

THE ARCHITECTS' JOURNAL



standard contents

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

NEWS and COMMENT

Diary

News

Astragal's Notes and Topics

Letters

Societies and Institutions

TECHNICAL SECTION

Information Sheets

Information Centre

Current Technique

Questions and Answers

Prices

The Industry

PHYSICAL PLANNING

SUPPLEMENT

CURRENT BUILDINGS

HOUSING STATISTICS

Architectural Appointments
Wanted and Vacant

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

AA	Architectural Association, 34/6, Bedford Square, W.C.1.	Museum 0974
AAI	Association of Art Institutions. Secy.: W. Marlborough Whitehead, "Dyneley," Castle Hill Avenue, Berkhamstead, Herts.	
ABS	Architects' Benevolent Society. 66, Portland Place, W.1.	Langham 5721
ABT	Association of Building Technicians. 5, Ashley Place, S.W.1.	Victoria 0447-8
ACGB	Arts Council of Great Britain. 4, St. James' Square, S.W.1.	Whitehall 9737
ADA	Aluminium Development Association. 33, Grosvenor Street, W.1.	Mayfair 7501/8
APRR	Association for Planning and Regional Reconstruction. 34, Gordon Square, W.C.1.	Euston 2158-9
ArchSA	Architectural Students' Association. Department of Architecture, School of Building, Ferndale Road, Brixton, S.W.4.	Brixton 7048
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.	Langham 5721
AScW	Association of Scientific Workers. 15, Half Moon Street, Piccadilly, W.1.	
BAE	Board of Architectural Education. 66, Portland Place, W.1.	Grosvenor 4761
BATC	Building Apprenticeship and Training Council. Lambeth Bridge House, S.E.1.	Langham 5721
BC	Building Centre. 9, Conduit Street, W.1.	Reliance 7611, Ext. 1706
BCC	British Colour Council. 13, Portman Square, W.1.	Mayfair 8641/6
BCCF	British Cast Concrete Federation. 17 Amherst Road, Ealing, W.13.	Welbeck 4185
BCIRA	British Cast Iron Research Association. Alvechurch, Birmingham.	Perivale 6869
BDA	British Door Association. 10, The Boltons, S.W.10.	Redditch 716
BEDA	British Electrical Development Association. 2, Savoy Hill, W.C.2.	Flaxman 7766
BGF	British Gas Federation. 1, Grosvenor Place, S.W.1.	Temple Bar 9434
BIA	British Ironfounders' Association. 145, Vincent Street, Glasgow, C.2.	Sloane 8266
BIAE	British Institute of Adult Education. 29, Tavistock Square, W.C.1.	Glasgow Central 2891
BID	Building Industries Distributors. 52, High Holborn, W.C.1.	Euston 5385
BINC	Building Industries National Council. 11, Weymouth Street, W.1.	Chancery 7772
BOT	Board of Trade. Millbank, S.W.1.	Langham 2785
BRS	Building Research Station. Bucknalls Lane, Watford.	Whitehall 5140
BSA	Building Societies Association. 14, Park Street, W.1.	Garston 2246
BSI	British Standards Institution. 28, Victoria Street, S.W.1.	Mayfair 0515
BTE	Building Trades Exhibition. 4, Vernon Place, W.C.1.	Abbey 3333
CABAS	City and Borough Architects Society. C/o Johnson Blackett, F.R.I.B.A., Borough Architect, Town Hall, Newport, Mon.	Holborn 8146/7
CAS	County Architects Society. C/o A. Guy Chant, F.R.I.B.A., Salop County Council, 5, Belmont, Shrewsbury.	Newport 3111
CCA	Cement and Concrete Association. 52, Grosvenor Gardens, S.W.1.	Shrewsbury 3031
CDA	Copper Development Association. Kendals Hall, Radlett, Herts.	Sloane 5255
CIAD	Central Institute of Art and Design. 41, 42, Dover Street, W.1.	Radlett 5616
CIAM	Congrès Internationaux d'Architecture Moderne. Doldertal, 7, Zurich, Switzerland.	Regent 3074
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.	Whitehall 6322
CPRE	Council for the Preservation of Rural England. 4, Hobart Place, S.W.	Kensington 8161
CUJC	Coal Utilization Joint Council. 13, Grosvenor Gardens, London, S.W.1.	Sloane 4280
DGW	Directorate General of Works, Ministry of Works, Lambeth Bridge House, S.E.1.	Victoria 1534
DIA	Design and Industries Association. 13, Suffolk Street, S.W.1.	Reliance 1761
DOT	Department of Overseas Trade. 35, Old Queen Street, S.W.1.	Whitehall 0540
EJMA	English Joinery Manufacturers' Association (Incorporated). Sackville House, 40, Piccadilly, W.1.	Victoria 9040
EPNS	English Place-Name Society. 7, Selwyn Gardens, Cambridge.	Regent 4448
FAS	Faculty of Architects and Surveyors. 8, Buckingham Palace Gdns., S.W.1.	
FB 1951	Festival of Britain 1951. 2, Savoy Court, Strand, W.C.2.	Sloane 2837
FASSC	Federation of Association of Specialists and Sub-Contractors. 21, Tothill Street, S.W.1.	Waterloo 1951
FBI	Federation of British Industries. 21, Tothill Street, S.W.1.	Whitehall 9696
FCI	Forestry Commission. 25, Savile Row, W.1.	Whitehall 6711
FCMI	Federation of Coated Macadam Industries. 37, Chester Square, S.W.1.	
FDMA	The Flush Door Manufacturers Association Ltd. Trowell, Nottingham.	Sloane 1002
FLD	Friends of the Lake District. Pennington House, nr. Ulverston, Lancs.	Ilkeston 623
FMB	Federation of Master Builders. 26, Great Ormond Street, Holborn, W.C.1.	Ulverston 201
FPC	The Federation of Painting Contractors, St. Stephen's House, S.W.1.	Chancery 7583
FRHB	Federation of Registered House Builders. 82, New Cavendish Street, W.1.	Whitehall 3902
FS (Eng.)	Faculty of Surveyors of England. 8, Buckingham Palace Gdns., S.W.1.	Langham 4041
GG	Georgian Group. 27, Grosvenor Place, S.W.1.	Sloane 2837
HC	Housing Centre. 13, Suffolk Street, Pall Mall, S.W.1.	Sloane 2844
IAAS	Incorporated Association of Architects and Surveyors. 75, Eaton Place, S.W.1.	Whitehall 2881
ICE	Institution of Civil Engineers. Great George Street, S.W.1.	Sloane 5615
IEE	Institution of Electrical Engineers. Savoy Place, W.C.2.	Whitehall 4577
IES	Illuminating Engineering Society. 32, Victoria Street, S.W.1.	Temple Bar 7676
		Abbey 5215

No. 2893 [VOL. 112]
THE ARCHITECTURAL PRESS
9, 11 and 13, Queen Anne's Gate, Westminster,
S.W.1. 'Phone: Whitehall 0611

Price 9d.

Registered as a Newspaper.

ESTABLISHED 1875

TRUETT & STEEL LTD

BUILDING CONTRACTORS

WESTMINSTER

THORNTON HEATH

WHITEHALL 3342 & 4051

THORNTON HEATH 1122/4/5/6

Specify



Durable Asphalt Co. Ltd.

"KIMBERLEY HOUSE"

14/17 HOLBORN VIADUCT, E.C.1

Southern Depot: Great Testwood, Totton.
Near Southampton

TELEPHONE CITY 1456/7, 4553, 6271

Northern Depot: Gladstone Street.
Huntingdon Road, York

FOR ASPHALTIC

FLOORING

To B.S.S. 1451/1948

ROOFING

To B.S.S. 1162/1944 & 988/1941

TANKING

To B.S.S. 1418/1947 & 1097/1943

DAMP COURSE WORK

To B.S.S. 1418/1947 & 1097/1943



ARK





Chartered Architects: Messrs. Wylie, Shanks & Wylie, Glasgow, Scotland

SCOTTISH LEGAL LIFE ASSURANCE BUILDING

in which "COLTERRO" was extensively used is one of the many impressive buildings for which this fine plaster base was chosen.

The electrically-kilned clay crosses of the "COLTERRO" Lathing provide such a magnificent key, that the first coat of plaster can be built up to any desired thickness in one operation, requiring only a light finishing coat to obtain perfect results.

As no preliminary undercoat is necessary, the economy in plaster, labour and the use of scaffolding is considerable, and shows a saving of at least 20% over other methods.

COLTERRO Lath

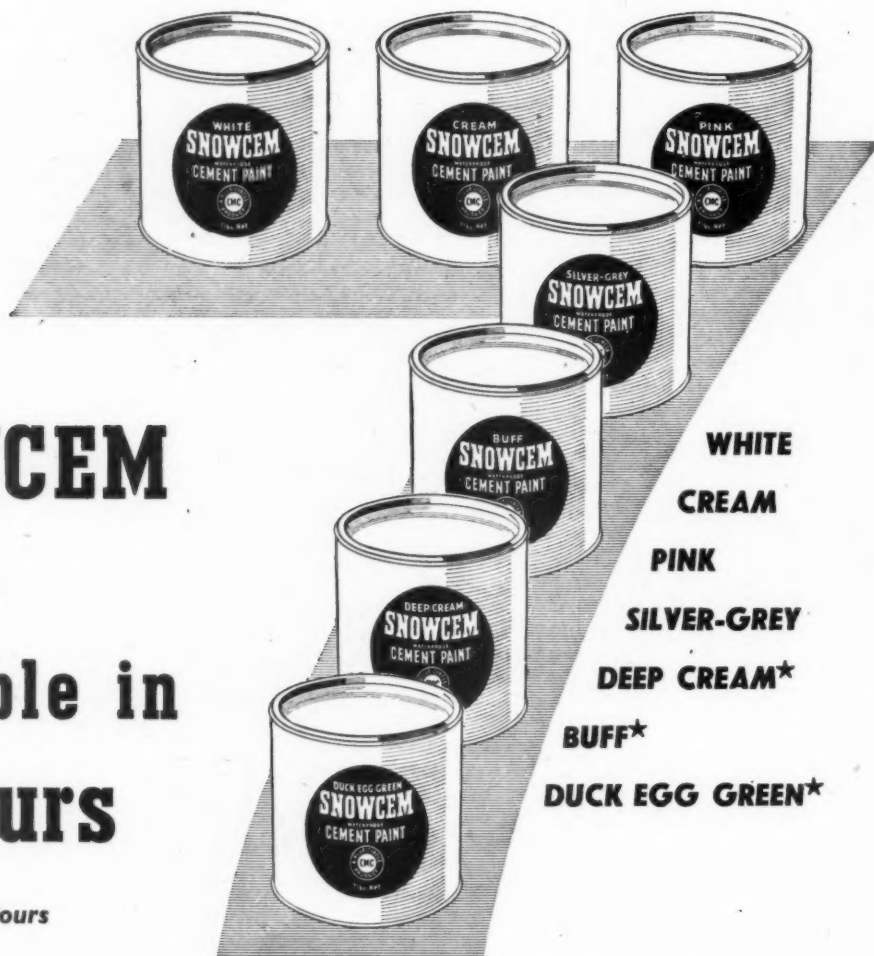
ELECTRICALLY KILNED PLASTER BASE

We undertake the design of complete schemes and carry out the fixing through our Contracts Dept., according to clients' requirements.

IMMEDIATE DELIVERY FROM STOCK

Full technical details and sample from: **W. H. COLT (LONDON) LTD** (Architectural Division A.8) SURBITON, SURREY.

ELMbridge 6511/5. And at BRADFORD, BIRMINGHAM, BRISTOL, NEWCASTLE, MANCHESTER, SHEFFIELD, NEWPORT (Mon.)
Sole Stockholders for SCOTLAND: **ROWEBB LTD.**, 113 Douglas Street, Glasgow, C.2



SNOWCEM

is now
available in
7 colours

*The three new colours

WHITE
CREAM
PINK
SILVER-GREY
DEEP CREAM*
BUFF*
DUCK EGG GREEN*

Architects and builders now have a wider range of colours from which to choose when decorating with Snowcem. Attractive, economical and lasting protection is given to buildings by this waterproof cement paint which does not flake, peel or brush off.



SNOWCEM

WATERPROOF CEMENT PAINT

DECORATES AND PROTECTS—at low cost

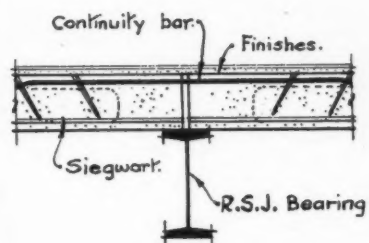
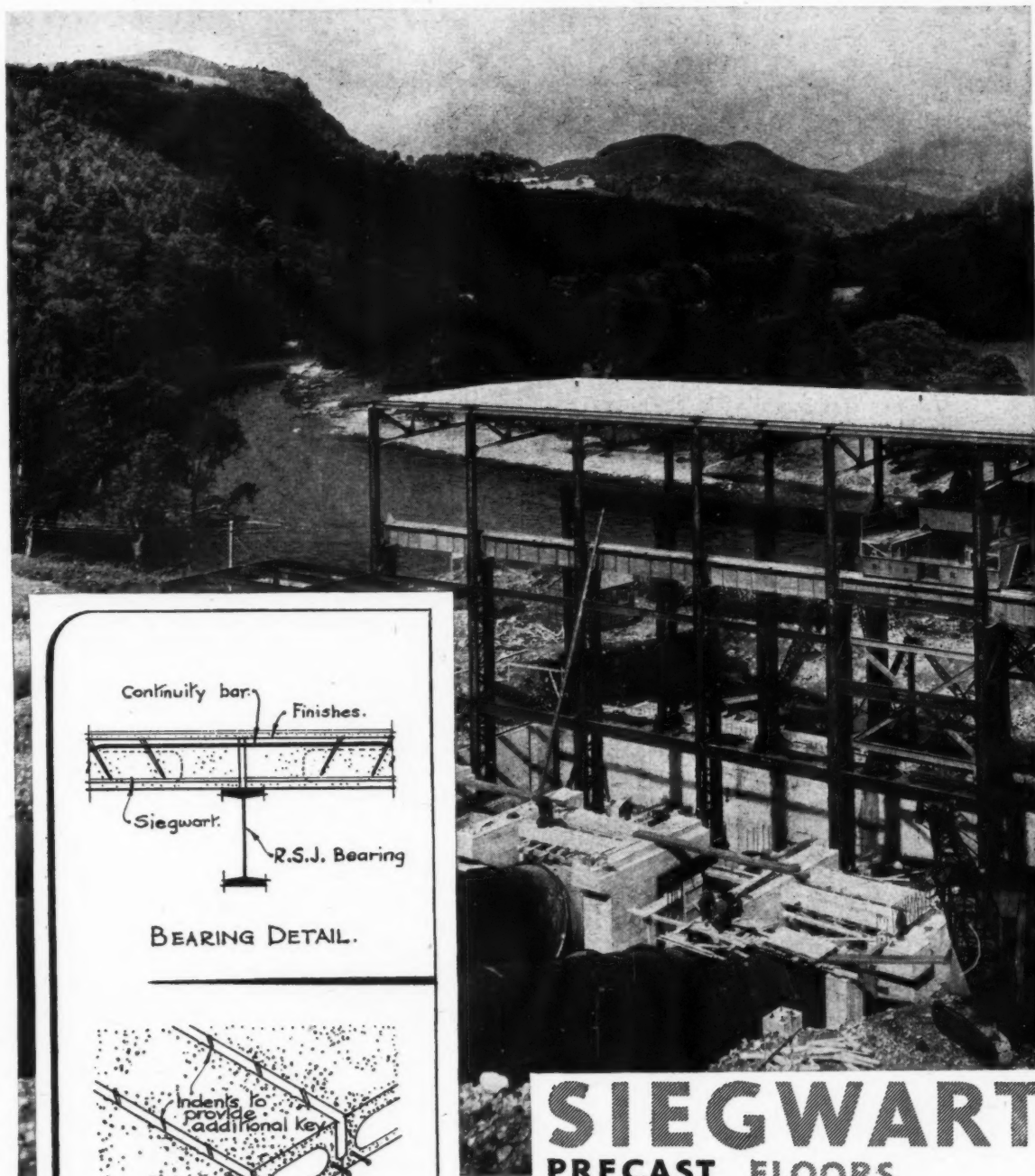
Full details will be sent on application to :—

THE CEMENT MARKETING COMPANY LIMITED, Portland House,
Tothill Street, London, S.W.1. Telephone: ABBey 3456.

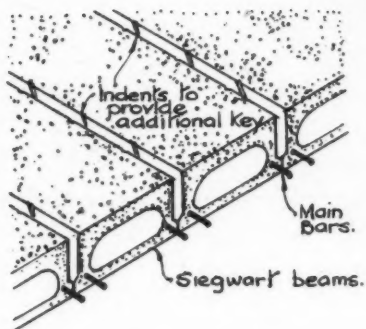
or: G. & T. EARLE LTD., Cement Manufacturers, Hull. Telephone: HULL 16121.

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

T3750R



BEARING DETAIL.



ISOMETRIC VIEW.

SIEGWART PRECAST FLOORS

Tummel Garry Project, Clunie Power Station.
Another of the Hydro Electric Power Stations
for the North of Scotland Hydro Electric Board
where Siegwart Roofs are fixed.

Sir Alexander Gibb & Partners, Consulting Engineers

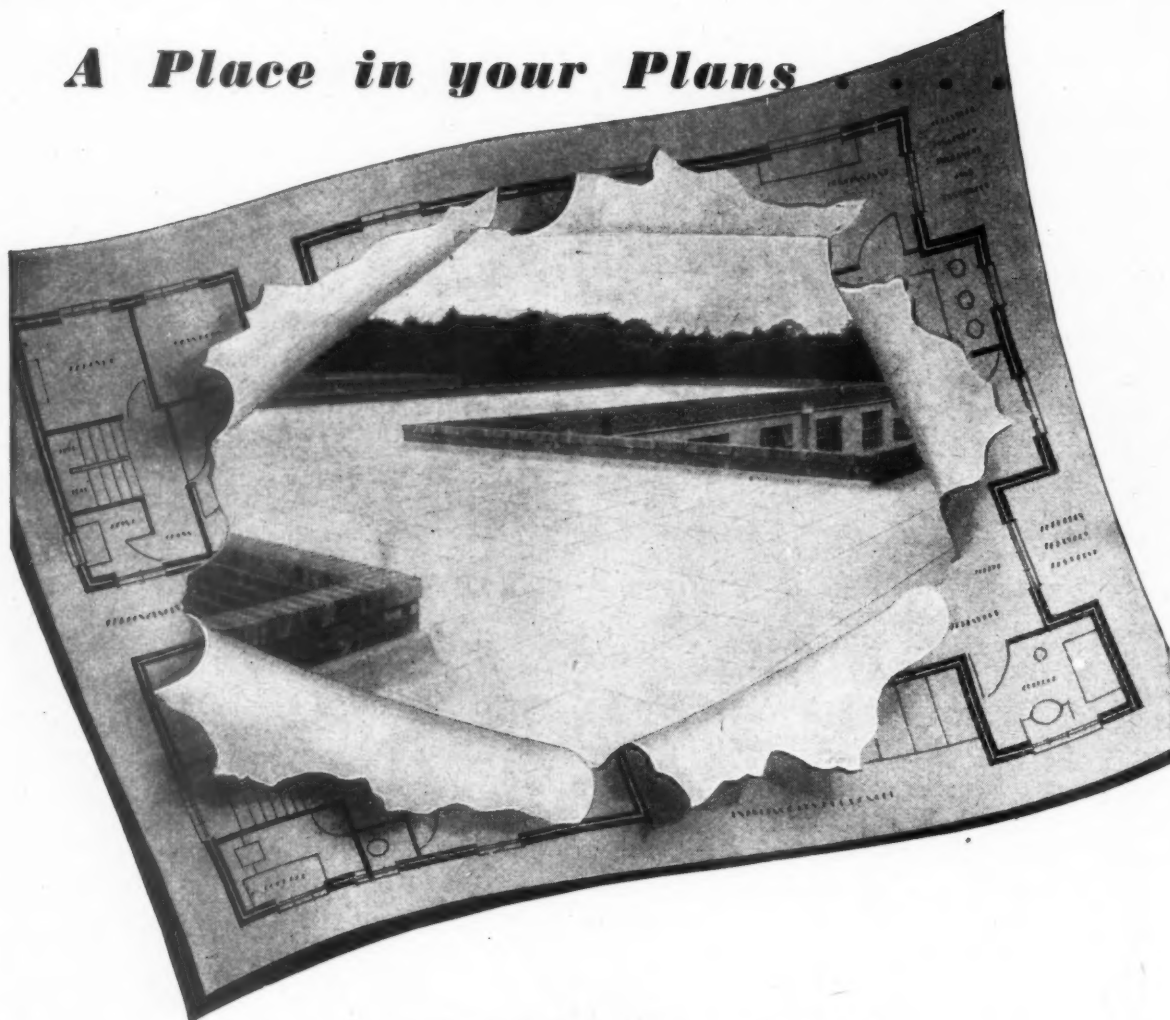
SIEGWART FLOOR CO. LTD.

GABLE HOUSE, 40 HIGH STREET, RICKMANSWORTH, HERTS.
Branch Offices at Birmingham, Manchester and Glasgow.

Telephone: Rickmansworth 2268
Works at Croxley Green, Enderby near Leicester and Paisley

S/4/50

A Place in your Plans



- A permanent flexible promenade roofing of good appearance for all purposes of normal traffic.
- Suitable for industrial and domestic buildings, hospitals, schools, cafes, and for recreation and storage purposes.
- Complies with building by-laws.
- Fire resistant ; prevents undue gain of heat from external conditions and reduces risk of excessive structural movement.
- Prices within the cost range of all permanent schemes.



D. ANDERSON & SON LTD
STRETFORD • MANCHESTER

ROACH ROAD, OLD FORD, LONDON, E.3

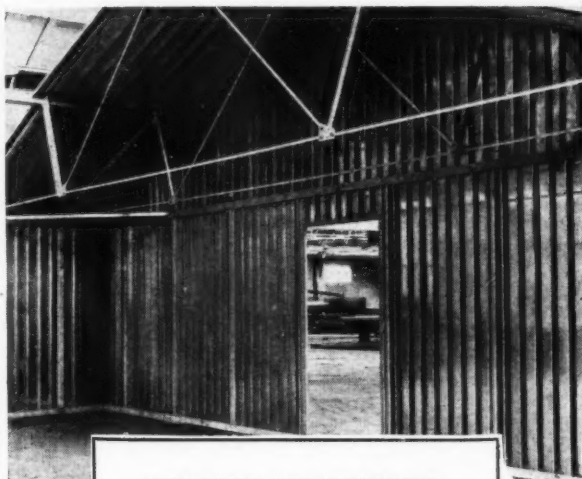
Also at BELFAST · BIRMINGHAM · GLASGOW · LEEDS · NOTTINGHAM

"THERMOTILE"
PROMENADE ROOFING
PATENT NO. 403642

DURALUMIN

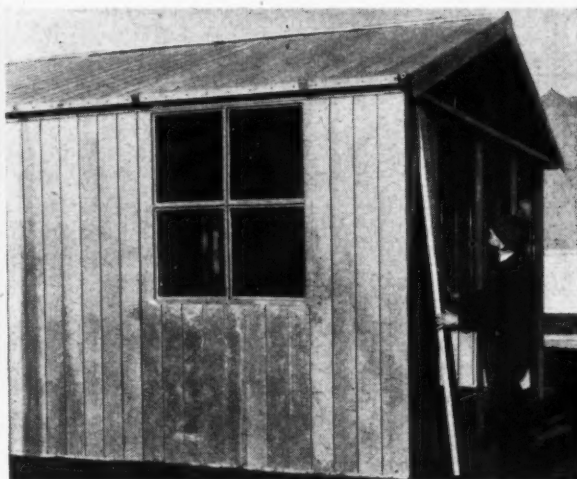
REGD. TRADE MARK

*has five*extra advantages for structural work*

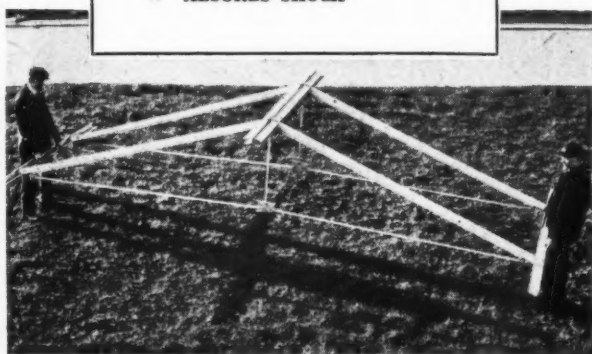


**LIGHTNESS AND STRENGTH,
of course**

- ★ READILY WORKABLE
- ★ PLEASING APPEARANCE
- ★ LOW MAINTENANCE COSTS
- ★ NON-RUSTING
- ★ ABSORBS SHOCK



J32



*Top left : Part interior of a larger Briggs Building.
Top right : Wall sheets on a small Briggs Demountable
Building being fitted into position.
Bottom left : A roof truss is easily handled by two men.*

"Duralumin" is as strong as steel but only a third as heavy, conforms very readily to all methods of fabricating, and as it does not rust may be left unpainted with perfect safety.

Good use has been made of the many advantages of "Duralumin" in the Briggs Demountable Building, an entirely new system which provides rigid and durable buildings up to 36 ft. span, capable of being dismantled and re-erected any number of times.

Because "Duralumin" is so light, components for these buildings are easily handled on site : a 36 ft. span roof truss weighs only 160 lbs.

Because it is so durable, every time the building is dismantled the components are in perfect condition for re-erection elsewhere.

James Booth & Co. Limited of Birmingham have developed a range of light alloys suitable for the individual requirements of every industry.

Full details and particulars may be obtained from Johnson Bros. (Steel Erectors) Limited of 7, Victoria Street, London, S.W.1, who are the fabricators and suppliers of these buildings.



JAMES BOOTH & COMPANY LIMITED • ARGYLE STREET WORKS • BIRMINGHAM • 7



BOVIS LTD

Architects and building owners
who contemplate major building
operations may well find the
solution of their problems in
The Bovis System of Contract

BOVIS LTD

STANHOPE GATE W1

Send for this new EDA publication



THIS NEW EDA PUBLICATION is devoted to the special problems that arise in the conversion of old houses into new flats, and the advantages that electricity has to offer in this work. Costs must be kept within strictly defined limits, yet the flats must be labour-saving to meet the needs of future tenants, and so electricity is the best method of providing all the services required.

With electricity, one installation will provide all the services for a modern home — lighting, heating, cooking, refrigeration, hot water, cleaning, clothes washing, drying and ironing, and radio and television.

"ELECTRICITY TURNS OLD HOUSES INTO NEW FLATS" is divided into eight sections, which deal with water heating, kitchen planning, cooking, refrigeration, heating, laundry, wiring, and lighting; it is illustrated by photographs and diagrams which show how installations can be made with the greatest economy in cost and efficiency in performance.

Architects and builders are invited to write for copies

THE BRITISH ELECTRICAL DEVELOPMENT ASSOCIATION, 2 SAVOY HILL, LONDON, W.C.2

MARLEY tiles

are guaranteed against lamination and decay for 50 YEARS

MARLEY tiling

is maintained free in good condition for 10 YEARS

Whatever tiles you specify insist on these guarantees backed by a Company of standing

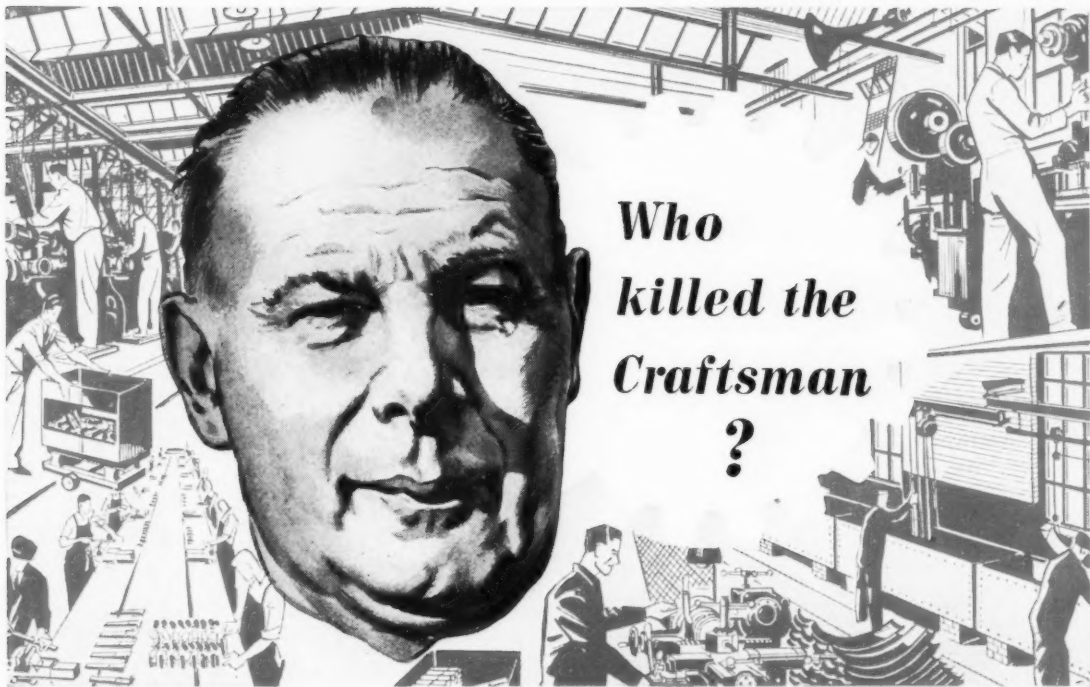
PERMANENT COLOUR

All Marley roofing tiles are now surfaced with permanently coloured granules which cannot fade, but give a distinctive texture to the tiles and assist the weathering process. The use of these granules, which are manufactured by Marley, makes it possible to supply a range of blended coloured tiles in addition to the standard range of colours.



"Not for an age—but for all time"

THE MARLEY TILE CO. LTD., RIVERHEAD, SEVENOAKS, KENT. — Sevenoaks 2251



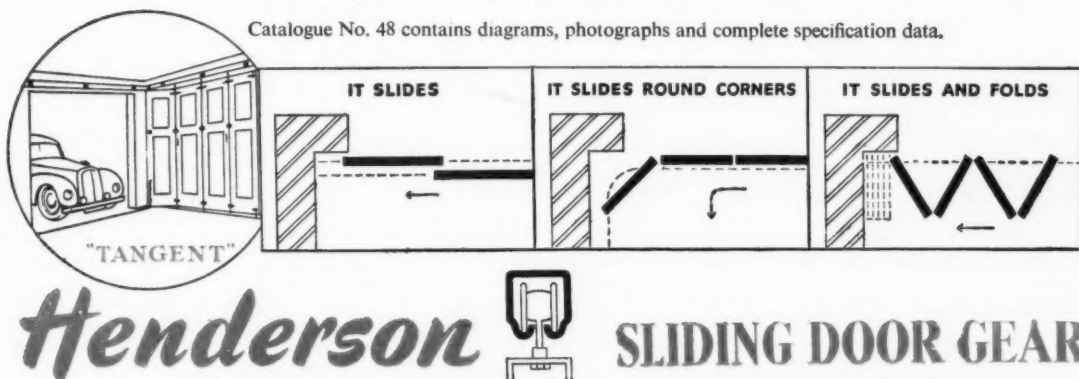
Works Manager Harry Foster is quick to deny that modern production methods have killed craftsmanship. He invites the man who is rash enough to suggest so, to inspect the Sliding Door Gear that leaves Henderson's every week. Only the skilled and careful hands of craftsmen, he says, turn out such precision work.


Harry believes that craftsmanship does not occur by chance. Equally, it is his opinion that it can be murdered in cold blood by giving skilled men inferior tools, out-of-date machinery and poor working conditions. This explains his insistence on up-to-the-minute machinery and his concern for the welfare of his men.

It is no wonder Henderson Sliding Door Gear is the finest in the world! Over a thousand miles of Henderson tracks are in trouble-free service everywhere.

Technical representatives in principal cities in Great Britain and in most countries overseas.

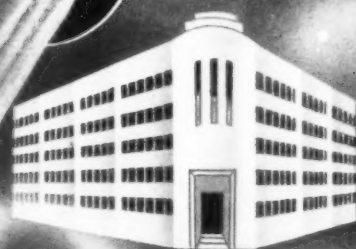
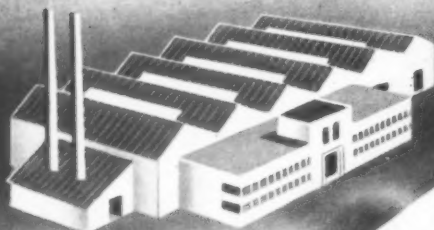
Catalogue No. 48 contains diagrams, photographs and complete specification data.



Henderson  **SLIDING DOOR GEAR**
for any Door, Partition or Window that slides or folds.
P. C. HENDERSON LIMITED · TANGENT WORKS · BARKING · ESSEX

205-18

HEATING & VENTILATION...



CONTRACTING AND ADVISORY ENGINEERS

ARTHUR **SCULL** & SON LTD

SANITATION, HEATING, AIR CONDITIONING, ELECTRICAL,
& ALL BRANCHES OF INDUSTRIAL & DOMESTIC ENGINEERING

★ LONDON

KINGSWAY HOUSE, KINGSWAY,
LONDON, W.C.2. (Tel. Holborn 4781.)

★ BRISTOL

3 & 4, PRINCE'S BUILDINGS,
BRISTOL, 8. (Tel. Bristol 36851.)

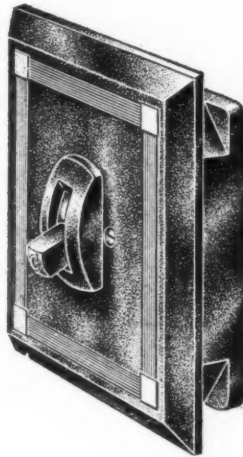
★ CARDIFF

7, HIGH STREET,
CARDIFF. (Tel. Cardiff 6118.)

★ PORT OF SPAIN

PORT OF SPAIN, TRINIDAD
B.W.I. (Tel. Port of Spain 4321.)

"OLD FRIENDS ARE THE BEST FRIENDS"



The
"LINCOLN"
Flush Switch Assembly

WHAT has made the "Lincoln" extra-shallow flush switch so widely popular?

Perhaps because it is so easy to wire? —the front-entry wiring terminals are large and allow extensive "looping." Or because it is so simple to install? —the box can be erected without the cutting of brickwork and the switch-

fixing pillars can be adjusted to variations in the plaster-level.

Because it is competitive in price? Or because it has good lines?

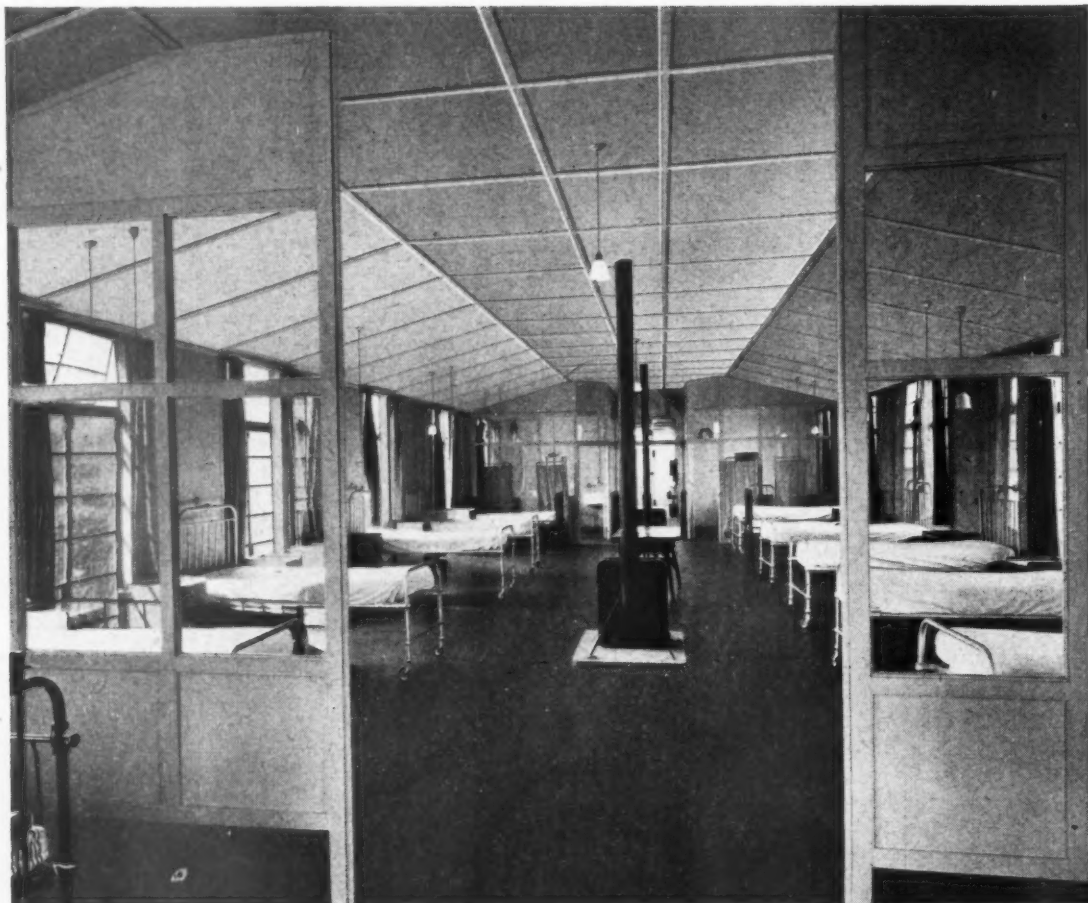
It is because the "Lincoln" is also a sound switch assembly that it has won so many staunch friends in the installation trade.

CRABTREE

A name synonymous with Progress in Accessories and Switchgear

"Crabtree" (Registered)

C.635/29 Advt. of J. A. Crabtree & Co. Ltd., Walsall, England



Partitions and Isolation Cubicles constructed from $\frac{3}{4}$ " PLIMBERITE and glazing in a ward at Wellhouse Hospital, to the designs and under the supervision of Mr. H. A. Sheward, Superintendant of Works, Barnet Group Hospital Management Committee.

PLIMBERITE

PLIMBERITE is a board manufactured from wood chips, possessing the general characteristics of natural timber, can be worked by using standard tools and techniques and is obtainable in sheets of 8 ft. by 4 ft. in two thicknesses, $\frac{1}{2}$ in. and $\frac{3}{4}$ in.

PLIMBERITE chipboard offers unlimited possibilities to architects, builders and shop-fitters in the field of constructional materials. It possesses improved characteristics of structural strength, resistance to rupture and stability.

- ★ Takes paint, distemper and wallpaper direct without costly preliminary preparation.
- ★ Can be veneered with plastic laminates or wood veneers, using standard methods.
- ★ Modulus of rupture not less than 2,200 lbs./sq. in.
- ★ Obtainable in standard size 8ft. 0in. by 4ft. 0in.

Ideal for the construction of partitions and facing interior walls; fabricating domestic, office, restaurant or hospital furniture and the panelling of walls and doors.

See our permanent exhibit at the Building Centre, 9 Conduit Street, London, W.1.

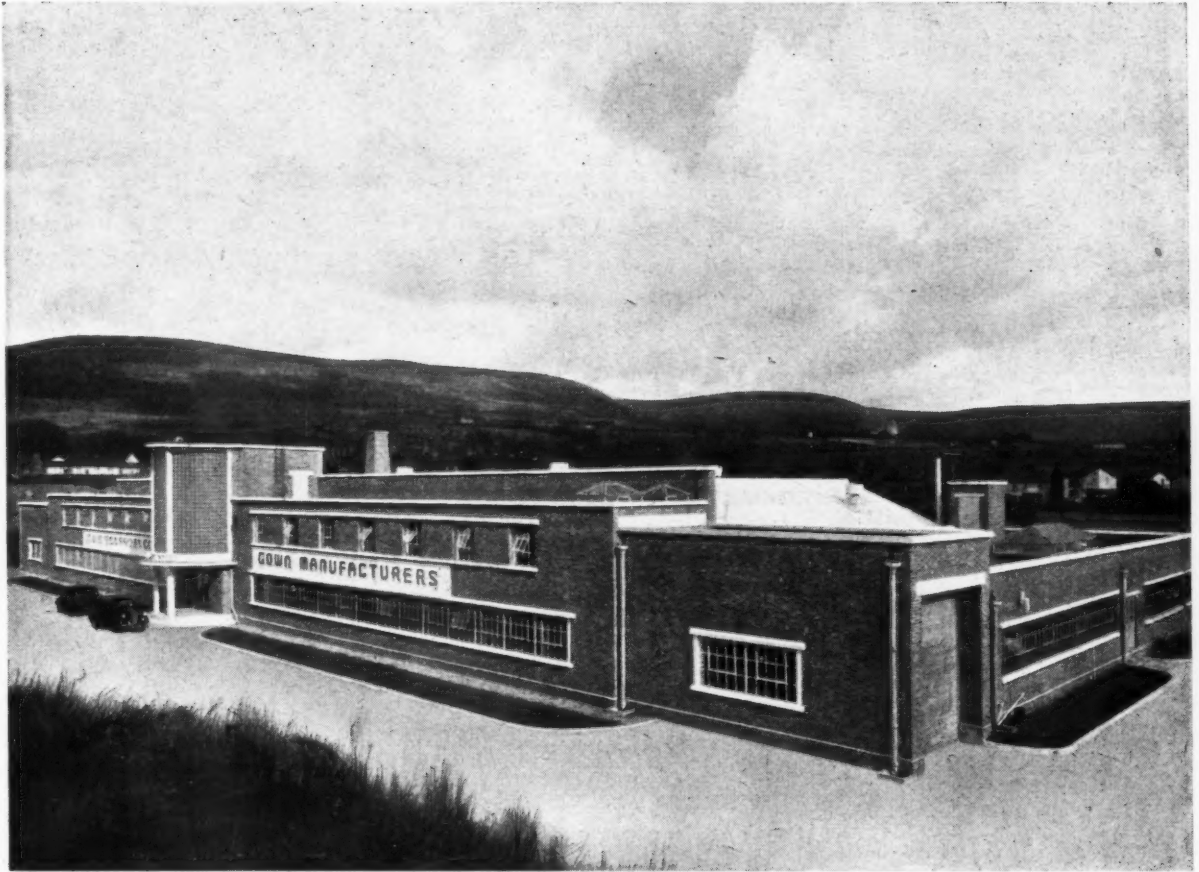
MARKETED SOLELY THROUGH DISTRIBUTORS AND MERCHANTS

Fully illustrated literature and technical data on request to:—

BRITISH PLIMBER LIMITED

20 ALBERT EMBANKMENT, LONDON, S.E.11. Tel. : REL 4242

FACTORY BUILDINGS



Architects :— Henry Budgen & Co., Cardiff.

A factory for Gown Manufacturers, built in steel frame construction.

BRAITHWAITE & CO ENGINEERS LTD



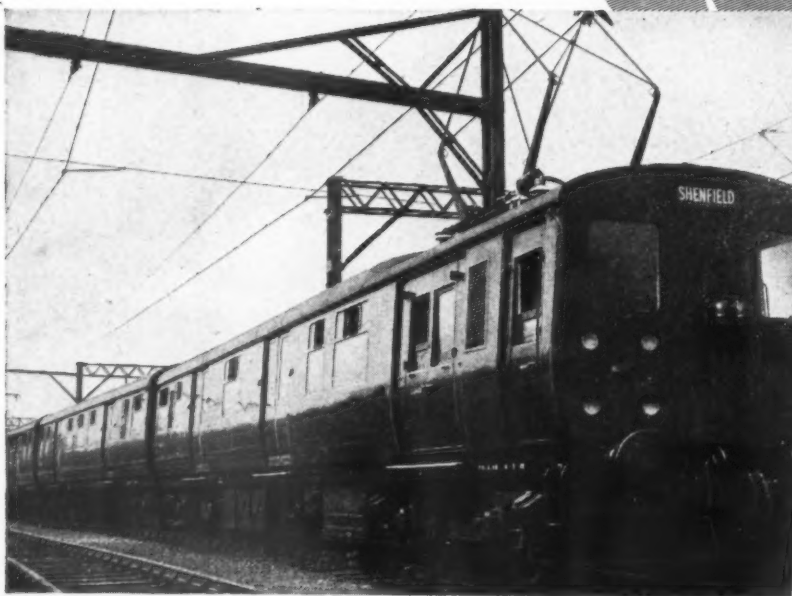
London Office:

Telephone: WHItchall 3993

KINGS HOUSE HAYMARKET LONDON S.W.1

P & G BATTERIES

in the public service



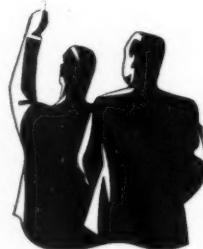
P & G Batteries provide many important auxiliary services to help keep Britain's electric trains running to schedule. On the new Liverpool Street to Shenfield electrification scheme, two of these are switchgear operation and supervisory control. P & G experience is spread over a very wide field and stretches back over 60 years. Specialists who know the battery business throughout will gladly discuss any projects with you. Since two heads are better than one, the results are often surprising. Our 3-point service covers **1. Technical Advice and Specifications. 2. Equipment and installation. 3. Regular inspection and report.**

PRITCHETT & GOLD & EPS Company Ltd

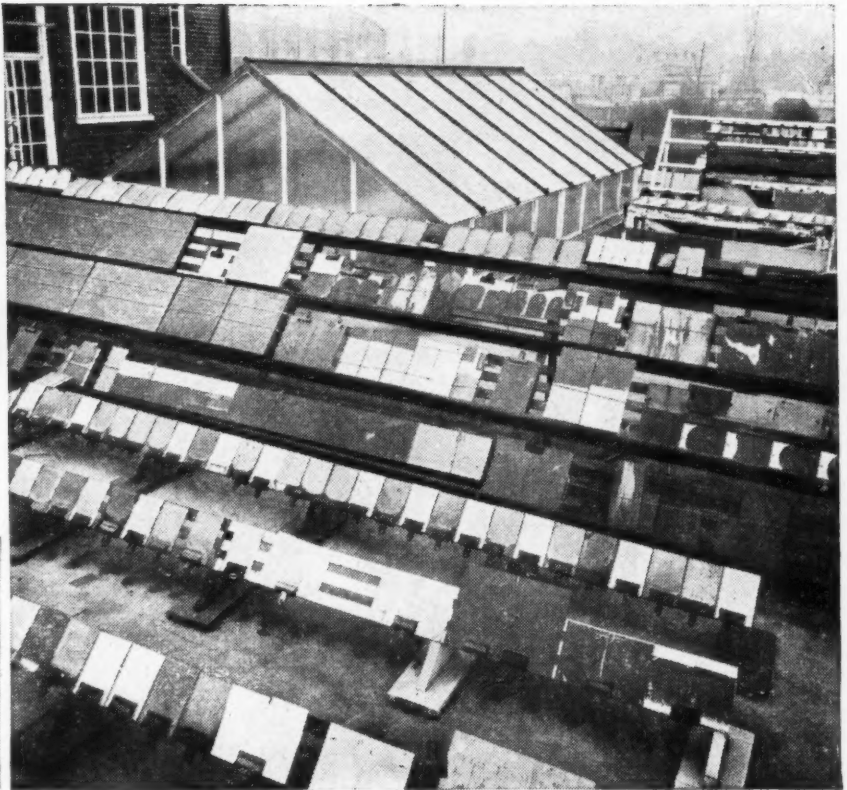
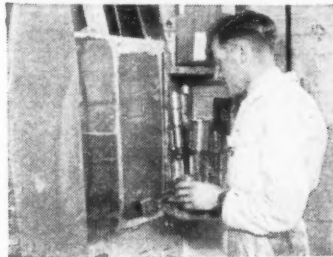
50 GROSVENOR GARDENS · LONDON · SW1

Batteries and Control Panels for Emergency Lighting

2 heads are
better than **1**



P004



Everything under Control...

One of the major post-war problems of the Decorator, Builder or Architect is to find a really durable finish—one that goes further and lasts longer. We believe in giving the customer what he wants. On the roof of our Kingston factory samples of paint on various materials are exposed for months—indeed years—to the rigours of the English climate. Those samples that stand up best are developed and, if possible, improved. Also, Cerrux Decorative finishes are tested by men who know how to handle a brush and we give to their reports the same attention as we do to the scientific data supplied by our Chemists.

CERRUX

DECORATIVE PAINTS



CELLON
Aircraft
Finishes



CERRIC
Wood
Finishes



CERRUX
Marine
Paints



CERRUX
Coach
Paints



CERRIC
Industrial
Finishes

CELLON LIMITED • KINGSTON-ON-THAMES • PHONE KINGSTON 1234

CVS-634

REDLAND

covers the country



Redland Roofing Tiles are available for speedy delivery to sites anywhere in Great Britain. These tiles are manufactured to a consistently high standard on plant designed and made by Redland's own engineers. An up-to-date Sales Organisation provides prompt attention to all queries, enquiries or orders. A reliable transport system ensures delivery direct from factory on to site.

The standard range of REDLAND TILES includes:

REDLAND Interlocking Tiles, REDLAND '49' Improved Interlocking Tile, and REDLAND $10\frac{1}{2} \times 6\frac{1}{2}$ Plain or Cross Cambered Tile.

In addition Double Roman Tiles and Pantiles are available in more limited quantities. All the customary fittings are available as well as the famous REDLAND Valley Trough for use with the Interlocking Tiles.

The Sales Organisation will be pleased to send you the fullest details and current prices.

SELLING ORGANISATION FOR REDLAND TILES

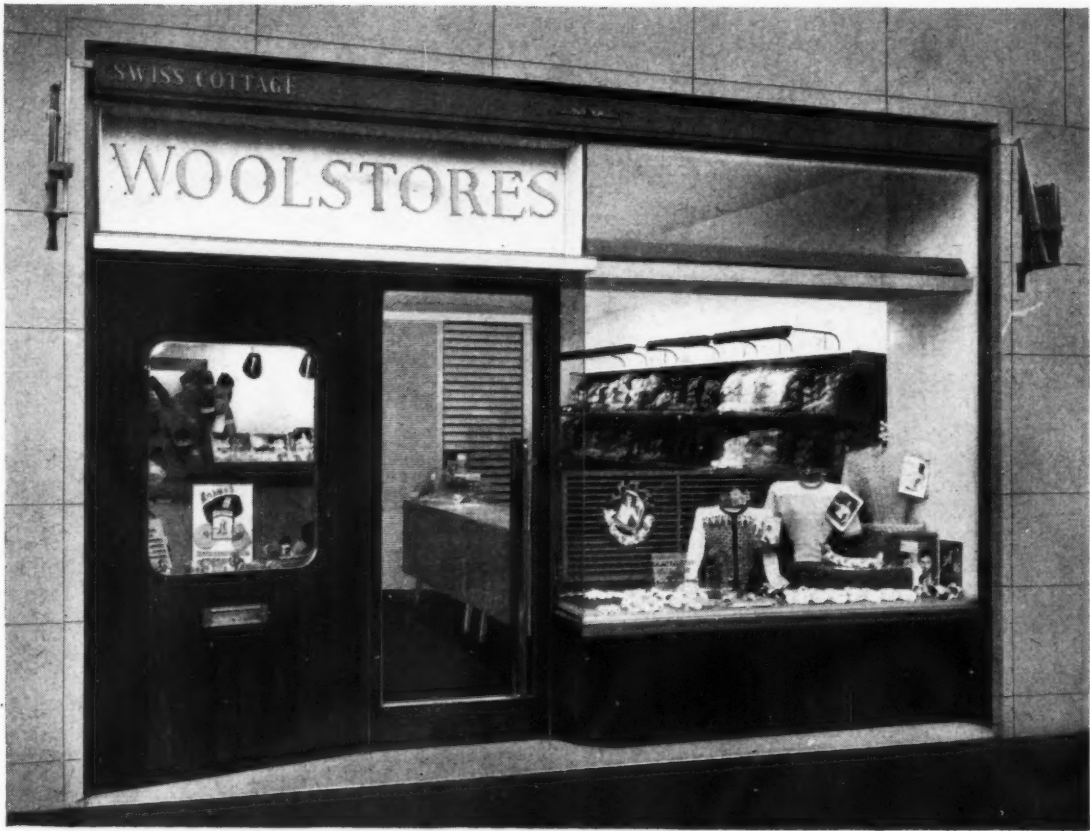
REDHILL TILE CO. LTD.,

MOORHOUSE, NR. WESTERHAM, KENT

TELEPHONE: LIMPSFIELD CHART 3206/7



C R E A T I O N W I T H C R A F T S M A N S H I P



Shopfront recently installed at 19, Northways Parade, London, N.W.3, for Swiss Cottage Wool Stores. Architect: J. Groag, Dipl. Ing. Arch. F.S.I.A. Interior decoration and shopfront by Courtney, Pope Limited.

THE ASSOCIATED COMPANIES OF
COURTNEY, POPE

COURTNEY, POPE LTD. Store Fitting, Architectural Joinery and Metalwork.

COURTNEY, POPE (ELECTRICAL) LTD. Electrical Contractors, Fluorescent Lighting Specialists.

AMHURST PARK WORKS, TOTTENHAM, LONDON, N.15. STAMFORD HILL 4266 (TEN LINES).

NEWALLS

Sprayed LIMPET ASBESTOS

* SOLIOS *



COUNCIL CHAMBER,
BELFAST CITY HALL.

The ceiling illustrated has been treated with Sprayed Limpet Asbestos to reduce reverberation, and shows the excellent finish which can be obtained by this method of acoustic treatment.

Sprayed Limpet Asbestos is used wherever a Sound Absorbent Surface is required, and because of its Fire-proof and Vermin-proof qualities, it is especially suitable for use in Hospitals, Offices, Swimming Baths, and in other places where reverberation is excessive.

Newalls Sprayed Limpet Asbestos is also widely used for Acoustic Correction in Cinemas, Churches, and other Auditoria.

Newalls Insulation Co. Ltd., maintain a fully equipped Sound Laboratory for the investigation of problems connected with the use of Acoustic materials.



NEWALLS

Insulation Co. Ltd.

HEAD OFFICE: WASHINGTON, COUNTY DURHAM
A MEMBER OF THE TURNER AND NEWALL ORGANISATION.

OFFICES & DEPOTS AT: LONDON, GLASGOW, MANCHESTER, NEWCASTLE, BIRMINGHAM, BELFAST, BRISTOL & CARDIFF

L I F T E N G I N E E R S



Lifts
by

**PORN & DUNWOODY
LTD.**

Telephone: WATERloo 7107 (4 lines)

Telegrams: INGPORNMA, SEDIST, LONDON

UNION WORKS, BEAR GDNS, LONDON, S.E. 1

SISALKRAFT for CONCRETE CURING



Typical example of a concrete road slab blanketed with Sisalkraft.

THE SISALKRAFT method is practical, simple and economical. The use of SISALKRAFT—the supreme building paper—ensures an efficient cure PLUS FROST PROTECTION. Technical information and samples on request.

See Folder No. 116 Architects' "Classifile"

SISALKRAFT
TRADE MARK

Sole Distributors
for British Sisalkraft Ltd.

J.H.SANKEY & SON.LTD

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

TELEPHONE: HOLBORN 6949

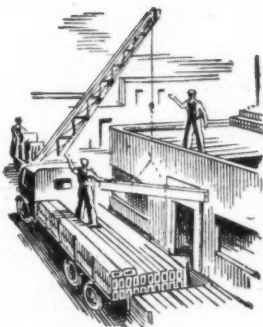
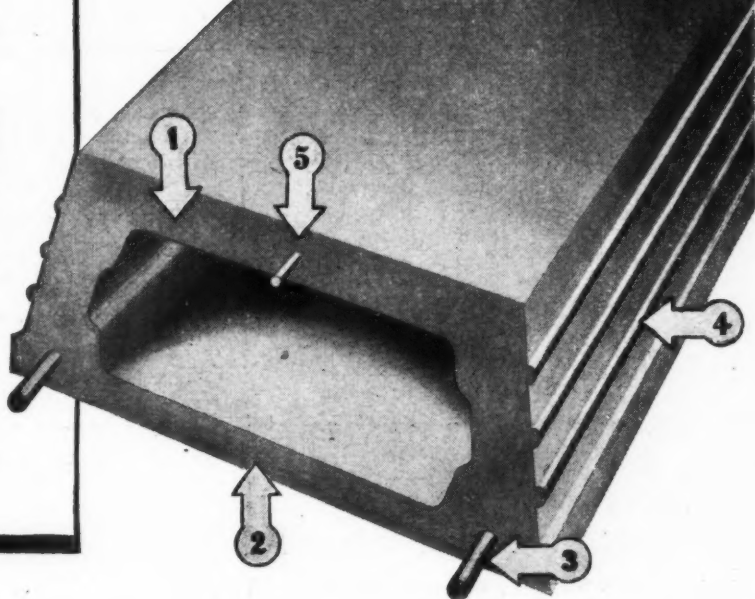
TELEGRAMS: BRICKWORK, ESTRAND, LONDON

GIRLINGS' HOLLOW CONCRETE BEAMS

FOR FLOORS
AND ROOFS

Special Features include :

- 1 Accurate thickness of top flange ensured by our patent collapsible core.
- 2 Beams are cast with a super smooth soffit that requires no plastering. If plastering should be necessary, they can be left rough to make a good "key".
- 3 Light weight, thereby ensuring minimum reinforcement.
- 4 Ribbed sides to ensure key to concrete grout in ribs.
- 5 The ends of our beams are formed solid at the Works to resist sheer and compression stresses at the supports, but it also has the very great advantage of avoiding damage when hoisting, and manœuvring into position, etc.



Delivered on site
at short notice.

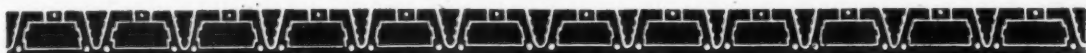


BY APPOINTMENT
SUPPLIERS OF
FERRO-CONCRETE
WORK

IMMENSELY strong yet light in weight. GIRLING'S Pre-cast Concrete Floor and Roof units are designed to carry loads from 30 lbs. to 5 cwt. per super foot. Replacing now scarce timber and steel, they can be supplied in any length to meet individual requirements. Easily and speedily laid by semi-skilled labour, they are now being used extensively for priority building needs. For efficiency—speed—economy specify GIRLINGS' Beams. Full details on request.

GIRLINGS' FERRO-CONCRETE Co. Ltd.

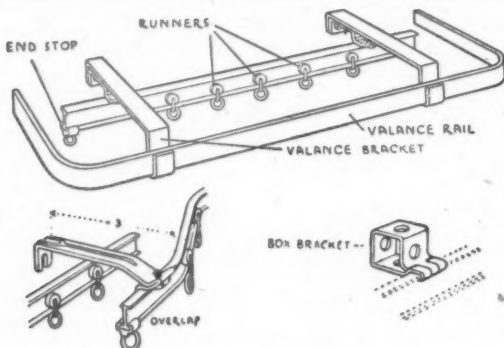
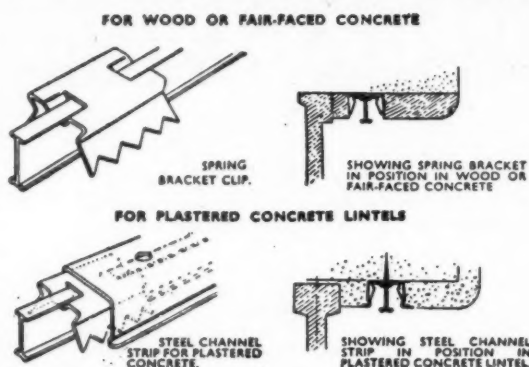
SOUTH : Great West Road, Feltham, Middlesex 'Phone: HOUnslow 1158
MIDLANDS : Rothwell, near Leeds 'Phone: Rothwell 3174 (Leeds ext)
SCOTLAND : Southbank Road, Kirkintilloch, Glasgow 'Phone: Kirkintilloch 2244-5
 Newcastle & District Agents: Messrs. Archie Armstrong Ltd., Northumbria House, Portland Terrace, Jesmond, Newcastle-upon-Tyne. 'Phone: Jesmond 1892



SPECIFY 'Rufflette' BRAND CURTAIN SUSPENSION SYSTEMS

'Rufflette' brand RECESSED CURTAIN RUNWAY

'Rufflette' brand Recessed Curtain Runway is a permanent and integral part of building construction. It is inexpensive and simple to fit into wood, plastered or fair-faced concrete lintels. The runway is held rigidly in position by a patent spring clip without screws and is a concealed and a permanent fitting.

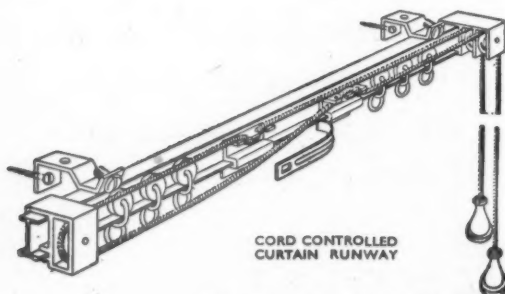
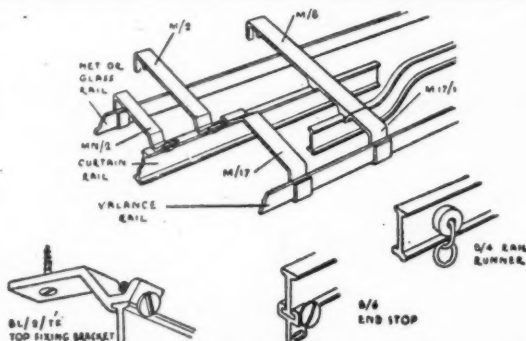


'Rufflette' brand B/L CURTAIN RUNWAY

This runway has been specially designed for wood frame windows. The construction is of heavy extruded brass, with top or face fixing brackets made specially for quick fitting and is therefore a valuable time-saving device. For strength, durability and easy running specify 'Rufflette' brand B/L Curtain Runway.

'Rufflette' brand M SERIES RUNWAY FOR METAL WINDOWS

The special feature of this runway is the use of extension supports from the main runway for the valance and net curtain rails; this reduces the number of main supports needed and minimises drilling. 'Rufflette' brand M Series Curtain Runway can be fitted to any shape window straight or curved. The 'Rufflette' M Series Curtain Runway is specially designed for quick and easy fitting to metal windows.



'Rufflette' brand CORD CONTROLLED CURTAIN RUNWAY

For smooth and trouble-free operation the 'Rufflette' brand Cord Controlled Curtain Runway is recommended for use in large establishments such as hotels, residences and offices where curtains receive constant usage. It is of simple construction and quickly fitted without dismantling. 'Rufflette' brand Cord Controlled Curtain Runway will fit all straight windows.

Architect's Journal: the following Information Sheets are available and will be sent on request to manufacturers.
SHEET 44 D.1. ('RUFFLETTE' RECESSED RUNWAY). SHEET 44 D.2. ('RUFFLETTE' B/L and M Type Runways).

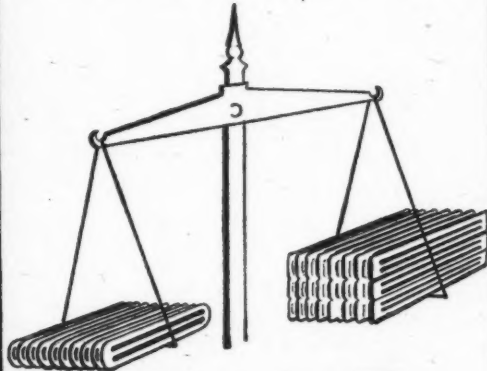
'Rufflette' BRAND

MANUFACTURED BY THOMAS FRENCH & SONS LTD., CHESTER ROAD, MANCHESTER 15
 FACTORIES: Manchester, Wythenshawe, Fall River, Mass., U.S.A. LONDON OFFICE: 156-162 Oxford Street, W.1

Also at BRITISH EMPIRE BUILDING, NEW YORK CITY, and 751, VICTORIA SQUARE, MONTREAL

Why Neater? Where Sturdier?

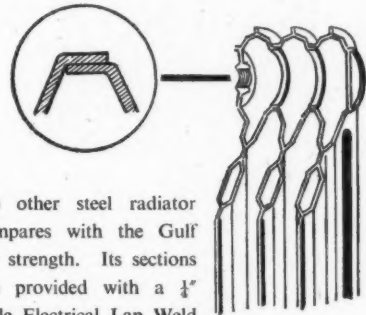
Because of the smooth surface of the steel used, Gulf Steel Radiators possess a first-class finish which does not harbour dust. Gulf patterns are modern and pleasing in



design. To give maximum accessibility for cleaning both behind and below, and to enable floor coverings to be laid flush with the wall, it is recommended that Gulf Radiators should be hung on the wall with Gulf Wall Brackets, which are supplied free. Because of the light weight of Gulf Radiators (one-third the weight of cast-iron) this is perfectly practicable without resorting to special reinforcing.



The construction of the Gulf pressed steel radiator defies the roughest handling in transit, during erection and throughout its long working life.



No other steel radiator compares with the Gulf for strength. Its sections are provided with a $\frac{1}{4}$ " wide Electrical Lap Weld

around the edges and are joined by the Gulf world-patented collar welding process which also involves an electrical lap weld of $\frac{1}{4}$ " width.

Concrete evidence of Gulf's superior strength lies in the fact that radiators can be supplied for High Pressure Hot Water Systems guaranteed to pressures of over 100 lbs. per sq. in.

Available in Column or Wall patterns — the latter being particularly recommended for Schools, Hospitals, Municipal and Public buildings. Ask for our descriptive catalogue giving full range of sizes.

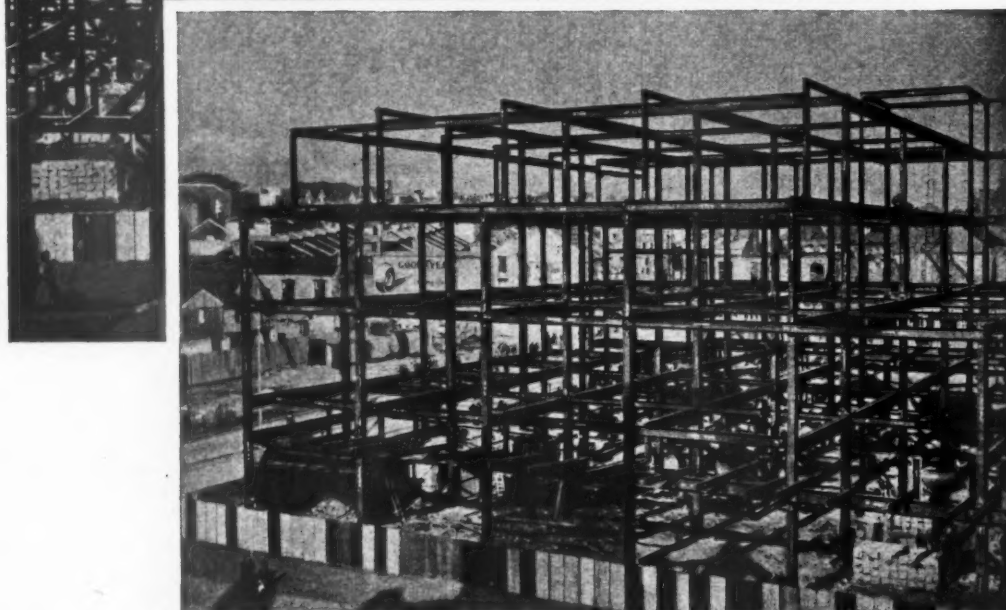
GULF PRESSED STEEL RADIATORS

Warms the World — naturally

Gulf Radiator Co. Ltd., Penarth Road, Cardiff - Telephone 9227
London Office: 7 Lygon Place, S.W.1 - Telephone SLOane 8122-5



PLYMOUTH RE-BUILDS



Steelwork of the large new department store
for Messrs. E. Dingle & Co. Ltd.

Architects: Sir J. Burnet, Tait & Partners :: Consulting Engineers: John F. Farquharson & Partners

DAWNAYS LIMITED BRIDGE AND STRUCTURAL ENGINEERS

HEAD OFFICE: Steelworks Rd., London, S.W.11: Telephone BATTERSEA 2525.

King's Dock Works SWANSEA 3185	East Moors Works CARDIFF 2557	54 Victoria St., London, S.W.1 VICTORIA 1541	Bridge Rd. Works WELWYN GDN. 242	Thorpe Works NORWICH
2 Rockstone Place SOUTHAMPTON 2474	40 Park Road PETERBOROUGH 4547	155 Princes Avenue, HULL HULL, CENTRAL 8161	Western Chmrs., South St. ROMFORD 2106	7 The Close NORWICH 23141

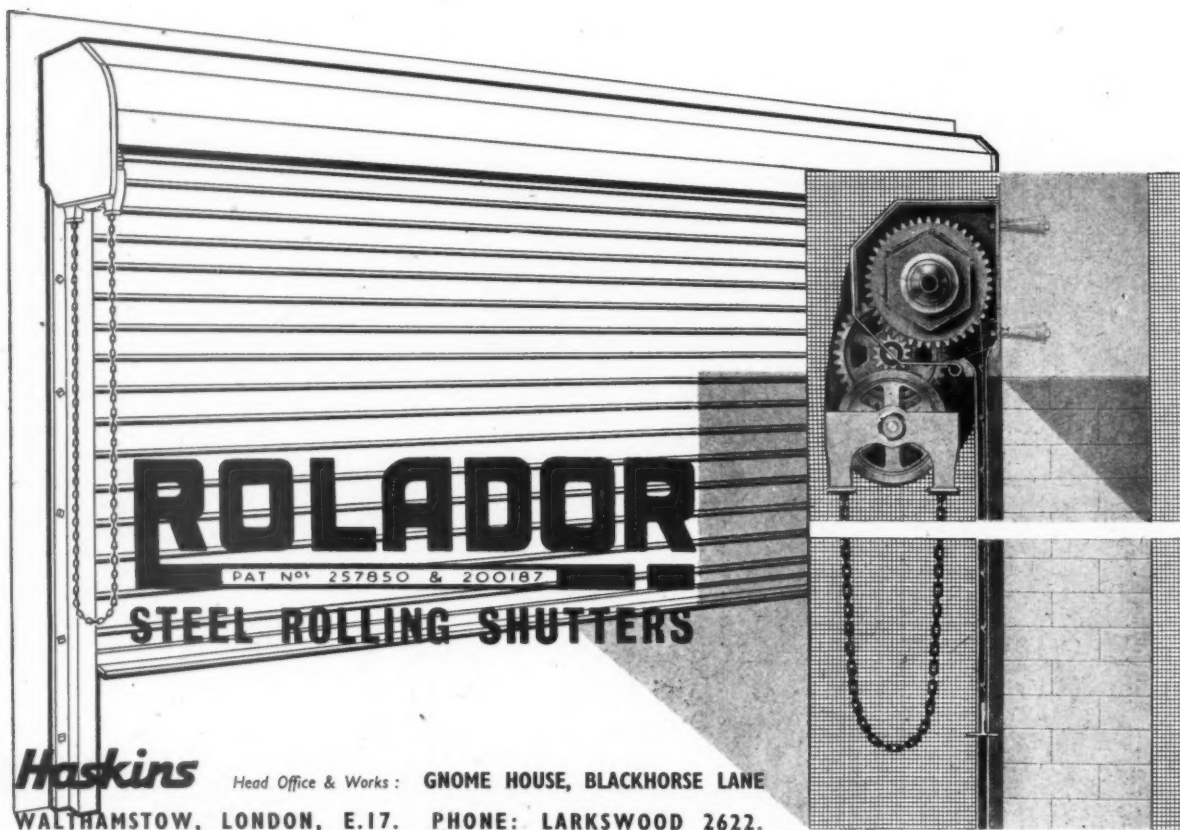
Cables and Telegrams "DAWNAYS, LONDON"—Code Bentley's 2nd.



A constant ingredient in architectural design of distinction

CARTER & CO. LIMITED · POOLE & LONDON

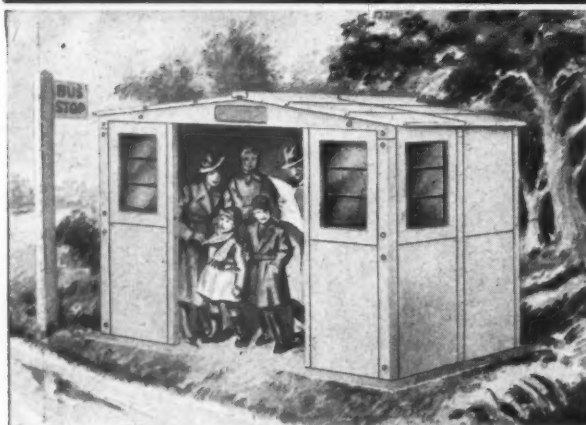
—tiles by **CARTER**



ROLADOR
PAT NOS 257850 & 200187
STEEL ROLLING SHUTTERS

Haskins Head Office & Works: GNOME HOUSE, BLACKHORSE LANE
WALTHAMSTOW, LONDON, E.17. PHONE: LARKSWOOD 2622.



Build the **BATLEY** way... with your own employees



BATLEY SECTIONAL CONCRETE BUS SHELTERS

A typical example of the adaptability of Batley Building Units, this Sectional Concrete Bus Shelter will have a special attraction for Councils and local authorities who can employ their own unskilled labour for its erection. With no prepared foundation necessary, and no parts to fix in the ground, it can be erected by two men in approximately four hours. It is permanent yet portable—a real boon when a bus stop is moved. Fixed steel framed windows are interchangeable with wall panels. Approximately half the cost of a similar brick built construction, it is completely weatherproof and fireproof and will last a lifetime without maintenance. These bus shelters have already been supplied to many local authorities throughout the country.

Batley Concrete Building Units offer a new technique in the erection of the smaller type of concrete building. Using standardised tongued and grooved concrete units, aluminium alloy nuts and bolts, an infinite variety of buildings can be erected by unskilled labour—such as your own employees—in a few hours, showing an amazing saving in labour and material costs. The units are simply placed together—tongue in groove—and bolted up. There are no parts to fix in the ground—a firm level foundation is all that is required. Once erected Batley Buildings require no maintenance and last a lifetime. They are the cheapest buildings on the market today. A fully descriptive Brochure will be sent free on request.

 DESIGN CB 11' x 5' 8" x 6' 3" clear height £31 : 10 : 0	 DESIGN AB 11' x 5' 8" x 7' 9" clear height £37 : 5 : 0
--	--

ERNEST BATLEY LIMITED 63 Colledge Rd • Holbrooks • COVENTRY Tel. 89245/6
The originators and world's largest manufacturers of sectional concrete buildings

RADIATION GROUP SALES LIMITED announce the formation of a Solid Fuel Division to take over the Sales Organisation of the three production units controlled by Radiation Limited.† This development will bring immediate benefits to all those who specify or supply solid fuel cookers, convector fires, slow combustion stoves and other solid fuel-burning appliances. It will allow better correlation of research and development, which will ensure the earliest practical application of new discoveries and the embodiment of the most progressive trends in the design of apparatus. It will result in a more flexible production plan, enabling output to keep pace with demand and thus speeding up deliveries. And it will provide a central information service on all problems regarding solid fuel appliances, recruited from the combined technical departments of the three production units.

The Radiation Group will continue to supply apparatus of all types covered by the Ministry of Fuel and Power's Approved List. Please address all enquiries to the Solid Fuel Division of Radiation Group Sales Ltd., Leeds, 12.

SOLID FUEL *Radiation* APPLIANCES

†THE THREE PRODUCTION UNITS ARE: *WILSONS & MATHIESONS, LTD., ARMLEY, LEEDS*

THE EAGLE RANGE & GRATE CO., LTD., ASTON, BIRMINGHAM, 6

THE PARK FOUNDRY (BELPER) LTD., BELPER, DERBYSHIRE

Craftsmen
in
Ornamental and Solid Plasterwork
Interior Decoration

CLARK & FENN LTD

16 OLD TOWN. LONDON, S.W.4

MACAULAY 2455-6-7



Fencing erected at Goosley Lane Estate, The County Borough of East Ham.
Reproduced by the courtesy of the Chief Housing Officer, J. E. AUSTIN, ESQ., M.B.E., F.S.I.A.

"Winslot" Type 2 is the ideal PERMANENT Fence for Industrial and Municipal sites. It is manufactured by a new method to give a consistent quality finish. Reinforcement of all Units is perfectly covered by means of patent bar spacers. Units are cast in a Sepia shade of brown colour which produces a mature and pleasing appearance. Available in heights from 1 ft. 8 in. to 7 ft. 9 in., with or without trellis. It incurs no subsequent upkeep costs, and on this basis is competitive with timber fencing.

Enquiries invited for supply and erection by

METROPOLITAN CONCRETE WORKS LTD.

(Fencing Dept.) IMBER COURT, EAST MOLESEY, SURREY

Telephone EMBERBROOK 2211/2

Proprietors of the "WINSLOT" Registered Designs

The first cost is
the **LAST COST**
with the



LICENSEES in England and Northern Ireland who will be pleased to deal with local enquiries :-

THE BRITISH "FRAM" CONSTRUCTION CO. (1911), LTD.
Fram Works, Whitchurch, Glam.

WETTERN BROTHERS (NOTTINGHAM) LTD., Trent Bridge, Nottingham.

COWLEY CONCRETE CO. LTD.,
Radley Road, Abingdon, Berks.

WETTERN BROTHERS LTD.,
29, Oxford Street, Newcastle-on-Tyne, 1.

DEVON CONCRETE WORKS,
LTD., Barnstaple, North Devon.

WETTERN BROTHERS (MANCHESTER) LTD., 559a, Wilbraham Road, Manchester, 21.

THE PARKFIELD CONCRETE PRODUCTS CO. LTD., Nether-ton, Dudley, Worcs.

WETTERN BROTHERS LTD., 64, Potternewton, Crescent, Leeds, 8.

WORKMAN LIMITED, 465, Springfield Road, Belfast.



Water, Soap, Grease, Smoke, Soot, Acid *

None of these can affect the hard, brilliant, fire-finished surface of

“VITROLITE”

*the modern, easily-cleaned glass facing
for interior and exterior walls*

Range of colours available: Black, White, Green, Green Agate, Primrose, Turquoise, Shell Pink and Pearl Grey. “VITROLITE” is $\frac{5}{16}$ " thick and is supplied in the following ashlar sizes: 10" x 15", 12" x 18", 15" x 15", 14" x 21".

Supplies are available through the usual channels.

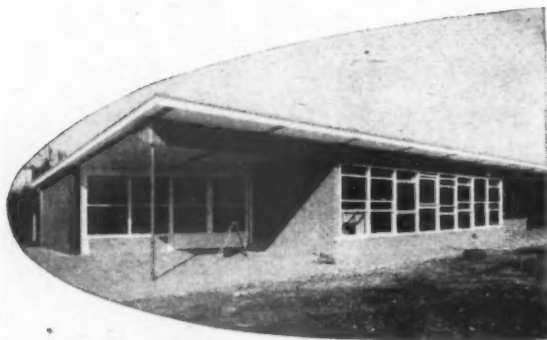


Architects and Architectural Students are invited to consult our Technical Sales and Service Department at St. Helens, or our West End Office at Selwyn House regarding the properties and uses of glass. Head Office and Works: St. Helens, Lancashire. Tel: St. Helens 4001. West End Office and Showrooms: Selwyn House, Cleveland Row, St. James's, S.W.1. Tel: WHiteball 5672-5676.

PILKINGTON BROTHERS LIMITED

“VITROLITE” is the registered trade mark of Pilkington Brothers Limited.

★ except Hydrofluoric



"TURNALL"

REGD. TRADE MARK

Asbestos-Cement

CAVITY DECKING

Patent No. 620,012



LIGHT WEIGHT — DRY CONSTRUCTION

— FOR FLAT OR PITCHED ROOFS

One unit provides :

- A roofing deck over—
- a finished ceiling, in one operation.
- Cavity construction with efficient thermal insulation.
- High strength factor with supports at 8 ft. 3 ins. centres.

The illustration shows the "ASCOS" Nursery School, at Cookham, Berks.

Architect : John Stillman, A.R.I.B.A., Dip.Arch. (Lond.)

RESISTANCE TO IMPACT

During tests, a section of "TURNALL" cavity decking safely withstood an impact blow of 350 ft. lbs.



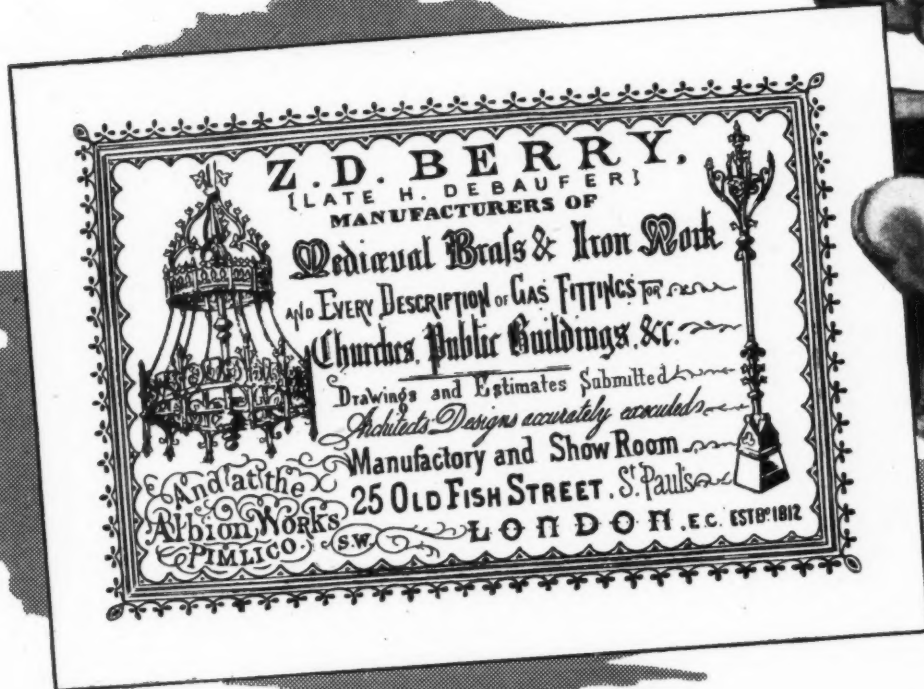
WRITE FOR ILLUSTRATED LITERATURE

TURNERS ASBESTOS CEMENT CO LTD

A MEMBER OF THE TURNER & NEWALL ORGANISATION

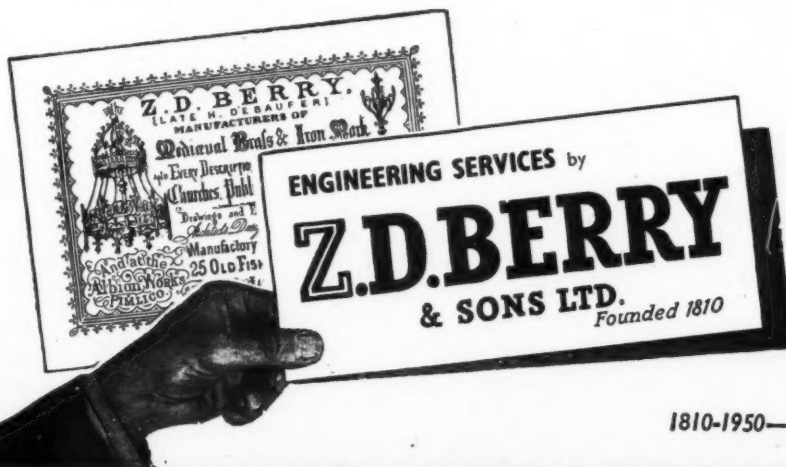
TRAFFORD PARK

MANCHESTER 17



A matter of history

We have gone a long way since the Mr. Berry of Regency days published this announcement. From small beginnings 140 years ago we have built up an organisation expert in all work requiring specialised piping—plumbing, heating, ventilating, steam and other services—in factories, hospitals, public buildings, flats and offices. But although there have been great advances, we still maintain the traditions of quality, craftsmanship and personal service which the first Mr. Berry so firmly established.



1810-1950—140 years' Experience

HEATING, VENTILATING & PLUMBING CONTRACTORS

Z. D. BERRY & SONS LTD., 16 REGENCY ST., LONDON, S.W.1

Telephone: VICTORIA 6136

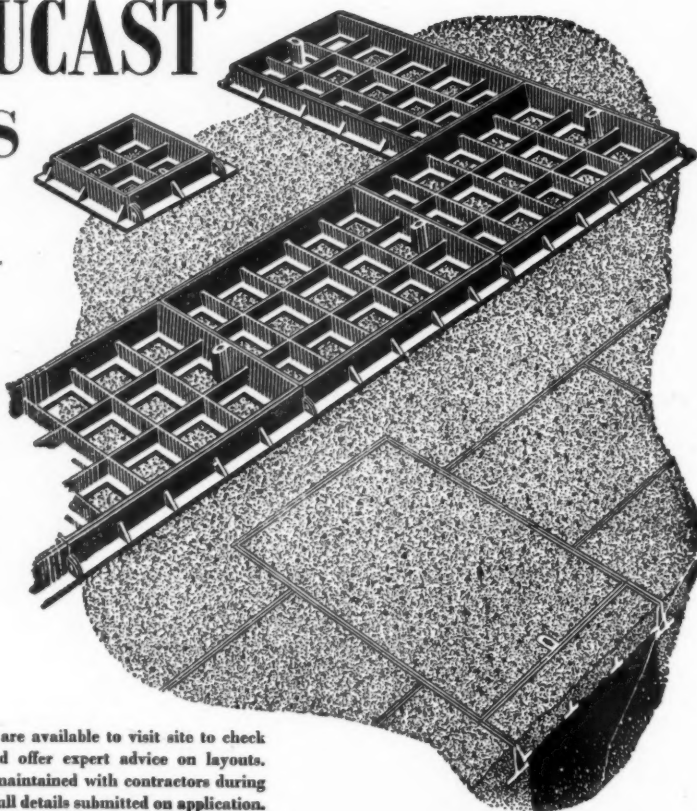
and at WARRINGTON & DONCASTER

'BROADS TRUCAST' DUCT COVERS

*Specially designed
for use in —*

POWER STATIONS, HOSPITALS
SCHOOLS, KITCHENS
LABORATORIES, BOILER HOUSES, ETC.

'Broads Trucast' Duct Covers are available in widths from 6" to 36", with Cast Iron Sectional Frames for bolting together to form continuous runs, with necessary angles and branches of various sizes. The Cast Iron Covers and Frames have machined seatings and the covers are recessed for filling on site to match the surroundings.



BROADS

★ Technical Staff are available to visit site to check final details and offer expert advice on layouts. Liaison is also maintained with contractors during installation. Full details submitted on application.

MANUFACTURING CO. LTD. 4 SOUTH WHARF, PADDINGTON, LONDON, W. 2 Tel.: PAD. 7061 (20 Lines)

Flooring . . . for the future

RITZIDE, the new leather plastic flooring, combines durability with a beautiful surface and a warm, quiet tread. It is specially suitable for schools, hotels, private houses, and wherever traffic is heavy and good appearance is important. The surface is dustless, damp-resisting and fireproof, and it will neither crack nor disintegrate.

RITZIDE is available in a number of pleasing colours and designs. Samples and prices sent gladly on request.

LEATHERFLOR LIMITED

London Office: Wellington Works,
Wellington Road, Forest Gate, E.7.
Maryland 3786.

Scottish Office: Inch Mill, Arbroath,
Angus, Scotland.

'Phone: Arbroath 3271.

N.E. England Depot: 3, Oldgate,
Morpeth, nr. Newcastle-upon-Tyne.



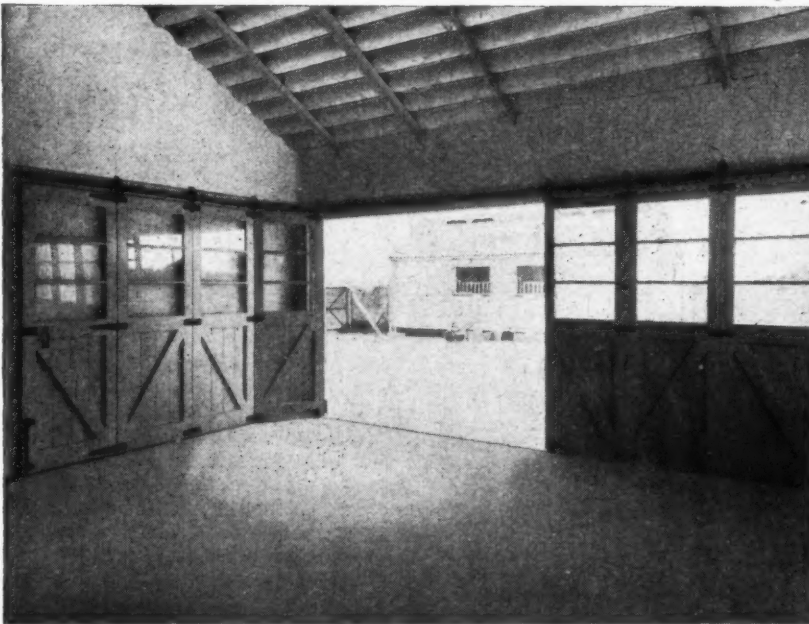
KING

FINE PRODUCTS

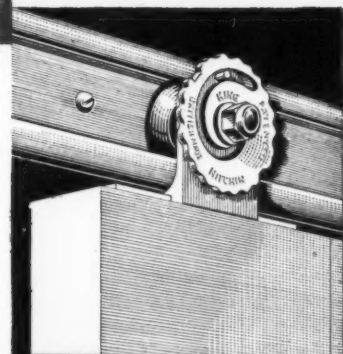
**OFFER A COMPLETE RANGE OF
SLIDING DOOR GEAR
SUITABLE FOR ALL NEEDS**

These illustrations, whilst showing some of the many applications of KING Sliding Door Gear, are but a few of the systems and types of Sliding Door Gear available in the KING Range of Door Fittings. We welcome all enquiries and our technical staff is always at your service. Should your particular requirements not be shown, please get in touch with us for details of our many other types of Sliding Door Gear.

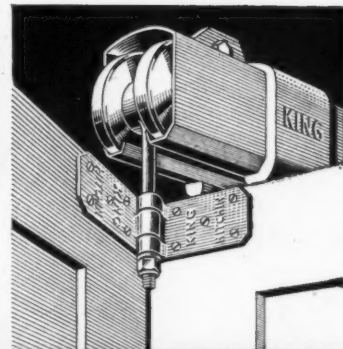
Illustration below shows a recently built garage equipped with KING Sliding Door Gear. The doors are mounted on KING "Major" Out-of-the-Way and Around-the-Corner Gear, sliding to either side of the opening.



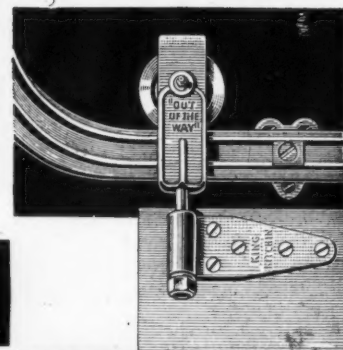
KING TUBULAR TRACK is available in 6 sizes and suitable for straight sliding doors up to 2 tons.



KING "HOMESTIC" (light alloy) TRACK is expressly for straight sliding interior doors.



KING TUBULAR TRACK for folding or around the corner doors up to 5 cwt. per leaf.



KING MAJOR TRACK for folding or around the corner doors up to 3 cwt. per leaf.

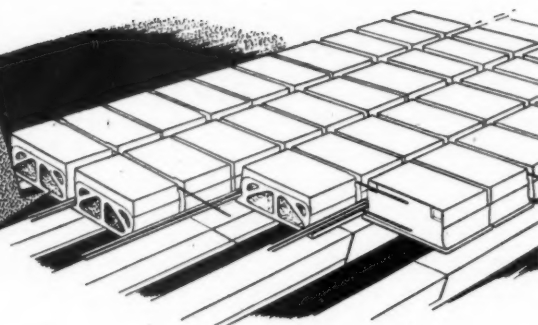
GEO. W. KING LTD
D.G.B. WORKS · HITCHIN · HERTS

PHONE
HITCHIN 960

WRITE FOR ILLUSTRATED BOOKLETS

KING Sliding Door Gear is available ex-stock from most Builders' Hardware Merchants.

fireproof FLOORS



*With the unique Telescopic
Centering in all types of Buildings*

The Smith Two-way reinforced fireproof floor can be employed for any flooring or roofing requirement.

Work can commence on the site within 3/4 days of receipt of details.

The employment of Patent telescopic centers permits the immediate use of the floor with the additional advantage of their removal in the minimum of time.

Working space for other trades not obstructed by props and timber shuttering.



SMITH'S FIREPROOF FLOORS LIMITED
(Dept AJ.) Imber Court, East Molesey, Surrey
Phone: Emberbrook 3300

**2 WAY REINFORCED
FIREPROOF FLOORS**



**INFORMATION SHEETS
free on request**



A LOFT LADDER

increases house space
by 20%.

PRICES FROM £12-10-0

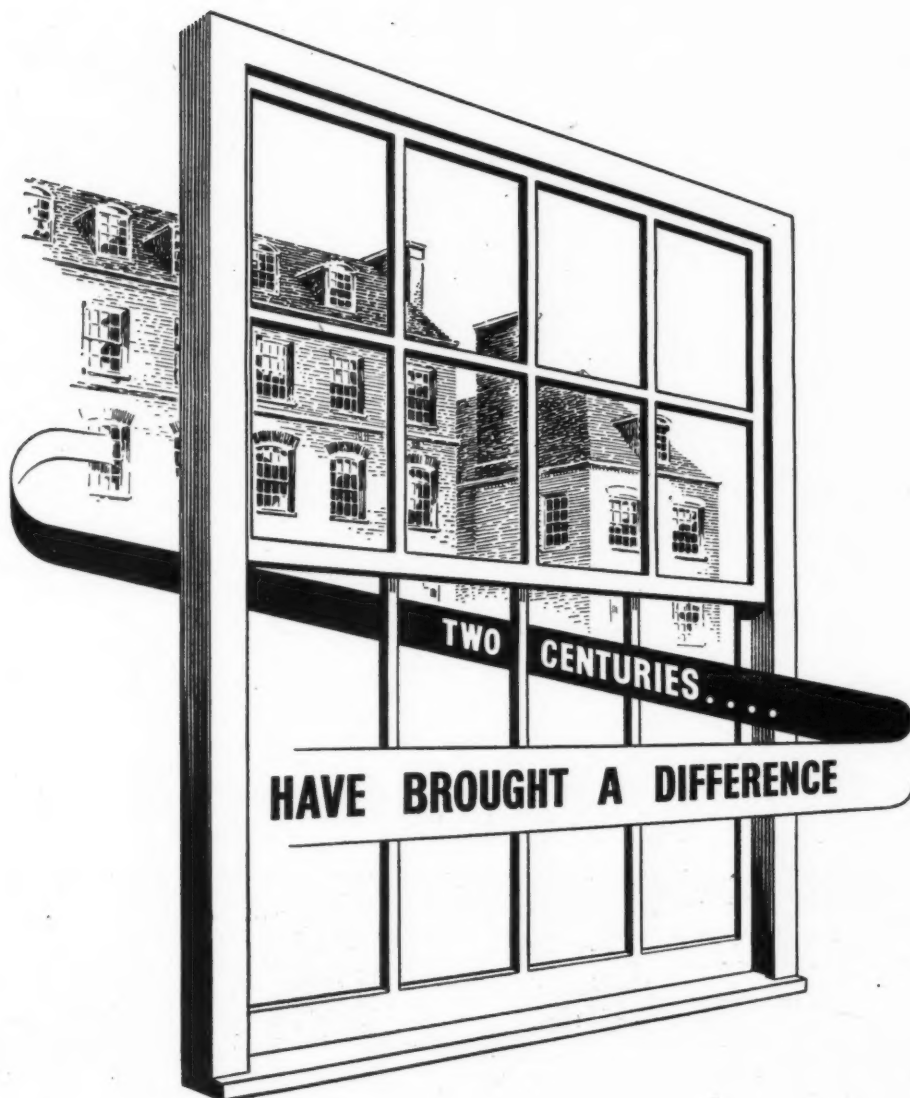
Government restrictions on the building of new houses, emphasises the need for using all available space in every home. The loft for instance can increase the living space of the average house by at least 20%. With a Loft Ladder access is as safe and easy as walking up the stairs. Information sheets issued on request, show in detail how this space may be made available both in new work and conversion.

Write for full particulars and prices of the various types.

LOFT LADDERS LTD

The first and original inventors of Loft Ladders and Loft Access Stairs.

BROADWAY WORKS, BROMLEY, KENT
Tel.: RAVensbourne 2624



—but not in the medium used. During the Queen Anne and Georgian periods, the long-established side-hung casement window was almost entirely superseded by the “double-hung” or fixed sash. Now—as then—it is true, wood is still the unchallenged medium for this style of window. But today—although the sash principle has changed but little—the influence of standardisation has made possible a new economy of design. Not only in design, but in craftsmanship and materials, EJMA marked joinery sets the standard of guaranteed quality. EJMA Standard Sash Windows give the maximum light and ventilation. They are also proof against weather, dust and draughts to an exceptional degree. EJMA Standard Sash Windows, both spring-balanced and weight-balanced, may be specified with complete confidence.

SPECIFY

EJMA
CERTIFICATION TRADE MARK

THE GUARANTEE OF JOINERY EXCELLENCE

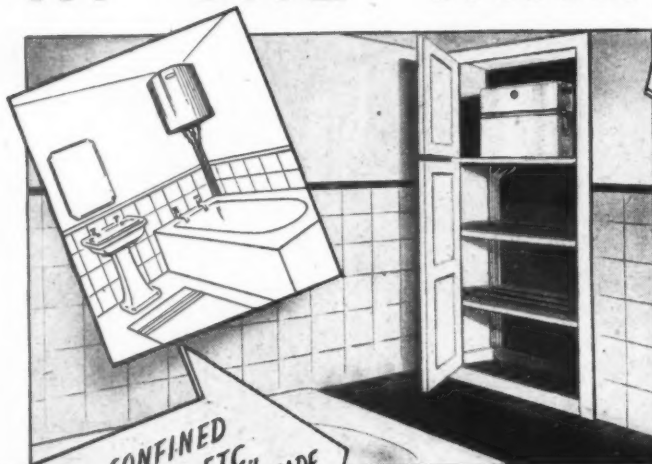
The Trade Mark is a guarantee of quality since it may only be used by licensed producers who undertake to conform to the designs and specifications of the Association, a list of whom may be obtained from the Secretary of the Association.

VISIT OUR STAND AT



THE ENGLISH JOINERY MANUFACTURERS ASSOCIATION (INCORPORATED)
SACKVILLE HOUSE, 40 PICCADILLY, LONDON, W.1. REGENT 4448

A COMPLETE HOT WATER SYSTEM IN ONE TANK



**SPECIFIED BY
MORE THAN 300
LOCAL AUTHORITIES**

**IDEAL FOR CONFINED
SPACES CORNERS ETC.,
THE RECESSED TYPE CAN BE MADE
DOWN TO A BACK TO FRONT
MEASUREMENT OF ONLY 12 INCHES**

Simplicity for Plumbing, Compactness for limited spaces, Accessibility after fixing, and far greater Heating Efficiency are the characteristics of the Rolyat system which have outmoded the tank and cylinder and convinced heating engineers and local authorities throughout the country of its superiority.

Several types and sizes are available for both Hard and Soft water areas and in various designs and capacities.

The manufacturers will be pleased to send complete specifications on request.

ROLYAT ^{PATENT} HOT WATER TANKS

THE ROLYAT TANK CO. LTD. · CROMWELL ROAD · YORK

STORES LIGHTING

**SPACE
DISPLAY
WINDOW**

**Scientifically
planned
lighting**

ALLOM BROTHERS LTD.
LIGHTING SPECIALISTS

**LOMBARD ROAD
LONDON, S.W.19**

AND AT SOUTHAMPTON TEL: 72471

TELEPHONE
LIBERTY 7636-7-8

TELEGRAPH
ALLECTOR, WIMBLE

MEMBER OF THE ELECTRIC LIGHT
FITTINGS ASSOCIATION



BY APPOINTMENT
MAKERS OF ELECTRIC LIGHTING FITTINGS
TO H.M. KING GEORGE VI

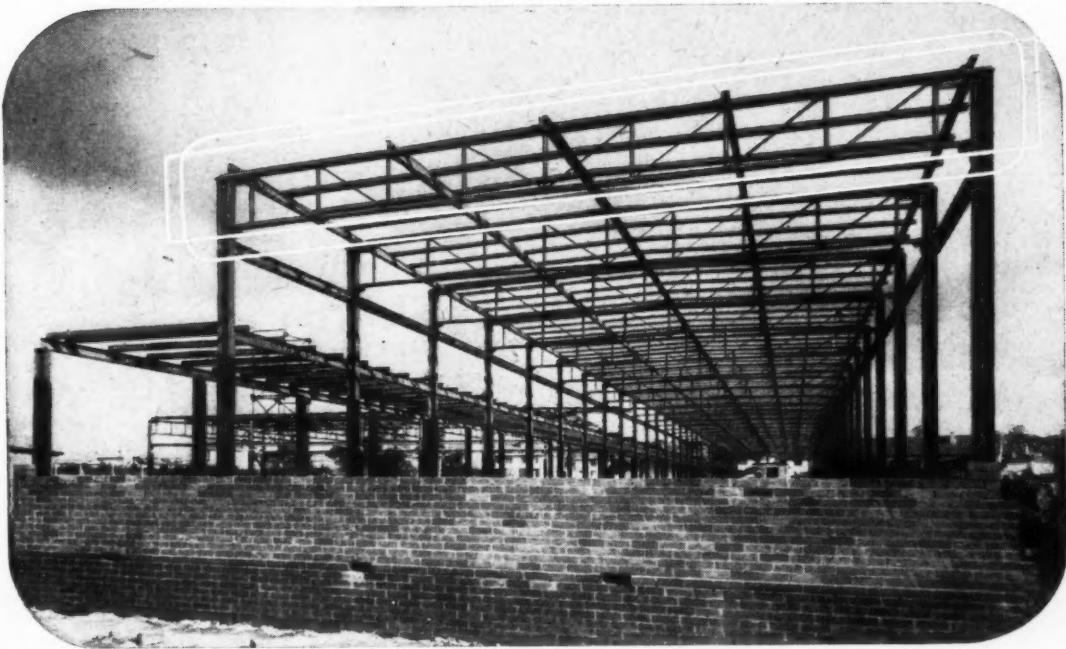


BY COURTESY OF
BOBBY'S OF BOURNEMOUTH

CONSULTING ENGINEER
A.W. JERVIS, F.I.E.S. A.I.E.E.

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.

MITCHAM

WELDED STRUCTURES DIVISION

SURREY

Telephone: MITCHAM 3400 (18 lines)

Telegrams: SCAFCO, MITCHAM

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



Constructed by S.G.B.

*There was
a time ...*



... when the transportation of our bricks was made by barges along the Thames, and by massive dray horses pulling their carts through cobbled streets. All this was done as efficiently and as speedily as facilities of those days would permit. Nowadays, the picture has changed somewhat; no longer do Eastwoods employ barges to transport their merchandise, and only occasionally does one hear the clatter of hoofs along the thoroughfares, but the echo of those bygone days comes back through the same up-to-date efficiency and the same courtesy and quality as was to be found in 1815 when Eastwoods first made their mark in the world of Building Materials.

Eastwoods

FOR ALL RELIABLE BUILDING MATERIALS

BRICKS, CEMENT, TILES, SANITARY APPLIANCES, FIREPLACES, PAINT, DISTEMPERS, ETC.

EASTWOODS SALES LIMITED

EASTWOOD HOUSE, 158-160 CITY ROAD, LONDON, E.C.1

TELEPHONE: CLERKENWELL 4333 (20 LINES)

TELEGRAMS: EASTWOOD, AVENUE, LONDON

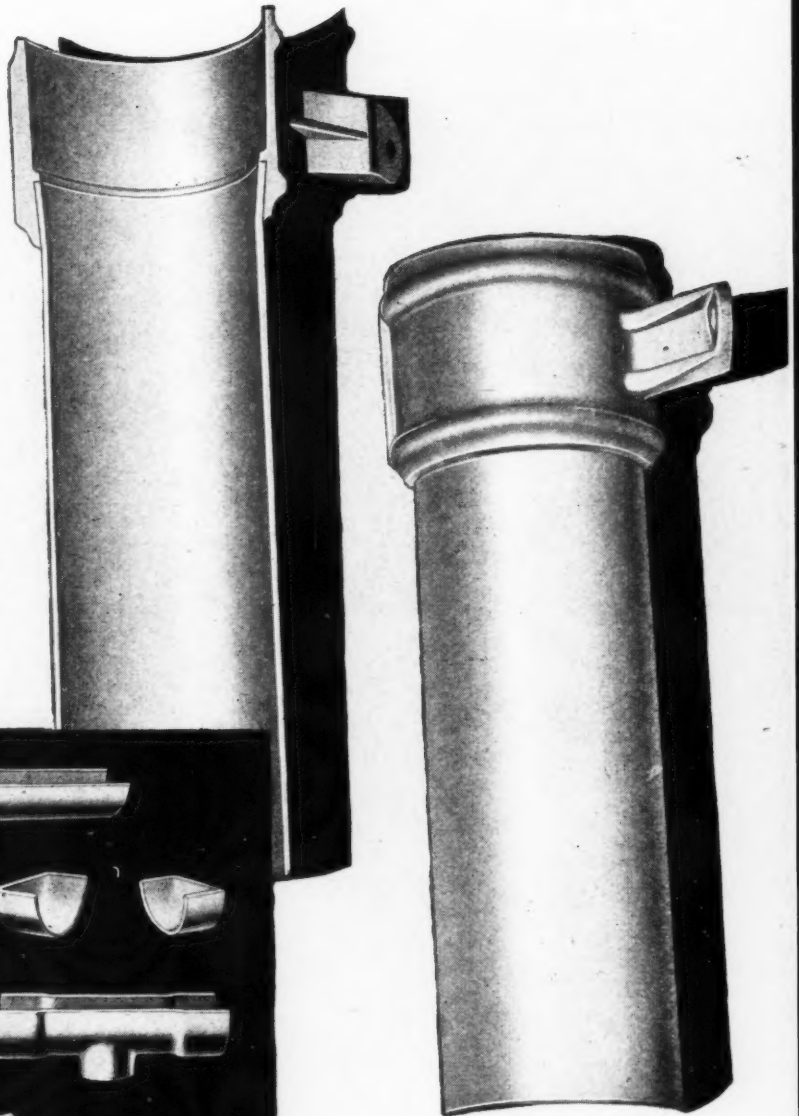
T
h
to
p
a
r
r
d
In
d
v
s
a

B
B I

ALUMINIUM RAIN-WATER GOODS



The "cast-on" socket (Patent No. 598,945) has been specially designed with the ears offset to eliminate the use of bobbins. The robust proportions and the strength of the aluminium alloy enable these projections to withstand rough handling in transit and on site. The rain-water pipes are made of extruded and drawn aluminium tubes which can be supplied in lengths up to 18 ft. A modern two-storey dwelling can be covered by a single pipe without the expense of jointing. Lightness, strength and ease of handling offer a worthwhile saving in erection costs



BIRMID RAIN-WATER GOODS
BIRMID WORKS, SMETHWICK 40, STAFFS



The Architects' Journal
for July 20, 1950

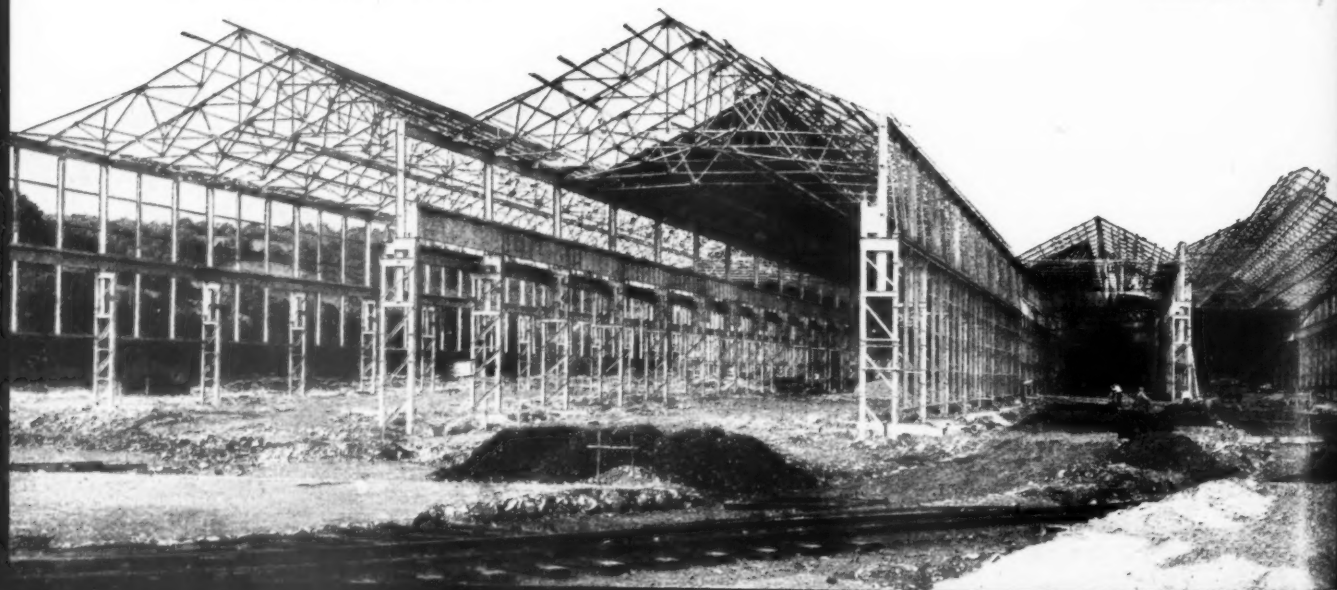


STRUCTURAL STEELWORK BY
REDPATH BROWN
AND CO. LTD., ALBEMARLE STREET
LONDON, W.1.

The photographs show the
West Works for Northern
Aluminium Co. Ltd.,
Rogerstone.

Architect:
Gilbert T. Gardner, F.R.I.B.A.

General Contractors:
Hinkins & Frewin Ltd.





show the
Northern
Ltd.,
e.

F.R.I.B.A.

ors:
in Ltd.





Th
I
br
fo
w
in
at

o
F
fo
p
a
v

a
h
w



THE ARCHITECTS' JOURNAL

No 2893 20 July 1950 VOL 112

EDITORIAL BOARD: (1) *Consulting Editor*, F. R. Yerbury Hon. A.R.I.B.A. (2) *Guest Editor* Raglan Squire F.R.I.B.A. of Arcon (3) *House Editor*, J. M. Richards A.R.I.B.A. (4) *Technical Editor*, R. Fitzmaurice, B.Sc., M.I.C.E., Hon. A.R.I.B.A. (5) *Editor Information Sheets*, Cotterell Butler A.R.I.B.A. (6) *Editorial Director*, H. de C. Hastings. SPECIALIST EDITORS*: (7) Planning (8) Practice (9) Surveying and Specification (10) Materials (11) General Construction (12) Structural Engineering (13) Sound Insulation and Acoustics (14) Heating and Ventilation (15) Lighting (16) Sanitation (17) Legal.

ASSISTANT EDITORS: *Chief Assistant Editor*, D. A. C. A. Boyne *Assistant Editor* (News), K. J. Robinson *Assistant Editors* (Buildings), L. F. R. Jones, A. P. Lambert *Assistant Editor* (Information Sheets) E. G. Johnson *Photographic Department*, E. R. H. Read, H. de Burgh Galwey *Editorial Secretary*, Betty E. Harris

* To preserve freedom of criticism these editors, as leaders in their respective fields, remain anonymous

9, 11 & 13 Queen Anne's Gate, Westminster, London, S.W.1 Whitehall 0611

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. Half-yearly volumes can be bound complete with index in cloth cases for £1; carriage 1s. extra.



THE AA PRIZEGIVING

I haven't the space for more than a brief mention of the proceedings in Bedford Square on Friday, which were as well organized as always. The marquee in the middle of the square is becoming an annual institution; long may it recur.

*

Jordan's report I thought a model of its kind, the lion of the afternoon, Frank Lloyd Wright, was in sparkling form and Anthony Chitty's speech, proposing a vote of thanks, was particularly apt and able: witty but brief, as all votes of thanks ought to be.

*

The exhibition of students' work—or as much as I could see of it over the heads of the crowd—looked to be well worth several further visits; an agree-

able ending to an unusually stimulating session.

WEDNESDAY FORUM

Students who were able to squeeze into the Wednesday Forum at the AA last week told me that Frank Lloyd Wright, who was guest speaker, ran true to his usual form and delivered himself of a number of critical statements. Emphasizing the importance of the spirit of the architect as the most significant factor in his architecture, he expressed doubts as to whether a school of architecture was any help to him at all. "Organic architecture is from within outwards," said the speaker, "and depends on the developed individuality of the architect."

*

It appeared that he did not see much hope for the kind of work so popular among students today: "The addition and multiplication of boxments . . . the product of egotism and conceit . . . humble hypocrisy and not honest arrogance." He avoided any rather ticklish questions. And when asked if he admired the work of contemporary architects, he replied: "They have my sympathy."

RAGLAN SQUIRE AND ARCON

Readers may notice, elsewhere in this issue, an announcement that Raglan Squire is retiring from the Arcon partnership and setting up in practice under his own name. I am asked to make it clear that this change does not affect his and Arcon's membership of the AJ editorial board. As guest editors of the AJ they will continue in association for the remainder of the year.

GOLD COAST OPENING

A colleague who knows West Africa

has asked me to draw attention to the need for really wide-awake town-planning architects in the Gold Coast. Apparently they now have quite advanced town-planning legislation there, are keen on planning and are developing at an extraordinarily rapid pace. So here is an opportunity for planners with architectural experience not only to find scope for their energies but, at the same time, to help, as far as planning goes, a young country, which is anxious to learn.

*

He tells me that planners will either be taken on to the permanent Gold Coast Government staff, or will be given a contract for two tours of duty lasting 18 to 24 months each. The salary is about £700 a year upwards according to age, experience and qualifications, with various allowances in addition. The qualifications are associateship of the TPI, associateship of the RIBA (or the Institutions of Civil Engineers or Municipal Engineers) and three to five years' town-planning experience.



Astragal is aware that students invariably cast inhibitions aside at the end of term. Even so, he was puzzled by this strange behaviour at the AA School (recorded by one of his spies last week) until he was shown the photographs on page 53.



WESTMINSTER SCHOOL

College Dormitory (reconstructed after bomb damage)

reopened on Tuesday, June 6th 1950

*Architects : Sir Hubert Worthington, A.R.A.
and A. L. N. Russell, F.R.I.B.A.*

CONTRACTORS

HOLLOWAY BROTHERS

(LONDON) LIMITED

MILLBANK

WESTMINSTER

Here is a chance for someone who is really ambitious to *practise* town-planning. Applicants should write to the Director of Recruitment (Colonial Service), Sanctuary Buildings, Great Smith Street, SW1, quoting reference 27281/26.

ELIEL SAARINEN

Last week I recorded the death of Eliel Saarinen, Finnish architect of Helsinki railway station, who has practised for the last twenty-five years in America. I now learn that Finland has decided to give him a State funeral, and the body is now on its way to Helsinki. This is a very rare honour. Only ten people have been given a State funeral since the Finnish republic was founded at the end of the 1914 war. Four of these have been architects—an indication of the prestige of architecture in the Scandinavian countries.

*

On account of this decision, Alvar Aalto has had to cut short his visit to England by a couple of days. As president of the Finnish institute of architects he has had to hurry back to Helsinki to play his part in organizing the funeral ceremonies.

YOUNG DESIGNERS

Designers of the present generation will have to look to their laurels, because there is a new generation coming along that already shows remarkable attainments—at least that is the impression I brought back from a visit to the exhibition of the work of students and staff of the Royal College of Art now to be seen at the RBA Galleries, Suffolk Street.

*

Architecture has but a small part in it, as the RCA does not run a course for training architects, but uses architecture to provide a basic training for design students generally. Nevertheless architects should see what their colleagues of the industrial arts are doing, and will be specially interested, I think, in the furniture (R. D. Russell's students), the textiles and the stained glass. The possibilities of the latter as a modern art medium—when it gets right away from the ecclesiastical conventions—are shown to be immense.



The photograph on the left offers a solution to the problem picture on page 51 which is, in effect, a study of human reaction to the inevitable. The two students shown on that page found there was no room for them at the Frank Lloyd Wright Lecture in the AA dining room. One accepted the situation with resignation, the other cast dignity aside and managed to hear the master's outspoken views on architectural education. Later on the same day, as seen below, the students regaled Lloyd Wright with eggs, bacon and questions.



AVE SPAZIO!

Astragal hesitates to expend his dwindling reserves of enthusiasm on new magazines, however glossy and polychromatic: too many of them recently have failed to last for more than a couple of issues. But the latest arrival, from Italy, does deserve a greeting. For one thing, its first number contains enough material for at least three issues of most of the elegant quarterlies that have been flourished at us in the last year or two.

*

Spazio (or *space*, if your Italian is rusty) is to appear monthly—no, I beg its pardon, eleven times a year. Edited by the architect Luigo Moretti, it describes itself as a review of art and

architecture; the emphasis, clearly, is on architecture as the mistress art. In format (13 by 10 inches) it is not unlike *The Architectural Review*; its layout also seems to owe something to the same model.

*

And its contents? Modern buildings and interiors, a design for a vast new hangar at Buenos Aires, a well illustrated survey of Italian architecture since the war, an article on the Futurist painter and sculptor Umberto Boccioni (whose work you can see, by the way, in the current exhibition of modern Italian art at the Tate), an essay on Futurism in general, full-page reproductions of Italian primitives, an archaeological study of the Temple of



Poland Rebuilds

This illustration of the Church of the Holy Virgin at Gdansk, in course of reconstruction, is taken from an exhibition, "Historical Treasures of Poland," which is on view at the RWS Galleries, 26, Conduit Street, W.1. This exhibition shows, with the aid of photographs, some of the remarkable work that is being carried out in the restoration and preservation of historical monuments and buildings, "indispensable elements in the building of the new socialist culture." Naturally, many new problems in connection with the principles and technique of conservation have arisen since conservation work began in 1945. And it is because they believe that the methods

used to solve these problems may be of wide interest that Poland's Ministry of Culture and Fine Arts has organized this small exhibition. A "before-and-after" technique is used in this display of photographs, which shows buildings before the war, immediately afterwards, in a state of partial restoration and as they are now. Perhaps the most notable achievement shown is the building of Warsaw's new east-west road-tunnel which by-passes the central area and allows it to be rebuilt almost as it was. It is hoped that a more ambitious exhibition, showing reconstruction work in the shattered capital of Warsaw, will be arranged in London later this year.

Fortune at Præneste, a report on the competition for new doors for St. Peter's—and much else besides. A specially well done feature is the section of illustrated notes on exhibitions, books, ballet, fashion and so on, forming a kind of topical supplement, at the end of the paper.

DISTRICT HEATING

District heating has begun to rear its glazed head in the Battersea-cum-Pimlico housing scheme, and the 140-ft. glass tower on the north bank will give Powell and Moya two vertical features on the London skyline during 1951.

*

The tower houses the heat accumulator of the electric heat system by which exhaust heat from special turbo-generators installed at Battersea is harnessed to provide water at just below boiling point in the tower. At least that was the description given to a colleague by Kennedy and Donkin, the consulting engineers. Apparently the heat accumulator, which is a giant welded steel hot water cylinder, lagged against heat loss, and protected by an outer glass skin, has to be one hundred and forty feet high. Pure economics demand a gravity feed to the top floors of the flats. This avoids the constant use of pumps and does away with the need for expansion tanks to every unit it serves.

*

The system will not only provide for the Pimlico scheme but also for Dolphin Square and another Westminster City Council block in the area. These blocks will hold a population of 10,000.

The scheme will save some 10,000 tons of fuel annually, but as it was too difficult and costly to adapt the old generators at Battersea to the scheme, there is still a lot of latent heat flowing merrily out to sea.

*

Incidentally, my colleague tells me that the Powell and Moya houses at Chichester—illustrated in the JOURNAL a few weeks back—contain only one system of heating—a convector fire. Both houses were lived in last winter, which was, of course, a mild one, and apparently they proved to be quite snug. Certainly floors, walls and roof are all well insulated, but there is no double glazing. The one heat worry seems to be: will the houses be too hot in summer?

ASTRAGAL

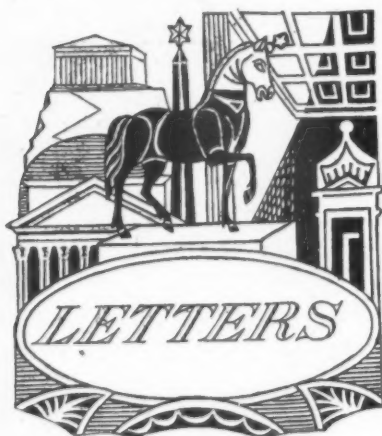
The Editors

THE CENSUS AND HOUSING

A CENSUS of population will be taken in Great Britain on April 8, 1951, and as in previous censuses, this will include a survey of housing. Under the Census Act of 1920, "the character of the enquiries to be included in the census" is determined by Order in Council. The draft now before Parliament contains two additional sets of questions on housing never asked at previous censuses. One is about the number of living rooms occupied by each person and the amenities provided in them; the other is about the use by each household (exclusive or shared) of a piped water supply within the house, a kitchen sink, a cooking stove or range, a water closet, and a fixed bath.

At this stage there is a temptation to suggest that more questions should be included, but as indeed there is no end to questions that would provide useful information, it is important to distinguish between two functions which the census fulfils in the field of housing: one concerns housing conditions, the other housing needs. Of course, better knowledge of the physical conditions of houses enables us to see more clearly what improvements are required, but long range planning should be based on the study of the changing needs of a changing population. In his book *Estimating Housing Needs* (which comprises a study of the census and suggestions for its improvement) Alexander Block pointed out that a comprehensive investigation is required of the composition of households by age, sex and marital condition, and of the relationship of the persons living together in each household. Such an enquiry would help to reveal how many of the existing households would be likely to split into two or more separate households if suitable accommodation was available, and the size and composition of these potential or "concealed" households. No additional questions need be asked at the census for this purpose. We know the age, sex and marital condition of the people of Great Britain by counties, towns, villages, etc. But no census has ever related these data to the individual households. We urge that this should be done in the next census.

Another matter, extremely important in estimating housing needs, readily solved by proper tabulation without bothering the millions of householders and the thousands of enumerators with new questions, is covered by the so called "relationship column" of the household schedule. Here is specified the relation of each person in the household to the head of the household, thus showing among other things, whether a household is a genuine family, or consists, wholly or in part, of persons unrelated by kinship or blood. This question has been asked at all censuses since 1841, and has absorbed no end of time and labour to fill in. Yet all this valuable and costly information (with the exception of small sample tabulations carried out in 1851 and 1861) has been completely lost, because (probably for reasons of economy) it was not even tabulated.



Two Students

Alere Flammam

Country Architect

P. A. Cranswick, A.R.I.B.A.

Leonard C. Howitt, F.R.I.B.A.

Learning from the Past

SIR.—As Astragal can hardly have heard of our humble school of architecture, there are apparently *two* schools where "renaissance architecture is taught as appropriate to the design problems of today."

A revivalist member of our staff is in the habit of regularly setting design subjects, which, though covering contemporary requirements, are ludicrously tied down with regard to style and materials. For example, a recent design subject was a small market hall in which the following were rigidly specified:—Exact dimensions of the building, the internal arrangement, the exact materials, and the style to be Renaissance.

Though we fully appreciate the lessons to be learnt from previous styles, we feel that with historical testimonies completed, and "inter" rapidly approaching, our time could be better employed in a more practical subject.

TWO STUDENTS.

Salaried Architects

SIR.—The letter of your correspondent Mr. J. V. Dixon Vaughan regarding the salaried assistant summarizes the position well, and I agree with him that the "only hope lies in the forming of an independent organization capable of negotiating with both private architects and public bodies solely on behalf of the salaried architect."

In my view, such an organization should be in the nature of a trade union, and quite distinct from any of the professional societies. It should be purely for architectural assistants, and any member who becomes a chief officer, or enters private practice as a principal, should be automatically barred. The cost should be met by the minimum subscription to cover expenses, elaborate offices and aloof secretaries not being required. The leaders should be carefully chosen, level-headed men of sound character and with the profession at heart, whom both sides could trust, and who would be sufficiently enthusiastic to give their services voluntarily.

ALERE FLAMMAM.

New Regulations Needed for Submission of Plans

SIR.—I am gratified to see that the question of the submission of plans to local authorities by unqualified persons has been raised in your correspondence columns.

As an architect who has recently opened a practice in a rural area, I can confirm the fact that a very great deal of this work goes on. A much more serious matter however, is the submission of drawings by completely unqualified members of the staff of local authorities or town planning departments to themselves. This can and does take place, the method being simple enough.

The drawings are prepared by the official concerned and are presented to the client unsigned; the client then submits the drawings on his own account to the appropriate authorities. As one can imagine, the path to approval for such work is often very smooth.

As this work is not merely confined to small extensions and alterations but includes new private housing, light industrial work, etc., it is extremely galling for the young architect to see potential clients being diverted from him in this way. Apart from producing bad buildings, this practice must surely be strictly illegal. Little can be done to stop it however whilst the present regulations prevail, owing to the anonymity of the work. The solution, I feel, lies in the revision of the regulations on the lines indicated below. (1) All drawings and documents prepared for submission to authorities to be signed by the author of the work, giving his qualifications. (2) No building work costing more than a certain figure or enclosing more than a given area (say £50 and 50 sq. ft.) to be submitted by any person other than a registered architect.

COUNTRY ARCHITECT.

New Towns

SIR.—Prophecy, if not perilous, is always precarious, nevertheless, it is becoming increasingly necessary to peer through the mists of uncertainty in an endeavour to see what the future might hold. While lips which pay service to the virtues of individualism over collectivism, are becoming more and more curled with cynical amusement, those of us who, remembering Ebenezer Howard, were anxious to participate to the full in this vast new social experiment, are finding our enthusiasms gradually stifled, by the excessive cost of building, the acute shortage, away from existing settlements, of building labour, and the extraordinary attitude, which would surely have astonished the founders of Letchworth and Welwyn, that the New Towns are, in fact, no different from any local authority housing estate.

While such an attitude might officially be politic, if it is really necessary to appease those authorities who feel, for some extraordinary reason, that we are trespassing upon their coverts, it would surely be unforgivable if, as it may well be, this attitude becomes symptomatic of the Development Corporations themselves.

Apart from this last, the two major problems which face us today are, first, the attempt to build (and here I speak mostly of housing) in order to provide accommodation at what is supposed to be an economic rent within the capacity of the average local income, which, on the whole, is less than that of the national average; and secondly, to build within the limits of the available (mostly unskilled) site labour.

Building labour available in the locality virtually amounts to nil, as a result of which we are faced with two alternatives, either of importing labour wholesale, of whatever kind and from wherever possible, for considerable time at considerable expense, or of building immediately a large

proportion of housing of standardized or prefabricated types in order to provide homes as quickly as possible as an enticement to building labour.

The first of these two alternatives (as we are finding to our cost) adds enormously to the cost of building, which naturally reflects upon house-rentals, while the second remains anathema to those of us who can still believe in the New Towns concept.

If one adds to this the fact that many contractors who, during the immediate post-war period, have developed at some expense their own systems of standard house-type-construction and can now virtually hold a pistol at our heads, with what amounts almost to the demand that either we build in a standardized patented construction, or we don't build at all, there is certainly no easy way out, other than complete capitulation.

It may be, of course, that time will provide one answer, but as we see it here, the only real solution is the immediate development of a system of building in well-designed industrialised components, which will not only permit that flexibility in planning and design which is absolutely essential, but which will really reduce site labour to an absolute minimum, and by large-scale production and scientific use of materials, contribute appreciably to reduction in costs.

While these problems affect building generally, so far as the New Towns are concerned some solution is absolutely necessary if they are to advance to any marked degree from the drawing board.

For this reason, if for no other, it would seem that, while joint consultations between the New Towns are already an accomplished fact at managerial level, regular joint consultations between their architectural, engineering and planning departments should follow inevitably at the earliest date.

PHILIP A. CRANSWICK.

Yorkshire.

Housing and the Municipal Engineers

SIR.—Our friends in the Institution of Municipal Engineers consider that members of allied professions tend to claim a far larger responsibility for housing than can be justified and have circulated a questionnaire to members holding chief appointments in the hope that it will produce evidence to refute such claims.

These members are asked (*inter alia*) to say whether they are registered architects, and those whose authorities employ a chief architect (presumably a city architect, borough architect or housing architect) or private architects for the construction of their houses, are asked to state the number completed or let to contract.

This laudable effort to give full credit where it is due would be much more realistic and of more constructive value if all engineers who claim responsibility had been asked to answer the following question:—

"Is the housing for which you are nominally responsible undertaken by architects subordinate to you?"

The extent to which the replies were in the affirmative would provide really useful information as to the number of authorities whose technical-professional departments are in need of reorganization and would at the same time provide the justification of the claims of the architectural profession.

LEONARD C. HOWITT,
President, City and Borough
Architects' Society.

Manchester.

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



FOB

Exhibition of Industrial Power

Britain's outstanding achievements in heavy engineering will be demonstrated at the Exhibition of Industrial Power at Kelvin Hall, Glasgow, during the Festival of Britain 1951. The exhibition's organizer will be Alastair Borthwick (Science Directorate, Festival Office). Basil Spence will be chief architect and designer and other designers will include Arthur Braven, Albert Smith, Hulme Chadwick, Jack Coia and Douglas C. Stephen.

The Exhibition will show how, by British enterprise, the power hidden in our mines and rivers has been harnessed to our daily needs. The exhibition develops, therefore, through two main sequences—one starting from coal, the other from water.

TPI

New President Elected

At a recent meeting of the newly elected Council of the TPI, Lt.-Col. H. P. Cart de Lafontaine, O.B.E., T.D., was elected president of the Town Planning Institute for 1950-51 and will take office in November next on the expiration of the term of office of Sir George Pepler.

KENT

Unauthorized Structures

A growing colony of people occupying unauthorized temporary structures near Culverstone Green, Meopham, has created a problem for Kent County Council and other authorities. Some of the huts, caravans and disused motor coaches on this site have been in position since before the war. The County Council, which became the local planning authority two years ago, is now seeking a way of checking uncontrolled growth of the colony, while at the same time providing facilities which are obviously in demand. An effort by the Strood RDC to remove some of these structures in 1939 was frustrated by the outbreak of war.

Representatives of the County Council, the RDC and Meopham Parish Council have recently walked over this land to see conditions for themselves. They found some structures used for permanent living accommodation and others apparently used mainly at week-ends. There was evidence that huts

were still being set up without authority. Through its planning committee, the County Council has decided in principle that a part of this area should be reserved in the development plan now in course of preparation for the erection of private week-end or holiday chalets and other suitable structures. The RDC will be invited to co-operate in defining the boundaries of the area.

The RDC is being asked to survey the area and to classify all contravening buildings. The County Council believes that when the survey is completed, consideration should be given to the question of enforcement action being taken in respect of certain existing buildings. The County Council has also requested the RDC to take immediately what steps are open to it to prevent further structures being erected without permission.

MOTCP

The Repair of Public Paths

Highway authorities which, as a consequence of the National Parks and Access to the Countryside Act, now have the primary responsibility for the repair of the public paths, are recommended "not to conform to some arbitrary standard" in a circular issued by the Ministry of Town and Country Planning.

Where country paths are used constantly as part of everyday life—e.g. for walking to stations, churches or shops—the importance of keeping them fit for use in all weathers is emphasized. On the other hand, for paths used chiefly by ramblers all that will usually be wanted, the circular points out, is to keep them free from obstacles or impassable water or mud.

SOUTHAMPTON

Prime Minister to Open Ocean Terminal

The Railway Executive announces that the Prime Minister has accepted an invitation to

perform the opening ceremony of the new Ocean Terminal building at Southampton Docks on Monday, July 31. The new terminal has been designed to cater for passengers embarking and disembarking from the largest ocean liners. It is a two-storey building equipped on the upper floor with waiting halls and customs examination halls, and on the lower floor with an island platform for boat trains and facilities for dealing with passengers' cars.

CLB

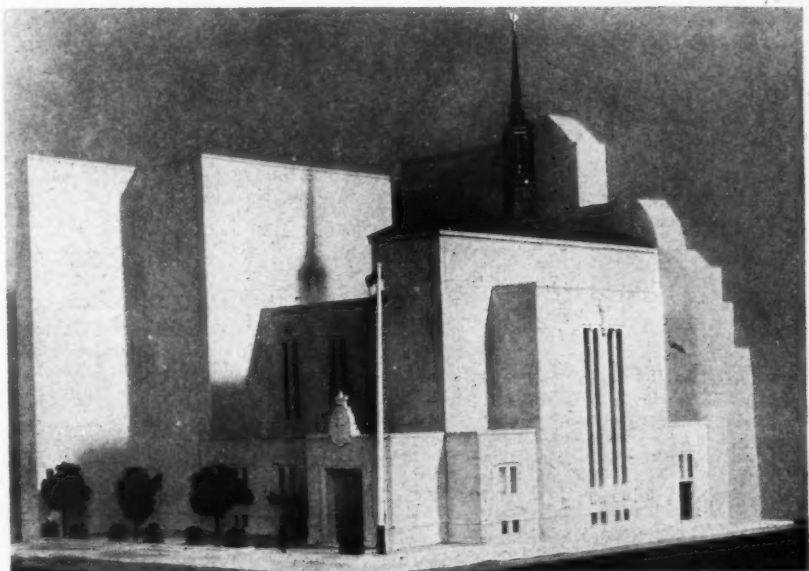
Breaking of Party Walls

The Minister of Town and Country Planning has been advised that the operation of knocking a hole in a party wall between two buildings does not constitute development under the Town and Country Planning Act, 1947, provided that the works undertaken do not materially affect the appearance of the premises from outside, and provided also that no material change of use is involved. Planning permission is, therefore, no longer necessary for such an operation, and no development charge is payable.

RIBA

Council Election Results

On June 29 we published a list of the new RIBA Council members. Following are some recent additions to that list:—John L. Denman (Brighton), G. Grey Wornum (London), and Norval R. Paxton (Leeds), Chairman of the Allied Societies' Conference, have been elected vice-presidents, leaving one vice-president to be appointed. Martin S. Briggs (London) has been appointed hon. secretary and A. Leonard Roberts (Winchester) hon. treasurer.



The foundation stone for the new Dutch Church in Austin Friars, E.C.2, the model of which is shown above, is to be laid on Sunday, July 23, by Princess Irene, the 11 year old daughter of the Queen of the Netherlands, accompanied by her father, Prince Bernhard. The original church which was destroyed by enemy action in 1941, dated back to 1120 and was granted by Royal Charter to Dutch Protestant refugees in 1550. July 23 marks the 400th anniversary of this event. The new church is designed by Arthur Bailey.

DIARY

Exhibition of Students' Work. (Sponsor, RWA School of Architecture, Bristol.) Bristol City Museum and Art Galleries.

UNTIL JULY 22

Lecture by Ernst May. At RIBA, 66, Portland Place, W.1. (Sponsor, MARS Group.) 6 p.m.

JULY 20

AA Exhibition of Students' Work. Daily, 10 a.m.-6 p.m. Saturdays, 10 a.m.-2 p.m. At 34, Bedford Square, W.C.1.

UNTIL JULY 27

Exhibition of Work by Students and Staff of the Royal College of Art. At RBA Galleries, Suffolk Street, S.W.1. Daily, 10 a.m. to 5 p.m., except Sundays. Admission 1s.

UNTIL JULY 29

Exhibition: William and Mary and Their Time. At V and A Museum. (Sponsor, Arts Council.) Weekdays, 10 a.m. to 6 p.m.; Sundays, 2.30 p.m. to 6 p.m.

UNTIL AUGUST 20



This feature covers aspects of legislation, parliamentary news or statutory rules and regulations which are of special significance to the architectural profession.

ERNEST WATKINS

The Architect and Current Affairs

The report of the Committee headed by Lord Justice Jenkins on leasehold property is an extremely solid survey of a most complex problem—as it might well be, since it represents over two years' work. As far as professional interests are concerned, the bulk of it will have a greater appeal to property owners, lawyers and surveyors than to the architect and the planner. But that does not hold good for the whole of it. For instance, the architect is concerned with improvements to existing property and the planner is concerned with the Committee's discussion of whether the lessee under a long lease should be given any right to enfranchise his interest during the term of the lease or security of personal tenure at its end.

The Committee was asked to report on a set of specific questions. Its inquiry dealt

with three problems: leasehold enfranchisement, the tenure and rent of business premises, and the existing law relating to repairs and improvements to leasehold property. On the first there was considerable disagreement, on the second some disagreement, and on the third virtual unanimity.

The main points in the Committee's recommendations on repairs are: no change in the existing law that the liability for repairs must rest as the terms of the lease or agreement provide, with an extension of the individual tenant's right to claim that he should be allowed to do all his repairs in the last year of his lease to all rack-rent lettings of more than seven years; the establishment of a fixed code of repairing covenants; and a provision that the lessee of an old building should not be liable to do more than retain it in its state of repair at the start of the lease unless he specifically covenants otherwise.

Improvements made by a lessee are of more direct interest. Save for agricultural holdings (not dealt with by the report at all), the only lessee who may have any claim for compensation for improvements is the lessee of business premises, and his right is subject to awkward qualifications. The recommendation is that this right should be extended to all business and residential lettings and that the improvements ranking for compensation should include improvements made under some statutory liability (not the case at the moment). Further, that the basis of assessment of the compensation should be the increased letting value that results and that, while the lessee should be required still to obtain his landlord's consent to the work, that consent should not be unreasonably withheld. This proposal, of course, affects architects as tenants—being professional, not business tenants, they have no rights at the moment. It also affects architects who have clients who are anxious to make improvements, but are deterred from so doing because the improvement becomes a free gift to the landlord at the end of the term.

As far as the question of leases of business premises is concerned, again the main recommendation of interest is that which would put the professional man on the same footing as the business tenant, and so enable him to claim under the Landlord and Tenant Act, 1927 (which the Committee would enlarge), for a renewal of his tenancy or for compensation for loss of goodwill if that was refused. The right is restricted, but where it exists it does meet cases of real hardship.

Leasehold enfranchisement is more a political subject, as is shown by the fact that, over this, there is a minority report at considerable variance with the majority report. The minority view, in outline, is that it is unjust that at the end of, say, a 99-year lease, the freeholder should have back both his land and all buildings erected on it by the lessee (although, be it noted, the whole basis of the New Towns legislation and of the redevelopment of compulsorily acquired areas by local authorities rests on this foundation). The majority of the Committee's members think it unjust that a lessee, at the end of his term, should be entitled to claim statutory aid to improve the bargain originally made. That is the issue, and political views will play a big part in deciding the answer. But there was agreement over one point: that the lessee, if a personal occupant of the house at the end of the term, should have the personal protection under the Rent Acts that a rack-rent tenant holding over at the end of his tenancy is given. Subject to the views of the House of Lords, the Court of Appeal has held that, as the Rent Acts stand, they do not apply to protect the lessee at the end of lease under which only a ground rent was paid.

Architects will be bound to watch with interest the fate of any Bill introduced into Parliament based on this report.

FRANK LLOYD WRIGHT

On July 10 Frank Lloyd Wright disembarked from the "Queen Elizabeth" at Southampton and drove up to London. Barely 24 hours later he arrived, dressed in a rust coloured summer suit, at the main entrance of County Hall, London, escorted by Robert Furneaux Jordan, principal of the AA school, and Leo De Syllas. He had an appointment to look over the Royal Festival Hall on the South Bank. But he spent the next hour and forty minutes in the panelled office of the Architect to the Council, overlooking the brown waters of the Thames. And although it was suggested more than once that he might like to see the building itself, Mr. Wright preferred to stay in the office and look at the two models and a pile of drawings which, he said, showed the building down to a "gnat's foot." He said he was "too old to climb ladders." The AJ had the privilege of being represented at the meeting, during which Frank Lloyd Wright, describing himself as "consulting architect," sketched his ideas on the subject of concert

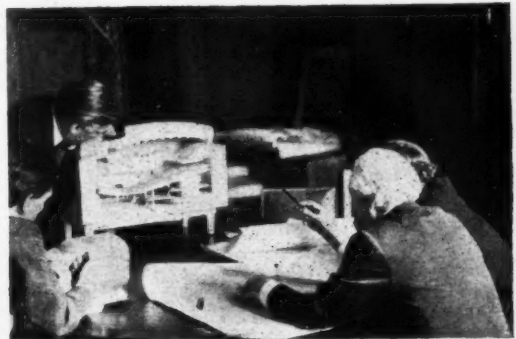


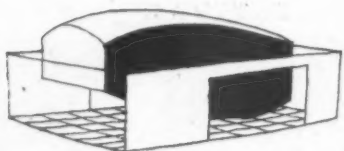
Outside County Hall last week. Left to right: J. L. Martin, deputy LCC architect, Frank Lloyd Wright, R. Furneaux Jordan and L. De Syllas. The photographs opposite show the same group of architects, together with Robert Matthew, Architect to the Council, discussing drawings and models of the Royal Festival Hall.

GIVES HIS VIEWS ON THE ROYAL FESTIVAL HALL



hall design. When the building had been built a concert hall before?" In a generous measure of FLW autobiography. He said he would be over in Europe again next spring to attend, at Florence, the only comprehensive exhibition of his work ever held, and requested that a box should be kept for him at the first concert.





DIARY

June 1.—Stucco marble to columns started.

June 19.—Steelwork to suspended ceiling in kitchen started.

June 19 to 30.—Main boilers arrived. Now installed.

June 26.—Fixing of external metal windows and internal metal screens started.

June 28.—Fixing of Hadene marble (Derbyshire fossil) to the outside face of the auditorium walls in the wings started.

July 3.—Fixing of metal balustrades in main foyer started.

The propping below the balcony has now been struck. A suspended scaffold has been slung over the auditorium from the roof in order to avoid a birdcage of scaffolding, which would hinder the work of the finishing trades. The suspended scaffold is shown on this page.

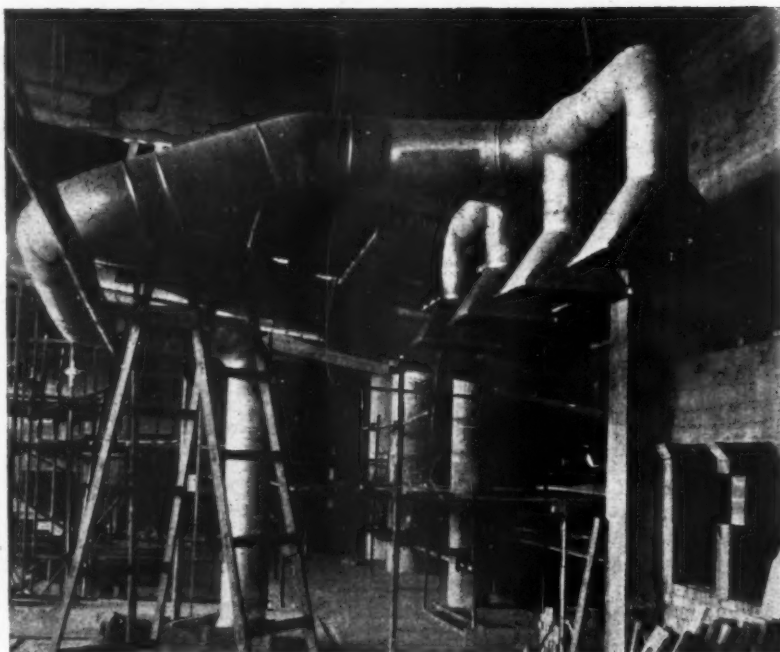
ROYAL FESTIVAL HALL: 6

Progress report by John Eastwick-Field and John Stillman on services (part two).

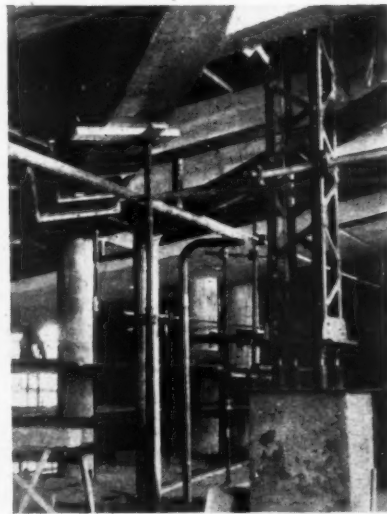
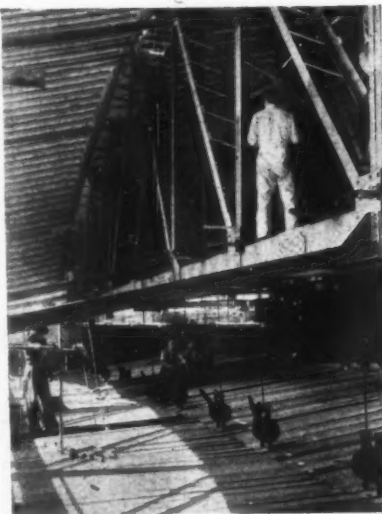
HEATING AND VENTILATION

The auditorium is air-conditioned by the downward system. Various other parts of the building are ventilated mechanically, but with separate systems supplemented by convectors and floor panels to offset fabric losses. This is done so that each of the various parts of the building may be used independently, with economy in heating.

The fact that the principle adopted for the auditorium is a standard one, is interesting, because one might have anticipated some new development in this, as in other parts of the whole design. This is not to say that there are no points of detail which are exceptional, nor that the problem was in any sense straightforward. There has been no experience of air-conditioning in large auditoria here since 1939, but it is of interest to note that the Concert Hall, Radiohuset, Copenhagen, Denmark, used a similar system.



Above, galvanized steel ducting showing extracts from kitchen. Below, left, underside of roof showing suspended temporary working platform (see diary). Below right, ducting to foyer. One of the props with its jacks which temporarily supported the balcony can be seen in the foreground.



As was explained in the first article in this series, the heating engineers of the Architects' department, under the direction of R. Coe, M.I.H.V.E., have designed the scheme, with the exception of the boiler plant and equipment, which has been the responsibility of the Chief Engineer of the LCC.

Some of the particular problems encountered and their solutions are set out below:—

THE AUDITORIUM

The enclosed designs of the auditorium necessitated an air-conditioning system providing the required statutory amount of outdoor air, i.e., a minimum of 1,000 cu. ft. per person per hour. No refriger-

ation is provided for summer working other than that from cooled water from the Ministry of Works demonstration "heat pump," which will provide half the full cooling requirement. The plant has been designed for the incorporation of full refrigeration at a later date.

There will be only 75 per cent. extraction, in order to create a slight pressure which avoids inward draughts at doors. This is in accordance with Theatre Regulations. The system operates downward so that no dust is disturbed and draughts and contamination of the air rising past the audience are avoided.

The input plants are at roof space level, and the extraction is through the risers

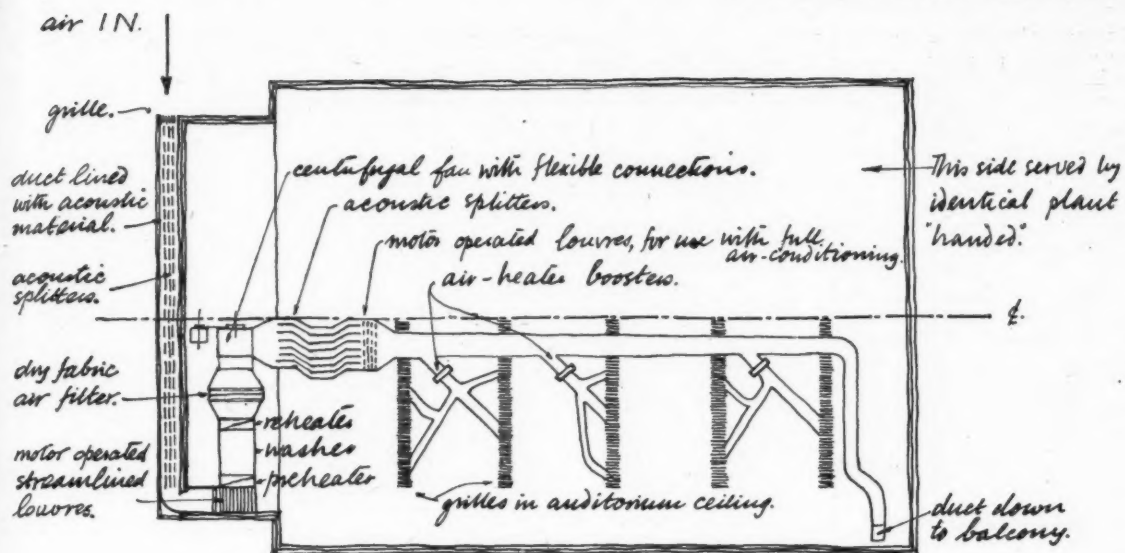
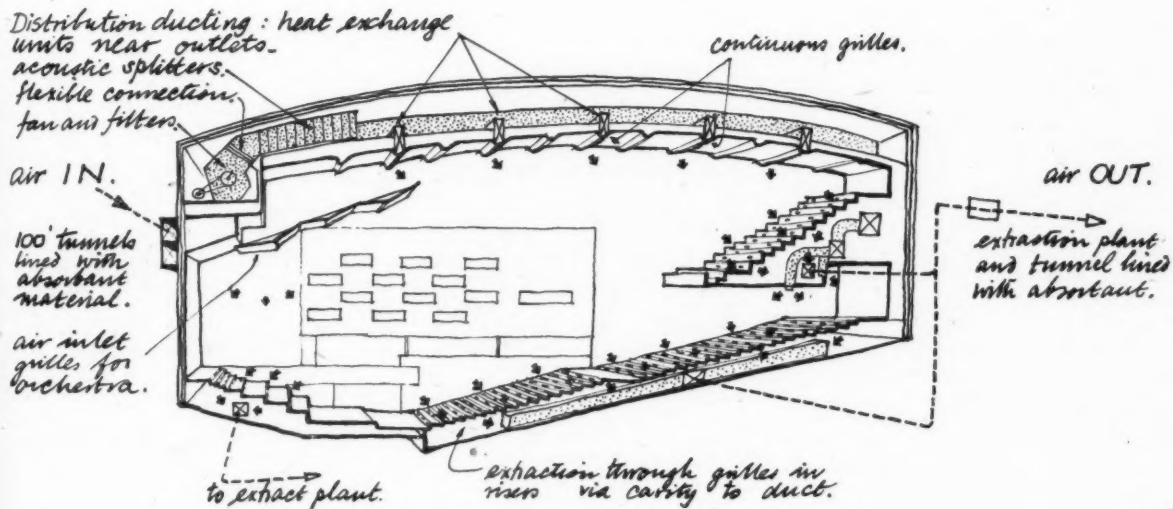


DIAGRAM SHOWING LAYOUT OF PLANT IN ROOF SPACE.



SKETCH ILLUSTRATING METHOD OF AIR-CONDITIONING AUDITORIUM.

of the stepped floor to extract plants. Fabric type filters are used with screens of flame-proof cotton wool in scrim. (The best types of filters are electrostatic precipitators which charge dust particles, and attract them out of the air stream. These are, however, costly and the high voltage is dangerous.)

Design Considerations: — Winter: 67 deg. F. temperature; 50 per cent. relative humidity; 1,250 cu. ft./person/hr.; no recirculation. Summer—with full refrigeration: 75 deg. F. temperature; 50 per cent. relative humidity; 1,875 cu. ft./person/hr.; 50 per cent. recirculation.

To prevent penetration of external noise there are intakes and outlets

through approximately 100 ft. concrete tunnels, which have walls and ceilings lined with absorbents. Acoustic splitters are provided in the tunnels (i.e., vertical panels of acoustic material) so as to increase the area of absorption. Panels slide, where necessary, to improve access for cleaning. Reduction in sound of 50 db, is anticipated.

To prevent noise from the system, super-silent electric motors are used, mounted on spring type anti-vibrators. Bases are on glass silk. Fans are of slow speed, with laminated casing to reduce drumming. The plant room is lined with acoustic material and the air supply passes through sound-absorbing splitters for 25 ft. before entering the

roof space to distribution points. Air speed in ducts does not exceed 1,000 ft./min.

Control:—Thermostats and hygrometers in extract ducts (equivalent to condition in hall) control hot water to heat exchange units and humidifying plant. External weatherstats control boilers.

Provision is made for recirculation by separate plant when the auditorium is unoccupied, so as to economize in fuel consumption.

ANCILLARY ACCOMMODATION

Ancillary accommodation is provided mainly with plenum ventilation and convectors and floor panels as supplements and to offset fabric losses.

Foyers:—Separate plenum system with supplementary heating as above.

Restaurant:—Problem of extensive glass area and danger of condensation. Separate ventilating plant with dew point control is provided. Gilled tubes through transoms.

Kitchen:—Cold and warm fresh air inlets; extract from hoods over cookers and through high level grilles. Hoods made of Georgian wired glass.

Practice Rooms:—Separate ventilating system, especially designed acoustically to prevent transmission of sound from one room to another.

Lavatories (all internal):—Ventilation by natural fresh air inlets, with mechanical extraction. Duplicate fan sets. All in accordance with Theatre Regulations.

APPLIANCES AND MATERIALS

Ventilating ducting is of galvanized sheet steel. All supplementary iron work is galvanised after fabrication. Ducting to kitchens is treated internally against condensation.

Heating Pipes:—Self-coloured mild steel, painted and lagged; joints up to 2 in. are screwed; over 2 in., flanged. Expansion—horseshoe bends.

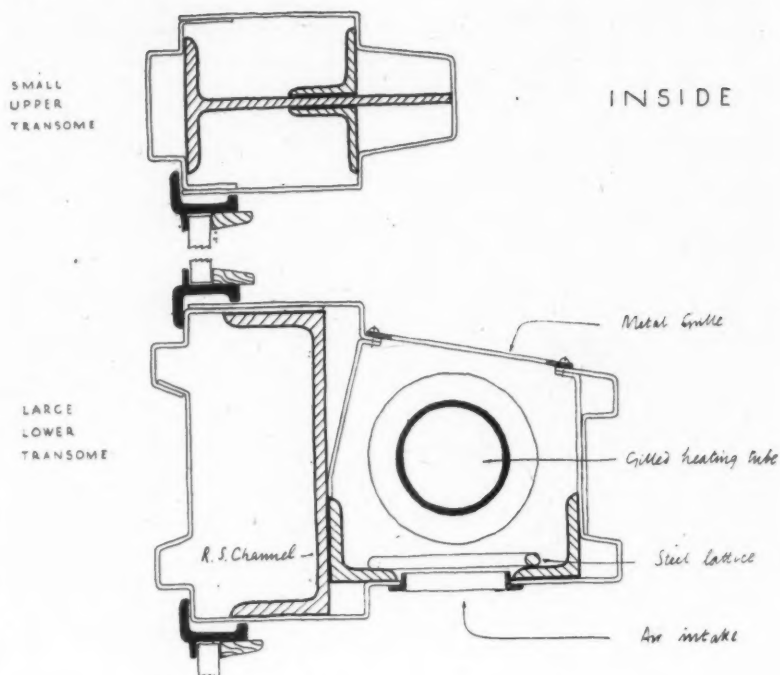
Floor heating:—All on separate indirect system; continuous steel tubes embedded in concrete, on 1½-in. cork insulation. Floor finishes over: granolithic, terrazzo, and wood strip.

BOILER PLANT

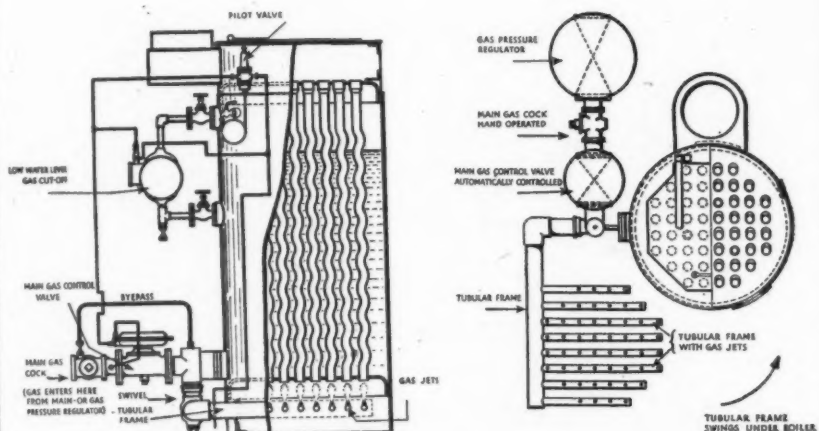
If the heating, hot water supply, and ventilating systems in the building are of largely orthodox design, the same cannot be said of the boiler plant. The boilers which provide low pressure hot water for the heating systems, and those providing domestic hot water, are highly efficient gas-fired vertical boilers, fitted with a very complete system of automatic controls. With an estimated total load of about 30 mill. B.Th.U., this boiler plant will be one of the largest and, probably the most efficient of the gas-fired installations in the country.

By the use of a fuel economizer, which utilises heat from the flue gases to increase the heat of water returning to the boilers, an overall efficiency of up to 85 per cent. may be expected. The use of a fuel economizer with gas fired boilers is unusual, but is warranted by the large size of the installation in this case. The appliance requires the maintenance of a draught in the flue to be effective, whereas the boilers themselves do not, and therefore a special system has had to be devised to meet these conditions.

The high efficiency in conjunction with quick automatic regulation of the boilers is the first answer to those who might think that gas is an extravagant type of fuel. While it is true that gas may be two or three times as expensive as solid fuel on a heat unit basis, this is not a proper basis for comparison of the total



PRELIMINARY DETAILS OF LARGE WINDOWS ON RIVER FRONT SHOWING HEATING IN TRANSOMES



Maker's illustration showing gas boiler similar to those used for providing domestic hot water. The heating boilers are of greater diameter and have four tubular frames with gas jets.

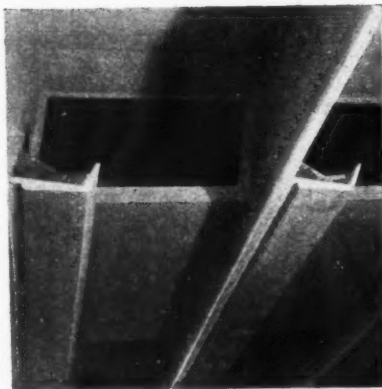
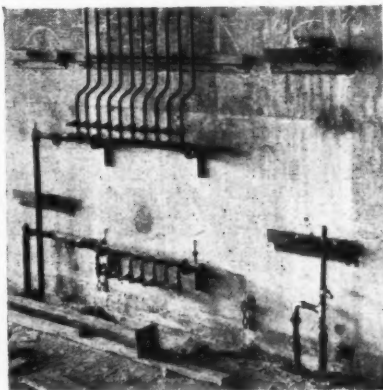
cost of heating. With automatic controls a gas boiler responds immediately to changes in demand for heat, caused, for instance by changes of the weather. Such close adjustment is impossible with a solid fuel installation or even with liquid fuel. Further, by the provision of a number of units each with multiple burner efficiency is not reduced when working at ¼, ½, or ¾ load. Labour saving must also be taken into consideration; gas firing obviates stoking, and ash removal, and only a small amount of upkeep work is necessary.

From the architectural point of view the boiler house is small, no fuel storage space is required, and the flue is nothing more than a duct for innocuous waste gases. Finally, there are the amenities of the building to be taken into account; the complete absence of smoke and dirt, and reduction of sulphur pollution of the air have a value which may not be easy to assess but which is undoubtedly very great.

The heating plant consists of five vertical gas-fired boilers, each with an output of 6½ mill. B.Th.U. This number will allow for one boiler to be a spare



Above, extract ducts beneath the auditorium stepped floor. One of these ducts is formed of brickwork rendered internally and the other of galvanized steel. Brickwork was used for economy where there was room.



Above left, a pair of flow and return HW heating pipes serving a number of distribution pipes. Above right, recently fixed fibrous plaster ceiling to foyer, showing extract grilles and lighting troughs. The opening in the bottom left-hand corner is for a tungsten fitting. Below, typical flow heating panel in steel tube, showing cork insulation beneath and battens on clips for strip flooring.



for maintenance interchange. Each boiler is 9 ft. in diameter and 9 ft. 9 in. high, and consists of a welded steel shell within which are 558 vertical wavy tubes. Gas jets burn under each tube and the waste gases are collected at the top in a gas outlet chamber, before being ducted to the main flue. The automatic controls include dampers in the flues, electrically operated gas valves, flame-failure safety devices, CO₂ indicators, night shut-down controls, and external weatherstats. The domestic hot water boilers are similar in design to the heating boilers but are smaller. All the hot water for both systems is circulated by centrifugal pumps, there being one pump for each boiler.

A single flue service serves all the boilers and consists of a vertical duct 4 ft. 3 in. x 3 ft. 9 in. (internal dimensions), lined with Fosalsil molar refractory bricks.

ELECTRICAL INSTALLATIONS

The electrical installation is being carried out to the designs of the Chief Engineer of the LCC, working in close collaboration at all stages with the architect. Two things are of particular interest. The first is that in a building of this kind electricity is required to serve a multitude of purposes, and the second is that, although it is a technically complicated subject, it is one which generally gives architects little trouble. It allows of a certain flexibility in its arrangement which, granted full and early collaboration between architect and engineer, makes it possible to dispose of and conceal electric wires and cables more readily than, for example, the pipes in a heating installation.

On the other hand, in a large building there are complications. For instance, where a substation is required, it has to be positioned so that there is independent access for inspectors, and it must be possible to remove the equipment in case of breakdown.

Switch rooms must be dust free as far as possible, and in the main switch rooms on this job it was found desirable to provide a floor made up of removable timber panels on sleeper walls to give access to the cables.

Just as with other trades on this job, a very early assessment of the ultimate requirements had to be made for contract purposes, and in this instance a schedule of prices was drawn up as a basis for payment of the final scheme.

The supply is from the high-tension network controlled by the London Electricity Board, and is brought through a substation, serving the Festival Hall only, to two main low-tension rooms, each of which has a floor area of approximately 580 sq. ft. The substation is situated adjacent to

the riverfront car park, and contains equipment installed by the Board, which transforms the high voltage current to the two existing standard pressures of 415 volts/three phase, and 240 volts/single phase AC, which are required within the building. The total load is estimated to be some 1,500 KVA.

The main distribution is arranged in vertical ducts, one at each corner of the building, and at each floor level there are small subsidiary switch rooms. The two main switch rooms already mentioned are placed at the front and back of the building, and the current is brought to the sub-main distribution boards in paper-insulated lead-covered steel wire armoured cables.

Sub-circuit wiring for lighting and power is generally in vulcanized rubber-insulated cable (VIR) in heavy-gauge welded screw conduit, enamelled, except where the danger of rusting requires galvanized conduit. PVC (Polyvinyl chloride) insulated cable is being used in some places instead of the VIR cable, but mainly for low-powered installations, such as clocks and signals, and also for telephones, where multicore cable is required. There are also certain places in the building where special conditions have justified the use of the slightly more expensive copper sheathed cable, for which a conduit is not necessary. It is used principally for its heat-resisting properties, and was therefore a suitable choice for the somewhat intricate wiring in the boiler house, where electricity is required to be taken to controls adjacent to the boilers and to heating pipes.

HRC (high rupturing capacity) fuses are used throughout; these are cartridge-type fuses, and are familiar to architects from the new standard fused plugs, and, besides being more convenient, are also less liable to abuse than the common rewirable fuses.

Switches for large public areas are concentrated in the switch rooms, and for the sake of compactness a form of micro-gap switch has been used. These switches, which take advantage of the particular characteristics of AC current, are comparatively small for their rating, are simple in operation and relatively silent. They are a recent development, as are also the 13-amp. socket outlets with fused plugs which have been chosen for the job. They were originally designed in connection with "ring mains" in dwelling-houses.

The main uses for which electric current is provided are listed below, but the problems of "lighting" as such will be treated in greater detail in a later article.



Above, typical steel hangers and fibrous plaster ceiling clothing the concrete structure. The arrow indicates an electric conduit running in the cavity.

Lighting:—This includes floodlighting and the normal requirements for the foyers, the auditorium and the orchestra platform, and also the secondary lighting. The latter conforms to the Regulations for Places of Public Entertainment and is a "floating battery system." Remote control dimmers are provided for all the lighting in the auditorium, and a scheme is included for the incorporation of stage lighting, since it is anticipated that the Hall may at some time be used for ballet. The dimming for the latter will also be by remote control by a single operator. The dimming apparatus is contained in a special room on the roof, which has to be provided with forced ventilation to dispose of the heat which is dissipated when the dimmers are operated.

Power:—This includes provision for: (1) Ventilation plant; (2) Heating; (3) Lifts; (4) Socket outlets; (5) Pumps and thermostatic controls and remote indicating thermometer systems; (6) Refrigeration; (7) General ancillary equipment, including signals and cue lights, clocks, watchman's pegging clock system, automatic internal telephones and GPO telephones. The heating

is for certain practice rooms where the other forms of heating might cause inconvenience by the transmission of noise from room to room, through the system. The heating appliances used in this case are convectors.

Sound amplification and deaf aid system:—This includes provision for recording.

BBC sound and television:—Facilities are provided, including control rooms and commentators' booths for the transmission of vision and sound broadcasts.

Lightning protection:—Protection against lightning has been provided by linking the copper roof to electrodes which are buried in the earth below foundation level. The electrodes are connected to the roof and to finials at each corner by six $1\frac{1}{2}$ in. \times $\frac{1}{8}$ in. copper strips which are taken down the face of the building. In order to conceal these strips, which have to be held free from the wall to avoid damage to the fabric, they have been contained in vertical ducts measuring about 2 ft. \times 1 ft. Had the Hall been a steel framed building, consideration would have been given to earthing the frame, as has been done in at least one large building in London.

The sub-contractors and suppliers for the services discussed are:—			
Electrical installation	..	..	The Berkeley Electrical Engineering Co., Ltd.
Special platform lighting	..	..	The Strand Electric Co.
Secondary lighting	..	..	The Chloride Electrical Co., Ltd.
Lifts	..	..	Weygood-Otis, Ltd.
Sound amplification	..	..	Standard Telephones and Cables, Ltd.
Clocks	..	..	Gent and Co, Ltd.
Internal telephones	..	..	Siemens Brothers & Co., Ltd.
Lightning protection	..	..	W. J. Furse & Co., Ltd.

FOB INFORMATION BUREAU

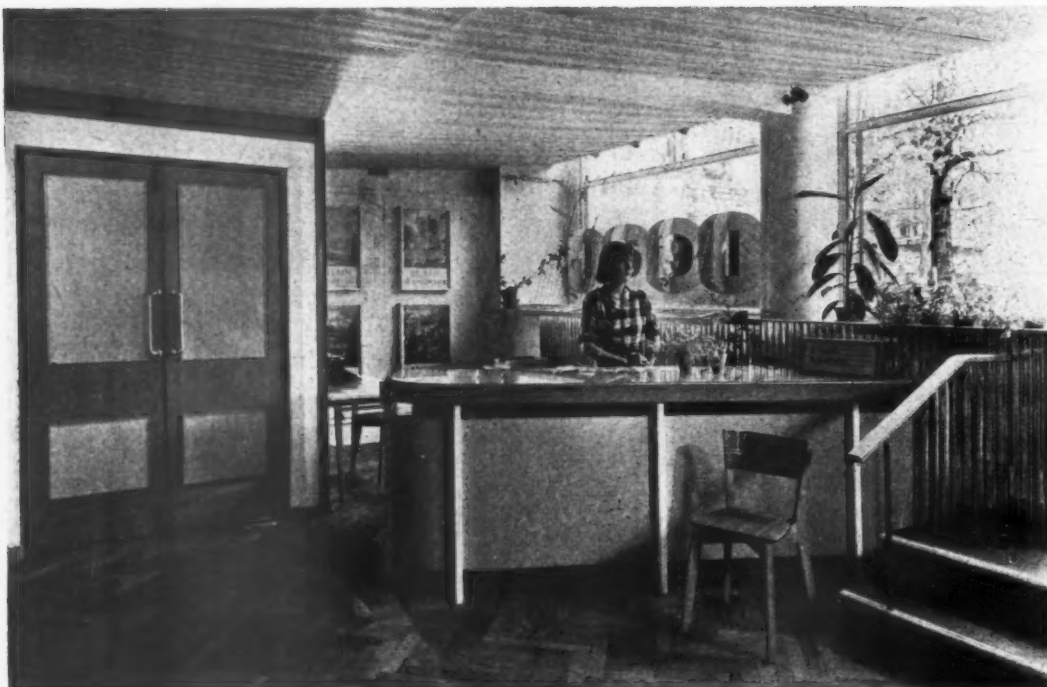
in LEICESTER SQUARE, W.1

designed by FELLO ATKINSON (JAMES CUBITT and PARTNERS)
OLIVER COX and MICHAEL VENTRIS

The ground floor of the Travel Association offices at 47, Leicester Square have been converted for the Festival of Britain as a bureau where overseas and provincial visitors can make enquiries about the Festival. In view of the limited sum allotted for the work, it was found necessary to make the minimum of structural alterations and to convert the existing counters to suit the new scheme of decoration.

The enquiry area and counter.





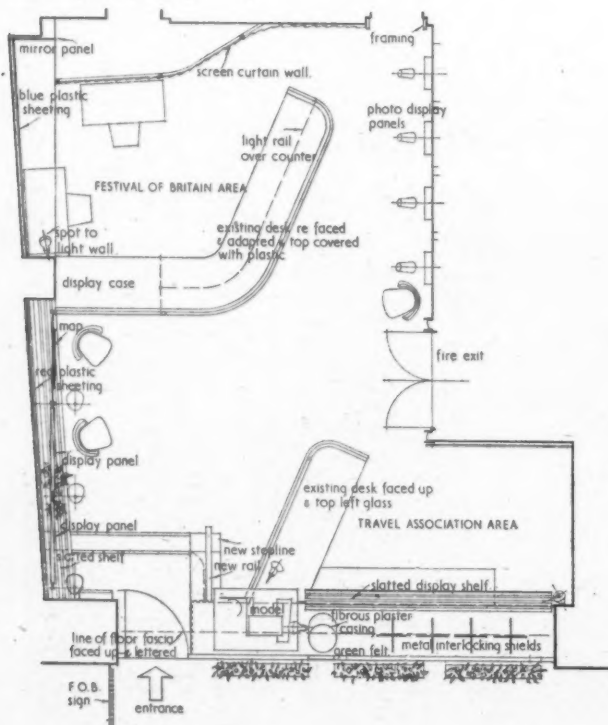
Above, the Travel Association enquiry area and counter. Below, the exterior from Leicester Square.

FOB INFORMATION BUREAU

in LEICESTER SQUARE, W.1

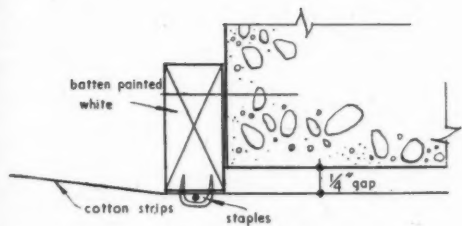
designed by FELLO ATKINSON, OLIVER COX
and MICHAEL VENTRIS

Plan [Scale: 1"=1'0"]

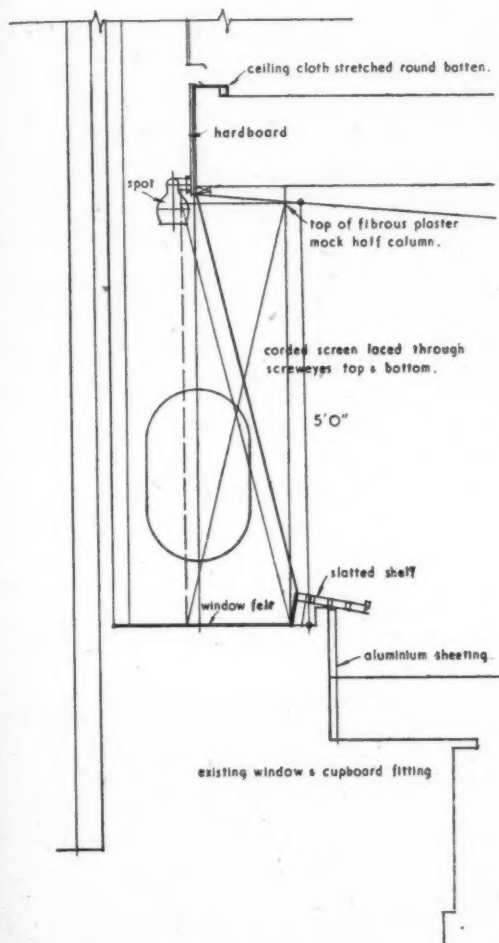


GENERAL.—The premises, which the FOB authorities are sharing with the Travel Association, were originally partly lined with oak and were somewhat drab in appearance. No structural alterations were made to the exterior except for the addition of a sign. The walls are now lined with various laminated plastic sheeting materials, either in their natural colours or spray cellulosed red, blue or mauve. The window stallboard panelling is of

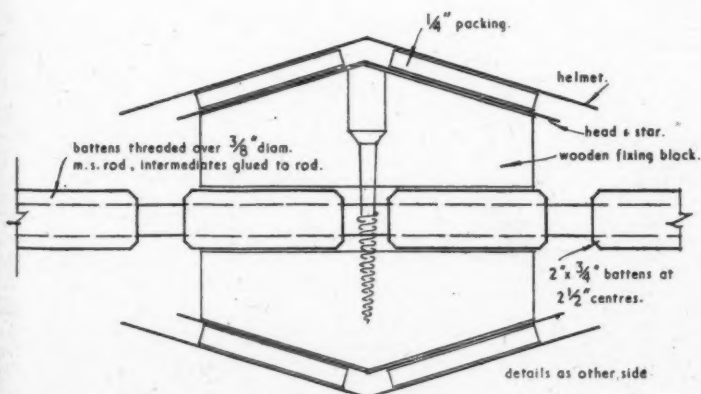




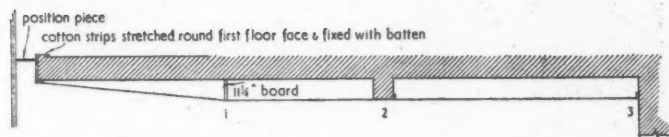
Ceiling fixing 2 [Scale : 6" = 1'0"]



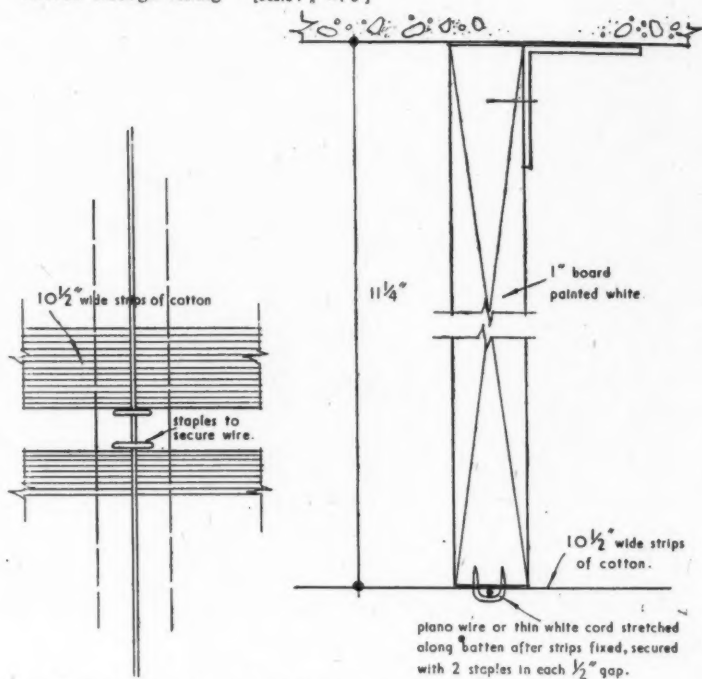
Section through window [Scale : $\frac{1}{4}" = 1'0"$]



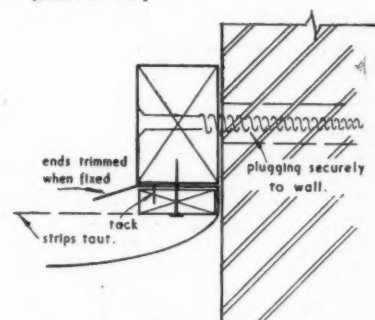
Section A-A through sign [Scale: 6" = 1' (C)]



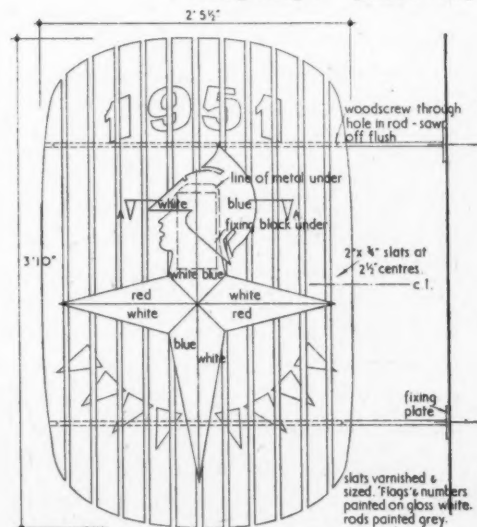
Section through ceiling [Scale : $\frac{1}{8}'' = 1'0''$]



Ceiling fixing 1 : plan and section [Scale: 6"=1'0"]



Ceiling fixing 3 [Scale : 6" = 1'0"]

Elevation of sign [Scale : $\frac{1}{4}'' = 1'0''$]



FOB INFORMATION BUREAU

in LEICESTER SQUARE, W.1

designed by FELLO ATKINSON, OLIVER COX and MICHAEL VENTRIS

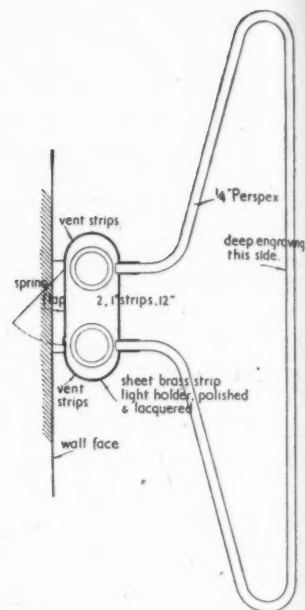
Above, the FOB enquiry counter showing specially lettered perspex panel. Right, the acknowledgment panel showing the names of firms who have donated materials.

extruded sheet aluminium. The false ceiling is of stretched strips of sea island cotton fabric. The colour scheme incorporates bright colours, blue, red, mauve and yellow, contrasted with white and grey.

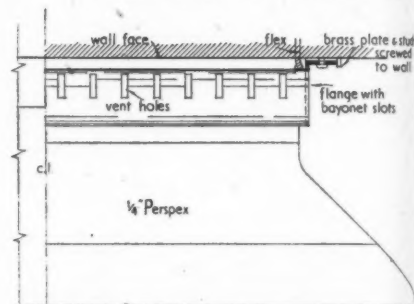
EQUIPMENT.—Considerable use has been made of perspex for display panels and there is a specially lettered enquiry board. Joinery is of natural coloured mahogany and the remodelled counters have tops of heat-resistant, laminated plastic sheeting. Two types of inexpensive chairs have been loaned by the makers. The curtains are of yellow cotton material.

The contract price was £358.

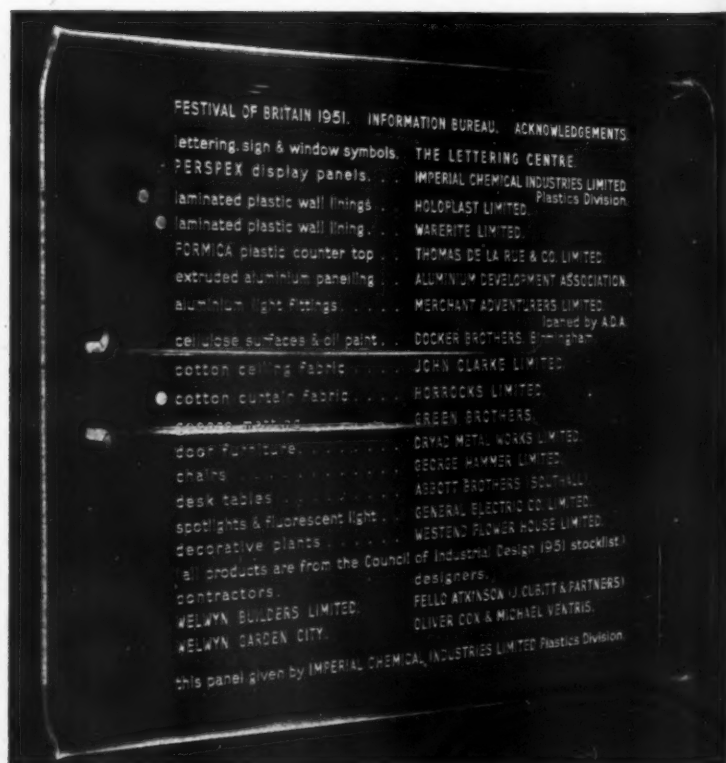
The general contractors were Welwyn Builders, Ltd. For list of contractors who have donated materials and equipment, see page 76.



Section through acknowledgment panel



Half plan of panel (Scale: 3"=1')



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

TECHNICAL SECTION

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

THE INDUSTRY

By Brian Grant

SOAP SUPPLIES

Anyone who has been irritated by the difficulty of obtaining an adequate supply of soap from the usual type of tilting dispenser will be glad to know that it is now possible to arrange for a supply to be piped to almost any number of basins from a single central supply tank. The system is perfectly straightforward and the piping layout is simple with metering valves over each basin designed so that a simple push provides enough soap for normal washing, while it is impossible for the valve to be left open or to make it provide a continuous and wasteful supply of soap. The glass supply tank has a capacity of one gallon and the contents can be instantly checked, while each valve has a fixing flange so that the pipework is adequately supported.

A standard range which consists of supply tank, all pipe work, screws and valves for three basins costs £13 11s., each extra valve and pipework costing a further 46s. Pipe-work is standardized for valves at 20, 22, 24 and 27 inch centres, but other arrangements can easily be made up.—(Charles Winn and Co. Ltd., Granville Street, Birmingham, 1.)

TIMBER PRESERVATION

For many years Messrs. Jenson and Nicholson have published a booklet, *The Enemies of Timber*, which has been completely revised and re-written and has now been republished in an enlarged form. It deals with all the fungi and insects which normally attack timber, and describes methods by which the attacks can be prevented or overcome if they have started. Rather naturally the suggested remedies are all based on the various Cuprinol compounds in which Jenson and Nicholson are interested, all of which have developed from the original Danish development in 1912, when metallic (mainly copper) naphthenates in spirit solvents were used as preservatives. Production over here started at Avonmouth in 1932 and there is now a full range of Cuprinol compounds for all types of preservation work. Any form of chemical applied to wood in an unfixed water soluble form is liable to be washed away when the wood becomes wet, the very time when the preservative is needed. On the other hand, chemicals in spirit solvents do not wash out and treated timbers can be handled as soon as the solvents have evaporated, a further advantage of the Cuprinol compounds being that they do not interfere in any way with subsequent decoration.

So far as the rest of the booklet is concerned, there is plenty of information about

the habits of the commoner fungi and wood borers, with useful photographs and other information to show how they can be identified.—(Jenson and Nicholson Ltd., 36, St. James's Street, London, S.W.1.)

TOWER CLOCKS

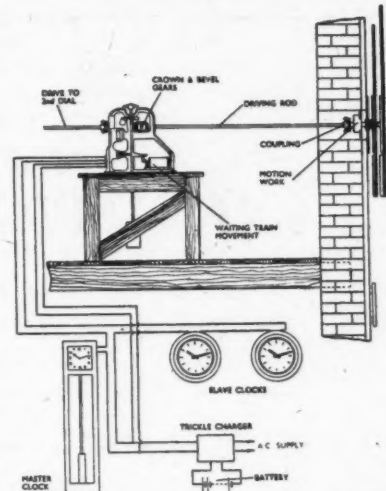
Gents' of Leicester have just issued a very informative catalogue on the planning and installation of tower clocks and striking and chiming equipment, the sort of work Gents have been doing for longer than most of us can remember.

They divide clocks of this type into two main groups, mains operated by time-controlled A.C., and normally very good, though less reliable nowadays with power cuts and the lowered frequencies which the companies provide during the process of load shedding. The alternative is the clock controlled from a master station and independent of all but current interruptions prolonged for days or more.

Movements are made in three sizes suitable for driving the hands of dials from 2 ft. to 20 ft. in diameter, the normal method with a four-faced clock being to mount the movement proper in the centre of the tower, driving a pair of shafts (rotating once an hour) at right angles; the 12 to 1 hour hand reduction being mounted in the wall immediately behind the face.

With the pendulum type of master clock controlling any number of dials the appropriate tower movement for the larger clocks is known as the waiting train type. This is in effect a free swinging pendulum clock corrected to the exact time every half minute by the master clock. It has the advantage that the pendulum is electrically energised about once a minute in normal conditions, but in wind, snow or frost, the pendulum is automatically energised more often, every swing, if necessary, to provide the necessary extra power.

The firm also makes a range of striking and chiming mechanisms and the tuning mechanisms which so many manufacturers seem to find so amusing, but



Wiring and connections of typical master clock controlled tower clock installation employing a waiting train movement.

against which I have a firm personal prejudice.

A useful booklet which gives all the essential information. (Gent & Co. Ltd., Faraday Works, Leicester.)

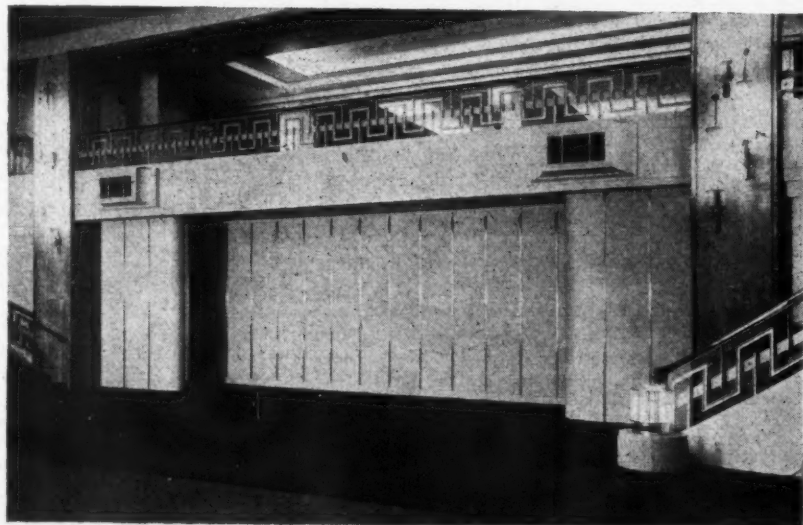
PORTABLE PLYWOOD SCREEN

An interesting portable screen designed by George Ramon and built by Pollards has recently been installed in the Great Room at Grosvenor House. This room is used for large-scale banquets and exhibitions are also held from time to time so that it is necessary to add or subtract from the floor space. The screen, therefore, had to be easily and quickly removable, of very light weight, and conform with LCC fire regulations. It is 34 ft. long, 11 ft. high, and only 1½ in. thick, and has 16 panels in the middle tongued into each other, with a door opening at both ends. Each panel weighs only 74 lb., and they can be separated and stacked in a few minutes.

Plymax packed with mineral wool has solved the problem of weight; it is fireproof and heat-resisting to a high degree.

After sandpapering, the matt surface has been decorated to blend with the general decor.

Plymax screen, Great Room, Grosvenor House, Park Lane.



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

CURRENT PRICES FOR MEASURED WORK

BY DAVIS, BELFIELD AND EVEREST, Chartered Quantity Surveyors

For Rates of Wages and Market Prices of Materials
see THE ARCHITECTS' JOURNAL for July 6.

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

PRELIMINARIES

To all valuations for measured work add for Preliminaries, Water and Insurances, according to the nature of the job (say) 11%

EXCAVATOR

Excavation

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

Surface digging, 6" deep	per yard super	-/9
Ditto, 12" deep	per yard super	1/5½
Excavating not exceeding 10' 0" deep to reduce levels	per yard cube	6/1
Excavating not exceeding 5' 0" deep to form basement	per yard cube	6/10
Ditto, exceeding 5' 0" and not exceeding 10' 0" deep ditto	per yard cube	9/10
Excavating not exceeding 5' 0" deep to form surface trenches	per yard cube	8/4
Ditto exceeding 5' 0" deep and not exceeding 10' 0" deep ditto	per yard cube	11/4
Excavating not exceeding 5' 0" deep to form basement trench, commencing 10' 0" deep	per yard cube	14/4

Disposal

Returning, filling and ramming around foundations	per yard cube	2/8
Wheeling excavated soil not exceeding 100 yards and depositing	per yard cube	3/-
Ditto and spreading and levelling	per yard cube	3/11
Ditto, ditto, and consolidating to make up levels under floors and pavings	per yard cube	5/-
Filling into lorries and carting away	per yard cube	11/3

Planking and Strutting

Planking and strutting to sides of surface or basement excavation not exceeding 5' 0" deep	per ft. super	-/5
Ditto not exceeding 10' 0" deep	per ft. super	-/6
Planking and strutting to sides of surface trenches not exceeding 5' 0" deep (both sides measured)	per ft. super	-/1½
Ditto not exceeding 10' 0" deep (ditto)	per ft. super	-/3½

CONCRETOR

Concrete (Basic Prices)

Portland cement concrete 1 : 3 : 6 with 1½" coarse aggregate in foundations and masses exceeding 12" thick	per yard cube	52/3
Ditto 1 : 2 : 4 with ½" coarse aggregate ditto	per yard cube	50/6

Add to Basic Prices for:—

Working around rod or mesh reinforcement	per yard cube	4/6½
Being in beds less than 12" thick (6"-12")	per yard super	-/4½
Ditto less than 6" thick (3"-6")	per yard super	-/9

CONCRETOR—(continued)

Being in small quantities not exceeding 3' cube	per yard cube	12/1
Being in suspended floors and roofs	per yard cube	9/1
Being in walls not exceeding 6" thick	per yard cube	10/7
Ditto exceeding 6" but not exceeding 12" thick	per yard cube	6/1
Ditto exceeding 12" thick	per yard cube	3/-
Being in lintels, beams, etc., not exceeding 72 sq. in. sectional area	per yard cube	13/8
Ditto exceeding 72 and not exceeding 144 sq. in. sectional area	per yard cube	9/1
Ditto exceeding 144 sq. in. sectional area	per yard cube	6/1
Being in columns not exceeding 72 sq. in. sectional area	per yard cube	21/2
Ditto exceeding 72 and not exceeding 144 sq. in. sectional area	per yard cube	13/8
Ditto exceeding 144 sq. in. sectional area	per yard cube	9/1

Formwork

Close boarded formwork and supports to soffits of floors not exceeding 12' high	per yard super	17/10
Ditto to vertical faces of walls (both sides measured)	per yard super	14/3
Ditto to sides and soffits of lintols and beams	per ft. super	1/10½
Add to any of the above for wrot formwork and rubbing down concrete	per yard super	1/10½

Reinforcement

½" to 1" diameter mild steel rod reinforcement, hooked, bent and tied at intersections as required and fixing in concrete	per cwt.	34/4
½" diameter ditto	per cwt.	37/-
½" diameter ditto	per cwt.	46/6
Steel wire mesh fabric reinforcement to B.S. 1221, weighing 4.71 lb. per yard super, well lapped at joints and embedded in concrete	per yard super	2/7
Ditto weighing 9.32 lb. per yard super ditto	per yard super	4/10½

BRICKLAYER

Common Brickwork

	Flettons	Rough stocks
Reduced brickwork one brick thick in cement-lime mortar (1 : 3 : 9)	per yard super 23/2	27/10
Add to the above:—		
If in cement mortar (1 : 3)	per yard super -/1½	-/1½
If circular on plan to flat sweep	per yard super 3/8½	3/11
Ditto to quick sweep	per yard super 7/4	7/10
Half brick wall in cement lime mortar (1 : 3 : 9)	per yard super 12/9	15/1
Ditto built fair and pointed both sides with a neat flush joint	per yard super 14/4	16/8

BRICKLAYER—(continued)

		Flettons	Rough stocks
One brick wall built fair and pointed both sides with a neat flush joint	per yard super	23/3	27/11
11" hollow wall with 2" cavity and galvanized iron twisted ties	per yard super	25/9	30/5

Engineering Brickwork

		Lingfield Engin- g Wirecuts	Blue Pressed bricks
Reduced brickwork one brick thick in cement mortar (1 : 3)	per yard super	33/1	53/3
Half brick wall in cement mortar (1 : 3)	per yard super	17/11	28/3
Ditto built fair and pointed both sides with a neat flush joint	per yard super	19/9	30/4
One brick wall built fair and ditto	per yard super	36/6	57/4

Sundries

Extra for internal fair face and flush pointing	per yard super	-11	
Horizontal damp-proof course of two courses of slates and bedding and pointing	per foot super	2/10½	
Ditto of hessian base bitumen well lapped at joints	per foot super	-7	
Fixing only metal window, size 1' 8" × 4' 0", including cutting and pinning lugs to brickwork, bedding frames and pointing in mastic one side	each	6/5	
Ditto, 3' 3" × 4' 0" ditto	each	10/-	
Ditto, 6' 6" × 4' 0" ditto	each	17/7	

Partitions

		2"	2½"	3"	4½"
Breeze concrete solid partition blocks to B.S. 492 and setting in cement mortar	per yard super	6/9	7/10	9/-	11/4
Hollow clay partition blocks to B.S. 1190, keyed on both sides and ditto	per yard super	6/10	7/7½	9/-	11/1
Moler hollow partition blocks, keyed on both sides and ditto	per yard super	11/2	13/4	15/-	17/2

Facings

		White glazed facings p.c.	Ordinary facings, p.c.	ing with white cement
Extra over common brickwork built with bricks p.c. 90/-M for facings as described, and pointing with a neat weathered joint:—		1,060/- M for stretchers	196/6	219/8
To solid wall in Flemish bond	per yard super	11/6	13/2	74/4
To cavity wall in stretcher bond	per yard super	9/5	10/9	58/3
To ditto in Flemish bond with snapped headers	per yard super	10/11	12/5	—
Half brick wall in facings in stretcher bond built fair and pointed one side with a neat weathered joint	per yard super	21/2	22/5	—
Ditto pointed both sides	per yard super	23/9	25/-	—
One brick wall in facings built fair and pointed one side	per yard super	37/8	40/2	—
Ditto pointed both sides	per yard super	40/3	42/9	—
Brick on end flat arch in facings 4½" on soffite and 9" high and pointing	per foot run	2/5	2/6	—
Brick on edge coping to 9" wall with two courses plain tiles under, laid breaking joint, two cement angle fillets and pointing	per foot run	3/9½	3/10½	—

ASPHALTER

		To B.S. 1097	To B.S. 1418
Horizontal asphalt tanking in three thicknesses on brick or concrete	per yard super	15/-	25/2
Vertical ditto	per yard super	18/11	28/10½

		To B.S. 988	To B.S. 1162
1" asphalt flat in two thicknesses on and including felt underlay	per yard super	11/3	18/4½

ASPHALTER—(continued)

		To B.S. 988	To B.S. 1162
¾" asphalt skirting 6" high with angle fillet at bottom and rounded top, turned into groove	per foot run	1/11	2/4½
¾" asphalt fascia 6" high with solid water check roll at top and undercut drip at bottom	per foot run	2/7½	3/2

DRAINLAYER

Trenches and Beds

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

Excavate trenches for 4"-9" pipes, including planking and strutting, filling in and ramming, and wheeling and spreading surplus:—			
For each 12" in depth, for trenches not exceeding 3' 0" deep	per yard run	2/5	
Ditto for trenches exceeding 3' 0" and not exceeding 5' 0" deep	per yard run	3/7	
Ditto for trenches exceeding 5' 0" and not exceeding 10' 0" deep	per yard run	6/2	
6" concrete (1 : 3 : 6) bed and benching for pipes	per yard run	4" 5/5	6" 6/5
6" ditto, and surround	per yard run	12/4	14/10½

Drains

		3"	4"	6"
Clayware butt-jointed land drains and laying in trench	per foot run	-3½	-4	-7½
"Seconds" quality glazed stoneware socketed drains and laying and jointing in trench	per foot run	1/7½	2/4	3/8½
"British Standard" quality ditto	per foot run	1/10½	2/9	4/5
Extra on "Seconds" quality for bends	each	1/11	2/10	4/-
Ditto "British Standard" quality ditto	each	2/3½	3/4½	5/11½
Extra on "Seconds" quality for single junction	each	3/1	4/5½	6/4
Ditto "British Standard" quality ditto	each	3/7½	5/3	8/11½
Cast iron socketed drains to B.S. 437 and laying and jointing in trench	per foot run	9/1	14/2	27/10
Extra for short radius bend (Fig. No. 4)	each	18/7	35/9	103/6
Extra for single junction (Fig. No. 18)	each	33/8	65/6	195/-

Fittings, etc.

		4"	6"
Glazed stoneware trapped gulley with galvanized grating and outlet and setting in concrete	each	17/9	29/-
Ditto with vertical inlet ditto	each	21/2	32/3
Cast iron trapped gulley with high invert, grating, and 4" outlet and setting in concrete	each	40/9	—
Ditto with vertical inlet ditto	each	50/2	—
Glazed stoneware intercepting trap with inspection arm, stopper and chain and fixing in manhole and jointing to drain	each	47/6	54/10
Brown glazed stoneware half round straight channels and bedding and jointing in cement mortar	per foot run	1/6	2/3
Ditto ordinary channel bend and ditto	each	4/5	6/3
Cast iron coated single seal manhole cover and frame to B.S. 497 Grade C and setting frame in cement and cover in grease	each	24" × 18" 32/10	24" × 24" 45/10
Galvanized ditto	each	52/10	76/10

PAVIOR

		¾"	1"	1½"
Cement and sand (1 : 3) floated screed to receive pavings	per yard super	3/1	3/9½	4/3½
Ditto trowelled smooth to receive linoleum	per yard super	3/4½	4/1	4/7
Cement and sand (1 : 3) paving trowelled hard and smooth	per yard super	3/5	4/1½	4/7½
Granolithic paving (1 : 2½) laid on concrete	per yard super	5/2½	5/11	6/7½
¾" Red composition paving to B.S. 776 laid on prepared screed	per yard super	15/9		
¾" Terrazzo paving (Portland cement and spar aggregate) laid on prepared screed	per yard super	34/1½		
Extra for white or cream cement	per yard super	5/3		
¾" Rubber flooring in all colours, laid on prepared screed	per yard super	34/1½		
¾" × 12" × 12" Rubber tile flooring ditto	per yard super	28/10½		

PAVIOR—(continued)

$\frac{1}{8}$ " \times 12" \times 12" Cork tile flooring (brown shades) laid in mastic on prepared screed, surfaced and polished	per yard super	37/3
$1\frac{1}{4}$ " Hard red paving bricks p.c. 309/6 per M. laid flat on prepared bed in cement mortar	per yard super	17/4
$1\frac{1}{4}$ " Ditto laid herringbone	per yard super	19/2
6" \times 6" Red quarry tile paving to B.S. 1286 laid on prepared screed with straight joints	per yard super	$21/-$ $\frac{7}{8}$ 22/7
6" \times 6" Buff quarry tiles as last	per yard super	22/1 24/8
$2\frac{1}{2}$ " (Finished) Gravel path laid on prepared bed, well watered and rolled to cambers and falls	per yard super	2/34

MASON

Portland stone and all labours in pilasters, quoins, jambs, lintols, etc.	per foot cube	34/8
Ditto in arches, columns, cornices, etc.	per foot cube	43/1
Ashlar av. $6\frac{1}{2}$ " on bed with plain dressed face	per foot super	18/11
Portland stone or artificial stone to B.S. 1217:—	Portland Artificial	
$4\frac{1}{2}$ " \times 4" Sill, sunk, weathered, throated and grooved for water bar, set and jointed in cement mortar	per foot run	6/4 3/4
9" \times 3" ditto	per foot run	7/4 4/10
2" \times 12" Coping, weathered and twice throated, set and jointed as last	per foot run	6/104 4/5
3" \times 12" Ditto	per foot run	9/5 6/6
5" \times 12" Saddle back coping twice throated, set and jointed as last	per foot run	15/9 10/4
6" \times 12" Ditto	per foot run	17/4 11/10

SLATER, TILER AND ROOFER

Slates		20" \times 10" 16" \times 8"	
Best Bangor slates to B.S. 680 laid with 3" lap, each slate nailed with two stout copper nails	per square	225/-	210/-
Ditto hung vertically to dormer cheeks and gables	per square	236/3	225/-
Tiles.		Hand made	Machine made
Best sand faced plain (nibbed) tiles to B.S. 402, $10\frac{1}{2}$ " \times 6" laid to a 4" gauge with each tile in every fourth course nailed with galvanized nails	per square	141/9	133/104
Ditto hung vertically to dormer cheeks and gables to $4\frac{1}{2}$ " gauge with each tile nailed with galvanized nails	per square	136/6	131/3
Berkshire hand made sand faced red pantiles $14\frac{1}{2}$ " \times 10" laid to $2\frac{1}{2}$ " head and $1\frac{1}{2}$ " side laps, each tile in every third course nailed with galvanized nails	per square	141/9	149/74
Ditto to mansard slopes	per square	86/8	
Concrete plain (nibbed) tiles to B.S. 473, $10\frac{1}{2}$ " \times 6" laid as before described for plain tiles	per square	89/3	
Ditto hung vertically to dormer cheeks, and gables, ditto	per square	76/114	
Concrete interlocking tiles $15"$ \times 9" laid to 3" lap, each tile in every third course nailed with galvanized nails	per square	84/-	
Ditto to mansard slopes ditto	per square		
Asbestos Cement			
6" Corrugated asbestos cement sheeting fixed to wood roofs with galvanized drive screws and washers with a side lap of $1\frac{1}{2}$ corrugations and an end lap of 6"	per square	69/4	
6" Ditto but fixed vertically	per square	73/6	
Add to both last if fixed to steel purlins or sheeting rails with galvanized hook bolts	per square	2/84	
Felt			
Reinforced bituminous roofing felt laid with 3" laps and nailed to rafters at 18" centres with galvanized clout nails	per square	18/11	
One-ply bitumen felt to B.S. 989 laid on concrete. Each layer bedded in hot bitumen	per yard super	6/4	8/5

CARPENTER

Carcassing			
Softwood, sawn and fixed, in plates, sleeper joists and lintols	per foot cube	12/1	
Ditto in floor and ceiling joists	per foot cube	13/7	
Ditto in stud partitions	per foot cube	14/11	
Ditto in rafters	per foot cube	14/9	
Ditto in purlins and struts	per foot cube	14/11	

CARPENTER—(continued)

Ditto and framing in ridge	per foot cube	14/9
Ditto in hip and valley rafters including cutting rafters to sides	per foot cube	16/6
Battening and Boarding		
$\frac{3}{4}$ " \times $1\frac{1}{2}$ " Battens nailed to softwood for 20" \times 10" slates to $8\frac{1}{2}$ " gauge	per square	24/2 25/2
Ditto 16" \times 10" slates to $6\frac{1}{2}$ " gauge	per square	28/104 30/2
Ditto $10\frac{1}{2}$ " \times 6" tiles to 4" gauge ($4\frac{1}{2}$ " for vertical hanging)	per square	39/44 39/44
Roof Slopes Mansards		
Ditto $14\frac{1}{2}$ " \times 10" pantiles to 12" gauge	per square	16/10 17/4
Ditto 15" \times 9" concrete interlocking tiles to 12" gauge	per square	$\frac{1}{2}$ " 1" 89/5 111/4
Roof boarding in batten widths close jointed and fixed to flat or sloping roofs	per square	148/5 173/3
Ditto tongued and grooved and prepared for felt roofing including firing to falls	per square	1/- 1/24
Sawn gang boarding fixed to joists in roof	per foot super	1/7 1/10
Wrot and crosstongued eaves soffit	per foot super	
6" Wrot and grooved eaves fascia planted on	per foot run	-/7 -/9
Wall and Ceiling Boards		
$\frac{1}{2}$ " Fibre board to B.S. 1142 fixed with galvanized flat headed nails to softwood	per yard super	Vertically 5/4 Soffites 5/5
$\frac{3}{8}$ " Asbestos cement flat sheeting to B.S. 690 fixed as last	per yard super	4/64 4/10
$\frac{1}{4}$ " Ditto	per yard super	5/5 5/74

JOINER

Floors and Skirtings		Floors and Skirtings	
(All thicknesses stated are nominal)			
Plain edge softwood flooring in batten widths nailed to floor joists	per square	$\frac{3}{4}$ " 1" 114/9 118/6 142/3	
Tongued and grooved ditto	per square	114/- 126/3 151/-	
1" Double grooved and tongued and grooved wood block floor laid herringbone with two-block border, set in hot mastic composition on prepared screed and wax polished:—			
Swedish softwood	per yard super	24/3	
English Beech	per yard super	34/9	
European Beech	per yard super	32/6	
English Oak	per yard super	45/3	
European Oak	per yard super	39/4	
Burma Teak	per yard super	46/3	
Softwood skirtings with splayed or molded top edge, planted on (per inch sectional area)	per foot run	3" to 6" 244 Over 6" -/24	
Extra for grounds plugged to brickwork	per foot run	-/5	
Windows in Softwood			
Rebated and molded softwood fanlights and casement sashes divided into squares for glass	per foot super	144 2" 2/54 2/9	
Extra for hanging	each	4/11 4/11	
Cased frames with 6" \times 3" Oak sill and 2" molded double hung sashes including pulleys, line and weights	per foot super	— 8/6	
N.B.—The above prices are for purpose made joinery. Standard pattern casement windows and double hung sashes and frames to B.S. 644 are cheaper.			
Doors in Softwood			
Framed ledged and braced doors filled in with 1" T. & G. and V-jointed boarding and hanging	per foot super	144 144 2" 4/4 4/104 5/-	
Four-panel door, square both sides and hanging	per foot super	3/3 3/6 3/7	
Ditto molded one side	per foot super	3/6 3/94 3/104	
Ditto molded both sides	per foot super	3/94 4/04 4/2	
N.B.—The above prices are for purpose made doors. Standard panelled doors to B.S. 459 are cheaper.			
144 Standard flush doors 2' 6" \times 6' 6", internal pattern	each	84/3	
2" Ditto external pattern	each	89/9	

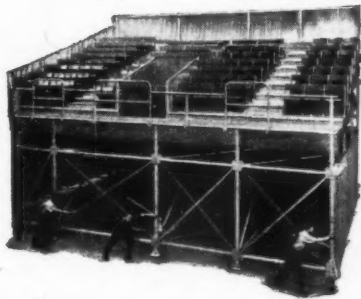
Linings, Frames, etc., in Softwood

Linings, Frames, etc., in Softwood		Sectional area	
Window and door linings etc. (per inch in sectional area)	per foot run	Up to 6" 6" to 12" -/3 -/24	
Frames wrot all round and framed (ditto)	per foot run	-/24 -/2	
Mullions, transoms and cills (ditto)	per foot run	-/24 -/24	
Moldings, architraves, etc. (ditto)	per foot run	2" to 4" 4" to 6" -/2 -/14	



Consulting Engineer: Martin I. Addams, B.Sc.(Eng.), A.M.I.C.E., A.C.G.I., M.I. Struct.E.

EXTRA SEATING ACCOMMODATION TODAY- COMPLETELY CLEAR SPACE TOMORROW



The large increase in the seating accommodation at Earls Court Stadium is made possible by Mobile Units each capable of seating up to 150 people. These were designed to specification and constructed by Hills (West Bromwich)

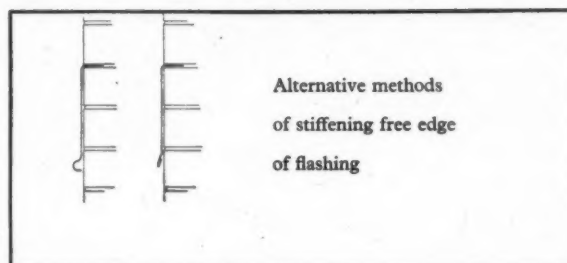
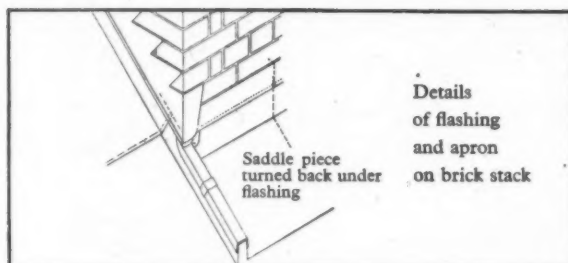
Limited from T.I. Aluminium Alloy Sheet and Extrusions. Mounted on Castors the Units can be moved by only four men and the entire additional seating can be cleared away in less than 24 hours. This seating arrangement is typical of the almost limitless applications for which T.I. Aluminium is suitable and which are winning the approval of larger and larger audiences in all branches of industry.

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

ALUMINIUM AND ALUMINIUM ALLOY INGOT, SLABS, BILLETS, SHEET, STRIP, TUBES AND EXTRUSIONS TO ALL COMMERCIAL, A.I.D. AND LLOYD'S SPECIFICATIONS



DATA SHEET FOR ARCHITECTS No. 7 ZINC CHIMNEY FLASHINGS & APRONS



Zinc is one of the most economical materials available for permanent work and has the additional advantage that it is easily formed. For flashings and aprons No. 14 Z.G. (21 I.S.W.G.) is recommended as a thickness which will ensure a long, trouble-free life. Step flashings of the required length are easily made up from zinc strips at least 7" wide by measuring off the steps against the brickwork.

Flashings and aprons are turned into the brickwork and secured by wedges and then pointed. No standard dimensions can be laid down owing to the wide variation in the size of chimneys and the pitch of roofs. Further information on weatherings, gutterings and other uses of zinc in building can be had from the Association, together with a list of publications.

ZINC DEVELOPMENT ASSOCIATION

LINCOLN HOUSE TURL STREET OXFORD TELEPHONE OXFORD 47988



JOINER—(continued)

6" Window boards with rounded nosings, tongued at back and including bearers	per foot run	Thickness 1" 1½"	2/3 2/5
9" Ditto	per foot run	2/5	2/8
<i>Shelving and Fittings in Softwood</i>			
Shelving of 2" slats spaced 1" apart on bearers (measured separately)	per foot super	1/8½	2/1
Shelving on ditto	per foot super	2/-	2/7
Crosstongued shelving on ditto	per foot super	2/4½	3/-
Shelving 9" wide on ditto	per foot run	1/6	1/11
2" Shelf bearers plugged to walls	per foot run	-9	-9
The following in framed up cupboard fittings:—			
T. & G. & V-jointed back	per foot super	1/10	2/-
Crosstongued top, bottom shelf or division	per foot super	2/3½	2/7
1½" Flush cupboard doors	per foot super	4/10	
Labour rebate or groove	per foot run	-2½	
Ditto cross-grain	per foot run	-3½	
1" x 2" Bearers screwed on	per foot run	-4½	

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

IRONMONGERY

3" Steel butts (medium quality)	per pair	Soft-wood	Hard-wood
4" Ditto (ditto)	per pair	1/10	1/10
Double action floor springs and top centres including filling boxes with oil	each	142/7	147/4
Overhead check action door springs. P.C. 60/6	each	75/6	78/6
6" Barrel bolts. P.C. 3/7	each	5/3	5/7
Cupboard locks. P.C. 6/4	each	9/8	10/7
Norfolk latches. P.C. 4/7	each	8/8	9/10
Cylinder night latch. P.C. 10/6	each	16/-	17/6
Mortice latch. P.C. 7/9	each	12/1½	13/4
Rim lock. P.C. 8/3	each	11/9	12/8
Mortice lock. P.C. 12/1	each	17/10	19/4
Door furniture. P.C. 17/8	per set	20/4	20/4
Sash fasteners. P.C. 6/1	each	8/1½	8/7½
Casement fasteners. P.C. 6/1	each	7/9	8/1½
Casement stays. P.C. 8/10	each	10/9	11/2

STEEL AND IRONWORKER

Structural Steelwork

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

R.S.J.—in steel framed structures hoisted and fixed complete	per ton	£ s. d.	45 3 0
Riveted compound girders including plates and rivets	per ton	49 7 0	
R.S. Stanchions including caps, bases, cleats, etc.	per ton	50 18 6	
Riveted compound stanchions ditto	per ton	52 10 0	
Riveted roof trusses with flat and angle members, plates, cleats, etc., 30' span	per ton	70 7 0	
Ditto 40' span	per ton	68 5 0	

Sundries

Simple wrought iron balustrades fixed complete (excluding mortices etc.)	per cwt.	7 15 0
Bolts with heads, nuts and washers and fixing	per cwt.	8 15 0

PLASTERER AND TILE FIXER

24 gauge expanded metal lathing and fixing to softwood soffites	per yard super	5/-
---	----------------	-----

Lime and Gypsum Plaster

Three coat lime and two coat Sirapite or similar Gypsum plaster:—	Lime	Sirapite
On brick walls and partitions	per yard super	4/4½ 3/6
On concrete soffites including hacking	per yard super	5/4½ 4/6
On soffite of E.M.L. (measured separately)	per yard super	4/5 4/8
On and including wood laths, to soffites per yard super	7/8½	—
½" Gypsum plasterboard fixed to softwood soffites, in accordance with manufacturer's instructions, scrimmed and finished with setting coat of suitable plaster	per yard super	5/9
Plaster moulded cornice or cove (per inch in girth)	per foot run	-/4

Cement Rendering

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

PLASTERER AND TILE FIXER—(continued)

Wall Tiler

6" x 6" x ¾" Standard quality white glazed wall tiles set and jointed on prepared screed	per yard super	34/8
Ditto coloured enamel bright glazed tiles ditto	per yard super	42/-
Ditto eggshell matt enamelled	per yard super	43/7

EXTERNAL PLUMBER AND COPPERSMITH AND ZINCWORKER

	Flats	Gutters, Stepped flashings, etc.	flashings
Milled sheet lead and labour	per cwt.	169/4	176/8
24 S.W.G. sheet copper and labour	per foot super	4/7	4/10 5/1
23 S.W.G. sheet copper and labour	per foot super	4/10	5/1 5/4
14 gauge zinc and labour	per foot super	2/9½	2/11½ 3/2

Rainwater Pipes and Gutters

Cast iron medium section (¾" metal) R.W. pipes and jointing and fixing to walls with pipe nails and distance pieces or holderbats (cutting and pinning holderbats measured separately)	per foot run	4/6½ 3/8	5/6 4/7
Pressed steel R.W. pipes and ditto	per foot run	2/10½ 2/4½	3/10 3/3½
Asbestos cement R.W. pipes and ditto	per foot run	2/1	2/8 —
Cast iron half round eaves gutter and jointed and fixed with brackets to fascia	per foot run	1/11½ 2/8½	3/4½ 4/1
Ditto O.G. ditto	per foot run	2/6 3/4	3/9 5/1
18 Gauge pressed steel half round ditto	per foot run	1/11½	2/10
Ditto O.G. ditto	per foot run	2/5	3/3½
Asbestos cement half round ditto	per foot run	1/10½	2/11½
Ditto O.G. ditto	per foot run	2/1½	3/2

Soil and Ventilating Pipes

Lead soil, waste and ventilating pipes (17 lb. per yard for 3" and 22.8 lb. per yard for 4" diameter) fixed to walls with lead tacks and brass screws	per foot run	3" 9/8	4" 13/3
Medium or heavy section cast iron soil, waste and ventilating pipes with caulked joints, fixed to walls, with pipe nails and distance pieces	per foot run	4/8	5/10½ 5/10

INTERNAL PLUMBER

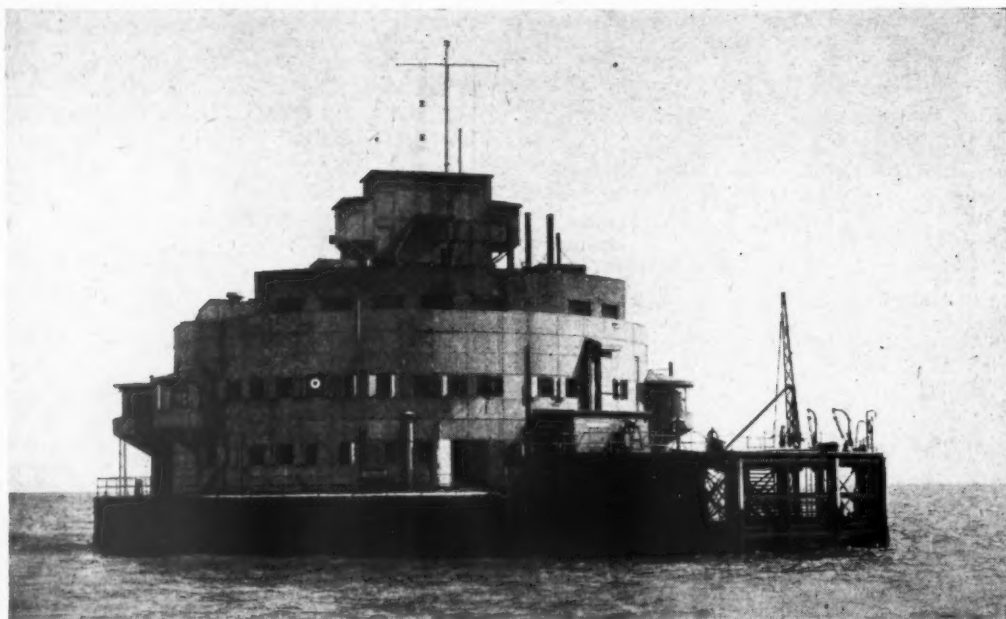
Lead Pipes

Prices are based upon the following weights per yard.

	1½"	1"	¾"	½"
Supply	lb.	11	16	21
Distributing	6	9	12.5	16
Flushing and overflow	3	5	7	9
Waste and ventilating	—	—	—	7
Supply pipe in trench (measured separately)	per foot run	3/2	4/10	6/11 9/4½
Ditto fixed to walls and ceilings	per foot run	3/6½	5/4½	7/7½ 10/2
Distributing pipe fixed to walls and ceilings	per foot run	3/2	4/7	6/3 8/2
Flushing and overflow pipe ditto	per foot run	2/6½	3/1	4/1½ 5/4½
Waste and ventilating pipe ditto	per foot run	—	—	4/8
Joints to fittings	each	4/3½	5/1	5/5 6/1½
Bends	each	-9½	-9½	1/0½ 1/6
Branch joints	each	5/1	6/1½	6/6½ 7/7½

Steel Tubes and Fittings

Galvanised steel tubes to B.S. 1387 Class C with screwed joints in red lead as supply pipe laid in trench (measured separately)	per foot run	1/7	1/10	1/11½ 2/8½
Ditto Class B ditto fixed to walls and ceilings as supply, distributing, waste pipe, etc.	per foot run	1/8	1/11	2/- 2/8
Joints to fittings	each	3/1	3/9	4/5½ 5/4
Bends	each	1/8	2/0	2/8½ 4/0
Tee, equal or reducing	each	1/8	2/0	2/5½ 3/6



NO RUST
on HOPE'S
HOT-DIP GALVANIZED
WINDOWS
after seven years at sea

HOPE'S HOT-DIP GALVANIZED WINDOWS WERE INSTALLED IN THIS SEA FORT IN 1941 AND WERE NOT PAINTED UNTIL 1947, BUT THE PROTECTIVE COAT OF ZINC IS STILL IN EXCELLENT CONDITION

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

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

Prices are based upon the following gauges:—

	$\frac{1}{2}$ "	$\frac{3}{4}$ "	1"	1 $\frac{1}{2}$ "
Supply	18	17	16	16
Distributing, waste, etc.	19	19	18	18
Copper tubes to B.S. 1386, as supply pipe laid in trench (couplings and trench measured separately)	per foot run 1/6 $\frac{1}{2}$	2/2	3/-	3/8
Ditto to B.S. 659 as distributing, waste pipes, etc. fixed to walls and ceilings. Couplings measured separately	per foot run 1/6	1/11 $\frac{1}{2}$	2/9	3/3 $\frac{1}{2}$
Brass compression type couplings—copper to copper	each 3/3	3/10	5/4	6/11
Ditto bends	each 4/3 $\frac{1}{2}$	5/1	7/3 $\frac{1}{2}$	9/3 $\frac{1}{2}$
Ditto tees	each 5/8 $\frac{1}{2}$	6/6	9/10 $\frac{1}{2}$	14/4

Sanitary Fittings

		£ s. d.
Fireclay sinks 24" x 18" x 10" including cutting and pinning brackets to tiled wall. P.C. 60/-	each	3 16 9
Combined metal sink and drainer 42" x 18" x 8 $\frac{1}{2}$ " to bearers (measured separately). P.C. 299/6	each	16 15 3
Fireclay lavatory basin 25" x 18" with taps and towel rail bracket including screwing brackets to tiled wall. P.C. 101/6	each	6 1 9
Rectangular cast iron porcelain enamelled bath 5' 6" long, with taps, and panels to side and one end fixed to framing (measured separately) P.C. 312/-	each	18 12 6
Fireclay w.c. pan with trap, plastic seat, high level cistern and flush pipe, including screwing pan to floor and cistern brackets to backboard. P.C. 136/-	each	8 16 9
Ditto with low level cistern. P.C. 148/-	each	9 11 0

GLAZIER

	To wood	To metal
18 oz. Ordinary quality sheet glass and glazing with putty in squares not exceeding 4 ft. sup.	per foot super 1/0	1/2
24 oz. Ditto and ditto	per foot super 1/1 $\frac{1}{2}$	1/3 $\frac{1}{2}$
32 oz. Ditto and ditto	per foot super 1/5 $\frac{1}{2}$	1/7 $\frac{1}{2}$
$\frac{1}{4}$ " Figured, rolled, and cathedral—untinted and ditto	per foot super 1/3	1/5
$\frac{1}{4}$ " Rough cast and ditto	per foot super 1/4	1/6
$\frac{1}{4}$ " Wired cast and ditto	per foot super 1/5	1/7 $\frac{1}{2}$
$\frac{1}{4}$ " Georgian wired cast and ditto	per foot super 1/6	1/8

GLAZIER—(continued)

		To wood	To metal
$\frac{1}{4}$ " Georgian wired polished plate and ditto	per foot super	5/1	5/3
$\frac{1}{4}$ " Polished plate (glazing quality) and ditto	per foot super	4/4 $\frac{1}{2}$	4/6 $\frac{1}{2}$

PAINTER*Whitening, Distemper and Paint on Walls*

Prepare and twice whiten plastered walls and ceilings	per yard super	-/11 $\frac{1}{2}$
Prepare and twice distemper with washable distemper on plastered walls and ceilings	per yard super	1/4
Ditto on brick or concrete	per yard super	1/7
Prepare, prime, and paint two coats oil colour on plastered walls and ceilings	per yard super	2/7

Paint on Metal

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

Paint on Wood

		Basic price	Add for each additional coat
Knot, prime, stop and paint one coat oil colour on general surfaces of woodwork	per yard super	2/9 $\frac{1}{2}$	1/1
Ditto on skirtings, rails, frames, etc., not exceeding 3" girth	per yard run	-/4 $\frac{1}{2}$	-/1 $\frac{1}{2}$
Ditto ditto for each additional 3" in girth	per yard run	-/4	-/1 $\frac{1}{2}$
Ditto on sash squares one side	per dozen	3/7	1/5
Ditto on large sash squares one side	per dozen	6/6	2/6

Stain and Varnish on Wood

Prepare, size, stain and twice varnish on general surfaces of woodwork	per yard super	2/10
Ditto on skirtings, rails, frames, etc. not exceeding 3" girth	per yard run	-/4 $\frac{1}{2}$
Ditto ditto for each additional 3" in girth	per yard run	-/4

Announcements

As a result of the Northern Ireland prime minister's recent visit to the United States and Canada, some American and Canadian firms propose to send representatives to Northern Ireland to explore industrial possibilities on the spot. This information was given in the Northern Ireland Senate recently by Sir Roland Nugent, Leader of the House.

Messrs. W. H. Saunders & Son of Bank Chambers, 1, Carlton Crescent, Southampton, announce the following appointments:—Mr. J. R. Oates, A.R.I.B.A., DIP. ARCH. Sheffield, as Manager of their Channel Islands office at 4, Library Place, St. Helier, Jersey. Mr. R. W. Leggett, A.R.I.B.A., A.M.T.P.I., as manager of their Portsmouth office at Woolwich Equitable Buildings, 53, Commercial Road, Portsmouth.

Horseley Bridge & Thomas Piggott, Ltd., of Tipton, announce that Mr. J. D. Vaughan, M.Sc., M.I.C.E., M.I.STRUCT.E., has been appointed chief engineer and Mr. J. Sim, production manager.

Messrs. Stramit Boards, Ltd., announce the appointment of Mr. A. W. Pyatt, of Birmingham, as their technical representative for the Midlands.

From Saturday, July 8, the address of the head office of the Northern Ireland Housing Trust will be:—12, Hope Street, Belfast. (Tel.: 27971-5.)

Messrs. Thomas Lowe & Sons Ltd., of Burton-on-Trent have produced an illus-

trated brochure to commemorate a century and a quarter of building by the firm.

As the TDA has received hundreds of requests for copies of the statistical graphs showing comparative prices of imported timber from Russia, Sweden and Finland, which originally appeared in the "TDA Quarterly Review," October, 1948, issue, these graphs and explanatory text have now been reprinted in leaflet form. The original graphs covered the period 1920-1947, and supplementary figures for the years 1948 and 1949 have now been included in the leaflet to bring the statistics up to date. Copies are obtainable, free of charge, from the TDA, 75, Cannon Street, E.C.4.

Constructional Research Bulletin No. 5 "Glued Laminated Timber Structures" recently issued by the Timber Development Association discusses the advantages of lamination, adhesive requirements, design considerations, early work in Europe, American progress, American fabrication methods, bowstring roof trusses, Swedish techniques and factors such as cost and species of timber commonly used. Copies of the bulletin can be obtained on application to the TDA, Ltd., 75, Cannon Street, E.C.4.

Mr. G. Kenneth Porter, DIP.ARCH.(DIST.), A.R.I.B.A., A.M.T.P.I. ELECT., has commenced practice in Malta and will be pleased to receive trade catalogues at the following address:—c/o Messrs. Barclays Bank Ltd., D.C. & O., Valetta, Malta.

Mr. Edward D. Mills, F.R.I.B.A., F.R.S.A., chartered architect, announces that his practice is now being carried on from 16, Carlisle Street, Soho Square, W.1 (tel.: Gerrard 8305/6.)

Shortage of packaging materials is causing serious concern to manufacturers throughout the country. Many firms are already handicapped in production, both for the home market and for export, and the position threatens to grow worse. The Waste Paper Recovery Association say that demand has already outstripped the normal supply of waste paper by many hundreds of tons each week, and that stocks have dwindled alarmingly, to four weeks supply. They are appealing especially to all engaged in industry to see that every scrap of used and unwanted paper is recovered. Commercial houses who permit waste paper to be destroyed jeopardise their future supplies of new packaging materials. The Association will deal with any queries at their headquarters, 52, Mount Street, W.1.

The Council of the Design and Industries Association, 13, Suffolk Street, Haymarket, S.W.1, has decided to give consideration to the effect of present high rates of purchase tax on design development. They say there is some evidence that, in some spheres at least, the tax is having a stultifying effect on design development owing to the severe restriction of the home market where, it is generally acknowledged, new ideas must be tried out, perhaps modified, and finally established on an economic basis of production, before they can be offered with complete confidence, and at competitive prices overseas. Retailers, who are obliged to tie up large capital sums in purchase tax, in addition to the value of goods themselves, are severely curtailing their purchases. This is resulting in stocks of certain goods being inadequate not only in quantity but particularly in quality and variety, thus giving a

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

ENQUIRY FORM

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

.....

.....

.....

.....

.....

Please ask manufacturers to send further particulars to:—

NAME

PROFESSION or TRADE

ADDRESS

A.J. 20.7.50

false idea to the buying public of advances that have been made. The systematic reduction of quality standards resulting from this position gives grave cause for concern, especially in view of the influx of foreign visitors expected for 1951. To enable the Association to decide on a course of action, members are asked to communicate to the secretary, as soon as possible, any relevant facts or experiences of which they have personal knowledge, relating to the repressive effect of purchase tax. Confidential information will be treated as such, but it would be of much greater assistance if permission can be given to quote facts in the names of firms or individuals.

The Governors of the Leeds College of Art have confirmed the award of the Pilkington Research Grant of £100 to Mr. R. T. Clough, to enable him to make a measured and photographic study of the Old Lead Smelting Mills of the Yorkshire Dales. Mr. Clough was awarded the Leeds Diploma in Architecture with Distinction in July, 1946, and is the first old student of the Leeds School of Architecture to be awarded the Pilkington Grant under the new regulations. The object of the Grant is to encourage original work in some subject related to the theory or practice of architecture.

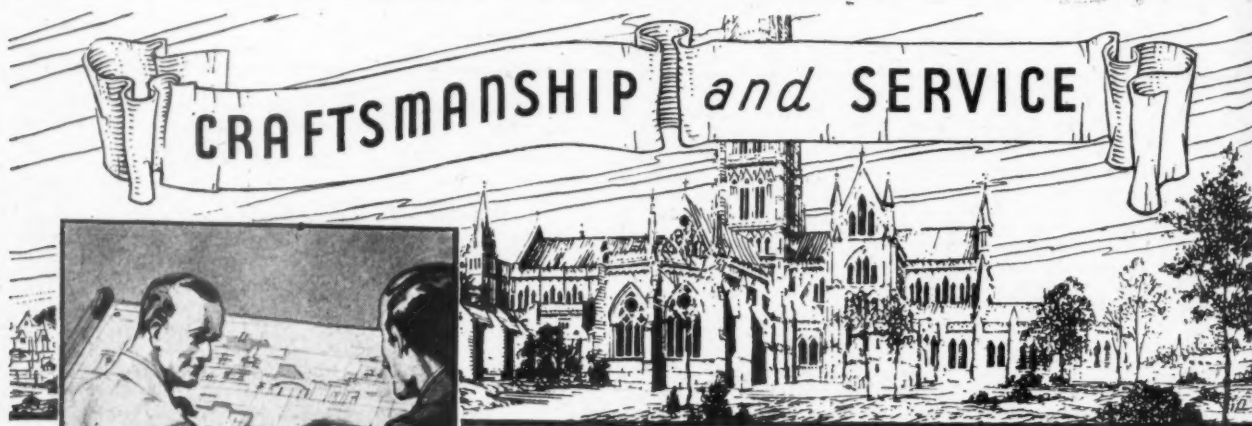
Mr. Hugh Dalton, Minister of Town and Country Planning, has informed Pembrokeshire County Council that he will confirm an application to make certain parts of the rural areas of the country, areas of special control for outdoor advertisements. The villages of Johnston, Crymmych and Kilgetty will be excluded from the area of special control originally proposed. In a letter to the County Council announcing this decision the Minister stated that in Fishguard and Goodwick and in Tenby the proposals submitted will be approved with modifications.

Mr. Raglan Squire announces that he is retiring from the firm of Arcon, Chartered Architects, and will in future practise under the title of Raglan Squire, F.R.I.B.A., M.S.I.A., Chartered Architect, at 39, Eaton Square, London, S.W.1. Telephone Sloane 4226 and 7635.

Mr. Howard V. Lobb has entered into partnership with Mr. F. G. Frizzell, A.R.I.B.A., until lately Northern Divisional Architect with the Miners' Welfare Commission. They will practise under the style of Howard V. Lobb and Partners at 20, Gower Street, London, W.C.1 (tel.: Museum 8575).

Buildings Illustrated

FOB Information Bureau, Leicester Square, W.1. (Pages 165-68.) Architects: Fello Atkinson (James Cubitt & Partners), Oliver Cox, and Michael Ventris, A./A./A.R.I.B.A. General Contractors: Welwyn Builders Ltd. The following firms donated materials: Lettering, sign and window symbols, The Lettering Centre; perspex display panels, Imperial Chemical Industries Ltd. (Plastics Division); red and mauve laminated plastic wall linings, Holoplast Ltd.; blue laminated plastic wall linings, Warerite Ltd.; formica counter top, Thomas De La Rue Ltd.; extruded aluminium panelling, Aluminium Development Association; cellulose surfaces and oil paint, Docker Bros.; sea island cotton ceiling fabric, John Clarke Ltd.; yellow curtain fabric, Horrockses Ltd.; geebro coconut matting, Green Bros.; door furniture, Dryad Metal Works Ltd.; chairs, George M. Hammer & Co. Ltd.; desk tables, Abbott Brothers (Southall); spotlights, General Electric Co. Ltd.; special spun aluminium light fittings, Merchant Adventurers Ltd.



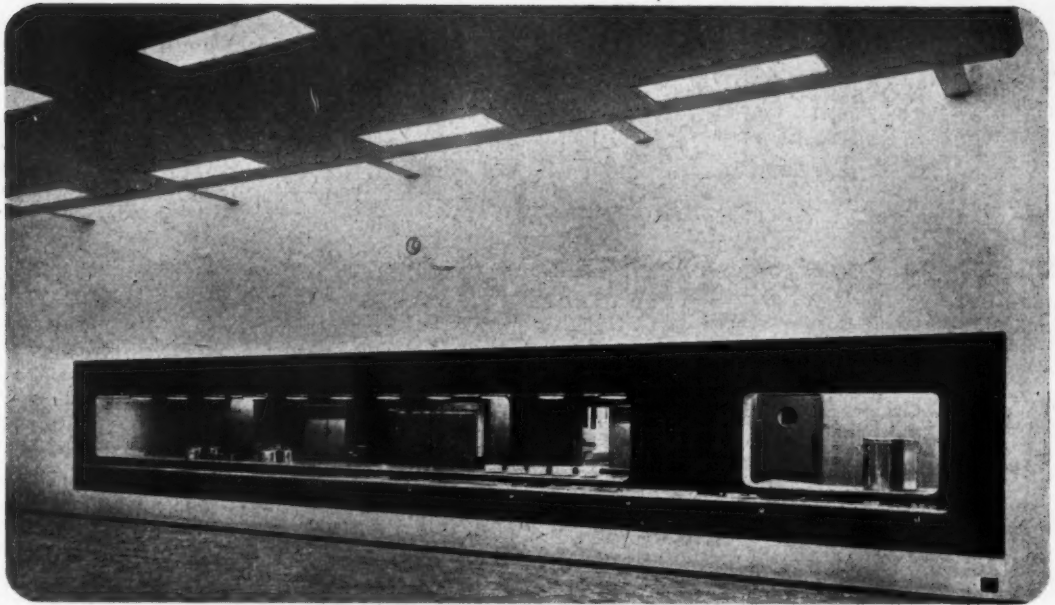
ST. ANN'S STREET,
WESTMINSTER, S.W.1.
and at Streatham
Telephone: ABBEY 4661 (5 lines)

When placing your contracts within the Building Industry, you will wish to receive that precious blend of Craftsmanship, Service and Efficiency, which creates lasting value.

We base our ideas on the craftsmanship of the past with the efficiency of the present, and can offer you the benefit of our experience.

We really ENJOY giving advice of such a service as ours and it has often been our pleasure to be entrusted with most important commissions.

WALTER LILLY
AND COMPANY LIMITED
DECORATORS *Building Contractors* FURNISHERS
WESTMINSTER



Petrocarbon —
Carrington — Cheshire

Architects:
SCHERRER & HICKS,
F.R.I.B.A., London



Co-operation in Kitchen Design

We carry out installations to meet the designs and requirements of the architect and our technical staff are always at your service.

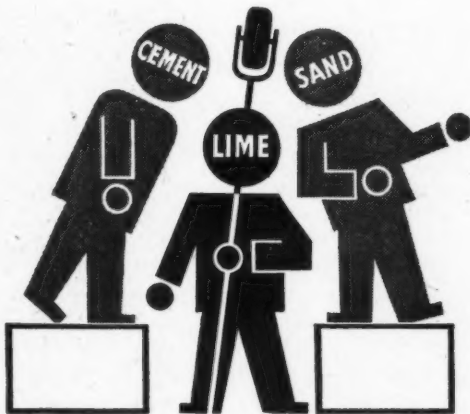
CRITTALL KITCHEN EQUIPMENT CO. (1950) LTD.

Registered Office: PREBEND GARDENS, 195, STAMFORD BROOK ARCHES, HAMMERSMITH, W.6

Tel.: RIVerside 5081

Showrooms: 22-24, Buckingham Palace Road, London, S.W.1.

These three in harmony **mean better workability**



All over the country Architects and Builders are making increased use of LIME-gauged mortar....

LIME makes mortar more plastic — it spreads more easily and packs quicker and tighter into joints.

LIME increases adhesion of mortar to bricks thus reducing penetration of moisture and helps to prevent efflorescence.

For a better job in less time use —

Full details of Cement/Lime/Sand mixes will be sent on application to:—



THE SOUTHERN LIME ASSOCIATION, HANOVER HOUSE, 73-78 HIGH HOLBORN, LONDON, W.C.1. Tel: Holborn 5434



SERVICE TO ARCHITECTS

COOKING

Kitchen layouts and complete installations.
 Manufacture of Cooking Equipment for all fuels.
 Manufacture of Dishwashing Machines.
 Manufacture of Kitchen Joinery.
 Supply of complete range of Chefs' Utensils, Peelers, Mixers, etc.
 Manufacture of Stainless Steel Sinks and Drainers.

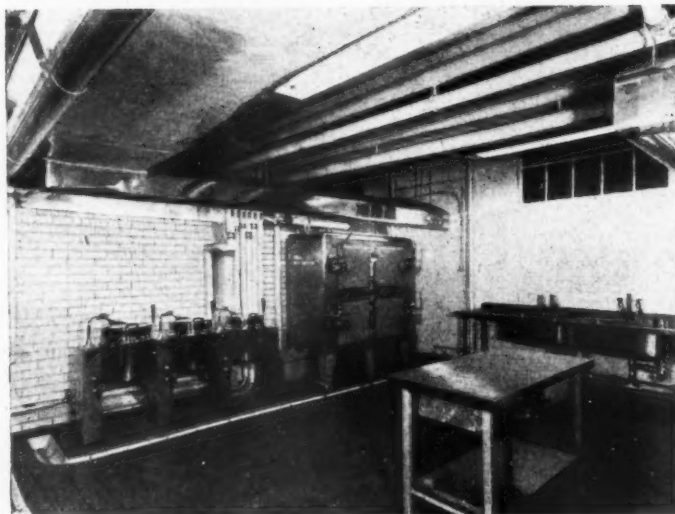
HEATING

Heating and Hot Water Supply by all recognised systems.
 "Panelite" invisible system of radiant warming.
 Boiler plant, Automatic Stokers, etc.
 "Electro-vapour" Radiators, Immersion Elements and Towel Rails.

VENTILATING

Ventilation for all types of buildings, and ships.
 Air-conditioning.
 Dust collection, fume removal and process ventilation.

Rectification of existing installations.



Part of the new kitchen equipment of the Great Room, Grosvenor House, Park Lane, W.1.

Benham & Sons Ltd.

66 Wigmore Street, London, W.1. Tel.: Welbeck 9253 (14 lines)
 ASSOCIATED COMPANIES: DUBLIN, MELBOURNE & JOHANNESBURG.

THE VELVETY FLOOR THAT'S HALF AIR

is not only QUIET, WARM, LUXURIOUS
 but TOUGH, LONG-LASTING, ECONOMICAL

IMPACT NOISE

Cork's air-cellular structure kills noise. Tests of impact noise produced by dropping a steel ball gave the following comparative values for different floors:

HARDWOOD, taken as 100	
MARBLE - - - -	47.4
QUARRY TILE - -	12.3
CONCRETE - - -	10.5
LINOLEUM - - -	2.74
RUBBER TILE - -	1.37
CORK TILE - - -	.46

CORK, most luxurious of floors, has long been the architect's first choice where silence is essential, or comfort more important than cost.

But this resilient material, more than half air, is also exceedingly tough. It stands years of heavy foot traffic in busy shops, offices, hospitals, schools, restaurants, even in buses, with scarcely perceptible wear. In domestic use, it may well last a lifetime.

So cork is truly *economical*—far more so, when you count the years, than 'cheaper' floors that can never give the same satisfaction. Even first cost is competitive, normally lower than for wood blocks. And with this warm, quiet surface there is far less need for carpeting.

PURE CORK IN TILE FORM

Armstrong's Cork Tiles, famous since 1896, are made of nothing but pure, resilient Spanish cork, bonded under heat by its own resins—no dust or gritty granules, no adulterant. A special feature of Armstrong's Cork Tiles is that they are supplied not only straight-edged but also tongued and grooved, which obviates sanding after laying and prevents lipping and curling. You are invited to write for further particulars.

ARMSTRONG'S CORK TILE FLOORING

ARMSTRONG CORK COMPANY LTD., FLOORING DEPARTMENT
 IMPERIAL BUILDINGS, 56 KINGSWAY, LONDON W.C.2
 Telephone: Chancery 6281

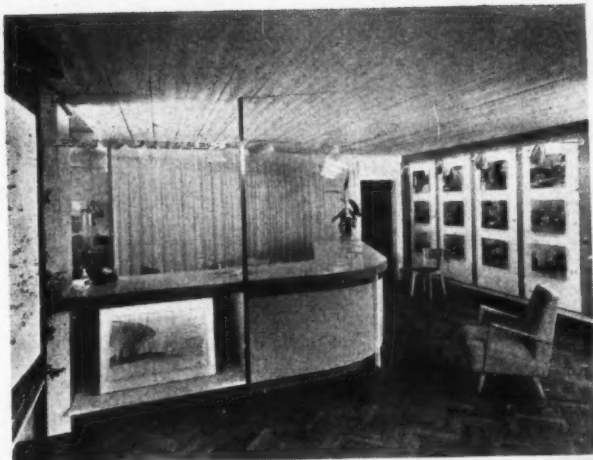
SCOTTISH BRANCH:
 5 OSWALD STREET, GLASGOW C.1
 Telephone: Central 5703



THE ARCHITECTS' JOURNAL for July 20, 1950
**INFORMATION CENTRE,
 FESTIVAL OF BRITAIN 1951**

The photographs show two chairs from our contemporary range. The Model O.C. open arm easy chair is upholstered in a grey and yellow fabric, woodwork is in natural beech.

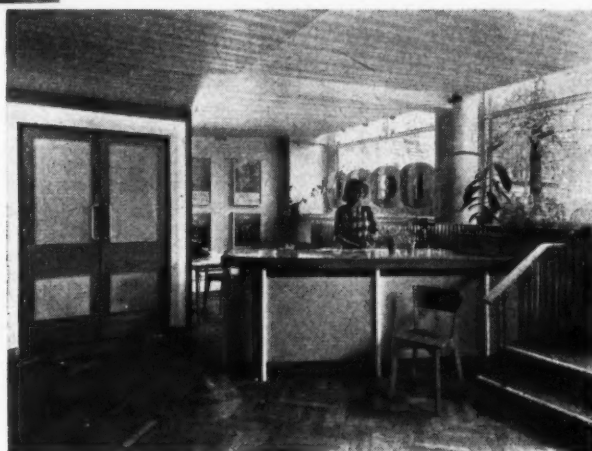
The small "Stackeasy" chair is upholstered in washable "Tygan," woodwork natural beech and mahogany. "Stackeasy" chairs are ideal for auditorium seating and can be stacked in a small space.



LIBRARIES, LABORATORIES
 and CHURCH WOODWORK.

GEO. M.
HAMMER
 & CO. LTD.

Craftsmen in Woodwork since 1858.
 CROWN WORKS, HERMITAGE ROAD,
 LONDON, N.4.
 Stamford Hill 6591/2

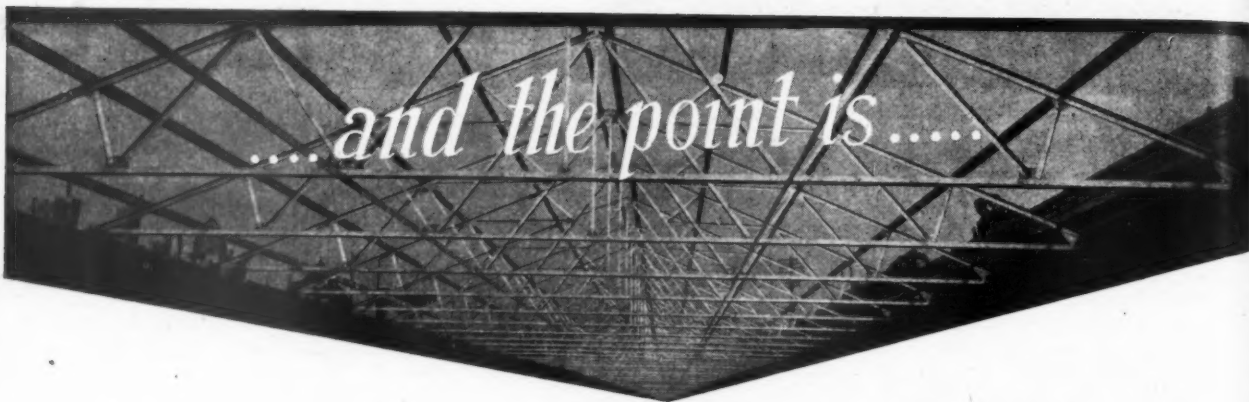


Invitation

... from Welwyn Garden City. Rarely will you find a more comprehensive range of building construction by one contractor in so small a compass. The majority of the factories, shops, municipal buildings, homes and public services in Welwyn Garden City were built by us, and we are still building them. Proof enough of the quality and versatility of an organisation which, with the town, has been building and developing over the last thirty years.

Please accept this invitation—telephone Welwyn Garden 520—and arrange a convenient time for us to show you the town.

WELWYN BUILDERS LTD
 WELWYN GARDEN CITY · HERTS



if you use **LIGHT ALLOY STRUCTURES**

- MATERIAL LICENCES ARE NOT REQUIRED.
- YOU ARE ASSURED OF QUICK DELIVERY.
- THEY ARE ECONOMICAL DUE TO PAINTING BEING UNNECESSARY UNDER ALL NORMAL CONDITIONS.

Contractors to the Ministry of Works for Light Alloy Structures.

BLACKBURN *and* GENERAL AIRCRAFT LIMITED
BROUGH E. YORKS

5088 2

W o o d **SOLIGNUM** Preservative

Dry-Rot or Decay

Wherever Timber is Used Solignum Protects it !

The preservation of timber has always been important, but its present shortage renders the need for Solignum even more imperative. For over 40 years Solignum has been used for the protection of woodwork against dry-rot and decay. It destroys the dry-rot fungus wherever brought into contact

with it and gives complete immunity against attack. Solignum is also used all over the world for the protection of timber against attack by white ant, wood borers and other destructive insects. But it must be Solignum—applied by brush coating, spray guns or by dipping.

SOLE MAKERS: Solignum Ltd., Donington House, Norfolk Street, Strand, W.C.2



HAND-MADE SANDFACED PANTILES

TRITON Pantiles are once more readily obtainable, embodying those qualities of durability, richness of colour and graceful weathering which are peculiar to hand-made burnt clay tiles. Colours at present available: Red, Blue, Grey, Light Brindled, Medium Brindled, Light Multi-coloured, Green and Variegated Lichen. Full particulars of dimensions, covering capacity, weight and recommended fixing practice are given in Information Sheet 17.B2. Particulars of the more recently introduced Romulus tile, a hand-made tile of single Roman type are given in Information Sheet 17.B1. Extra copies of either or both of these sheets can be supplied by the manufacturers.

Specimens of Wheatly Tiling may be seen at the Building Centre, London. Wheatly products include Single-lap Roofing Tiles, Ridge Tiles, (blue and red), Floor Quarries and Briquette Fireplaces.

WHEATLY AND COMPANY LIMITED

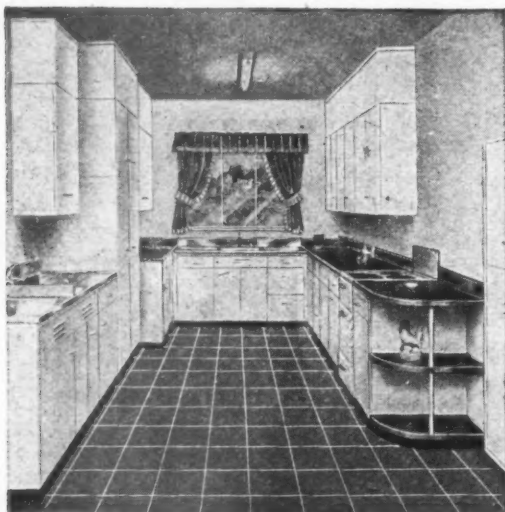
SPRINGFIELD TILERIES, TRENT VALE, STOKE-ON-TRENT.

TELE: NEWCASTLE (Staffs) 66251.

GRAMS: WHEATLY, TRENTVALE

WH.2

3 ins. MAKE A BIG DIFFERENCE



Ezee Kitchen sinks and counter units are 24 ins. deep from back to front (not 21 ins. or even 18 ins.), and so provide ample working and storage space. Ezee Kitchen units are not loose

pieces of furniture which allow dust to collect at their backs, but are secured to the wall and fixed together to form one flush-fitting unit extending for any length of wall space.

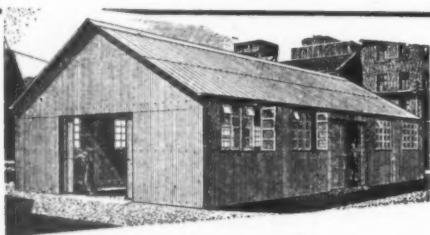
Visit our Showrooms or write for our latest Brochure T.I. and name of nearest distributors.

EZEE KITCHENS LIMITED

341a SAUCHIEHALL STREET, GLASGOW Tel: DOUGLAS 4956

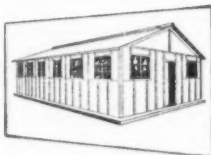
London Showroom: 8 Lansdowne Row (off Berkeley St.), W.1
Tel: GROsvenor 5068

THORNS INDUSTRIAL BUILDINGS



SAVE TIME AND MONEY

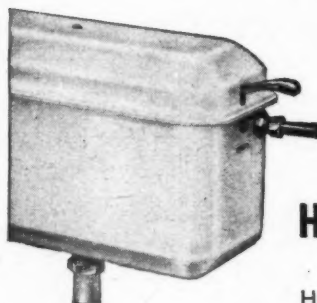
Have you considered the many ways in which Thorns Buildings can effect economies in building costs and help production to get into full swing at the earliest possible moment? If not, write for our list of buildings, suitable for Factories, Stores, Garages, Offices, Canteens, etc.



Enquiries invited for home or export.
Please write, stating your requirements.

J. THORN & SONS LTD

Box No. 185, BRAMPTON ROAD, BEXLEYHEATH, KENT
Telephone: BEXLEYHEATH 305



HLMPSVX ★

Have you got the fully illustrated catalogue sheets on file, showing the new Fordham range? Nine cisterns to meet every need with descriptive key-letters to make specification simple. Full details and 'Architect's Journal' Information Sheets will gladly be supplied on request.



LS



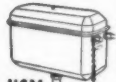
LSX



HS



HV



HSM



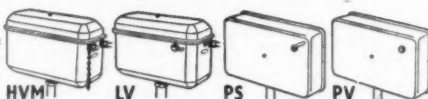
H=High-level
M=Mosquito-proof
S=Syphonic-type
X=Extra-special

L=Low-level
P=Panel-type
V=Valve-type

Fordham

FORDHAM PRESSINGS LTD.
DUDLEY ROAD, WOLVERHAMPTON

Telephone
23861



There's an unwelcome visitor in church this morning. The Ghost of Decay has settled in the beams and woodwork. Whether the decay is caused by dry rot or the dreaded death watch beetle, it's a case for Cuprinology—quickly. For timely treatment with Cuprinol can arrest the spread of the trouble and probably save the crippling cost of widespread replacement of timber. So let's hope the reverend gentleman calls in a builder who knows Cuprinology. Details from U.K. Distributors: Jenson & Nicholson Ltd., 36, St. James's St., London, S.W.1.

a case for ★ **Cuprinology** . . .

★ This means the technology of wood and fabric preservation with Cuprinol Fungicides and Insecticides. (Manufactured by Cuprinol Ltd., London)

For easier, quicker and more economical plastering of concrete surfaces use

"Crestestone"

CONCRETE BONDING GYPSUM PLASTER

Achieves perfect keying without the cost of hacking and provides the first plaster coat

Full information and complete specifications available on request.

GYPROC PRODUCTS LIMITED

Head Office: Westfield, Upper Singlewell Road, Gravesend, Kent.
Telephone: Gravesend 4251-4. Telegrams: Gyproc, Gravesend.
Glasgow Office: Gyproc Wharf, Shieldhall, Glasgow, S.W.1.
Telephone: Govan 2141-3. Telegrams: Gyproc, Glasgow.
London Office: Morris House, 1-5 Jermyn Street, London, S.W.1.
Telephone: Whitehall 9821-5.

Makers of "GYPROC" Wallboard and Lath,
"GYPKLITH" Light-weight Building Slabs,
"GYPSTELE" Partitions and Ceilings,
"PLAXSTELE" and "ACOUSTELE" Ceilings,
"GYPROC" 2-inch Solid Partitions.

G.C.4.

STEELWORK

BY
R. W.
SHARMAN
LTD.

HEAD OFFICE: The Parade,
Sunbury, Middx.

Telephone: Sunbury 3210 and 3564,
Telegraphic address: Sharman, Sunbury

(all communications to be addressed to above)

WORKS: Swan Works,
Hanworth, Middx.
(and at Hayes, Middx.)

Telephone: Feltham 3007 and 3990

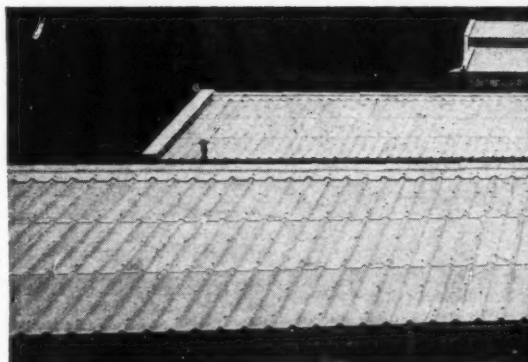
Contractors to Admiralty, Air Ministry, Crown Agent for the Colonies, L.C.C., Ministry of Supply, Ministry of Works, Ordnance Survey, War Office, etc.

ONE COAT PAINTING of ASBESTOS CEMENT ROOFS

with

TRETOLIN

Paint



In the following colours:

Russet Brown
Beech Brown
Terra Cotta
Dark Grey
Dark Green
Light Brunswick Green

USING THE ABOVE COLOURS,
A SINGLE COAT OF TRETOLIN
CAN BE APPLIED DIRECT
FOR COLOURING GREY
ASBESTOS CEMENT SHEETING

Other Shades are available

DIRECT APPLICATION

No Neutralisers or Sealers Necessary

TRETOL Ltd. 12/14 North End Rd. London N.W.11

Telephone: SPEedwell 4621 (5 lines)

FITZPATRICK'S

Specialists in the construction of

ROADS, FOOTPATHS
DRAINAGE
FACTORY FLOORING
FOUNDATIONS, etc.

FITZPATRICK & SON (Contractors) LTD.

455, OLD FORD ROAD, LONDON, E.3.

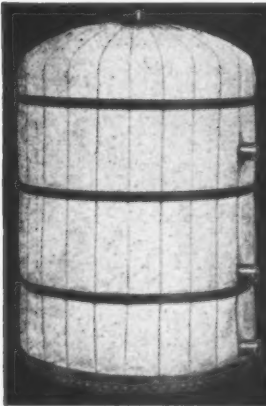
Contractors to the Government, County and
Municipal Authorities.

WOODWORM AND DRY ROT



can be cured by.
RENTOKIL TIMBER DRY ROT
FLUID and FLUID

Both fluids conform to the highest specifications. Colourless. Deep penetration by brush treatment. Permanent. Officially approved and recommended. Rentokil Ltd., Dept. A.J., Fetcham, Leatherhead, Surrey. Telephone: Leatherhead 4021/2.



EETO HEAT CONSERVING CYLINDER JACKETS

TO FIT ALL STANDARD TYPES OF DOMESTIC CYLINDERS & SQUARE OR
RECTANGULAR TANKS

Eeto jackets maintain and increase hot water supply with reduced fuel consumption. Specified in large numbers by architects and heating engineers for housing schemes, and extensively for use with immersion heaters in conversion schemes. Literature with details of official tests available on request.

- Finest materials only
- Permanent heat insulation
- Low initial cost

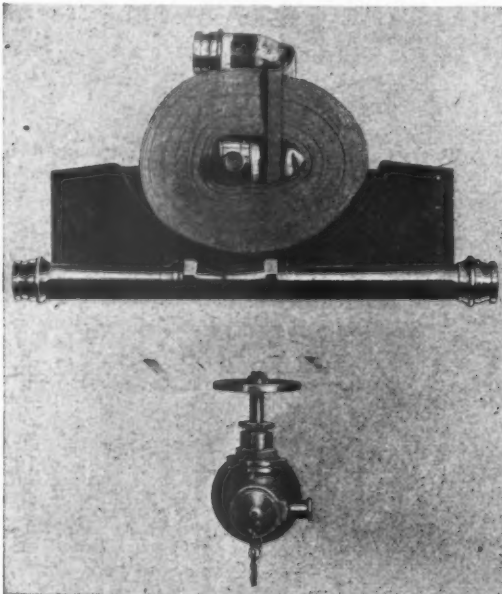
Patent No. 328472.

Sole Makers

EETO INSULATIONS, RIVER ST., BOLTON

Fire Fighting Engineers & Equipment

Fire Armour hose and branchpipe cradle
Made from 18 S.W.G. steel and welded to form a most convenient hose rack without damage to either wall or hose. Made to carry two branch pipes and one roll of hose, painted in red and easily fixed with two screws.



Fire Armour

LIMITED

Showrooms 9 GEORGE STREET, BAKER STREET,
LONDON W.1. Telephone No. 1 WEL 3313
Sole distributors for Coventry Climax Fire Engines

Important

Once again

PARQUET FLOORING

of traditional quality
and craftsmanship is
freely at your disposal

HOLLIS BROS LTD.

FLOORING CONTRACTORS

HULL - LONDON

LEICESTER - BIRMINGHAM

DHB

lvi



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.

SIZES OF STANDARD LANTERN LIGHTS & SKYLIGHTS

4x4ft.	6x4ft.	8x4ft.	10x4ft.	12x4ft.	6x6ft.	8x6ft.	10x6ft.	12x6ft.
8x8ft.	10x8ft.	12x8ft.	10x10ft.	12x10ft.	12x12ft.			

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

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



The Roof Tile with outstanding advantages

In the C. S. *Handmade* No. 7 Double Roman Tile you have what must be considered the perfect roofing material. Made by hand from the finest tile clay, it will not flake or crack with exposure. Which means it is for practical purposes imperishable. A second advantage is the speed with which it can be fixed. If fixed on the "Secure System" it can be relied upon not to blow off in violent gales. From the foregoing you will see why the C.S. No. 7 Double Roman Tile is in demand for Housing Estate work.

Size $16\frac{1}{2}" \times 13\frac{1}{2}"$
 Ask for particulars of this superb tile which can be supplied with plain or colour glaze finishes.



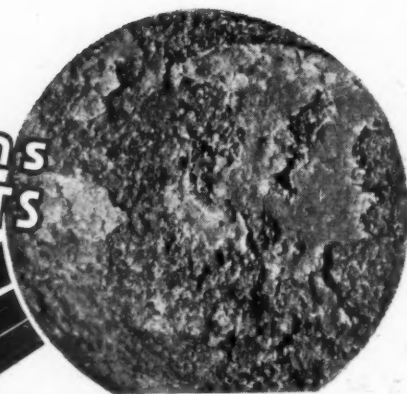
COLTHURST-SYMONS & Co. Ltd.

Patent Tile Works • Bridgwater • Somerset

London Office: Mr. Dawson Goodey, 6 Queen Anne's Gate, S.W.1. Phone: WHItchall 7007.



**RUST means
REPLACEMENTS**



THE photograph above shows the heavily pitted surface of a steel plate after 18 months exposure to normal industrial atmospheric conditions. Many thousands of pounds are spent yearly on replacements due to corrosion.

A timely coating of one or other of Wailes Dove's protective Solutions or Enamels is the best way to reduce maintenance costs.

"Bitumastic" No. 50, Super Service Black, "Bituros" Solution & Enamel, "Bitublack" Smoke Stack Solution, "Bituplastic" Waterproofing Compounds etc.

WAILES DOVE

"BITUMASTIC"

**ANTI-CORROSIVE
SOLUTIONS & ENAMELS**

Send to-day for full particulars.

WAILES DOVE BITUMASTIC LIMITED • HEBBURN • Co. DURHAM.

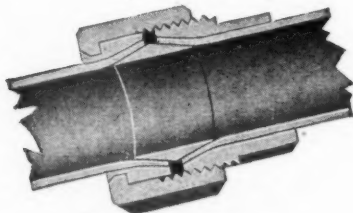
Branches—LONDON GLASGOW CARDIFF LIVERPOOL BIRMINGHAM LEEDS ETC. • AGENTS THROUGHOUT THE WORLD



Good Connections

They're dashed important. Take the Securexes—very well connected but quite unaffected in manner—Side-strains and heat-changes and all that—You know! Always around the best joints—and the toughest—great time savers—Splendid Fellers—a bit tight perhaps, still, that's their profession—Definitely Bulldog Breed.

Securex is the best connection for water, gas, steam and hydraulic systems. They save a great deal of time, money and trouble. May we send full details?

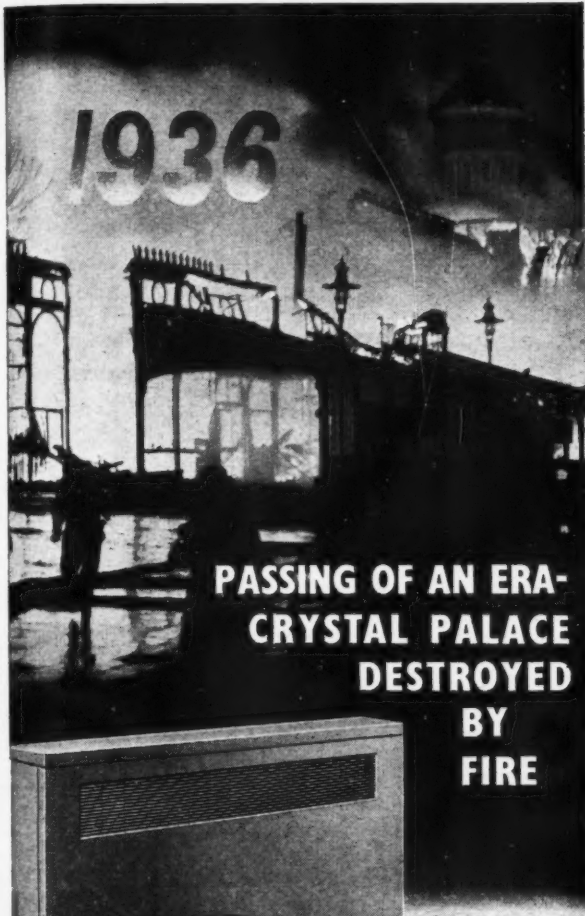


SECUREX
SOLDERLESS COMPRESSION
JOINTS

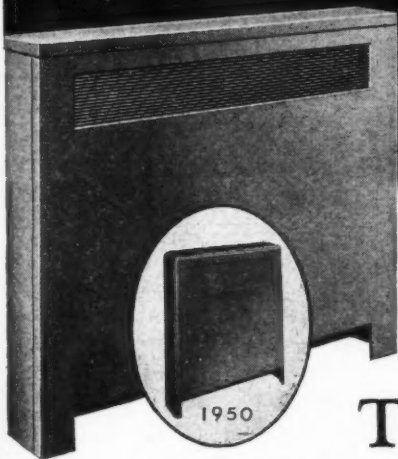
SOLE MANUFACTURERS

JAMES H. LAMONT & CO. LTD. Engineers · Brassfounders
GYLEMUIR WORKS, CORSTORPHINE, EDINBURGH 12, SCOTLAND
Telephone: Corstorphine 66641-2 Telegrams: "Solderless, Edinburgh"
LONDON OFFICE: NORFOLK HOUSE, LAURENCE POUNTNEY HILL, E.C.4.
Telephone: Mansion House 5700 Telegrams: "Yutaka Cannon, London"

TRANE OF EVENTS



**PASSING OF AN ERA-
CRYSTAL PALACE
DESTROYED
BY
FIRE**



TO watchers on the heights around London it was more than a lurid glow in the sky—it was the passing of an era. The building designed by Paxton for the Great Exhibition in 1851 represented one of Britain's finest periods of history.

And in its own sphere, the Vectair of 1936 represented an advance in public and domestic heating efficiency only surpassed by later models.



**BRITISH TRANE
COMPANY LTD**

VECTAIR HOUSE · 52 CLERKENWELL CLOSE · LONDON, E.C.1
Telephone: Clerkenwell 6864, 3826 and 2267 Telegrams: Enartrane, Smith, London



WF4

**Yes, that's
a Peggler's!**

AS GOOD AS A TAP CAN BE

Peggler's
Limited

BELMONT WORKS · DONCASTER

London Office:

PRESTEX HOUSE · MARSHALSEA RD · S.E.1

Prestex
Trade Mark



**DOOR & WINDOW
FITTINGS**



A SELECTION FROM OUR
LARGE RANGE

YOUR ENQUIRIES INVITED FOR ALL
TYPES OF ARCHITECTURAL METAL-
WORK IN BRASS, BRONZE & IRON
Send details of your requirements for special
quotations

**ARCHITECTS' OWN DESIGNS A
SPECIALITY**

**PARKER, WINDER & ACHURCH
LTD**

80, BROAD STREET, BIRMINGHAM, 1
MIDLAND 5001 'Grams: "Ironclad"

MANCHESTER:
16, JOHN DALTON STREET, M/N 2.



PB 3878
Spring
Loaded



PB 3681
"Dished"
Top



PB 3689

SINCE 1850 THE ARCHITECTS' BENEVOLENT SOCIETY

has assisted architects and their dependants
in time of need.

THE PENSION & FAMILY PROVISION SCHEME FOR ARCHITECTS

enables YOU to make provision now for
yourself in retirement and for dependants
in the event of your death.

Details will be sent without obligation
on request and giving your date of birth.

From :—

**The Secretary, A.B.S. Insurance Dept.,
66, Portland Place, London, W.1.
(Tel. : WELbeck 5721.)**

THE TWO "MUSTS" IN PROPERTY MAINTENANCE, ROOFS AND WEATHERPROOFING

RITO BITUMINOUS MASTIC

Sealing . . .

Overlaps and enlarged bolt holes.

Open joints and cracks in gutters
and valleys.

Joints of Roofing Felt on flat roofs.

Major cracks in concrete and asphalt
flats also flashings and fillets at parapet
junctions.

Perforated and deteriorated surfaces of
corrugated iron and roofing felt.

Joints of pre-cast Wall and Roof Units in
concrete; wood cement; aluminium and
hardboard.

Junctions between Door and Window frames
and rebates.

TECHNICAL

The services of our Building Construction and Maintenance
Department in the preparation of specifications, quantities
and estimates also those of technical representatives in a
consultative capacity on actual sites are available without
obligation.

RITOLASTIC BITUMINOUS LIQUID

Priming and waterproofing roof units.

Protecting and naturing roofing felt covering
to flat roofs.

Overall waterproofing of concrete flats and
revitalisation of asphalt.

Preserving, protecting and waterproofing:—
Steel; Wrought Iron; Gutters; Bridges;
Pithead gear, etc.

Fixing and overall weatherproofing the
roofing felt.

Sandwich Damp-proof membranes
to concrete bases.

Overall protection and pres-
ervation of corrugated iron
and asbestos.

ANDREW MAXWELL

BUILDING CONSTRUCTION AND MAINTENANCE DEPARTMENT,
MAXWELL HOUSE, 6, ST. PAUL'S SQUARE, LIVERPOOL, 2.
Phone: CENTRAL 1782/4/5 Grams: ALKALINE



'BULLDOG' TIMBER CONNECTORS

'Bulldog' Connectors have solved the basic problem of Timber Construction. They enable simple joints to be made, in which the load is spread over almost the entire cross section of the wood.

In the past much larger sections of timber were needed in order to make the joints strong enough to carry the load.

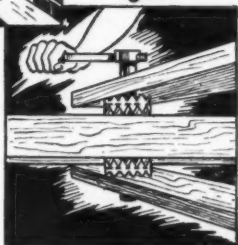
Now, Timber Construction can be placed on a sound engineering basis, the consequent increase in efficiency bringing outstanding advantages.



and Save

**TIMBER
TIME
and
MONEY**

1 While the members are held temporarily in place by nails, a bolt hole is bored through the assembly.



2 The members are lifted apart and the toothed connectors are placed between the adjacent faces of the members to be connected.



3 The members are then drawn together by means of the bolt until the projecting teeth of the metal plates are completely embedded in each contacting timber surface.

The 'Bulldog' Timber Connector consists of a steel plate with the edges turned off at right angles to form sharp triangular teeth projecting evenly from both sides of the plate.

'Bulldog' Timber Connectors are also made with teeth on one side only for timber to steel joints, or for portable and demountable timber buildings.

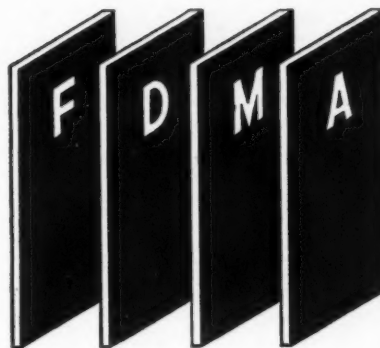
TECHNICAL ADVICE AND FULL DETAILS AVAILABLE ON REQUEST

"BULLDOG"

Timber Connectors

W. F. HOLLWAY & BROTHER, LIMITED,
42, GRAFTON STREET, LIVERPOOL 8.

THIS
Registered
TRADE MARK



is your
GUARANTEE

It is the Trade Mark of the
Flush Door Manufacturers Association
Ltd., it may only be used by members who
are registered users of the Trade Mark, and it
is stamped on all doors made to the Association's
Standard Specification. It is your guarantee that
the materials and construction of the core
of the door are up to a minimum standard
as set out in the official F.D.M.A.
Standard Flush Door
Specification.

The
**FLUSH DOOR
MANUFACTURERS'
ASSOCIATION LTD.**

Full details of the Association's Doors are obtainable
from any of the following Members, or the Secretary
at Trowell.

Durham Timber Co. Ltd. Middx.
Edmonton Panel Co. Ltd.,
Edmonton, N.18
Wm. Evans & Co. (Distributors)
Ltd. Liverpool 3
Exeas Products Ltd., Enfield,
Middx.
Farquharson (Timber) Ltd.,
London, E.C.2.

Flush Woodwork Ltd. East Ham,
E.6.
Leaderflush Ltd. Nottingham
Manor Joinery Works Ltd.
Barking, Essex
Merchant Trading Co. Ltd.
London, W.C.2.

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.

Public and Official Announcement

25s. 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. ADDRESSES: EMPLOYMENT REGISTERS, WHEN PARK, WHITELAPPE, Tel.: Uplands 0935. 991

NORTH THAMES GAS BOARD.

Applications are invited for the following appointment in the Architects' Section of the Chief Engineer's Department of Westminster: SENIOR ARCHITECTURAL ASSISTANT, minimum starting salary £550 per annum.

Applicants, who must be Registered Architects and should be studying for or have passed the Final Examination of the R.I.B.A., should be capable of preparing working and detailed drawings and specifications, and supervising and controlling the work on contracts. Experience in design and planning of industrial buildings would be an advantage.

The appointment is of a permanent nature, and pension arrangements will be discussed with short list candidates.

Applications stating age, qualifications, and particulars of previous appointments held, must be submitted to the Staff Controller, North Thames Gas Board, 30, Kensington Church Street, London, W.8, quoting reference 9787. 4341

LONDON COUNTY COUNCIL.

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

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

Forms of application may be obtained from the Director of Housing, The County Hall, Westminster Bridge, S.E.1 (stamped addressed envelope required and quote reference A.A.1). Canvassing disqualifies. (816) 4658

BOROUGH OF HORNSEY. ENGINEER AND SURVEYOR'S DEPARTMENT.

APPOINTMENT OF ARCHITECTURAL ASSISTANT.

Applications are invited for the following temporary appointment: ARCHITECTURAL ASSISTANT, Grade VI (A.P.T. Division of the National Scale), at a salary of £595-£660 per annum, plus London weighting allowance of £30 per annum. Commencing salary according to experience.

Candidates should preferably be Associate Members of the Royal Institute of British Architects.

Applications, stating age, present and previous appointments, technical training, qualifications, experience, etc. together with the names of three referees, must be delivered to Mr. J. H. Melville Richards, A.M.I.C.E., M.I.Mun.E., Borough Engineer and Surveyor, Hornsey Town Hall, N.8, not later than the 24th July, 1950.

Candidates must disclose in writing whether, to their knowledge, they are related to any member or officer of the Council.

Canvassing, either directly or indirectly, will disqualify.

H. BEDALE,

Town Clerk.

Town Hall, Hornsey, N.8.

3rd July, 1950. 4768

NATIONAL COAL BOARD—EAST MIDLANDS DIVISION.

STAFF VACANCY—ARCHITECT'S BRANCH. Applications are invited for the appointment of CHIEF CLERK in the Divisional Architect's Department.

This appointment will be graded as Assistant Staff Officer, on a salary scale of £410, rising by annual increments, subject to satisfactory service, to £590 per annum. Commencing salary according to experience and qualifications.

Applicants should preferably have had experience of the work of an Architect's or Surveyor's Office, and be conversant with applications to Local Authorities, Committee Work, Contracts, Accounts, and general office routine.

Applications, stating age, experience, etc., should be forwarded within 14 days of the publication of this advertisement, to

The Secretary,
National Coal Board,
East Midlands Division,
Sherwood Lodge,
Arnold, near Nottingham.

Envelopes to be marked "Chief Clerk." 4800

DEVON COUNTY COUNCIL.

COUNTY ARCHITECT'S DEPARTMENT.

Applications are invited for the undermentioned appointments on the permanent staff. Conditions of service and salaries are in accordance with the National Joint Council Scheme for Local Authorities:—

ASSISTANT ARCHITECTS. Grade A.P.T., VII. (£685-£760 per annum).

ASSISTANT ARCHITECTS. Grade A.P.T., VII. (£635-£710 per annum).

ASSISTANT ARCHITECT. Grade A.P.T., VI. (£595-£660 per annum).

ASSISTANT ARCHITECT. Grade A.P.T., V. (£520-£570 per annum).

Subject to approval by the County Council at their next meeting, a weekly allowance of 25s. and bi-monthly return fare home will be paid for six months to newly appointed married officers unable to find housing accommodation, subject to full details as to their position in this respect being supplied to the Authority and to monthly review of same thereafter.

Application forms, with full particulars of qualifications and experience required for the various posts, are obtainable from the County Architect, 97, Heavitree Road, Exeter, and must be returned to him by Saturday, the 29th July, 1950.

Canvassing, directly or indirectly, will disqualify.

H. A. DAVIS,

Clerk of the County Council.

The Castle, Exeter.

4th July, 1950.

4769

ROBERT GORDON'S TECHNICAL COLLEGE,

ABERDEEN.

GRAY'S SCHOOL OF ART.

SCHOOL OF ARCHITECTURE AND DEPARTMENT OF BUILDING.

Applications are invited for the following full-time posts:—

(a) SENIOR ASSISTANT (Senior Lecturer and Studio Instructor). Salary £700 x £25-£800 (Men).

(b) ASSISTANT, Grade I (Lecturer and Studio Instructor in Architectural Design and Construction Subjects). Salary £450 x £20-£700 (Men). Commencing salary in each case according to qualifications and experience. War service will be considered in placing on scale.

The School is recognised for purposes of exemption from the R.I.B.A. Intermediate and Final Examinations.

Candidates must be Associates of the Royal Institute of British Architects, and should possess the Degree or Diploma of a Recognised School of Architecture.

Members of the staff of the School are normally afforded reasonable opportunities for practice and research.

Applications, accompanied by three recent testimonials and the names of two referees, should reach the undersigned (from whom further particulars may be obtained) not later than Tuesday, 25th July, 1950.

A. C. WEST,

Director.

4767

STAFFORDSHIRE COUNTY COUNCIL.

COUNTY EDUCATION ARCHITECT'S DEPARTMENT.

Applications are invited for the appointments of ASSISTANT ARCHITECTS. Salary will be in accordance with A.P.T., Grades IV to VI, of the National Scales, subject to qualifications and experience, and otherwise as set out below:—

Assistants who have passed the R.I.B.A. Intermediate Examination, or its equivalent at a recognised School of Architecture, and have worked in an architectural office for a period of two years. A.P.T., Grade IV (£480-£525 per annum).

Assistants who have passed the Final Examination of the R.I.B.A., or its equivalent at a recognised School of Architecture, but who have had no experience in an architectural office. A.P.T., Grade V (£520-£570 per annum).

Assistants who are Associates or Fellows of the R.I.B.A., and who have had experience in an architectural office in the preparation of drawings and schemes for the construction of all types of school buildings. A.P.T., Grade VI (£595-£660 per annum).

The appointments will be subject to the provisions of the Local Government and Other Officers' Superannuation Act, 1937, and successful candidates will be required to undergo a medical examination before taking up their duties.

A lodging allowance of 25s. per week, and return railway fare home every two months, will be paid for a maximum period of six months where the successful candidates are married and have to continue to maintain their homes outside the geographical County while seeking housing accommodation.

Canvassing, either directly or indirectly, will operate as a disqualification, and candidates must disclose in their application whether to their knowledge they are related to any member or senior officer of this Council.

Applications, endorsed "Appointment of Assistant Architects," stating age, qualifications and previous experience, and accompanied by copies of two recent testimonials, should be addressed to the Director of Education (A), County Education Offices, Earl Street, Stafford, and should be received not later than first post on Monday, 31st July, 1950.

T. H. EVANS,

Clerk of the County Council.

4758

OFFICE OF THE RECEIVER FOR THE METROPOLITAN POLICE DISTRICT, NEW SCOTLAND YARD.

The Chief Architect and Surveyor invites applications from Architects and Surveyors for appointments to groups engaged in the preparation of plans for houses, flats, maisonettes, hostels, police stations, garages, and workshops, etc.

Vacancies are open in the following grades:— ARCHITECTS. Men, £750-£1,000; women, £650-£850.

ASSISTANT ARCHITECTS AND ASSISTANT SURVEYORS. Men, £475-£750; women, £475-£650.

LEADING ARCHITECTURAL ASSISTANTS. Men, £500-£625; women, £425-£500.

ARCHITECTURAL ASSISTANTS. Men, £240-£525; women, £240-£450.

DRAWING OFFICE ASSISTANTS. Men, £175-£250; women, £175-£300.

Entrant salary is dependent on age and experience.

The appointments are temporary, but the programme is expected to last for some years. Hours and conditions of service are similar to those in the Civil Service. An additional allowance is paid for hours worked in excess of the normal week.

Applicants for Architectural posts should be Corporate Members of the R.I.B.A. by examination. Those for Surveyor posts should be Corporate Members of the R.I.B.A. or R.I.C.S. (Building Section) by examination.

Applications, giving full details of age, nationality, qualifications and experience, etc., should be sent as soon as possible. Testimonials should not be sent with the applications, which should be addressed to Chief Architect and Surveyor, New Scotland Yard, London, S.W.1. Envelopes should be marked "Appointments." 4786

BOROUGH OF KETTERING.

APPOINTMENT OF ARCHITECTURAL ASSISTANT.

Applications are invited for the appointment of an Architectural Assistant, in the Borough Surveyor's Department of the Borough of Kettering, at a salary within Grade IV of the A.P.T. Division of the National Scale of Salaries, namely, £480 per annum, rising, subject to satisfactory service, by annual increments of £15 per annum to £525 per annum.

Applicants must have passed the Intermediate Examination of the Royal Institute of British Architects and have had a minimum of two years' experience in an Architectural office. A good knowledge of building quantities would be an advantage, and applicants should have had experience of local authority housing schemes.

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

Applications, stating age, qualifications, present and previous appointments and experience, together with the names of three referees, must be delivered to the undersigned not later than the 5th August, 1950.

D. DUNSFORD PRICE,

Town Clerk.

Town Clerk's Office, High Street, Kettering.

8th July, 1950.

4801

KENT COUNTY COUNCIL.

Applications are invited from Fellows or Associates of the Royal Institute of British Architects for appointment in the Buildings Department as a PRINCIPAL ASSISTANT ARCHITECT, at a salary of not exceeding £900 a year, to be fixed according to the qualifications and experience of the successful candidate.

The post is superannuable, and the selected candidate will be required to pass a medical examination.

Candidates must have had wide experience in the planning, designing and construction of public buildings, be used to staff control, and have had considerable administrative experience.

Applications, on forms obtainable from the County Architect, Springfield, Maidstone, must be delivered to him, duly completed, by not later than 12th August, 1950.

W. L. PLATTS,

Clerk of the County Council.

County Hall, Maidstone.

12th July, 1950.

4833

HARROW URBAN DISTRICT COUNCIL.

ENGINEER AND SURVEYOR'S DEPARTMENT.

APPOINTMENT OF CHIEF ARCHITECTURAL ASSISTANT (NEW WORKS).

Applications are invited for the above appointment in the Department of the Council's Engineer and Surveyor, at a salary in accordance with Grade A.P.T. VI/VIII. Salary scale: £595-£760, plus London "weighting" allowance.

Applicants should be Associates of the Royal Institute of British Architects, and have had wide experience in the design of Municipal Buildings, the organisation of works, and the supervision of staff.

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

Forms of application may be obtained from the undersigned, to whom they should be returned not later than Friday, 4th August, 1950.

H. WELLS,

Clerk of the Council.

Council Offices, Harrow Weald Lodge,

Harrow.

4848

CUMBERLAND COUNTY COUNCIL.

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

- (a) ASSISTANT ARCHITECT. A.P.T., Grade V (£520-£570).
 (b) ARCHITECTURAL ASSISTANT. A.P.T., Grade IV (£480-£520).
 (c) JUNIOR ARCHITECTURAL ASSISTANT. A.P.T., Grade III (£450-£495).
 Forms of Application and further particulars and conditions of appointment may be obtained from John H. Haughan, F.R.I.B.A., County Architect, 15, Portland Square, Carlisle. Completed application forms must be received by him not later than Thursday, 10th August, 1950.

G. N. C. SWIFT,

Clerk of the County Council.

July, 1950.

4787

DEPARTMENT OF SCIENTIFIC AND INDUSTRIAL RESEARCH.

BUILDING RESEARCH STATION.

Applications are invited for three temporary posts of ASSISTANT ARCHITECT at the Building Research Station, Garston, near Watford, Herts., of the Department of Scientific and Industrial Research. Salary will be on the range £448-£720 p.a. for men, somewhat lower for women. Candidates should have good architectural qualifications, and preferably some training in elementary science, and should be at least 25 years of age. The range of work for which architects are required at the Station covers the following aspects:—

- (a) Work in close association with physicists on the study of the functional requirements of building, such as lighting, sound transmission and acoustics, heating and ventilation.
 (b) General liaison work with the building industry, inspection of building practice and examination of difficulties and failures. This group also would assist in dealing with the considerable volume of technical enquiries received from the building industry.
 (c) Work in relation to experimental building and research in architectural design in the light of the results of work in the laboratory. Forms of application are obtainable from "K" Section, Technical and Scientific Register, York House, Kingsway, London, W.C.2.
 The Reference Number J.9/50 should be quoted.

4832

NOTTINGHAMSHIRE COUNTY COUNCIL. COUNTY PLANNING DEPARTMENT.

Applications are invited for the appointment of a PLANNING ASSISTANT, in the Development Control Section, at a salary of £520 to £570 p.a. Applicants should preferably have had experience in Building and Land Development and the general administrative work of a Planning Office, but Local Government experience is not essential. It will be an advantage if applicants hold the qualification of Corporate Member of the Town Planning Institute, but consideration will be given to applicants who possess other suitable qualifications.

Further particulars are obtainable from the County Director of Planning, Shire Hall, Nottingham, by whom completed applications must be received not later than 5th August, 1950. Canvassing will disqualify.

K. TWEEDALE MEABY,

Clerk of the County Council.

4831

LEEDS REGIONAL HOSPITAL BOARD.

Applications are invited for the post of SENIOR ASSISTANT ARCHITECT on the Headquarters Staff of the Board. Salary in accordance with Grades A.P.T., VII-VIII, £635-£760 per annum. Candidates, who must be registered Architects with recognised architectural qualifications, must have had considerable experience in hospital design and construction.

The appointment will be subject to the National Health Service (Superannuation) Regulations, 1950, to such Terms and Conditions of Service as may be laid down from time to time, and the successful candidate (if not already in the National Health Service) will be required to pass a medical examination. The appointment will be terminable by one calendar month's notice on either side.

Applications, stating age, qualifications, experience and present salary, together with the names of two referees, should be forwarded to the Secretary, 29/31, Eastgate, Leeds, 2, not later than Saturday, 5th August, 1950.
 Canvassing in any form, either directly or indirectly, will disqualify.

4830

The Hotels Executive, British Transport, established under the Transport Act, 1947, has a vacancy for a QUANTITY SURVEYOR in the Department of the Chief Works Officer, with location in London. Preference will be given to applicants who are Members of the R.I.C.S. or have equivalent technical qualifications, and experience in Hotel and Catering establishments would be an advantage. The successful applicant will be required to prepare Bills of Quantities, estimates, and deal with all accounts both for new and maintenance works.

The commencing salary will be within the range £550-£650 per annum, according to experience and qualifications.

Applications, which should contain all relevant information, including date of birth, qualifications, previous experience, present position and salary, together with the names of two referees, should reach the Chief Personnel Officer, The Hotels Executive, 222, Marylebone Road, London, N.W.1, not later than 3rd August, 1950.

4819

MINISTRY OF WORKS.

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

Salary: Architectural Assistants, £300-£525 per annum; Leading Architectural Assistants, £500-£625 per annum. Starting pay will be assessed according to age, qualifications and experience. These rates are for London; a small deduction is made in the Provinces.

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

Apply in writing, stating age, nationality, full details of experience, and locality preferred, to Chief Architect, W.G.10/BC, Ministry of Works, Abell House, London, S.W.1, quoting reference W.G. 10/BC.

4826

NATIONAL COAL BOARD—WEST MIDLANDS DIVISION.

Applications are invited for the following appointments, with headquarters at Himley Hall, near Dudley, Worcs.

One ARCHITECT, Grade II. Salary scale £450 × £25-£700.

Candidates must be Associate Members of the R.I.B.A. or equivalent, and should have experience in the preparation of Survey Sketch Plans, Contract Drawings, Specifications, Site Supervision, etc.

ONE ARCHITECTURAL ASSISTANT, Grade I. Salary scale £410 × £20-£550.

Applicants should be able to prepare Sketch Plans and Working Drawings from rough sketches and have a good knowledge of construction and have passed the Intermediate Examination of the R.I.B.A.

Commencing salary according to experience and qualifications.

Posts are eligible for the Board's Superannuation Scheme.

Applications, giving age, qualifications, experience, etc., should be made as soon as possible to the

DIVISIONAL ESTABLISHMENT OFFICER, National Coal Board, West Midlands Division, Himley Hall, Dudley, Worcs.

Only those required for interview will be notified.

4825

BOROUGH OF MALDEN AND COOMBE. BOROUGH ENGINEER'S DEPARTMENT.

APPOINTMENT OF SENIOR ARCHITECTURAL ASSISTANT, GRADE A.P.T., Va.

Applications are invited for the above-mentioned permanent appointment, at a salary in accordance with Grade Va of the Administrative, Professional and Technical Division of the National Scales for Local Government Officers, namely, £550 × £20-£610 per annum, plus "London weighting." The appointment will be subject to the National Scheme of Conditions of Service, terminable by one month's notice on either side, and subject to the provisions of the Local Government Superannuation Act, 1937. The successful candidate will be required to pass a medical examination.

Preference will be given to registered architects, who have had experience in the architectural design and construction of general Municipal work, including flat development.

Applications, giving details of age, experience, qualifications, present and past appointments, and enclosing copies of two recent testimonials, should be addressed to reach the undersigned not later than 27th July, 1950.

Canvassing, directly or indirectly, will be deemed a disqualification, and candidates must disclose in their applications whether to their knowledge they are related to any member or senior official of the Council.

The Council will endeavour to provide the successful candidate with housing accommodation if deemed necessary.

HAROLD E. BARRETT,

Town Clerk.

Municipal Offices, New Malden, Surrey.

4823

COUNTY BOROUGH OF SOUTHAMPTON. BOROUGH ARCHITECT'S DEPARTMENT.

Applications are invited for the following positions:—

(a) SENIOR ASSISTANT ARCHITECTS. Grade VI (£595-£660).

(b) JUNIOR ARCHITECTURAL ASSISTANT (Temporary). General Division (£135-£385).

(c) QUANTITY SURVEYOR. Grade VI (£595-£660).

(d) ASSISTANT QUANTITY SURVEYOR. Grade V (£520-£570).

(e) ASSISTANT QUANTITY SURVEYOR. Grade IV (£430-£525).

(f) JUNIOR PLANNING ASSISTANT. General Division (£135-£385).

(g) TECHNICAL ASSISTANT (Structural). Grade V (£520-£570).

Applicants for appointment (g) should be fully qualified Structural Engineers, experienced in design and checking calculations.

Applications, on forms obtainable from L. Berger, Dip.Arch., A.R.I.B.A., Borough Architect, Civic Centre, Southampton, must be returned not later than Tuesday, 8th August, 1950.

R. RONALD H. MEGGESON,

Town Clerk.

Civic Centre, Southampton.

4840

Lxiii

HUTTON WITH ROBY URBAN DISTRICT COUNCIL.

GENERAL ARCHITECTURAL ASSISTANT.

Applications are invited for the permanent appointment of GENERAL ARCHITECTURAL ASSISTANT. The salary will be in accordance with A.P.T., Grade II, £420-£465, or A.P.T., Grade III, £450-£495, according to qualifications and experience.

Candidates must comply with the scheme of conditions of service for Local Government officers, and must have passed the R.I.B.A. Intermediate Examination or its equivalent at one of the recognised schools of Architecture, and with less than one year's subsequent experience in an Architect's office, will be appointed on A.P.T., II.

Applicants, having had a minimum period of one year in an Architect's office with the above qualifications, or who have worked for a minimum period of three years in an Architect's office and have passed the Intermediate Examination or its equivalent, will be appointed on A.P.T., Grade III.

The appointment is on the Established Staff and is subject to the provisions of the Local Government Superannuation Act, 1937.

Applications, in envelopes endorsed "General Architectural Assistant," stating age, qualifications, and details of experience, and the names of two persons to whom reference may be made, should be received by the undersigned not later than 27th July, 1950. Canvassing, either directly or indirectly, will disqualify.

H. E. H. LAWTON,

Clerk of the Council.

Council Offices, Derby Road,

Huyton, near Liverpool.

12th July, 1950.

4822

BOROUGH OF GRANTHAM.

APPOINTMENT OF ARCHITECTURAL ASSISTANT.

Applications are invited for the appointment of an Architectural Assistant, at a salary in accordance with Grade A.P.T., V (£520-£570 p.a.), on the permanent staff of the Borough Engineer and Surveyor.

Preference will be given to applicants who are Registered Architects, or who have passed parts of the Associate Membership Examination of the R.I.B.A.

The person appointed will be required to devote his or her time to the Council's programme of house building, and previous experience of similar work will be an advantage.

A house will be made available, if necessary, and the appointment is subject to the National Scheme of Conditions of Service, the Local Government Superannuation Act, 1937, and the successful passing of a medical examination.

Applications, stating age, qualifications and experience, together with the names of two persons to whom reference may be made, should reach Mr. T. J. Livesey, M.C., A.M.I.C.E., A.M.I.Struct.E., A.M.I.Mun.E., Guildhall, Grantham, not later than noon on Monday, 31st July.

JOHN F. GUILLE,

Town Clerk.

Guildhall, Grantham.

8th July, 1950.

4821

COUNTY BOROUGH OF EAST HAM.

BOROUGH ENGINEER'S DEPARTMENT.

Applications are invited for the under-mentioned appointments:—

SENIOR ARCHITECTURAL ASSISTANT (Grade A.P.T., VI). Salary £595 to £660 per annum.

ENGINEERING ASSISTANT (Grade A.P.T., V). Salary £520 to £570 per annum.

ARCHITECTURAL ASSISTANT (Grade A.P.T., IV). Salary £480 to £525 per annum.

ESTIMATOR (Building Works) (Grade A.P.T., V). Salary £520 to £570 per annum (temporary appointment).

QUANTITY SURVEYOR (Grade A.P.T., IV). Salary £480 to £525 per annum.

The appropriate London weighting is paid in addition to the above salaries, and salaries in excess of the minima of the grades may be paid according to the qualifications and experience of successful candidates.

The Council will be prepared to consider applications for a subsistence allowance in appropriate cases from persons appointed should they be unable to obtain suitable housing accommodation.

Full particulars of the duties, terms and conditions of appointment and form of application (which must be returned by Monday, the 31st July, 1950) may be obtained from the undersigned.

Canvassing will disqualify.

H. A. EDWARDS,

Town Clerk.

Town Hall, East Ham, E.6.

4843

BOROUGH OF BARKING.

BOROUGH ENGINEER AND SURVEYOR'S DEPARTMENT.

Applications are invited for the position of TOWN PLANNING ASSISTANT, Grade V, £520-£570, plus London weighting.

Candidates must have had Town Planning experience and the possession of suitable qualifications will be an advantage.

Forms of application and conditions of appointment may be obtained from the Borough Engineer and Surveyor, Town Hall, Barking, Essex, and should be returned to the undersigned not later than 31st July, 1950.

E. R. FARR,

Town Clerk.

Town Hall, Barking.

4th July, 1950.

4808

**BOROUGH OF DEAL.
BOROUGH ENGINEER AND SURVEYOR'S
DEPARTMENT.**

Applications are invited for the appointment of JUNIOR ARCHITECTURAL ASSISTANT, at a salary in accordance with Grade A.P.T., II (£420-£465).

Candidates should have some experience of house design and estate development.

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

The Council will be prepared to assist the successful candidate to obtain housing accommodation, if necessary.

Applications, with copies of three recent testimonials, should be sent to the Borough Engineer, Municipal Offices, Deal, not later than Saturday, 29th July, 1950.

D. A. DANIELS,
Town Clerk.

Municipal Offices, Queen Street, Deal, Kent.
10th July, 1950. 4820

**GOVERNMENT OF NORTHERN IRELAND.
ARCHITECT.**

Applications are invited for the post of Architect (salary scale £950-£1,100) in the Ministry of Health and Local Government. Subject to a probationary period of two years, the post will be permanent and pensionable.

Candidates must be British subjects normally resident in the United Kingdom. They should be not less than 30 years of age, and must be Fellows or Associates of the Royal Institute of British Architects. They must have at least 10 years' practical experience, including up-to-date house design and layout, and be thoroughly conversant with present-day materials, construction and costing.

The successful candidate will be placed in a position of responsibility, and administrative ability is therefore necessary.

Preference will be given to suitably qualified candidates who served with H.M. Forces during war-time, providing the Commissioners are satisfied that such candidates can or within a reasonable time will be able to discharge the duties efficiently.

Application forms may be obtained from the Secretary, Civil Service Commission, Stormont, Belfast, to whom they should be returned with copies of two recent testimonials, so as to reach him not later than 3rd August, 1950. 4803

**COUNTY OF LINCOLN—PARTS OF
KESTIVEN.**

COUNTY ARCHITECT'S DEPARTMENT.

Applications are invited for the appointment of DEPUTY COUNTY ARCHITECT. Salary will be in accordance with A.P.T., Grade IX, of the National Scales, i.e., £750 rising by annual increments of £50 to a maximum of £900 per annum. Commencing salary will be in accordance with experience. Car and subsistence allowances will also be paid.

A.R.I.B.A., or similar qualification, is necessary, and candidates should have had experience in the architectural work normally carried out by the Architect's Department of a County Council. Experience in connection with Educational architectural work is particularly desirable. Applicants should possess administrative experience and be capable of controlling staff.

The appointment will be subject to the provisions of the Local Government Superannuation Act, 1937, to a satisfactory medical certificate, and to termination by three months' notice in writing on either side.

Application forms may be obtained from the undersigned, to whom applications should be sent not later than 10th August, 1950, together with copies of two recent testimonials. Canvassing, either directly or indirectly, will disqualify.

J. E. BLOW,
Clerk of the County Council.
County Offices, Stasford, Lincs. 4814

**HAMPSHIRE COUNTY COUNCIL.
PLANNING DEPARTMENT.**

Applications are invited for the post of an ASSISTANT COUNTY PLANNING OFFICER in the County Planning Department. The salary scale is £750-£900. The principal duties of the post will relate to the architectural and amenity aspects of Town and Country Planning, and applicants must, in addition to being Corporate Members of the Town Planning Institute, be also Corporate Members of the Royal Institute of British Architects. Previous experience in a similar capacity in a Government or Local Government Planning Department would be an advantage, but the primary need is for a qualified architect-town planner.

The appointment is pensionable and is subject to a satisfactory medical report.

The officer appointed will be required to keep a car and will receive a travelling allowance on the County Scale for the time being in force.

Applications, stating age, education, qualifications, previous experience, present position, together with a copy of one testimonial and the names and addresses of two persons to whom reference may be made as to professional ability and character, and endorsed "Assistant County Planning Officer," must reach the County Planning Officer, Litton Lodge, Clifton Road, Winchester, not later than the 4th August, 1950.

G. A. WHEATLEY,
Clerk of the County Council.

The Castle, Winchester.
July, 1950. 4804

**MUNICIPALITY OF SINGAPORE.
APPOINTMENT OF TEMPORARY ASSISTANT
ARCHITECT.**

**SINGAPORE WATER DEPARTMENT
EXTENSION WORKS.**

Applications are invited for above appointment on three years' agreement, with possible renewal for duration of Extension Works.

Qualifications: A.R.I.B.A. and A.M.T.P.I., or recognised Town Planning Course in lieu of latter, and preferably with experience in Municipal, Government or Colonial Service, and knowledge of L.C.C. building procedure.

Basic salary up to \$1,000 per month, according to age, qualifications and experience, plus cost-of-living allowance, at present \$220 p.m. single, \$295 p.m. married, or \$395 married with family. One Straits dollar equals 2s. 4d. Thus maximum salary offered for married man with family is equivalent to £1,953 per annum.

Officer appointed required to live in South Johore. Free quarters or allowance in lieu. Appointment subject to medical examination. Six weeks' leave per year of service on satisfactory completion of agreement. 1st class passages paid, including family.

Applications in duplicate, with full personal and technical information, and copies of three testimonials, to Messrs. Peirce & Williams (Agents to the Municipal Commissioners), 1, Victoria Street, London, S.W.1, by Wednesday, 9th August, 1950. 4829

**COUNTY BOROUGH OF WEST HAM.
BOROUGH ARCHITECT AND PLANNING
OFFICER'S DEPARTMENT.**

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

(a) QUANTITY SURVEYOR (Grade A.P.T., VIII, £685-£725-£760).

(b) ARCHITECTURAL ASSISTANT (Grade A.P.T. III, £450-£515-£495).

(c) ARCHITECTURAL ASSISTANT (Grade A.P.T. II, £420-£485-£465).

(d) ARCHITECTURAL ASSISTANT (Grade A.P.T. I, £390-£455-£435).

(e) GENERAL ASSISTANTS, TECHNICAL (General Division: at age 21, £220; £385 at age 32).

Plus London "weighting." Applicants for post (a) should be Associates of the Royal Institution of Chartered Surveyors, and will supervise a section of the Department. Applicants for posts (b), (c) and (d) should have had practical experience in an Architect's office, preferably on Housing and Schools.

Applicants for post (e) should be neat, quick draughtsmen. Application forms (returnable by 11th August, 1950) obtainable from Borough Architect and Planning Officer, Thomas E. North, F.R.I.B.A., 70, West Ham Lane, Stratford, E.15. 4828

**COUNTY BOROUGH OF WALLASEY.
APPOINTMENT OF TOWN PLANNING
ASSISTANTS.**

Applications are invited on or before 11th August, 1950, for the following established posts in the Town Planning Section of the Borough Engineer and Surveyor's Department:—

SENIOR PLANNING ASSISTANTS. Two vacancies. A.P.T., Grade V, £520-£570 per annum.

PLANNING ASSISTANT. One vacancy. A.P.T., Grade III, £450-£495 per annum.

JUNIOR PLANNING ASSISTANT. One vacancy. A.P.T., Grade II, £420-£465 per annum.

Applicants for the Grade V posts should have had town planning experience, and should hold some planning qualifications. Applicants for the Grade III and Grade II posts should be capable draughtsmen, and should have had experience in a Planning, Architectural or Municipal Engineer's office. Full particulars and forms of application may be obtained from the Borough Engineer and Surveyor, Town Hall, Wallasey.

A. G. HARRISON,
Town Clerk.

County Hall, Wallasey, Merseyside.
July, 1950. 4848

LONDON ELECTRICITY BOARD.

Applications are invited for the following appointments in the Architect's Section of the Chief Engineer's Department in Central London.

(a) ASSISTANT ARCHITECTS. Commencing salary will be from £650 per annum, dependent upon qualifications and experience.

Applicants should preferably be Associate Members of the R.I.B.A. They should be capable of preparing working drawings and specifications, and should have had good general experience in design and construction.

(b) ARCHITECTURAL ASSISTANTS. Commencing salary will be from £500 per annum, dependent upon qualifications and experience.

Applicants should be studying for or have passed the Intermediate Examination of the R.I.B.A., be capable draughtsmen, and have had several years' experience in an Architect's office.

(c) DRAUGHTSMEN. Commencing salary will be from £350 per annum, dependent upon ability and experience.

Applicants should be neat draughtsmen, and preferably have had several years' experience in an Architect's office.

The salaries for the above posts are provisional, pending grading of the posts under the National Agreement of the appropriate negotiating body.

Application forms, obtainable from Establishments Officer, 46/47, New Broad Street, E.C.2, on receipt of an addressed foolscap envelope, to be returned duly completed, not later than 28th July, 1950. Please mark envelope EST/V/878/A. 4847

BOROUGH OF NUNEATON.

ARCHITECTURAL ASSISTANT.

Applications are invited from Registered Architects or persons possessing other approved qualifications for the appointment of Architectural Assistant on the staff of the Borough Surveyor, at a salary in accordance with Grade A.P.T., V, of the National Scheme of Conditions of Service (£520-£570).

Further particulars and conditions of appointment may be obtained from the undersigned, by whom all applications must be received not later than the 19th August, 1950.

T. OLDROYD,
Town Clerk.

Council House, Nuneaton.
4852

COUNTY BOROUGH OF HALIFAX.

BOROUGH ENGINEER'S DEPARTMENT.

Applications are invited for the following appointments:—

CHIEF ARCHITECTURAL ASSISTANT (GENERAL). Salary A.P.T., VII (£635-£710).

ARCHITECTURAL ASSISTANT (GENERAL). Salary A.P.T., V (£520-£570).

ARCHITECTURAL ASSISTANT (SCHOOLS). Two positions. Salary A.P.T., V (£520-£570).

QUANTITY SURVEYOR. Salary A.P.T., VI (£595-£660).

Candidates should possess appropriate technical qualifications, and will be required to pass a medical examination. The appointments will be subject to the conditions of service adopted by the Corporation and to the Local Government Superannuation Act, 1937.

Consideration will be given to applications for housing accommodation made by persons appointed to these positions.

Candidates must disclose whether to their knowledge they are related to any member of or the holder of any senior office under the Council.

Applications, stating age, qualifications, present position, salary and experience, accompanied by copies of three recent testimonials, should be appropriately endorsed and delivered to the undersigned not later than Saturday, 12th August, 1950.

RICHARD DE Z. HALL,
Town Clerk.

Town Hall, Halifax.
13th July, 1950. 4861

HOLLAND COUNTY COUNCIL.

COUNTY PLANNING DEPARTMENT.

Applications are invited for the appointment of PLANNING ASSISTANT, Grade IV (£480-£525), in the Boston office of the Department.

Candidates should have had good experience in planning survey and research work under the Town and Country Planning Act, 1947, and should have passed the Intermediate Examination of the Town Planning Institute: further qualification will be an advantage.

Candidates will be required to provide a motor car, for which they will be paid an allowance in accordance with the Council scale. 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, stating age, education, qualifications and experience, accompanied by one recent testimonial and the names of two persons to whom reference may be made, should be sent to arrive not later than 14 days after the publication of this notice. Envelopes should be addressed to R. N. Whiston, Esq., A.M.T.P.I., 21, Haven Bank, Boston, Lincs.

H. C. MARRIS,
Clerk of the County Council.

County Hall, Boston, Lincs.
July, 1950. 4850

COUNTY OF ESSEX.

ILFORD COMMITTEE FOR EDUCATION.

The Essex County Council invite applications for an 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-£725 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.

Applicants 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. 4849

BOURNEMOUTH EDUCATION COMMITTEE.

BOURNEMOUTH SCHOOL OF ART.

Principal: FREDERIC E. COURTNEY.

Required in September, 1950 (if possible):— Full-time ASSISTANT TEACHER (man or woman) for Architecture.

The Teacher appointed must possess the qualification of A.R.I.B.A., and will be required to assist in the teaching of students to the standard of the Intermediate R.I.B.A. examination. Salary will be in accordance with the Burnham Salary Scales. Forms of application and further particulars may be obtained from the undersigned at the Town Hall, Bournemouth, to whom they should be returned as soon as possible.

S. CHILDS,
Education Officer.

12th July, 1950. 4824

**HARROW URBAN DISTRICT COUNCIL.
ENGINEER AND SURVEYOR'S
DEPARTMENT.
APPOINTMENT OF TOWN PLANNING
ASSISTANT.**

Applications are invited for the above appointment in the Department of the Council's Engineer and Surveyor, at a salary in accordance with Grades A.P.T. IV/V. Salary scale: £480-£570, plus London "weighting" allowance.

Applicants must be Associate Members or Students of the Town Planning Institute, should possess a sound knowledge of Town Planning Law, be neat and expeditious draughtsmen, and have experience in the interim development control in urban areas.

The Council is unable to offer any assistance in obtaining housing accommodation for the successful candidate.

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

Forms of application may be obtained from the undersigned, to whom they should be returned not later than Friday, 4th August, 1950.

H. WELLS,

Clerk of the Council.

Council Offices, Harrow Weald Lodge,
Harrow, Middx. 4841

**EDINBURGH COLLEGE OF ART.
SCHOOL OF ARCHITECTURE.**

Applications are invited for the following full-time appointments on the Teaching Staff of the College:—

SENIOR ASSISTANT. Salary scale £700-£800.
ASSISTANT, Grade II. Salary scale £450-£700.
ASSISTANT (JUNIOR). Salary scale £375-£610.

Commencing salary according to qualifications and experience.

Forms of application and conditions of appointment can be obtained from the Secretary, Edinburgh College of Art, Lauriston Place, Edinburgh, 3, to whom completed applications should be sent not later than 12th August, 1950. 4846

**CORPORATION OF THE CITY OF
ABERDEEN.**

TOWN PLANNING DEPARTMENT.

Applications are invited for the following posts:—

(a) DEVELOPMENT ASSISTANT. Salary scale £595, rising by annual increments to £660 per annum.

Applicants should possess one or other of the following qualifications, viz., A.R.I.B.A.,

A.R.I.C.S., A.M.I.C.E., A.M.I.Mun.E., or A.M.T.P.I. The successful applicant will be required to assist the Senior Development Assistant in dealing with development applications made to the Corporation under the Town and Country Planning (Scotland) Act, 1947, and the Aberdeen City Acts, with particular reference to the structural design and stability of building proposals. Experience in the design of steel-framed and reinforced concrete buildings is therefore desirable.

(b) PLANNING ASSISTANT. Salary scale £595, rising by annual increments to £660 per annum.

Applicants should hold one or other of the qualifications referred to in (a) above, and should have had considerable planning experience. The successful applicant will be required to assist in the preparation of the Statutory Planning Proposals for the City.

(c) JUNIOR PLANNING ASSISTANTS (TWO). Salary scale £390, rising by annual increments to £570 per annum.

Applicants should preferably hold one of the qualifications referred to above, and should have passed at least one or other of the Intermediate Examinations leading to these qualifications. Placing in the combined salary grade will be in accordance with qualifications and experience.

The appointments are superannuable and are subject to the passing of a medical examination. Application forms (which should be submitted in duplicate) may be obtained from the Director of Town Planning, 5, Bon-Accord Crescent, Aberdeen, to whom they should be returned on or before 12th August, 1950.

J. C. RENNIE,

Town Clerk.

Town House, Aberdeen.
14th July, 1950. 4845

**BOROUGH OF NEWCASTLE-UNDER-LYME.
ARCHITECTURAL ASSISTANT.**

Applications are invited for the above appointment in A.P. & T. Division, Grades II (£420-£465 per annum)-IV (£480-£525 per annum), of the National Scales of Salaries. The grading will be fixed in accordance with the successful candidate's experience and qualifications. Further particulars and conditions of appointment may be obtained from the Borough Engineer and Surveyor, Lancaster Building, High Street, Newcastle, Staffs., to whom applications must be delivered not later than Tuesday, 8th August, 1950.

C. J. MORTON,

Town Clerk.

District Bank House, Penkhull Street,
Newcastle-under-Lyme, Staffordshire. 4827

Partnership

6 lines or under, 12s. 6d.; each additional line, 2s.

A. R.I.B.A., with 15 years' experience, wishes to purchase Practice or Partnership in East Anglia. Box 4835.

Architectural Appointments Vacant

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

YOUNG ASSISTANT, interested in Ecclesiastical work required in private East Midlands office; student considered. Full particulars to Box 4167.

ARCHITECTURAL ASSISTANT, of Intermediate standard, required immediately by firm of Architects in West End of London; salary according to experience and qualification. Box 4403.

ARCHITECTURAL ASSISTANT required, varied general practice. Apply in writing, stating age, experience and training, Jack Cotton, Ballard & Blow, Architects and Surveyors, Norham Road, North Shields. 4713

ARCHITECTURAL ASSISTANTS required immediately; good salary and prospects; 5-day week. Write to Messrs. J. M. Sheppard & Partners, 38, Bedford Place, W.C.1, giving particulars of age, qualifications, experience, and salary required. 4687

ARCHITECTURAL ASSISTANT, Intermediate standard, required in Architects' office of multiple shop company; interesting work; possibility of permanency. Write Box 4697.

JUNIOR ARCHITECTURAL ASSISTANT required, up to R.I.B.A. Intermediate standard, for London office; capable of executing working drawings, etc.; to start immediately; interesting work, and scope for applicant showing initiative; commencing salary £200-£250 per annum. Apply in writing, stating age, training, experience, and salary required, to: Elie Mayoras, F.R.I.B.A., 13, David Mews, W.1. 4491

ARCHITECTURAL ASSISTANT (Senior and Junior) required; pref. Industrial Building experience. Write, stating age, experience, and salary required, to Winter & Pickering, 114/115, Holborn, London, E.C.1. 4788

ARCHITECTURAL ASSISTANTS, Intermediate standard, or good DRAUGHTSMEN with reasonable experience; good salary and conditions. Apply: 22, Parkway, Welwyn Garden City. 4789

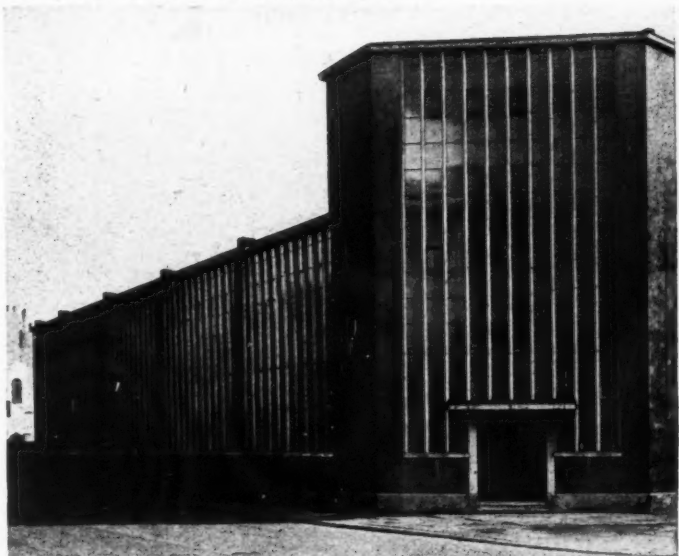
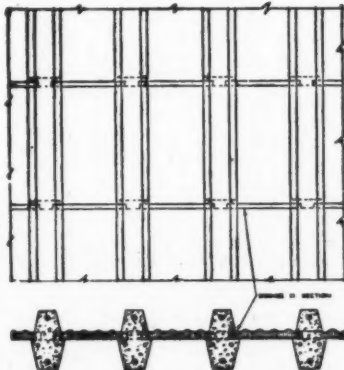
GLAS-CRETE WINDOWS

REINFORCED CONCRETE AND GLASS CONSTRUCTION

GLAS-CRETE patent Mullion Windows comprising vertical R.C. mullions, grooved and slotted to receive "H" bronze members, which in turn carry ½ in. rough cast, figured cast, or sheet glass.

It is thus possible to construct windows continuously up to any desired height, as the weight of each glass is carried on the "H" members, which, in turn, transmit it to the mullions.

The mullions may be spaced at any centres up to 2ft. 9ins. but the "H" members should be at 1ft. 3ins. or multiples. Opening portions can be introduced where required.



G. H. Lawrence Ltd.
Sheffield.

Messrs. Hadfield Cawkwell & Davidson
Chartered Architects.

J. A. KING AND COMPANY LIMITED
181 QUEEN VICTORIA STREET, LONDON, E.C.4
TELEPHONE: CENTRAL 5866 (6 LINES) TELEGRAMS: KINOVIQUE, CENT, LONDON

ARCHITECTURAL ASSISTANT required for General Practice—Surveys, Working drawings and Specifications. Write, stating age, previous experience and salary required, Henry C. Smart & Partners, L.R.I.B.A., 120, Moorgate, E.C.2. 4807

REQUIRED, at Company's Head Office, Guildford, **ARCHITECTURAL ASSISTANT**, A.R.I.B.A.; varied work, mainly factory; 5-day week; salary by arrangement. Box 4746.

ARCHITECTURAL DRAUGHTSMAN required, with experience in setting out Masonry, detailing and design of Precast Reinforced Concrete Units and Floors. State full particulars of experience, age, salary required, to Girtings Ferro-Concrete Co., Ltd., Rothwell, near Leeds. 4755

ARCHITECTURAL ASSISTANT, experienced, required at once. Write, stating age, experience, and qualifications, etc., to Messrs. Martin & Martin & W. H. Ward, 106, Colmore Row, Birmingham, 3. 4760

SENIOR ARCHITECTURAL DRAUGHTSMAN required at once; experienced in staff supervision and detailing of interesting work of contemporary character; good small house available. Reply, giving usual particulars, to Suffolk Group, Chartered Architects, One, Quay Street, Woodbridge. Tel. 546. 4796

THE CO-OPERATIVE WHOLESALE SOCIETY, LTD., invite applications for the following appointments on the staff of the Manchester Architect's Department:—

THREE ASSISTANT ARCHITECTS. Salary £550-£650 per annum. Applicants, who must have had practical office experience, are required to have a sound knowledge of building construction and be able to produce working drawings and details from sketch plans. Experience in the design and planning of modern industrial and commercial buildings will be considered an advantage.

The above appointments are permanent and offer prospects of up-grading to competent Assistants. Successful candidates will be required to undergo a medical examination for entry into a compulsory superannuation scheme.

Applications, stating age, experience and qualifications, to be addressed to the Chief Architect, Co-operative Wholesale Society, Ltd., 1, Balloon Street, Manchester. 4806

SENIOR ARCHITECTURAL ASSISTANT required by firm of West End (London) Chartered Architects and Surveyors; salary £700; possibility of convenient maisonette at low rental if required. Box 4809.

ARCHITECT'S ASSISTANT required by busy provincial Architect, town and country practice, Reading area; capable of preparing sketch plans, working drawings, specifications, supervising, checking accounts; car expenses; good salary and prospects. Write, stating experience and salary required, to Box 4810.

ARCHITECTURAL ASSISTANT required, with general experience; Intermediate-Final standard; quick accurate draughtsman; salary according to qualifications. Write, stating experience and salary required, Buckland & Haywood, FF/R.I.B.A., Norwich Union Chambers, Congreve Street, Birmingham, 3. 4811

SENIOR AND JUNIOR ARCHITECTURAL ASSISTANTS urgently required in busy office with all-round practice; very good prospects for suitable applicants. Send details of age, experience, training and present salary, to Naylor, Sale & Widdows, St. Mary's Gate, Derby. 4812

ARCHITECTURAL ASSISTANT (temporary), with good general practice experience, wanted for Railway Civil Engineer's Office in Edinburgh; state age, qualifications and experience. Box 4813.

JUNIOR ASSISTANT required, salary according to ability. Apply Scott & Westmoreland, F./A.R.I.B.A. Phone Chancery 7790. 4816

ARCHITECT, with London and provincial experience, has a vacancy in his London office for an Articled Pupil; premium not essential. Apply to Box 4815.

TEMPORARY SENIOR ARCHITECTURAL ASSISTANT required for Railway Architect's Office in London; applicants should be registered Architects and Associates of the R.I.B.A., good contemporary designers, and able to take responsibility for day-to-day conduct of major contract. The Department is engaged on design and construction of industrial, commercial and domestic buildings, and offers exceptionally varied and interesting work. Salary range £600 to £650, according to qualifications and experience. Apply to Box 4817.

ARCHITECTURAL ASSISTANT (Temporary) required for Railway Architect's Office in London; preference given to qualified Architect or, if not qualified, to candidates of Intermediate R.I.B.A. standard and some years' experience; good contemporary design ability is required, and an up-to-date knowledge of building technique. The Department is engaged on design and construction of industrial, commercial and domestic buildings, and offers exceptionally varied and interesting work. Salary range £510 to £575, according to qualifications and experience. Apply to Box 4818.

ARCHITECTURAL ASSISTANT required, Intermediate-Final standard, with 2 or 3 years' drawing office experience. Clifford Duke, A.R.I.B.A., 111, Haverstock Hill, N.W.3. Primrose 2512.

LONDON FIRM of Architects, West End office, requires **JUNIOR ASSISTANTS** up to Intermediate standard for varied practice; salary by arrangement. Box 4837.

JUNIOR ARCHITECTURAL ASSISTANT required in September by London Architect, F.R.I.B.A., F.R.I.C.S. Preference given to applicant who has recently completed five years' full time architectural training, or to external student who has passed the R.I.B.A. Intermediate Examination. Box 4844.

SENIOR ASSISTANT required, with pre-war experience in general domestic and school work; salary up to £600. Phone Euston 8175. 4854

Architectural Appointments Wanted

A RESPONSIBLE post as **ASSISTANT ARCHITECT** in London area required by B.Arch., A.R.I.B.A.; first-class training, excellent 8 years' varied experience in best offices, including 9 months on building operations; good testimonials. Full details please and salary offered to Box 546.

ASSISTANT, fully qualified; senior position in small office preferred; London, Home Counties, or East Anglia. Box 554.

ARCHITECTURAL DRAUGHTSMAN (20), being demobilised in 6 weeks, requires a position with a modern Architect within reasonable distance of Regent Street Polytechnic; 5 years' varied experience, including 2 years' training and free lance work; probationer. Box 560.

ARCHITECT, qualified (age 27), school trained, requires responsible and progressive position; 6 years' office experience; London area preferred. Box 559.

YOUNG LADY, Intermediate standard, requires position within reach of Portsmouth. Box 556.

SENIOR ASSISTANT (age 35), with considerable experience of multiple shops and chain stores, requires responsible position in London area; competent designer and draughtsman; used to supervision. Box 558.

A.R.I.B.A., with 14 years' experience, seeks a post requiring initiative and drive; prospects essential; London or elsewhere considered; please state salary offered. Box 557.

Other Appointments Vacant

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

ARCHITECTURAL Metalworkers require a **DESIGNER-DRAUGHTSMAN** of considerable merit; top salaried position for skilled man. Apply The Morris Singer Company, Hope House, Gt. Peter Street, Westminster, S.W.1. 3564

BETTER-OUT wanted for Architectural Metalwork; good wages and ideal working conditions. Apply: The Morris Singer Co., Ltd., Ferry Lane, Forest Road, Walthamstow, E.17. 3564

INTELLIGENT and enthusiastic, young man, with some knowledge of building construction and materials, wanted for unusually interesting selling job, mainly in London (full-time). Write, with full particulars of age, training, experience, salary required, to Box 566.

ESTIMATOR DESIGNER for Concrete Floors in S.W. London area, required by established Company; must be up to date in estimating and design, and preferably with practical experience in organising and controlling contracts; excellent prospects for right man. Write, giving full particulars in confidence, salary, etc., to Managing Director, Smith's Fireproof Floors, Ltd., Imber Court, East Molesley, Surrey. 4677

APPLICANTS are invited to fill vacancies at Edinburgh for Structural Engineering **DESIGNER-DRAUGHTSMEN**. Applicants should be quick and accurate detailers, with a thorough knowledge of general structural design, building construction and structural surveying. A good knowledge of structural steelwork and/or reinforced concrete is also necessary. Salary up to £510 per annum, according to age, qualifications and experience. Apply in writing, stating age and giving details of training and experience, to The Secretary, Ministry of Works, 122, George Street, Edinburgh, 2. 4653

Services Offered

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

ARCHITECTURAL MODELS and Dioramas. Edward J. Ashenden, A.R.C.A., 15, Chennel Studios, 183, Kings Road, S.W.3. Tel.: Flax 6103. 2646

NOTICE TO ARCHITECTS—Builder, with good tradesmen, plant, and transport, now in a position to accept War Damage and Maintenance repairs. Hawkes, 63, Hogarth Gardens, Heston, Middx. HOU. 1667. 4294

MANUFACTURERS of exclusive hand-made Lampshades; architects' contracts carried out. J. & M. Beagley, 51, Great Ormond Street, London, W.C.1. CHANCERY 9959. 2397

R.I.B.A. Calculation of Simple Structural Members and Theory of Structures. Intensive Postal Tuition. D. A. Fowler, Dip.Arch.(Abdn.), A.R.I.B.A., 22, Oakwell Mount, Leeds, 8. Tel. No. 58294. 4791

FREE LANCE, with long professional experience, offers services to Architects in London area; working drawings, details, perspectives, sketches, etc., and interiors. Box 4273.

FREE-LANCE Surveyor offers Services to Architects requiring accurate surveys of land and buildings, levelling, contouring, etc.; own car and complete equipment. 2778

ARCHITECTURAL Perspectives, Sketches, etc., Hotel and Interior Designs prepared. William Shone, Architectural Artist, 4, Mayors Walk, Pontefract, Yorks. Tel. Pontefract 483.

**FOR ALL
ELECTRICAL
INSTALLATIONS**

**OHMLITE INSTALLATIONS
LIMITED**

62, OLD BROMPTON ROAD, SOUTH KENSINGTON, S.W.7. KENSINGTON 0259/2890

BUILT-IN FURNITURE & FITMENTS

• CONSULT THE SPECIALISTS

CHIPPENDALES WORKSHOPS 75 BAKER STREET, LONDON, W.1. WELbeck 1194

QUALIFIED Architect offers part-time assistance in London; site reports and preparation of working drawings and specifications; general experience; own car available. Box 4838.

PROPERTY SERVICES have intimate experience of Building Controls and their administration, including Planning, Industrial Development and Development Charges, and offer advice and practical help. 260, Euston Road, N.W.1. Euston 7733. 4839

PERSPECTIVES by A.R.I.B.A., A.M.T.P.I., in any medium, from Architect's drawings. Box 3568.

For Sale or Wanted

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

SLATES.—All types Asbestos and Welsh, including Diagonal's; Corrugated and Flat Asbestos Sheets. G. Paget Ellis & Co., Ltd., 7, Oxford Street, Leamington. 3999

SLATES.—All sizes in Asbestos, including Red and Grey Diagonals, Welsh Slates, Corrugated and Flat Asbestos Sheets; delivered all parts U.K. G. Paget Ellis & Co., Ltd., 7, Oxford Street, Leamington Spa. 3999

ARCHITECTS AND SURVEYORS.—Small practice in Coventry for Sale, owing to sudden death, including office furniture and equipment. Box 4805.

Miscellaneous

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

A. J. BINNS, LTD. Specialists in the supply and fixing of all types of fencing, guard rail, factory partitions and gates. Harvest Works, 99-107, St. Pauls Road, N.1. Canonbury 2061.

The Race Upholstery Unit will be pleased to report on and tender for your specialised upholstery requirements and repairs. 22, Union Road, Clapham, S.W.4. 4048

ALL BOOKS of interest to Architects, published in this country and in America, are obtainable from Stobart & Son, Ltd., 9, Victoria Street, London, S.W.1. Ask to receive regularly our free lists giving contents-summaries of new books. 1445

NAME-PLATES.—Classical Lettering engraved by Austin Luce & Co., Broadway Chambers, 336, Station Road, Harrow, Middlesex. Send for sketch and estimate. 4569

BILLS of Quantities, Specifications, Estimates, etc., accurately and rapidly duplicated or typed. John & Marjorie Nixon, "Cartrefy," Chestnut Lane, Amersham, Bucks. Phone: Amersham 1520. 4087

Educational Announcements

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

R.I.B.A. EXAMS.—Mr. L. Stuart Stanley, R. M.A., F.R.I.B.A., M.T.P.I., Dist. in T.P. (Tutor in the Sch. of Arch. Lond. Univ.), prepares Students by correspondence tuition. 18, North Road, N.6. MOU. 8104.

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. 103, OLD BROMPTON RD., LONDON, S.W.7 Telephone: KENington 8641

QUALIFYING EXAMINATIONS R.I.B.A. AND T.P.I. INTER & FINAL FINAL

Courses of Instruction by Correspondence and Personal in Studio, including TESTIMONIES OF STUDY AND PROFESSIONAL PRACTICE.

C. W. BOX

R.I.B.A., A.I.S.T.R.U.C.E., M.R.S.A.I.

115 GOWER STREET, W.C. Euston 3906

LINOLEUM

Information Sheets

19/GI, 2, 3 & 4

Reprints available on application to:—

Linoleum Manufacturers' Association, 273/287, Regent Street, London, W.1.

PROFESSIONAL ADVANCEMENT

through **ICS** STUDY COURSES

I.C.S. Home Study Courses help the professional man to further his career. They include many courses for Membership Examinations of the various technical bodies. Brilliant successes have been recorded in the spheres of architecture, building, and surveying.

Here are some of the subjects in which we offer fully qualified instruction:—

Architecture
Architectural Drawing
and Designing
Building Contracting
Building Construction
and Interior Work
Building Construction
and Quantities
Building Specifications
Quantity Surveying
Civil Engineering

Surveying and Mapping
Plan and Map
Draughtsmanship
Structural Engineering
Concrete Engineering
Structural Drawing
Construction Draughtsmanship
Sanitary Engineering
Air Conditioning
Heating and Ventilation

Special Courses for the examinations of the R.I.B.A., I.O.B., R.I.C.S., Inst. C.E., I.M.E. (Building Inspectors), Inst. Struct. E., I.Q.S., Inst. Clerk of Works, etc. Examination students are coached till successful. Write to-day for free booklet describing our Course in any of the subjects mentioned above.

International CORRESPONDENCE SCHOOLS

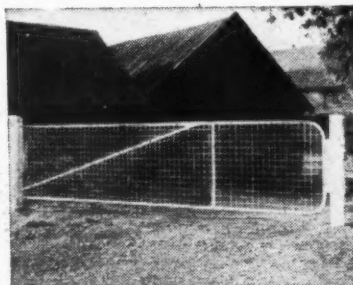
Dept. A.J. International Buildings, Kingsway London, W.C.1.

"STONITE"

WALL FINISHING MATERIALS

Full particulars including Information Sheet No. 7.C2 from **CALLOW & KEPPICH LTD**

C & K SHIPHAM GORGE, CHEDDAR, SOMERSET. Telephone: Cheddar 214



Tubular steel GATES

Illustrated above is a tubular steel gate, giving a CLEAR opening of 14 ft. These gates are immediately available, free of licence. Dept. F1.

BOULTON & PAUL LTD
NORWICH

CRC F7

Technical Literature?

CONSULT



Specialists in the production of technical drawings and catalogue material for the building and allied industries

Building Industries Services Ltd

25 LOWER BELGRAVE ST., LONDON, SW1

Telephone: Sloane 0474

LIFTS

by **MORRIS**

Herbert Morris Ltd

Loughborough

Engineering branches in London, Glasgow, Manchester, Birmingham, Leeds, Sheffield, Newcastle, Cardiff, Bristol, Dundee, Liverpool, Nottingham, Rury St. Edmunds, Belfast

SECOMASTIC

Joint Sealing Compound
Provides a permanent, weather-proof seal to any joint or crack.

Full particulars from Architectural Department, **SECOMASTIC LTD.** 11 Upper Brook St., Park Lane, London, W.1



FOR INFORMATION

on the many applications of DOVETAILED STEEL SHEETING write for information Sheet 20. Z12 et seq., to the manufacturers:

DOVETAILED STEEL SHEETING

STEEL CEILINGS LIMITED

Floot Works, Port Talbot, Glamorgan, South Wales

ELLISON for

HIGH VOLTAGE SWITCHGEAR.

CIRCUIT BREAKERS of up to 4000 amps.

and STARTERS for

Electric Motors of up to 1000 H.P.

Made by **GEORGE ELLISON LIMITED**, Perry Barr, Birmingham. 22B

MUMFORD BAILEY & PRESTON LTD

AIR CONDITIONING & HEATING
HOT & COLD WATER SERVICES
SANITARY ENGINEERING ETC.

NEWCASTLE HOUSE · CLERKENWELL CLOSE · LONDON · E.C.1

*Phone: Clerkenwell 6346

Branches at Bournemouth & Dublin

Alphabetical Index to Advertisers

	PAGE		PAGE		PAGE
Allied Guilds, Ltd.	xxxviii	English Joinery Manufacturers Association (Inc.)	xxxvii	Newalls Insulation Co., Ltd.	xx
Allom Bros., Ltd.	vi	Ezee Kitchen Equipment, Ltd.	liv	Ohmlite Installations, Ltd.	lxvi
Anderson, D. & Son, Ltd.	1	Fire Armour, Ltd.	lvi	Paragon Glazing Co., Ltd.	lxvii
Armstrong Cork Co., Ltd.	xxviii	Fitzpatrick & Son, Ltd.	lvi	Parker, Winder & Achurch, Ltd.	lx
Batley, Ernest, Ltd.	1	Flush Door Manufacturers Association, Ltd.	lxi	Peglers, Ltd.	lxix
Benham & Sons, Ltd.	xxxiii	Fordham Pressings, Ltd.	liv	Pilkington Bros., Ltd.	xxxii
Berry, Z. D., & Sons, Ltd.	xli	French, Thomas, & Sons, Ltd.	xxiv	Porn & Dunwoody, Ltd.	xxi
Birmid Rain-Water Goods	vii	Girllings Ferro Concrete Co., Ltd.	xxiii	Pritchett & Gold & E.P.S. Co., Ltd.	xvi
Blackburn & General Aircraft, Ltd.	lxvii	Gulf Radiator Co., Ltd.	lv	Prodorite, Ltd.	xxix
Booth, James, & Co., Ltd.	viii	Gypco Products, Ltd.	li	Radiation, Ltd.	xxviii
Boulton & Paul, Ltd.	lxvii	Hammer, George M., Ltd.	xxxviii	Redhill Tile Co., Ltd.	xlii
Bovis, Ltd.	xv	Haskins	xl	Redpath Brown & Co., Ltd.	lvi
Box, C. W.	lx	Henderson, P. C., Ltd.	xli	Rolyat Tank Co., Ltd.	xxxviii
Braithwaite & Co., Engineers, Ltd.	lix	Hollis Bros. & Co., Ltd.	xlii	Ronuk, Ltd.	lxix
British Electric Development Assoc.	xxxiv	Holloway Bros. (London), Ltd.	lxvii	Sankey, J. H., & Son, Ltd.	xxii
British Plumber, Ltd.	lxvii	Holloway, W. F. & Brother, Ltd.	lxvii	Seafolding (Great Britain), Ltd.	xxix
British Trane Co., Ltd.	xxxvii	Hope, Henry, & Sons, Ltd.	lxvii	Secomastic, Ltd.	lxvii
Broads Manufacturing Co., Ltd.	xxxvii	International Correspondence Schools ...	lxvii	Sharman, R. W., Ltd.	lv
Building Industries Services, Ltd.	xxxvii	Jenson & Nicholson, Ltd.	lxvii	Siegmart Floor Co., Ltd.	v
Callow & Keppich, Ltd.	xxxvii	King, George W., Ltd.	xxxv	Smith's Fireproof Floors, Ltd.	xxxvi
Carter & Co., Ltd.	xxxvii	King, J. A. & Co., Ltd.	lxv	Solignum	lii
Clark & Fenn	lxvii	Lamont, James H., & Co., Ltd.	lxvii	Southern Lime Association, The	xxix
Cellon, Ltd.	lxvii	Lead Industries Development Council ...	xxxvii	Steel Ceilings, Ltd.	lxvii
Cement Marketing Co., Ltd.	lxvii	Leatherford, Ltd.	xxxvii	Sundeala Board Co., Ltd.	lxvii
Chippendale Workshops	xxxvii	Lever, James, & Sons, Ltd.	lxvii	Thorn, J., & Sons, Ltd.	lxvii
Clark & Fenn, Ltd.	xxxvii	Lilley, Walter, & Co., Ltd.	lxvii	Thorp, John B.	lxvii
Colthurst, Symons, & Co., Ltd.	xxxvii	Limmer & Trinidad Lake Asphalt Co., Ltd., The	lxvii	T.I. Aluminium, Ltd.	lxvii
Colt, W. H. (London), Ltd.	xxxvii	Linoleum Manufacturers Association, Ltd.	lxvii	Tretol, Ltd.	lxvii
Costain, Richard, Ltd.	xxxvii	Lotex Asbestos Flooring Co., Ltd.	lxvii	Truett & Steel, Ltd.	lxvii
Courtney Pope, Ltd.	xxxvii	Loft Ladders, Ltd.	lxvii	Turners Asbestos Cement Co., Ltd.	xxxvii
Crabtree, J. A., & Co., Ltd.	xxxvii	Marley Tile Co., Ltd., The	lxvii	Val de Travers Asphalte Paving Co., Ltd.	lxvii
Crittall Kitchen Equipment (1950), Ltd.	xxxvii	Maxwell, Andrew	lxvii	Wales Dove Bitumastic, Ltd.	lxvii
Crittall Manufacturing Co., Ltd., The ...	xxxvii	Metropolitan Concrete Works, Ltd.	lxvii	Warite, Ltd.	lxvii
Dawmays, Ltd.	xxxvii	Mills Scaffold Co., Ltd.	lxvii	Welwyn Stores (1929), Ltd.	lxvii
Durable Asphalt Co., Ltd.	xxxvii	Morris, Herbert, Ltd.	lxvii	Wheatly & Co., Ltd.	lxvii
Durnell, R., & Sons, Ltd.	xxxvii	Mumford, Bailey & Preston, Ltd.	lxvii	Williams & Williams, Ltd.	lxvii
Eastwoods, Ltd.	xxxvii			Zinc Alloy Rustproofing Co., Ltd.	lxvii
Ecto Insulation, Ltd.	xxxvii			Zinc Development Association	lxvii
Ellis School of Architecture, The	xxxvii				
Ellison, George, Ltd.	xxxvii				

For Appointments (Wanted or Vacant), Competitions Open, Drawings, Tracings, etc., Educational, Legal Notices, Miscellaneous Property, Land and Sales, see lxii, lxiii, lxiv, lxv and lxvi.

YOURS for the Asking

LEARN HOW TO:—

SPECIFY,

TEST,

USE,

SHERARDIZING

ZINC ALLOY

RUST PROOFING CO. LTD.

SHAKESPEARE STREET, WOLVERHAMPTON

TELEPHONE.: WOLVERHAMPTON 20647/8

ALSO AT LONDON & ROCHDALE.



PAGE
xx
lxvi
lvii
lx
lix
xxxi
xxi
xvi
xxix
xviii
xlii
lvi
xxviii
lxix
xxli
xxxix
xii
lxvii
lv
v
xxxvi
lii
xlix
lxvii
liv
xlv
lv
ii
xxxii
lviii
ii
lii
lxviii
xli

"When we Build
let us think that we build for ever"
(*'Seven Lamps of Architecture'*)

For well over 300 years Durntells of Brasted, in Kent, have been practising the Builders' honourable craft, working under some of the foremost architects to ensure the competent erection of homes that last.

In a world of ever-changing values we are proud to remain a firm of Builders content to be guided by the old tradition of taking pains and to abide by the pleasure of doing good work, as apart from the snatching of quick profits.

Durntnell
Builders since 1591



R. DURTNELL & SONS LTD., BRASTED, KENT
Telephone: Brasted 105/6
SEVENOAKS Tel: 3186 OXTEY Tel: 498

"I want a floor reasonable in cost, pleasing to the eye, soft to the tread, will wear like steel and will not damage tools which are inadvertently dropped on the floor, is fire and vermin proof."

Such are the qualities of

Liutex

JOINTLESS (MAGNESITE) FLOORING

IS GUARANTEED NOT TO CRACK, LIFT, DUST OR FADE FOR A PERIOD OF FIVE YEARS.

Send for full details and samples from

THE LIOTEX ASBESTOS FLOORING CO. LTD

10/21 JARROW ROAD,
LONDON, S.E.16

Telephone: Bermondsey 4341-2-3

If you intend to Specify Sash Windows, avoid future Cord troubles by ordering . . .



Sash Cords do not break—they rot. Stop the Rot—fit "EVERLASTO"

"EVERLASTO"

BRITAIN'S SUPER SASH CORD

- ★ Weatherproofed by special process AT NO EXTRA COST
- ★ Non Stretch
- ★ Rot Proof
- ★ Long Life
- ★ Durable
- ★ Low Cost

Everlasto
Registered Trade Mark No. 519412

Specified by Housing Directors, Architects, and Builders

Waterproof and Rot Proof
SASH CORD



ENDLESS CORD
STRONG • DURABLE
Ask for details and prices

Also Ideal for Colour Poles, Aerial Poles, Inside Clothes Airer Rails, etc.

Made in all lengths
Write for details

JAMES LEVER & SONS LTD
Everlasto Cordage Works • Delph St. Bolton

A
RONUK
PRODUCT

COLRON

★ WOOD DYE

★ THE "1-COAT" TRANSPARENT PENETRATING, PERMANENT PRESERVATIVE STAIN FOR ALL NEW WOODWORK.

It cannot raise the grain.

★ 12 SHADES:
ALL SIZES

ADVISORY SERVICE

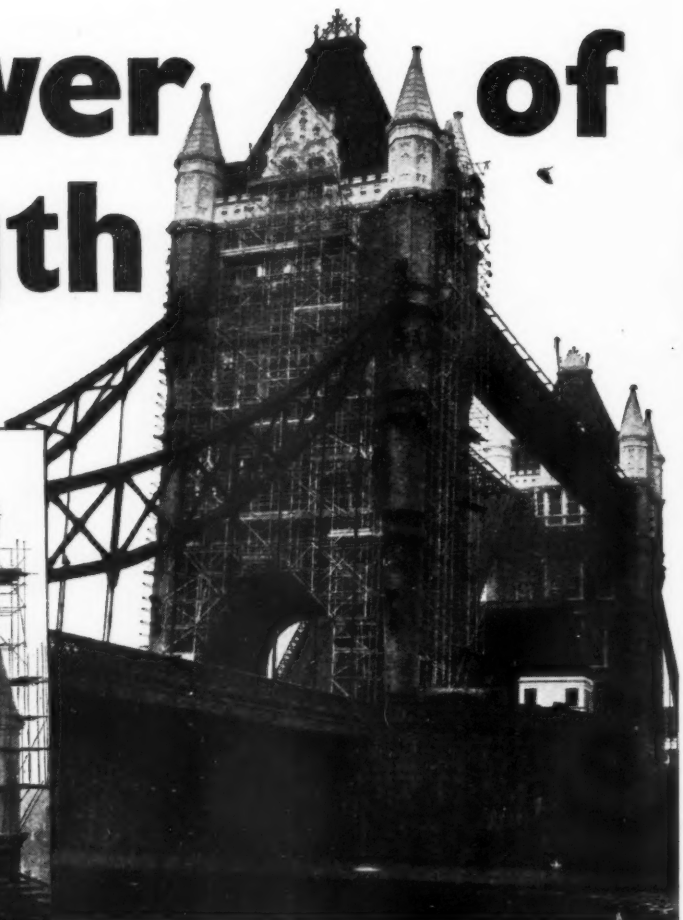
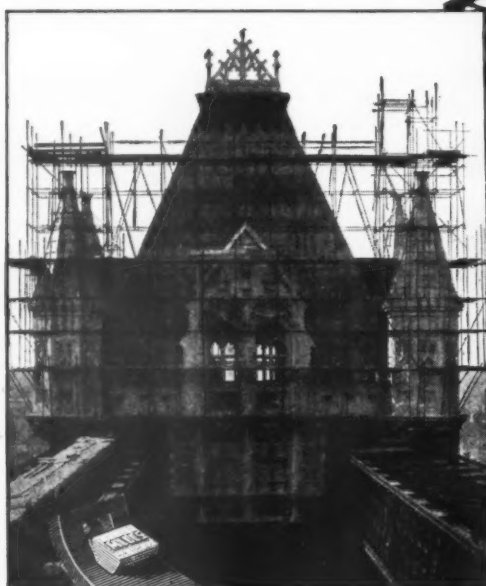
Shade cards, panels, full directions and working instructions for contractors' use, estimates and 45 years of specialists' experience are at your service.

RONUK Ltd., Portslade, Sussex
Polishing } 16 South Molton Street
Contract Depot } London, W.1

MILLS

S C A F F O L D

-a tower of strength



Photographs by courtesy of Messrs. Higgs & Hill, Main Contractors and Mr. George Holliday, F.R.I.C.S., City Surveyor, Corporation of London.



Steel and Aluminium Scaffolding for sale, contract, or hire. Every requirement met also for ancillary equipment, including : Shuttering Steel Props • Trench Struts • Splitheads • Hoists • Concrete Mixers • Cradles • Builders' Hand Carts • Barrows • Trestles, etc

**TO SAVE TIME, SIMPLY PHONE
YOUR NEAREST MILLS DEPOT**



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

MILLS SCAFFOLD CO. LTD., Head Office and Depot: **TRUSSLEY WORKS, HAMMERSMITH GROVE, LONDON, W.6** • Tel: **RiVerside 5026/9**



orge

very
ring
rete
etc



POOL
ICH
TTH

026/9