at 35 (General Scale). Applicants for appointment (a) should have had a good practical experience in the preparation of Planning Schemes for Urban and Rural Areas and should be suitably qualified. Preference will be given to applicants who have secured the Intermediate examination of the Town Planning Institute or Royal Institute of British Architects, the Royal Institution of Chartered Surveyors, or the Institution of Municipal and County Engineers. Applicants for appointment (b) should be neat and expeditious draughtsmen, tracers and colourists, with experience of work on 1/2,500th and 6 in. to the mile Ordnance Maps. An elementary knowledge of land surveying and levelling will be an additional recommendation. Appointments will be subject to the Local Government Superannuation Act, 1937, and to passing a medical examination, and will be terminable by one month's notice on either side. Applications, stating age, qualifications, training and experience, and giving particulars of past and present appointments, accompanied by copies of two recent testimonials, or, in the case of H.M. Forces, the names of two referees, and endorsed "Planning Assistant" or "Draughtsman," must be delivered to the County Planning Officer, Cambria House, Caerleon, Mon., not later than 20th June, 1949.

VERNON LAWRENCE,

Clerk of the Council.

County Hall, Newport, Mon. 118

URBAN DISTRICT COUNCIL OF CORBY.

ENGINEER AND SURVEYOR'S DEPARTMENT.

Applications are invited for the under-mentioned appointments on the permanent staff of the Council's Engineer and Surveyor:—

(1) **ARCHITECTURAL ASSISTANT** (Grade VI) (£595-£660), with experience of design, quantities and estimating in connection with the erection of buildings, including municipal houses.

(2) **ENGINEERING AND SURVEYING ASSISTANT** (Grade Va) (£550-£610).

(3) **ENGINEERING AND SURVEYING ASSISTANT** (Grade IV) (£480-£525).

Appointments (2) and (3) require good general experience of municipal works and competence in surveying, levelling and draughtsmanship.

Qualifications required for these appointments are:—

No. (1): Chartered Architect or Chartered Surveyor (Building Design).

No. (2) and (3): Chartered Civil or Municipal Engineer or Surveyor.

The Council has extensive works in hand and contemplated, and the appointments will offer wide scope and excellent experience for keen and enthusiastic persons.

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

The provisions of the Local Government Superannuation Act, 1937, will apply.

Forms of application for the respective appointments may be obtained from the undersigned, to whom they must be submitted not later than 9 a.m. on Monday, 20th June, 1949.

G. B. BLACKALL,

Clerk of the Council.

Council Offices, Corby, Northants. 1197

30th May, 1949.

ROYAL BOROUGH OF KINGSTON-UPON-THAMES.

BOROUGH SURVEYOR'S DEPARTMENT.

APPOINTMENT OF ARCHITECTURAL ASSISTANT.

Applications are invited for the appointment of an Architectural Assistant, at a salary in accordance with Grade V of the A.P.T. Division of the National Scale of Salaries, £520, rising by two annual increments of £15 and one increment of £20 to £570, plus London weighting (£30). Preference will be given to candidates who are Members of the Royal Institute of British Architects.

The appointment will be subject to the provisions of the Local Government Superannuation Act, 1937, and the successful candidate will be required to pass a medical examination. The appointment is subject to one month's notice on either side.

Applications, stating age, qualifications and experience, and accompanied by copies of not more than three recent testimonials, must be sent in a sealed envelope endorsed "Architectural Assistant," so as to reach the undersigned not later than 24th June, 1949.

A. W. FORSDIKE,

Town Clerk.

Guildhall, Kingston-upon-Thames. 1206

May, 1949.

HEREFORDSHIRE COUNTY COUNCIL. **COUNTY ARCHITECT'S DEPARTMENT.**

Applications are invited for the following appointments on the permanent staff:—
TWO ASSISTANT ARCHITECTS. Grade VI. A.P.T. Division, £595 to £660 per annum. Applicants must be Associate Members of the R.I.B.A. The appointments will be subject to the provisions of the Local Government Superannuation Act, 1937, and to one month's notice on either side. The successful candidates will be required to pass a medical examination.

Forms of application may be obtained from W. Usher, R.I.B.A. County Architect, County Office, Bath Street, Hereford, by whom completed applications should be received not later than 24th June, 1949. 1217

THE UNIVERSITY OF MANCHESTER.

Applications are invited for the following posts:—
ONE LECTURER IN TOWN AND COUNTRY PLANNING.

ONE TEMPORARY LECTURER IN ARCHITECTURE.

TWO ASSISTANT LECTURERS IN ARCHITECTURE.
Salary scale of Lecturer £500 to £800 per annum. Initial salary according to qualifications and experience. Salary of Assistant Lecturer £450 per annum. Membership of the F.R.S.U. and Children's Allowance Scheme. Applications should be sent not later than 18th July, 1949, to the Registrar, the University, Manchester, 13, from whom further particulars and forms of application may be obtained. 1212

BOROUGH OF ST. MARYLEBONE.

Applications are invited for the appointment of **CHIEF TECHNICAL ASSISTANT**, on the permanent staff of the Housing Department, at salary in accordance with Grade A.P.T. VIII (£465, rising to £760 per annum), plus London weighting.

Applicants should not be more than 40 years of age; must be Associates of the Royal Institute of British Architects; and should have had considerable professional experience in Local Authority housing and be capable of directing and controlling staff.

The appointment, terminable by one month's notice on either side, will be subject to satisfactory medical examination by the Council's Medical Officer; to proof of age by production of birth certificate; to the National Scheme of Conditions of Service as adopted by the Council; and to compliance with the provisions of the St. Marylebone Borough Council (Superannuation) Act, 1908-1936, and any modifications thereof.

Forms of application are not issued, but candidates must write stating age, qualifications, present position and salary, particulars of past appointments, and all other essential information; and giving the names of three referees.

Applications must be received by the Town Clerk, Town Hall, St. Marylebone, W.1, not later than Saturday, the 25th June, 1949.

Canvassing will disqualify. 1216

Partnerships and Financial

4 lines or under, 10s.; each additional line, 1s. 6d.

ESTABLISHED Firm of Architects offers Partnership, with basic salary of £1,000 p.a. and share in profits, to fully qualified and experienced ARCHITECT, with good design ability and capable of controlling drawing staff. Please reply, stating age, training, and experience to Box 1080.

EXPERIENCED ASSISTANT, A.R.I.B.A., age 40, seeks responsible appointment with view to Partnership in private practice; London or Home Counties. Box 1161.

Architectural Appointments Vacant

4 lines or under, 5s.; each additional line, 1s. 6d.

ARCHITECTURAL DRAUGHTSMAN required for large Industrial and Commercial Company in London; should be able to make site surveys, prepare working and detail drawings and specifications; please state age, experience, and salary required. Box 771.

ARCHITECTURAL ASSISTANTS required; one with at least 5 years' office experience, able to take charge of job. Also **JUNIOR ASSISTANT** with some training; office experience desirable, but not essential; salaries according to ability. Welch & Lander, F.R.I.B.A., 38, Gloucester Place, W.1. Welbeck 6551. 1017

DRAUGHTSMAN, Architectural (R.I.B.A.), for Design and Development of Building Schemes; experience in architectural development work necessary. Apply, stating experience and salary required, to Works Engineer's Dept., Austin Motor Co., Ltd., Longbridge Works, Birmingham. 1093

WILL any ASSISTANT, preferring a small private office in an East Midland country town, to a Council Office, please apply to Box 782.

ARCHITECTURAL ASSISTANT of Intermediate standard, required immediately by Firm of Architects in West End of London; salary according to experience and qualifications. Box 1068.

ESTABLISHED Firm of Architects offers salary from £1,200 p.a. to fully qualified and experienced ARCHITECT, with good design ability, and capable of controlling drawing staff. Please reply, stating age, training and experience to Box 1081.

ARCHITECT'S ASSISTANT required in East Midlands office, to work directly under Principals on Local Authority Housing; good opportunity for keen Assistant, with initiative and capable of dealing with Contractors; accommodation available. Box 1149.

WANTED—TWO ARCHITECTURAL ASSISTANTS, with sound constructional knowledge and practical experience; at least Inter. R.I.B.A. standard; accommodation for one Assistant available in August. Gotch, Saunders & Burridge, High Street, Kettering. Telephone 3165. 1150

SENIOR ARCHITECTURAL ASSISTANT required by MacKeith, Dickinson & Partners, Blackpool; Final R.I.B.A. standard. Apply, stating age, experience, qualifications and salary. Box 1151.

ARCHITECTURAL ASSISTANT required in large office (Manchester district); must be fully qualified with general all-round experience; accustomed to responsibility for important works, and developing working drawings, details, etc., from rough sketches and instructions; state age and salary required; copies of two testimonials. Box 1095.

BUSY Romford Architect, who rates experience, knowledge of construction and good draughtsmanship above qualifications, requires an ASSISTANT. Please state salary and details to Box 1101.

ARCHITECTURAL ASSISTANTS, both permanent and temporary, required immediately in expanding practice; keen, accurate draughtsmen, capable of preparing working drawings, specifications, and details from sketch design stage. Apply, with full particulars, to Orman and Scott, F.R.I.B.A., Quarry Hill House, Quarry Street, Guildford. Tel. 5024. 1102

ARCHITECTURAL ASSISTANTS required; Inter. R.I.B.A. standard; £300 per annum. Apply Ronald Ward & Partners, 33, St. George's Drive, S.W.1. 1112

ARCHITECTURAL ASSISTANTS required immediately for interesting and varied work on Schools, Hospitals, University Buildings, Housing, etc.; salary dependent on experience or qualifications. Apply personally, by telephone or in writing, Pile Son & Fairweather, Chartered Architects, 6, Queen Anne's Gate, Westminster, S.W.1. Whitehall 5576. 1115

ARCHITECT'S ASSISTANT required for Bloomsbury office; Intermediate standard. Write, stating experience and salary required. Box 1024, c/o 7, Coptic Street, W.C.1. 1141

ARCHITECT'S ASSISTANTS (Senior and Junior); positions in Architect's office in West End; extensive programme in connection with Road Transport Undertakings. Apply Alan A. Briggs, F.R.I.B.A., 15, Carzon Street, London, W.1. Telephone GRO. 4151. 1131

REQUIRED, in Architect's office with a varied practice, good ARCHITECTURAL DRAUGHTSMAN, with designing ability and some knowledge of specification writing; salary up to £400, according to experience. Reply, giving full details, to Lambert & Oliver, Chartered Architects, Bridport. 1139

QUALIFIED SENIOR ASSISTANT (£750-£1,000 per annum) and JUNIOR ASSISTANTS (£350-£500 per annum) required for small office doing mostly houses, shops and exhibition work, including work for Festival of Britain, 1951; previous office experience and interest in modern design essential. Apply Brian Peake, F.R.I.B.A., 13, Dover Street, W.1. Regent 4914. 1202

ARCHITECT to London Brewery requires ASSISTANTS; good draughtsmen and experience in surveys; salaries according to ability. Reply, stating age, qualifications and experience, to Box 1209.

QUALIFIED and Intermediate standard ARCHITECTURAL ASSISTANTS required for modern Architects. Apply James Cubitt & Partners, 25, Gloucester Place, W.1. Welbeck 5953. 1208

ARCHITECTURAL ASSISTANTS (one Senior and one Junior); also **JUNIOR QUANTITY SURVEYOR**. Barnard & Partners, 13, Imperial Square, Cheltenham. 1207

ARCHITECTURAL ASSISTANT required; Leeds area; must be experienced in working drawings, details, levelling, etc. Write, stating age, experience, and salary required, Box 1183.

ARCHITECTURAL DRAUGHTSMAN required immediately in Construction Department of large Industrial Company in Central London; age 21/25; must be neat draughtsman, with good knowledge of building construction; able to prepare working drawings from sketch plan; successful candidate will be appointed to established staff. Reply, stating experience and salary required, to Box 1185.

ARCHITECT'S ASSISTANT required; must be a good draughtsman; working drawings, details, and good knowledge of construction; experience in supervision an asset. Write, stating previous experience and salary required, to H. S. Goodhart-Kendel & Partners, 13, Crawford Street, W.1. 1159

ARCHITECTURAL ASSISTANT, about Intermediate standard, required immediately—W.3 area; working drawings and some knowledge of war damage an advantage. Apply, stating full particulars, salary, etc., to Box 1164.

SENIOR ASSISTANT, preferably qualified as Architect and Building Surveyor, required for large London practice; capable of seeing jobs through to completion; car provided. Telephone London Wall 5547 or write Box T.H.R., c/o 35, Bishopsgate, E.C.2. 1192

EASTON & ROBERTSON require two or three responsible ARCHITECTURAL ASSISTANTS of experience for senior posts in connection with new work of long term and interesting character. Apply in first instance to Secretary, Easton & Robertson, 54, Bedford Square, W.C., for interview. 1213

JUNIOR ARCHITECTURAL ASSISTANT, Intermediate standard, wanted by large Property Owning Company; experience of working drawings and detailing essential. Write, stating age, experience, and salary required, to Architect, A. & G.D. Co., Ltd., 1, Cromwell Road, S.W.7. 1219

CROYDON Firm of Architects require an ARCHITECTURAL ASSISTANT of Intermediate standard; salary according to ability. Box 1218.

Architectural Appointments Wanted

ARCHITECT'S ASSISTANT (23) seeks appointment in progressive Provincial office; 7½ years' varied experience; capable of preparing working drawings, detailing, etc.; studying for R.I.B.A. Special Final. Box 304.

A. R.I.B.A. A.M.T.P.I. (34), Soane and Victory finalist, 10 years' office experience, 5 years' distinguished war service, requires interesting and responsible job, London, or, with accommodation, anywhere; salary £800 p.a. Box 301.

CHIEF ASSISTANT (Associate) desires permanent responsible position; accustomed to complete charge of large building contracts, and staff supervision; wide experience in housing and public buildings. Box 306.

ARCHITECTURAL ASSISTANT, with 20 years' practical experience in large industrial works, general and domestic work, capable of preparing working and detail drawings, supervising of large jobs, specifications desires job in responsible permanent position. Box 295.

Other Appointments Vacant

4 lines or under, 5s.; each additional line, 1s. 6d.

CAPABLE DRAUGHTSMAN required for busy Winchester Architects' office (Male); salary offered £250-£350 p.a., according to experience. Write, with copies of three testimonials, to Box 1079.

REDFERN'S RUBBER WORKS, LTD., Hyde, Cheshire, are planning the reintroduction of a comprehensive service in the manufacture and installation of Rubber Floors, and applications for the following positions are invited from experienced men:—

DEPARTMENTAL MANAGER. Fully competent in sales administration, and with an intimate knowledge of all aspects of Rubber Flooring work.

DRAUGHTSMEN and DESIGNERS. All applications are to be addressed to the Personnel Manager.

This advertisement appears by permission of the Ministry of Labour and National Service under the Control of Engagement Order, 1947. 1094

APPLICATIONS are invited for the position of **RESIDENT ENGINEER or SENIOR CLERK OF WORKS**, to supervise the erection in Jamaica of first stage of the University College of the West Indies; applicants should have had experience of supervising large building projects as resident engineer or contractor's agent; must be familiar with contract documents normally used in U.K., and be capable of organizing site office, including carrying out site tests on concrete, etc.; age 35 to 55; appointment is for three years; salary from £1,200 per annum, according to experience; passage allowance will be paid at start and end of appointment. Applications in writing, giving full particulars, including qualifications, experience, and age, to be received not later than 4th July. 1180

APPPLICATIONS are invited for the position of ASSISTANT CLERK OF WORKS, to supervise the erection in Jamaica of the first stage of the University College of the West Indies; applicants must have had previous experience of Clerk of Works on large building contracts and be capable of using a dumpy level; the appointment will be for two or three years; age between 30 and 50; salary between £700 and £900 per annum; passage allowance will be paid at start and end of appointment. Applications in writing, giving full particulars, including qualifications, experience, and age, to be received not later than 4th July. 1181

BUILDER requires QUANTITY SURVEYOR, for preparation of final accounts and site measurements; state fully experience, age, and remuneration. Smith Bros. (Construction), Ltd., 261, Stratford Road, Sparkbrook, Birmingham, 11. 1165

CLERK OF WORKS required to supervise general building works in Greater London area; able to drive car. Apply Ley, Colbeck & Partners, Palmerston House, 51, Bishopsgate, E.C.2. Tel.: London Wall 2917. 1174

GOOD DRAUGHTSMAN required for general architectural practice. Apply Ley, Colbeck & Partners, London Wall 2917. 1175

REPRESENTATIVE required, with good connection among Architects, by Steam Cleaning Company; good prospects for the right man. Write in first instance, giving full particulars, to Crawley Bros., Ltd., 37, Catherine Place, London S.W.1. 1197

Services Offered

4 lines or under, 2s. 6d.; each additional line, 1s.

DESIGNS, Plans, Perspectives, for all trades and professions. Phone C. Leslie New, A.N.I.S.T.E., MID. 5421. 683

DRAUGHTSMANSHIP, Designing and Artistry for Architectural Metalwork, Shopfronts, Interiors, Neon Signs, Display, etc. "New" Services, 85, Heath Street, Birmingham 18. Phone MID. 5421. 684

COMPETENT Secretaries, Shorthand Typists, Clerks, Book-keepers, Telephonists, etc., supplied. Adelphi Secretarial Agency, 158, High Holborn, W.C.1. Holborn 7175. 819

WOOD-CARVING of every description by Expert Craftsmen. F. W. Miles, "Grindelford," Thwaite Street, Cottingham, E. Yorks. Tel. No. 47219. 799

EXPERT Assistance offered to Architects for Building and Land Surveys, Levelling, Contouring, etc.; own car and full equipment. Box 936.

ASSISTANCE offered by Building Surveyor with own office, car, and equipment to Architects and Surveyors; also to owners of Buildings of Architectural and Historic Interest in the preparation of accurate detailed records; terms by arrangement. Box 1003.

QUALIFIED ASSISTANT, living N.W. London, requires spare-time work, preferably at home; Surveys, Sketches, Working Drawings, etc. Box 1125.

UPHOLSTERY WORK.—Estimates for hotel and ship contract work supplied promptly; button, quilted and reproduction work a speciality; Architect's enquiries receive the personal attention of a director; export enquiries invited. Box 1126.

SENIOR ASSISTANT, A.R.I.B.A., will undertake spare-time work for Architects; working drawings, details, tracings and perspectives. Box 1190.

BUILDING SURVEYOR (25), sitting for the Final examination of the R.I.C.S. during March, 1950, requires progressive position in a Chartered Architect's or Surveyor's office, in or near London; salary required £468 per annum. Box 1160.

QUALIFIED SENIOR ARCHITECTURAL ASSISTANT offers spare-time assistance to Architects; interviews after 5 p.m., except Fridays 5.30 p.m., and Saturdays 12.30 p.m. Mondays not available. Box 1177.

For Sale

4 lines or under, 5s.; each additional line, 1s. 6d.

THOROUGHLY seasoned 1 in. and 1½ in. Oak for Sale from 3s. 6d. per cub. ft.; also 1½ in. Elm. Timberies, Ltd., Oozells Street, Birmingham, 1. 705

BUCKFAST, DEVON.—A group of Five old Cottages, dated 1759 or earlier, suitable for conversion; situate opposite Buckfast Abbey; lease or sale. For further particulars apply Michelmore, Loveys & Sons, F.A.I., Land Agents, Highweek Street, Newton Abbot, Devon. 1184

TWO 40-in. power developing Machines for "DYALYN" type prints (one with variable speed control, by Haldens). Offers to Myton, Ltd., Hull. 1162

Miscellaneous

4 lines or under, 5s.; each additional line, 1s. 6d.

A. J. BINNS, LTD., Specialists in the supply and fixing of all types of fencing, guard rail, factory partitions and gates. Harvest Works, 96, 107, St. Pauls Road, N.1. Canbury 3561.

THE ARCHITECTURAL PRESS would like to have the opportunity of purchasing or borrowing for a short period copies of the special "Public Houses" issue of the "Architects' Journal," published on November 24, 1938, that Architects may be able to spare from their files. Box 292.

OIL-FIRED BOILERS mean no stoking, extra cleanliness, even temperature thermostatically controlled, resulting in economical use. Complete change-over within few days by Rissia Britain's Best Burner, The "Parwina." Fully automatic Oil Burner. Ask for List OBB8, Parker, Winder & Achurch, Ltd., 80, Broad Street, Birmingham, 1.

FRANCE.—An English Architect, resident in France, is organizing tours for Students and others; 12 days, Paris, Versailles, Tours, Blois, Chateaux of the Loire, Fontainebleau, Senlis, Beauvais, Compiègne, Chartres, etc.; departures: August 3rd, 22nd, September 5th; fully inclusive, 33 guineas. Prospectus from R. Walker, A.R.I.B.A., 2, Chesterfield Hill, London, W.1. 1203

LONDON Architects require approx. 800 sq. ft. Office Accommodation; 2 mile radius Charing Cross. Apply Box 1178.

WANTED urgently, to purchase, "Focus" No. 4, 1939; "School Design & Construction, 1948," by I.A.C.C., and "Architectural Forum" issues September, October, December, 1948, and January, February and April, 1949. Box 1199.

Educational Announcements

4 lines or under, 5s.; each additional line, 1s. 6d.

R. I.B.A. AND T.P.I. EXAMINATIONS.—Mr. I. Stuart Stanley, M.A., F.R.I.B.A., Dist.T.P., M.T.P.I. Tutor in the Bartlett School of Architecture, London University, prepares candidates by correspondence tuition, 15, North Road, N.6. Tel.: MOUntview 5104.

MAXHEAT OVAL

TUBULAR ELECTRIC HEATERS

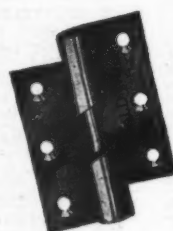


SEND FOR
CATALOGUE
H257/9.

The Streamline
OVAL MAKES THE
DIFFERENCE

The
WARDLE ENGINEERING Co. Ltd.
Old Trafford Manchester 16.
London Office:
34 Victoria Street, S.W.1
London Stockists:
G. S. Peckham & Co. Ltd., 3, New
Compton Street, W.C.2.

dm WA 18



★ RISING TO FAME BALDWIN'S

★
Cast iron rising hinges

Sole Manufacturers:
BALDWIN, SON & CO. LTD., STOURPORT-ON-SEVERN

the modern SCHOOL

by C. G. STILLMAN, F.R.I.B.A. and R. CASTLE CLEARY, A.R.I.B.A.

This book gives a comprehensive account of the architectural and building problems which face educationalists today. It surveys the whole field beginning with the historical background and ending with a chapter on modern constructional design; it examines the contemporary architectural problem in relation to the Education Act and deals with each special aspect of school design in detail. It is a book designed to be of value to all education officers and local education authorities as well as to practising architects. The book contains 132 pages including about 120 photographs and plans. Its size is 9½ in. by 7½ in., and it is bound in cloth. Twenty-one shillings, postage ninepence.

THE ARCHITECTURAL PRESS
9-13 Queen Anne's Gate, S.W.1.

R I B A INTER, FINAL & SPECIAL FINAL.
Postal Courses in all subjects of the examination syllabus (including Professional Practice) are conducted by **THE ELLIS SCHOOL OF ARCHITECTURE**
Principal; A. B. Waters, M.B.E., G.M., F.R.I.B.A.
10, ALBANY HOUSE, WORCESTER.
London Office: 103, Old Brompton Road, S.W.7

QUALIFYING EXAMINATIONS
R.I.B.A. AND T.P.I.
INTER & FINAL FINAL
Courses of Instruction by Correspondence and Personal in Studio
C. W. BOX
F.R.I.B.A., A.I.S.T.R.U.C.T.E., M.R.S.A.N.I.
115 GOWER STREET, W.C. Euston 3906

DRAUGHTSMAN
wanted with considerable experience of Steel Windows
Apply personally or by letter to the
MORRIS SINGER CO.
FERRY LANE WORKS, FOREST ROAD, WALTHAMSTOW, E.17

DRAUGHTSMAN DESIGNER
with first class experience of Architectural Metal and Pressed Steel Work required by the **MORRIS SINGER CO.**
Apply giving full particulars to:-
FERRY LANE WORKS, FOREST ROAD, WALTHAMSTOW, E.17

PHOTOGRAPHY
Architectural & Industrial
Douglas Pike
725a, Green Lanes,
Winchmore Hill,
London, N.21
Phone: Laburnum 5969

FIBROUS PLASTERWORK OF EVERY DESCRIPTION
ALLIED GUILDS
King Edward Square,
SUTTON COLDFIELD. Tel.: Sut 3809

OVERSEAS ARCHITECTURE

| | |
|---|----------|
| American | per year |
| "ARCHITECTURAL FORUM" (Monthly) | 60s. 0d. |
| "ARCHITECTURAL RECORD" (Monthly) | 32s. 6d. |
| "PROGRESSIVE ARCHITECTURE" (Monthly) | 30s. 0d. |
| Continental | |
| "DOMUS" (Italian; 6 p.a.) | 60s. 0d. |
| "L'ARCHITECTURE D'AUJOURD'HUI" (French; 6 p.a.) | 63s. 0d. |
| "L'ARCHITECTURE FRANCAISE" (French; monthly) | 63s. 0d. |
| "WERK" (Swiss; monthly) | 48s. 0d. |

by annual subscription through
STOBART & SON LTD.
9, Victoria Street, London, S.W.1

INFORMATION SHEETS on Draughtsmanship and Drafting Practice
Issued by Eagle Pencil Company provide a comprehensive source of reference, and are valuable in assisting the standardisation of drafting practice throughout an individual office. Copies on request to: Eagle Pencil Co., Tottenham N.17
Makers of Chemi-sealed TURQUOISE Pencils

MODELS ESTAB. 1883.
BY
John B. THORP
FOR 98 GRAY'S INN ROAD, W.C.1
TOWN PLANNING PUBLIC BUILDINGS ESTATES and INTERIORS
TELEPHONE: HOLBORN 1011

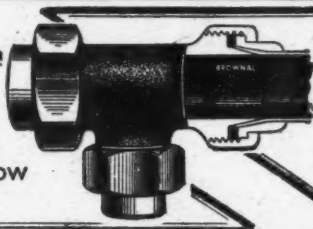
STEELWORK BY
R.W. SHARMAN LTD.
Head Office: The Parade, Sunbury-On-Thames, Middlesex
Works: Swan Works, Hanworth, Middlesex
Phone: Sunbury 3210, Feltham 3007.
Telegrams: Sharman, Sunbury and at Hayes, Middlesex.
(All communications to be addressed to Head Office.)

ELLISON Starters
for ELECTRIC MOTORS Give Unfailing Service
Made by GEORGE ELLISON & SONS, 22 B. Birmingham.

- and *Sommerfeld* make **ROOF TRUSSES** as well
K.J. & A. SOMMERFELD LTD. WELLINGTON, SHROPSHIRE. phone 831 (5 lines)

SAMPLES AND PRICES FREE ON REQUEST

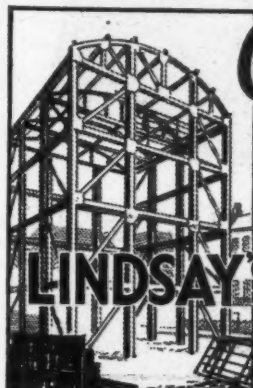
Phone: DEA 4754
Grams: DONABROW



THE BROWNALL JOINT FOR LIGHT GAUGE COPPER PIPES

Extensively used on Government and Municipal buildings, Hospitals, Baths, Hotels, Factories and Housing Estates. Brownall Joints withstand every scientific and practical test. Expert technical service for Architects always available.

DONALD BROWN (Brownall) LTD. Lower Moss Lane, MANCHESTER 15



CONSTRUCTIONAL ENGINEERING

LINDSAY'S PADDINGTON IRONWORKS LTD

41 NORTH WHARF RD., PADDINGTON, LONDON, W.2

Telephone: PAD 8486/7 Telegrams: LINDSAY'S PADDINGTON 8486



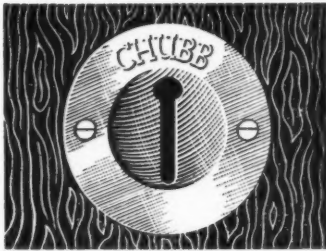
Alphabetical Index to Advertisers

| | PAGE | | PAGE | | PAGE |
|--|---------|--|--------|---|---------|
| Adams, Robt. (Victor), Ltd. | liii | Electrolux, Ltd. | xxxix | Northern Aluminium Co., Ltd. | ix |
| Aldas Electric, Ltd. .... | ..... | Ellis School of Building | lxi | Paragon Glazing Co. Ltd. .... | ..... |
| Allied Ironfounders, Ltd. .... | ..... | Ellison, George, Ltd. | lxi | Park Foundry | vii |
| Allied Guilds | lxi | English Joinery Manufacturers' Association ..... | ..... | Permaceam Paint Co., Ltd. | lix |
| Anderson Construction Co., Ltd. .... | ..... | Finch, B., & Co., Ltd. .... | ..... | Pike, Douglas | lxii |
| Anderson, D., & Son, Ltd. .... | ..... | Formacore, Ltd. | liiii | Pikington Bros., Ltd. .... | ..... |
| Anglo Control, Ltd. | xxxviii | Fullwood & Bland, R. J. Ltd. | lxliii | Proctor, J., Ltd. | liv |
| Aspot Gas Water Heaters, Ltd. .... | ..... | Gas Council, The ..... | ..... | Radiation, Ltd. .... | ..... |
| Ashley Accessories, Ltd. | lii | General Accessories Co., Ltd., The | xxviii | Range Boilers, Ltd. | xiv |
| Austin-Hall Group of Companies, The | xxiv | Gillett & Johnston, Ltd. | lii | Rawlplug Co., Ltd., The | xxxv |
| Baldwin, Son & Co., Ltd. | ix | Griffiths Bros., Ltd. .... | ..... | Redhill Tile Co., Ltd. .... | ..... |
| Bath Cabinet Makers & Artcrafts, Ltd. .... | ..... | Gypsum Mines, Ltd. | lxliii | Rippers, Ltd. | xlvi |
| Blundell, Spence Co., Ltd. | xxxvii | Hall, J., Ltd. .... | ..... | Ruberod Co., Ltd. | iv |
| Boulton Paul, Ltd. .... | ..... | Hammond & Champ, Ltd. .... | ..... | Sadd, John & Sons, Ltd. | xxiii |
| Box, C. W., F.R.I.B.A. | lxi | Harvey, G. A., & Co. (London), Ltd. | -i | Sanders, Wm., & Co. (Wednesbury), Ltd. | xiv |
| Bratt, Colbran, Ltd. .... | ..... | Hope, Henry, & Sons, Ltd. | xxxii | Sankey, J. H., & Son, Ltd. | xxvii |
| Briggs, Wm., & Sons, Ltd. .... | ..... | Imperial Chemical Industries, Ltd. | v | Scaffolding (Great Britain), Ltd. | x |
| Britannia Rubber & Kampulicon Co., Ltd. | lii | Jenkins, Robt., & Co., Ltd. | li | Sealcrete Products, Ltd. .... | ..... |
| British Electricity Authority | xlii | Kent, John (London), Ltd. | xiv | Secomastic, Ltd. .... | ..... |
| Britvic Electrical Co., Ltd. | xli | Hersons Manufacturing Co., Ltd., The | xliv | Semtex, Ltd. | xxxviii |
| Broad & Co., Ltd. | xli | Kingfisher, Ltd. .... | ..... | Sharnan, R. W., Ltd. | lxi |
| Broughton, J., & Son (Engineers), Ltd. | liii | King, George W., Ltd. .... | ..... | Smith's Fireproof Floor, Ltd. .... | ..... |
| Brown, Donald (Brownall), Ltd. | lxi | Kwikform, Ltd. | xi | Sommerfeld, K. J. & A., Ltd. | lxii |
| Cargo Fleet Iron Co., Ltd. .... | ..... | Laerford Products, Ltd. | lxiv | Stamford Trading Co., Ltd. | xxix |
| Carlton Metal Mouldings Co., Ltd. | xlvi | Laing, John, & Son, Ltd. .... | ..... | Stobart & Son, Ltd. | lxi |
| Carter & Co., Ltd. .... | ..... | Leaderfish, Ltd. | xvi | Stuart's Granolithic Co., Ltd. .... | ..... |
| Celotex, Ltd. | xxii | Lead Industries, Ltd. .... | ..... | Sundala Board Co., Ltd. | ix |
| Cement Manufacturers' Association | xxv | Limer & Trinidad Lake Asphalt Co., Ltd. .... | ..... | Sutcliffe Specialties, Ltd. .... | ..... |
| Central Office of Information ..... | ..... | Lindsay's Paddington Ironworks (1948), Ltd. | xlili | Taylor, Robt., & Co. (Ironfounders), Ltd. | liii |
| Chubb & Son, Lock & Safe Co., Ltd. | lxliii | Ltd. | lxi | Thermaxcoat, Ltd. | xlvi |
| Claygate Fireplaces, Ltd. | xlvi | London Brick Co., Ltd. .... | ..... | Thompson Beacon Windows, Ltd., John Thorp, John B. | lxi |
| Cloakroom Equipment, Ltd. | lxii | Mallinson, Wm., & Sons, Ltd. | xxxvii | T.I. Aluminium, Ltd. .... | ..... |
| Colt, W. H. (London), Ltd. | viii | Marble Tile Co., Ltd., The ..... | ..... | Trefol, Ltd. | xlv |
| Conquest Ltd., Ltd. | lxliii | Mathews & Yates, Ltd. .... | ..... | Turner, Chas. | xlili |
| Copper Development Association ..... | ..... | McKechnie Bros., Ltd. | xlili | Twistell Reinforcement Co., Ltd. .... | ..... |
| Courtney Pope, Ltd. .... | ..... | Metropolitan-Vickers Electrical Co., Ltd. | xi | Val de Travers Asphalt Paving Co., Ltd. .... | ..... |
| Crittall Manufacturing Co., Ltd., The .. | xvii | Mills Scaffold Co., Ltd. | li | Versil, Ltd. .... | ..... |
| Davidson, C., & Sons, Ltd. | xliv | Morris Slinger Co. .... | ..... | Walpamur Co., Ltd., The | vi |
| Dawnays, Ltd. .... | ..... | Neuchatel Asphalt Co., Ltd. | xxxv | Wardle Engineering Co., Ltd., The ..... | ..... |
| Dreadnought Fireproof Doors, Ltd. .... | ..... | Nilecode | xxvii | Ward, Thos. W., Ltd. | xv |
| Dunbrink, Ltd. .... | ..... | Norman ..... | ..... | Wellington Works ..... | ..... |
| Dunlop Rubber | lxi | North British Chemical Co., Ltd. | xlii | Williams, John, & Sons (Cardiff), Ltd. .... | ..... |
| Eagle Pencil Co., Ltd. .... | ..... | North British Rubber Co., Ltd., The .. | xxi | Wimper, George, & Co., Ltd. .... | ..... |
| Ebor Concretes, Ltd. | i | | | | |

For Appointments (Wanted or Vacant), Competitions Open, Drawings, Tracings, etc., Educational,
Legal Notices, Miscellaneous Property, Land and Sales, see lv, lvi, lvii, lviii, lix, lx, lxi.

lxii 621

PAGE
xxxvii
ii
vii
xix
lxi
liv
xli
xlv
xxxv
xxvi
xlviii
iv
xxdii
xiv
xxvii
x
xxxviii
lxi
lxi
xxix
lxi
xx
ix
liii
xlvii
lxi
xxx
xlii
xliii
ii
iii
vi
lx
xv
xiii



Strictly private

THE PRIVACY of the home is very strictly preserved by the Chubb Mortice Front Door Locking Latch, which ensures utmost resistance to intrusion. Constructional features include an extra strong bolt, monitor lever, close gating, and dead locking. Architects can specify this sturdy lock with complete confidence in its lasting efficiency. Complete with fixing screws and three keys. Illustrations and details sent on request.



Inside view

CHUBB front door LOCK

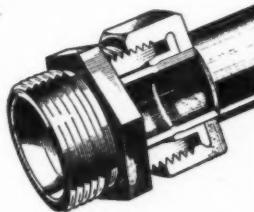


Chubb and Son's Lock and Safe Co. Ltd., 40-42 Oxford Street, London, W.1

Titex
'one of the Good -
Compression Joints'

The instantaneous joint with the indestructible sealing ring. Unsurpassed for use with copper tubes BSS.659/44 and conforming to BSS.864.

THE ORIGINAL AND
BEST OF ITS TYPE

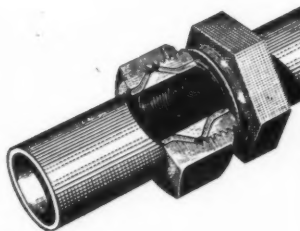


U.G.

(FOR UNDERGROUND USE)

'one of the Good
Expanded Joints'

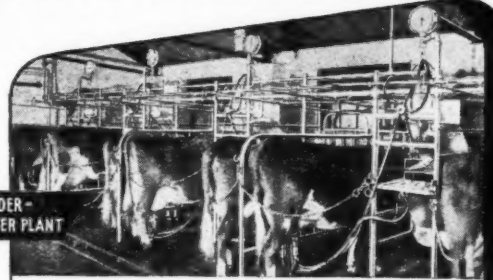
A finely engineered product built for a specific purpose for use with copper tubes BSS.1386 and conforming to BSS.864. Can just as easily be used underground with tubes BSS.659/44.



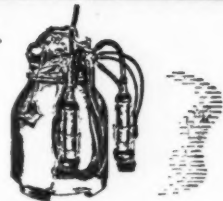
COMPRESSION JOINTS LTD.
TYBURN ROAD, BIRMINGHAM, 24

FIRST CHOICE FOR MODERN DAIRIES.....

RECORDER-
RELEASER PLANT



BUCKET-TYPE
PLANT



FULLWOOD

THE MOST EFFICIENT
MILKING MACHINE

STANDARD LAYOUTS AND PLANS AVAILABLE TO ARCHITECTS

For full particulars apply to:-

*R. J. FULLWOOD & BLAND LIMITED

ELLESMERE, SALOP, & 31 BEVENDEN ST., LONDON, N.1

Ellesmere 29 & 169

Clerkenwell 4406

* No connection with any other British or Foreign Manufacturers of Milking Machines.



**FREELY
AVAILABLE
AGAIN**

There is nothing to equal Sirapite and Sirapite Board Finish for ease of working and satisfactory results. Use the correct type for the job, add nothing but water to the finishing coat and a first class job is assured.

Specification Clauses and working instructions available on request.

THE GYPSUM MINES LIMITED
Mountfield, Robertsbridge, Sussex.



Architect: Howard V. Lobb, F.R.I.B.A.

Bourne Secondary Modern School, Ruislip

Built by John Laing & Son Ltd. London, Carlisle, Johannesburg

LAING

