STACK



standard

contents

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

COMMENT NEWS and

Diary News

Architects' Commonplace Book Astragal's Notes and Topics

Letters

Societies and Institutions

TECHNICAL SECTION

Information Sheets

Information Centre

Current Technique

Questions and Answers

Prices '

The Industry

PHYSICAL PLANNING SUPPLEMENT

BUILDINGS CURRENTSTATISTICS HOUSING

Appointments Architectural Wanted and Vacant

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

Price 9d.

Registered as a Newspaper.

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

Architectural Association, 34/6, Bedford Square, W.C.1.

Association of Art Institutions. Secy.: W. Marlborough Whitehead, "Dyneley,"

Castle Hill, Avenue, Berkhampstead, Herts.

Architects' Benevolent Society. 66, Portland Place, W.1.

Welbeck 5721 AAI ABS ABT

Association of Building Technicians. 5, Ashley Place, S.W.1.

Arts Council of Great Britain. 4, St. James' Square, S.W.1.

Aluminium Development Association. 33, Grosvenor Street, W.1.

Association for Planning and Regional Reconstruction. 34, Gordon ACGB ADA on. 34, Gordon Square, W.C.1. APRR

Euston 2158-9 ArchSA

Architectural Students' Association. School of Architecture, Manchester Municipal School of Art, All Saints, Manchester, 15. Ard Architects' Registration Council. 68, Portland Place, W.1. Wel Ardwick 3480 Architects' Registration Council. 68, Portland Flace, w.i.

Architectural Science Board of the Royal Institute of British Architects.

66, Portland Place, W.1. Welbeck 5721 ARCUK Welbeck 9738 ASB

66, Portland Place, W.1. Well Association of Scientific Workers. 15, Half Moon Street, Piccadilly, W.1. AScW Grosvenor 4761 BAE Board of Architectural Education. 66, Portland Place, W.1 Welbeck 5721 BATC

Building Apprenticeship and Training Council. Lambeth Bridge House, S.E.1.
Reliance 7611, Ext. 1706
Building Centre. 9, Conduit Street, W.1.
Mayfair 8641/6 Building Centre. 9, Conduit Street, W.1.

British Colour Council. 13, Portman Square, W.1.

British Cast Concrete Federation. 17, Amherst Road, Ealing, W.13.

British Cast Iron Research Association. Alvechurch, Birmingham.

British Electrical Development Association. 2, Savoy Hill, W.C.2.

British Gas Council. 1, Grosvenor Place, S.W.1.

British Gas Federation. 1, Grosvenor Place, S.W.1.

Sloane 4554

Sloane 8266

British Ironfounders' Association. 145, Vincent Street, Glasgow, C.2. BCC BCCF BCIRA BDA

BEDA **BGC** RGF BIA

Glasgow Central 2891 British Institute of Adult Education. 29, Tavistock Square, W.C.1. Building Industries Distributors. 52, High Holborn, W.C.1. Building Industries National Council. 11, Weymouth Street, W.1. Board of Trade. Millbank, S.W.1. Building Research Station. Bucknalls Lane, Watford. Publisher Secretary 14 Park Street W.1. BIAE Euston 5385 RID Chancery 7772 Langham 2785 BINC Whitehall 5140 BRS

Garston 2246 BSA BSI CABAS

CAS

Building Research Station. Bucknalls Lane, Watford.
Building Societies Association. 14, Park Street, W.1.
British Standards Institution. 28, Victoria Street, S.W.1.
Building Trades Exhibition. 4, Vernon Place, W.C.1.
City and Borough Architects Society. C/o Johnson Blackett, F.R.I.B.A.,
Borough Architect, Town Hall, Newport, Mon. Newport 3111
County Architects Society. C/o A. Guy Chant, F.R.I.B.A.
Salop County Council, 5, Belmont, Shrewsbury.
Cement and Concrete Association. 52, Grosvenor Gardens, S.W.1.
Sloane 5255
Copper Development Association. Kendals Hall, Radlett, Herts.
Central Institute of Art and Design. 41, 42, Dover Street, W.1.
Congrès Internationaux d'Architecture Moderne. Doldertal, 7. Zurich, Switzerland.
Council of Industrial Design. Tilbury House, Petty France, S.W.1.
Whitehall 6322
Codes of Practice Committee. MOW, 42, Onslow Gardens, S.W.7.
Kensington 8161 CCA CDA CIAM CPC

Kensington 8161 CPRE Council for the Preservation of Rural England. 4, Hobart Place, S.W. Sloane 4280 Coal Utilization Joint Council. 13, Grosvenor Gardens, London, S.W.1. CUJC

Victoria 1534 Directorate General of Works, Ministry of Works, Lambeth Bridge House, S.E.1. Reliance 1761 DGW

Whitehall 0540 DIA Design and Industries Association. 13, Suffolk Street, S.W.1. Department of Overseas Trade. 35, Old Queen Street, S.W.1. Electricity Commission. Savoy Court, Strand, W.C.2. English Joinery Manufacturers' Association (Incorporated). S DOT Victoria 9040 EC EJMA Temple Bar 7565 Sackville House,

40, Piccadilly, W.1. Regent 4448 English Place-Name Society. 7, Selwyn Gardens, Cambridge.
Faculty of Architects and Surveyors. 8, Buckingham Palace Gdns., S.W.1. EPNS FAS

Sloane 2837 Festival of Britain 1951. 2, Savoy Court, Strand, W.C.2. Federation of Association of Specialists and Sub Contractors. Waterloo 1951 FB 1951 FASSC

Federation of Association of Specialists and Sub Confractors.

21, Tothill Street, S.W.1.

Where the Street of Street, S.W.1.

Where the Street of Street, S.W.1.

Where the Street of Str Whitehall 9606 FRI Whitehall 6711

FCMI Sloane 1002 The Flush Door Manufacturers Association Ltd. Trowell, Nottingham. Ilkeston 623 Friends of the Lake District. Pennington House, Nr. Ulverston, Lancs. **FDMA**

FLD Ulverston 201 **FMB** Federation of Master Builders. 26, Great Ormond Street, Holborn, W.C.1.

Chancery 7583 Federation of Registered House Builders. 82, New Cavendish Street, W.1.

Langham 4041 **FRHB**

FS (Eng.) Faculty of Surveyors of England. 8, Buckingham Palace Gdns., S.W.1. Sloane 2837 Georgian Group. 27, Grosvenor Place, S.W.1. Housing Centre. 13, Suffolk Street, Pall Mall, S.W.1. GG Sloane 2844 Whitehall 2881 HC

IAAS Incorporated Association of Architects and Surveyors. 75, Eaton Place, S.W.1. Sloane 5615 Whitehall 4577 ICE Institution of Civil Engineers. Great George Street, S.W.1.

PYNFORD LIMITED for

SOIL TESTING UNDERPINNING AND NEW FOUNDATIONS

- Pynford Limited have an up-to-date SOIL TESTING LABORATORY.
- Pynford Limited will visit any site or job and report on the soil conditions.
- Pynford Limited are operating the PYNFORD METHOD OF UNDER-PINNING which enables a new base to be built under an existing building safely and quickly.
- Pynford Limited TEST THE SOIL before pouring the concrete for bases on all jobs in up-to-date laboratory.
- Pynford Limited will design foundations for new buildings from data found in their laboratory.

PYNFORD LIMITED

74 LANCASTER ROAD, STROUD GREEN, LONDON N.4.

Telephone: ARCHWAY 2372

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.

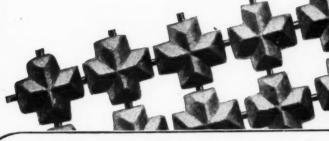


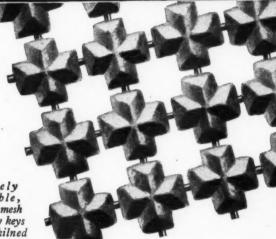




CEILINGS & PARTITIONS







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

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

IMMEDIATE DELIVERY FROM STOCK

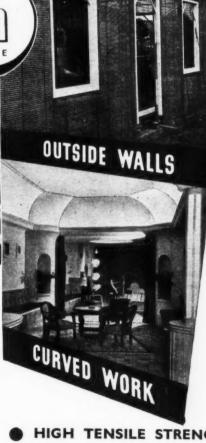
Full technical details and sample from:-

COLT (LONDON)

(Architectural Division A2), Surbiton, Surrey. ELMbridge 6511/5 ALSO BRADFORD, BIRMINGHAM, NEWCASTLE, MANCHESTER, SHEFFIELD & NEWPORT (MON) Sole Stockholders for Scotland:-

ROWEBB LIMITED

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



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

FOR CIGARETTE-PROOF COUNTER TOPS

DENNY MOTT & DICKSON are distributors of FORMICA, the decorative laminated plastic sheet, known for over twenty years for lasting beauty and hard wear.



cigarette is stubbed out on it.

DENNY MOTT & DICKSON LTD.

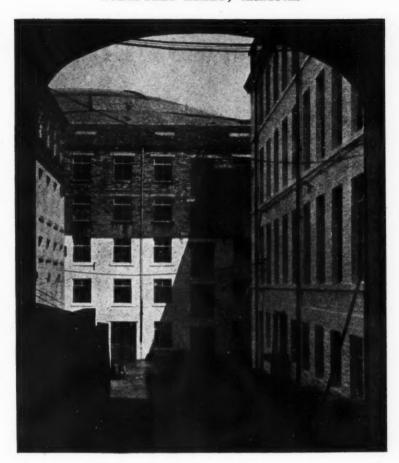
ADELAIDE HOUSE · KING WILLIAM STREET · LONDON · E·C·4

TELEPHONE MANSION HOUSE 7961

Branches and Subsidiaries at: Belfast · Birmingham · Blackburn · Bristol · Cardiff · Dewsbury · Glasgow · Gravesend · Hulli King's Lynn · Letchworth · Liverpool · Manchester · Newcastle · Preston · Southampton

THE SNOWCEM CASE BOOK

HOLMFIELD MILLS, HALIFAX



This illustration provides a good example of one of Snowcem's main features—light reflection. The building at the back of the mill yard was built in 1833, the extensions in 1873. All the walls are stonework, cleaned and renovated by the West Riding Cleaning Co. Ltd., Bradford, who applied one coat of white Snowcem and one of cream.

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

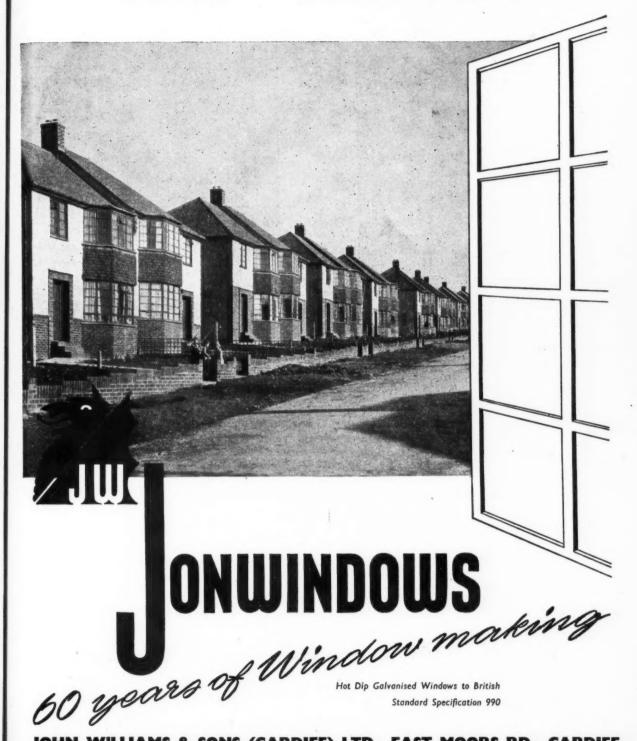
SNOWCEM WATERPROOF CEMENT PAINT



THE CEMENT MARKETING CO. LTD., 192 Ashley Gdns., London, S.W.I. Phone: VICtoria 6677. or: — G. & T. EARLE LTD., Cement Manufacturers, Hull. Telephone: Hull 16121
THE SOUTH WALES PORTLAND CEMENT & LIME CO. LTD., Penarth, Glam. Telephone: Penarth 300.

MORE DAYLIGHT corrugated PERS through means greater Supplied to match corrugated metal and asbestos sheeting, corrugated 'Perspex' has /exceptionally/high light transmission, is tough, durable and easy to fix. Perspex 's the registered trade mark for the scrylic sheet manufactured by I.C.I. Ltd. IMPERIAL CHEMICAL/INDUSTRIES LIMITED

METAL WINDOWS



JOHN WILLIAMS & SONS (CARDIFF) LTD., EAST MOORS RD., CARDIFF

Telephone Cardiff 2501

Telegrams " Metal" Cardiff

London: Bank Chambers · Finsbury Park · N.4 · Telephone Archway 2294 · Telegrams Dissolving London



THE VAST RESOURCES OF THE HILLS ORGANISATION ENSURE QUALITY DOORS ... AND ALL OUR DOORS ARE GRADE I

The famous "Clymax" flush doors are made with plywood facings, offering a greater resistance to bursting or penetration by sharp corners. It is more stable in fluctuating atmospheric conditions. The core construction has been well and truly tried — made and designed by Hills, the people who have the complete "know how" on flush doors.

To maintain Grade I production of panel doors from Hills factories, Canadian door stock is augmented by selected prime quality hard wood shipped direct from Hills concessions in the Gold Coast Colony . . . which incidentally enable Hills to offer a price advantage to the purchaser. Details of standard designs for exterior or interior use on request.

Make the RIGHT choice for quality and price.

HILLS FLUSH AND PANEL DOORS



A CENTURY OF EXPERIENCE GOES INTO THE MAKING OF EVERY HILLS PRODUCT





We are exhibiting at the **Building Trades** Exhibition, Olympia, November 17 to December 1 Stand No. 207 Row K



NEW OFFICES, LIVERPOOL Architects: Quiggin & Gee, F/F.R.I.B.A.

ALSO MANUFACTURERS OF METAL WINDOWS SPECIFICATIONS AND BROCHURES ON REQUEST

GLASGOW: LONDON:

LIVERPOOL: BRISTOL:

EXPORT:

ECLIPSE WORKS, PETERSHILL ROAD, GLASGOW, N. FITZROY WORKS, 352-364, EUSTON ROAD, N.W.I. IDA & VICTORIA WORKS, DEPTFORD, S.E.8. HAVELOCK WORKS, AINTREE, LIVERPOOL, 10.

ASHTON GATE WORKS, BRISTOL, 3, 110, CANNON STREET, LONDON E.C.4 ALSO AT FALKIRK, BELFAST & PLYMOUTH

TEL: SPRINGBURN 5151

TEL: EUSTON 3456 TEL: TIDEWAY 1234 TEL: AINTREE 1721 TEL: BRISTOL 64041

TEL: MANSION HOUSE 6034

There is plenty polished plate available for buildings of

ISSUED BY PILKINGTON BROTHERS LIMITED

of British

e and sheet glass

now

of every kind

ST. HELENS, LANCASHIRE





Permanently coloured granules . . . manufactured by the Marley Tile Company are now used for surfacing all Marley Roofing Tiles

Marley Granules not only give a permanent colour but also a distinctive texture which assists the tiles to weather. With this process a range of blended coloured tiles is available in addition to the standard range of colours. Rub or wash a Marley tile and note the absence of free colour. The specification of MARLEY TILES for all roofs ensures tiles which are strong and dense—plus permanence of colour.



THE MARLEY TILE COMPANY LIMITED · SEVENOAKS · KENT

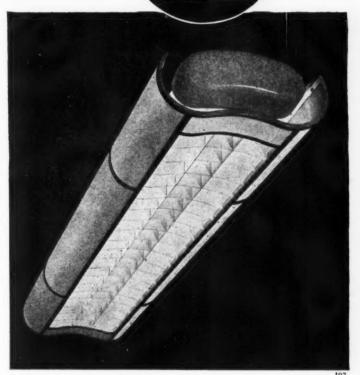
Another New ATLAS FLUORESCENT UNIT of outstanding charm

PRICE £8.10.0

DIFFUSING ATTACHMENT (ANL 2040) £2.16.0

PLUS PURCHASE TAX 13.34

Exceedingly attractive in appearance, very efficient in use, this new fluorescent fitting is a further step in the steady progress that is so well defined in all Atlas equipment. It consists of a basic twin 4 ft. 40 watt unit (available with either a two-pin starter switch or the Atlas 'Quickstart' Unit) and the design of its 'louvre' attachment vests it with more than the usual eye-appeal and light diffusion efficiency. This new fitting certainly represents a big advancement in design. May we supply you with full particulars?



The large illustration shows this unit with the 'louvre' attachment. Also is shown the basic unit, which is suitable for various diffusing attachments. Tubes are available in four standard colours—'Daylight', 'Northlight', 'Warm White', and the new warmer colour 'Peach'.

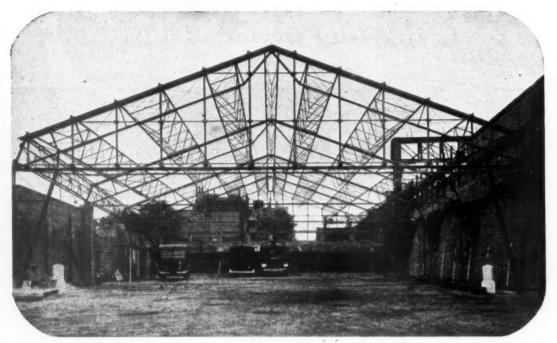
ATLAS FLUORESCENT

FOR INDUSTRIAL AND DOMESTIC LIGHTING

THORN ELECTRICAL INDUSTRIES LTD 105-109 JUDD ST., LONDON WCI EUSTON 1183

WELDED TUBULAR CONSTRUCTION

-by the originators of tubular scaffolding!



METROPOLITAN POLICE GARAGE . Architect's Department . New Scotland Yard

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.

WELDED STRUCTURES DIVISION

MITCHAM

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

Designed and Constructed by S.G.B. ___



Most electrical engineers in the business know Pritchett & Gold, not only as makers of dependable batteries but as people who actually enjoy having their technical brains picked. Part I of the service we provide is a staff of specialists whose job is either to prepare complete and detailed specifications

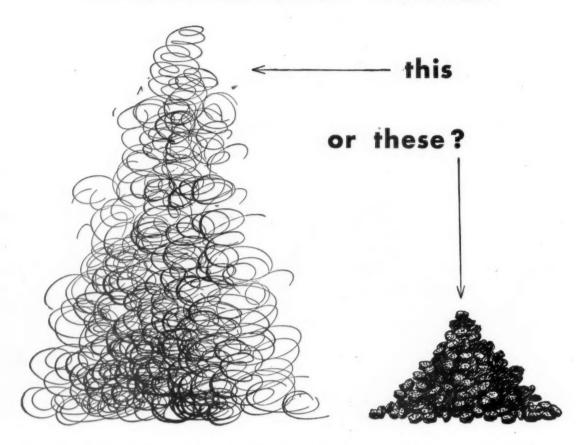
for any kind of battery installation or merely
to give an impartial 'second opinion' on any
existing scheme. Part II provides for complete
equipment and installation and Part III for
regular inspection, maintenance & replating

PRITCHETT & GOLD and E.P.S. CO LTD
50 GROSVENOR GARDENS LONDON SWI

Batteries and Control Panels for Emergency Lighting

P.G.13D4

which is the easier to handle



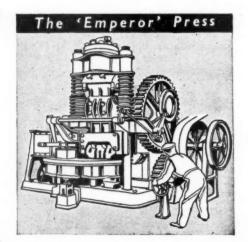
The briquetting of iron, steel, brass, copper and aluminium borings and turnings transforms loose and bulky material into dense blocks equal to lump metal. Handling is facilitated, storage is brought down to a minimum and remelting losses are reduced to that of virgin metal. The 'Emperor' Press, illustrated below, is equally efficient in briquetting coal dust and other fine pulverent materials. Full details of the 'Emperor' Press and other

briquetting equipment are gladly supplied on request

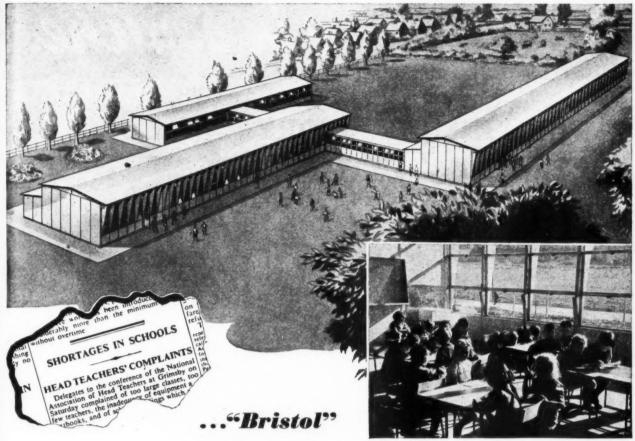
An 'Emperor' Press can exert a pressure of up to 400 tons and produces as many as 30 pressings per minute. In the manufacture of coal briquettes the output is as high as 25 tons per hour, and it is equally efficient in connection with the briquetting of iron, steel, brass, copper, and aluminium borings and turnings.

Sutcliffe Speakman

Sutcliffe Speakman and Company, Limited, Leigh, Lancashire. London Office: Godliman House, Godliman Street, E.C.4. Telephone: CITY 2810

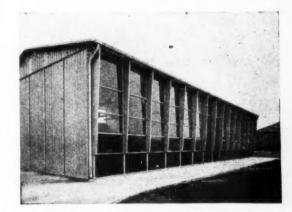


Permanent aluminium buildings . . . labour-saving, hygienic and adaptable



permanent aluminium buildings supply the answer...

By employing the "Bristol" unit construction system of permanent aluminium buildings many schools throughout the British Isles and Northern Ireland have been completed in less than one-third of the time taken by traditional building methods; use of scarce materials is reduced to a minimum, and no call is made on skilled labour for erection . . With a permanency equalling that of traditional construction "Bristol" aluminium buildings efficiently exploit the advantages of prefabrication principles.



This illustration shows the light, airy and hygienic

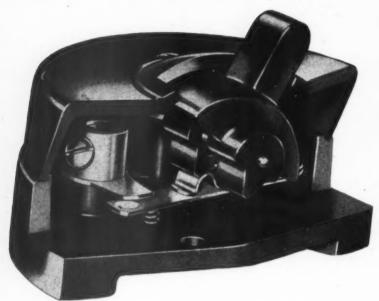
conditions obtainable with "Bristol" aluminium buildings.

The pleasing modern lines of "Bristol" aluminium buildings blend barmoniously with other types of structure.

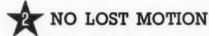
Bristol

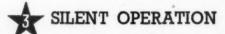
Better Value in Switches

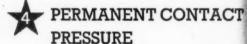
THE "INSIDE" STORY OF M.K. A.C. SWITCHES



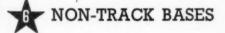


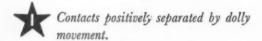


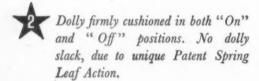


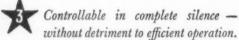












Spring leaf silver contact coupled with subsidiary compression spring ensures lasting contact pressure and eliminates tendency to contact "bounce"

Both fixed and moving contacts are fine silver -non-oxydizing and non-deteriorating.

Urea mouldings having non-track and low moisture absorption characteristics.

under all conditions.



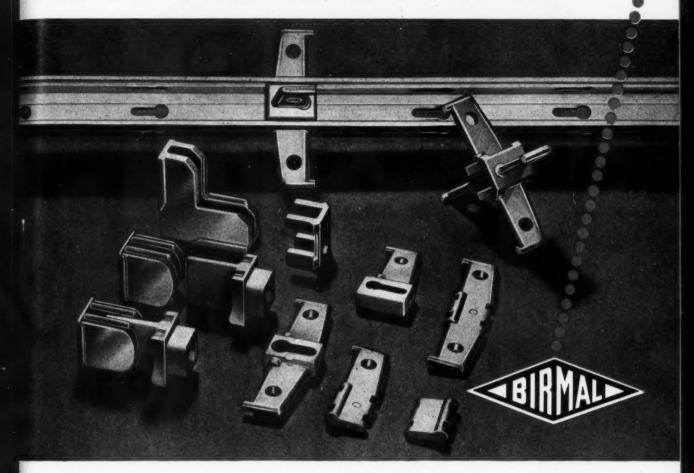
M. K. ELECTRIC LIMITED MONTON · LONDON

a h

T as sy ir the T is can

l: B

BEYLOGH GOMPONENTS.



THE 'KEYLOCK' SYSTEM OF CONSTRUCTION

. . . marketed by Packaged Buildings (Robert Building Inventions Ltd.) consists of aluminium alloy extrusions and locking elements made from highly accurate pressure die castings.*

The locking elements are illustrated above both as individual pieces and assemblies. This remarkable system has been developed on the basis of a three-inch module hence the flexibility is infinitely greater

than any other existing method, The accuracy of the components is such that a positive assembly can be secured in any combination at all points of perforation in the extruded members. Only a light hammer is required for final fixing and a simple ejector for dismantling. The part played by "Birmal" is the supply of aluminium pressure die castings. The inventor says . . . "to have an idea is one thing, and to make it into a practical proposition is something else. I am conscious that the rapid development of this project from the first to the second stage,

is due in no small measure to the help, co-operation and interest extended by your staff."

*For detailed information see "Architects' Journal" Information Sheet 25.A2.

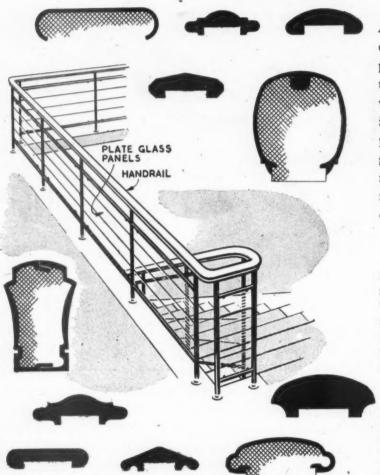
GASTING SPERATION

BIRMINGHAM ALUMINIUM CASTING (1903) CO LTD

LONDON OFFICE 20-22, BERKELEY SQUARE, LONDON, W.I

ALUMINIUM SECTIONS

give shape to ideas



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

Some of the many varieties of handrail sections are illustrated here. They are smooth, of attractive appearance and do not tarnish. They may be machined, formed and fitted with speed and facility. Handrail sections can be supplied quickly.

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

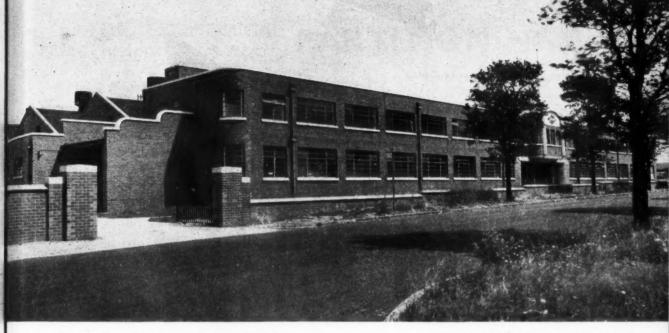
Northern Aluminium

COMPANY LIMITED

MAKERS OF ALUMINIUM SHEET, STRIP, TECHNICAL DEVELOPMENT DIVISION; BANBURY, OXON,

PLATE, SECTIONS, TUBING, WIRE, FORGINGS, CASTINGS, PASTE FOR PAINT SALES OFFICES: LONDON, BIRMINGHAM, MANCHESTER, BRISTOL, NEWCASTLE-ON-TYNE, LEEDS





Factory for LATHAM & COMPANY LIMITED, Bromborough, Cheshire.

Architects: KENMURE & KINNA, F.R.I.B.A., Liverpool

PANEL WARMING

in the offices

SUNZWAY HEATING

in the Factory

RICHARD CRITTALL

RICHARD CRITTALL & COMPANY LIMITED, 151 Great Portland Street, London, W.1. Tel. Museum 3366 and at Martins Bank Building, Liverpool, Central 5832, and Prudential Buildings, St. Philip's Place, Birmingham, Central 2478 136, Wellington Street, Glasgow, C.2. Douglas 8761

THE BUILDING INDUSTRY Because of its strength, durability, non-liability to shrink and fire-proof qualities, steel has obvious advantages for

JOSEPH SANKEY & SONS LTD

product of a firm with years of experience in this type of work.

the manufacture of Door Frames, Skirting, Corner Beading,

Picture Railing and other applications of interest to Architects

Sankey products are made to British Standard Specifications and are the

HADLEY CASTLE WORKS, WELLINGTON, SHROPSHIRE. PHONE: 500 WELLINGTON, GRAMS: SANKEY, WELLINGTON,

and Builders.

THE STRAMIT SYSTEM

The STRAMIT System

FOR ECONOMICAL PARTITIONING SPEEDY AND RIGID



STRAMIT **BOARDS** AND STRAMIT **ALUMINIUM SECTIONS PROVIDE** COMPLETE SYSTEM PARTITIONING WHETHER PERMANENT TEMPORARY, FOR OFFICES, FACTORIES, SCHOOLS AND HOUSES. COST OF ERECTION **EXTREMELY LOW & BOARDS** ARE EASILY DECORATED BY ALL NORMAL METHODS

- ★ LIGHT WEIGHT—3½lbs. per sq. ft.
- ★ WIDE CENTRES 4ft. 0ins. standard width.
- GREAT RIGIDITY—2in. thickness.
- PROPERTIES.
- + HIGH THERMAL INSULATION.

Illustration shows a typical example of STRAMIT partitioning.



RY

ink

for

ing,

ects

the

D

JN.

Write for details of this amazingly simple method to:

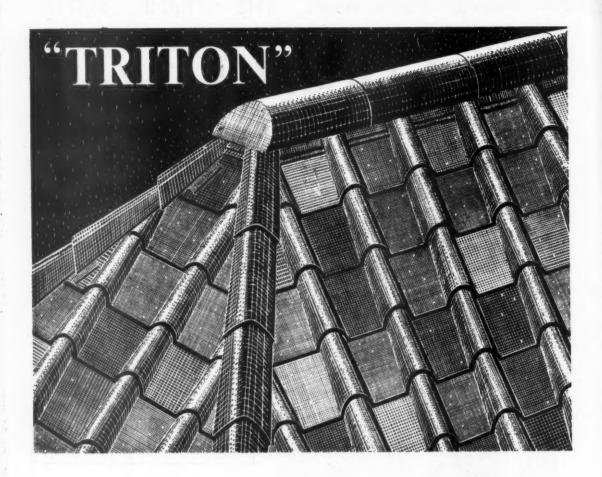
TRAMIT BOARDS LIMITED

DEPT. A., PACKET BOAT DOCK, COWLEY PEACHEY, NEAR UXBRIDGE, MIDDLESEX

Telephone: WEST DRAYTON 3021

* VISIT OUR STAND No. 288 ROW "R" AT THE BUILDING EXHIBITION, OLYMPIA, LONDON, NOV. 17-DEC. I

THE STRAMIT SYSTEM



TRITON ROMULUS ROOFING TILES

The TRITON Romulus is a hand-made sandfaced clay tile of single roll Roman type. Though introduced comparatively recently, it is made according to the best traditions of hand-made burnt clay tiles, and can be relied upon to provide the same lasting and weathering properties as the other better known TRITON products.

Romulus tiles are at present available in the following colours: 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. B1. The same information about TRITON Pantiles is given in Information Sheet 17.B2 and extra copies of either or both sheets may be obtained from the manufacturers.

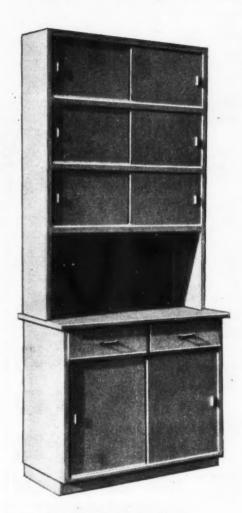
Specimens of Wheatly Tiling may be seen at the Building Centre, London. Wheatly products include Single-lap Roofing Tiles, Ridge Tiles (blue and red), Floor Quarries and Briquette Fireplaces.

WHEATLY AND COMPANY LIMITED

SPRINGFIELD TILERIES, TRENT VALE, STOKE-ON-TRENT, TELE: NEWCASTLE (Staffs.) 66251. GRAMS: WHEATLY, TRENTVALE.

WH 27

There are NO HEADACHES with



The AUSTIN-HALL SLIDING DOOR Kitchen Fitment

Dimensions: 7'11" high 3'6" wide (with plinth) Top Unit 1ft. deep

Bottom Unit 1'7" deep

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

THESE cupboards

A wide-open cupboard door can be an infernal nuisance in a small kitchen. Somebody is always getting hurt. Sliding doors, on the other hand, never stick out into a limited floor space. That is why our new Kitchen cabinets, in which all the doors slide *easily*, are so popular with housewives.

They are popular with architects as well, because they are very moderate in prime cost, are easy to instal and paint and inexpensive to maintain. All that—in addition to their being very well-made indeed.



AUSTIN-HALL GROUP OF COMPANIES

AUSTINS OF EAST HAM LTD.

GRAngewood 3444

LONDON E.6



Another wellknown building has a 'facial' "SILEXINE" Stone Paint, as used on Athenaeum Court, is supplied in a range of twelve standard colours. It is suitable for application by brush or spray to a great variety of surfaces including concrete, stucco, brick, plaster, asbestos cement, building board and painted or distempered surfaces.

"SILEXINE" Stone Paint is made from finely ground stone incorporated in a special emulsion containing china wood oil, and has a high degree of resistance to damp, weather and fire.

Full particulars, including specifications, notes on preparation of surfaces and colour specimens will gladly be supplied.

SANKEY'S MOLER Hollow Partition Blocks and Insulating Bricks



Borough of Walthamstone Countess Road Flats, E.17

Architect:
F. G. Southgate, Esq.,
A.R.I.B.A.
(Borough Architect)

Contractors: Gee, Walker & Slater Ltd.

SANKEY'S MOLER HOLLOW BLOCKS were selected for Countess Road Flats, Walthamstow, E.17, and used as a lining to external walls, on account of their valuable properties.

THERMAL INSULATION
SOUND RESISTANCE
LIGHT WEIGHT

See Folder No. 116 Architects' " Classifile."

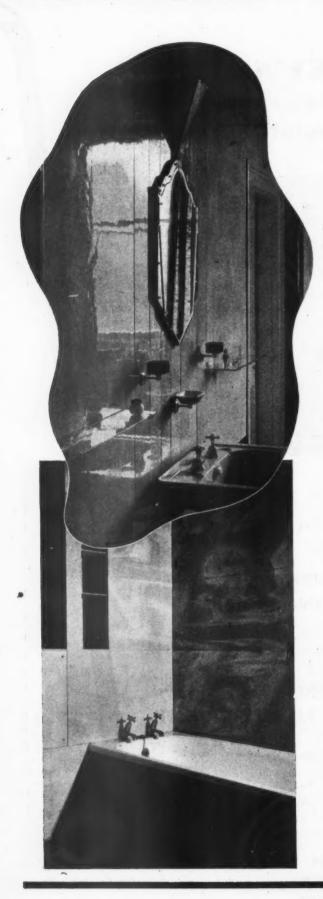
J.H.SANKEY & SON.LTD

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

Telephone: HOLborn 6949 (20 lines)

Telegrams: Brickwork, Estrand, London

xxvii



GLASS FACING

- LUSTROUS
- COLOURFUL
- EVERLASTING

Its hygienic and moisture-resisting properties are so outstanding, that Glass Facing is THE treatment for Bathrooms and Toilets. Yet these are only two of many applications. Wherever walls must be impervious to moisture, grease and chemicals, Glass Facing is the obvious solution. In Schools, Hospitals, Factories—especially those concerned with the processing of foods and pharmaceutical products, Kitchens, Cafes, Milk Bars, Dairies, and many other types of building, Glass Facing can do much to establish a bright and cheerful atmosphere, to maintain hygienic conditions, and to reduce maintenance costs.

Our wide experience as Specialist Fixers of 'Vitrolite' is gladly placed at the service of Architects through Technical Representatives. Early consultation will enable you to make the most effective use of Glass Facing—a job which we really understand.

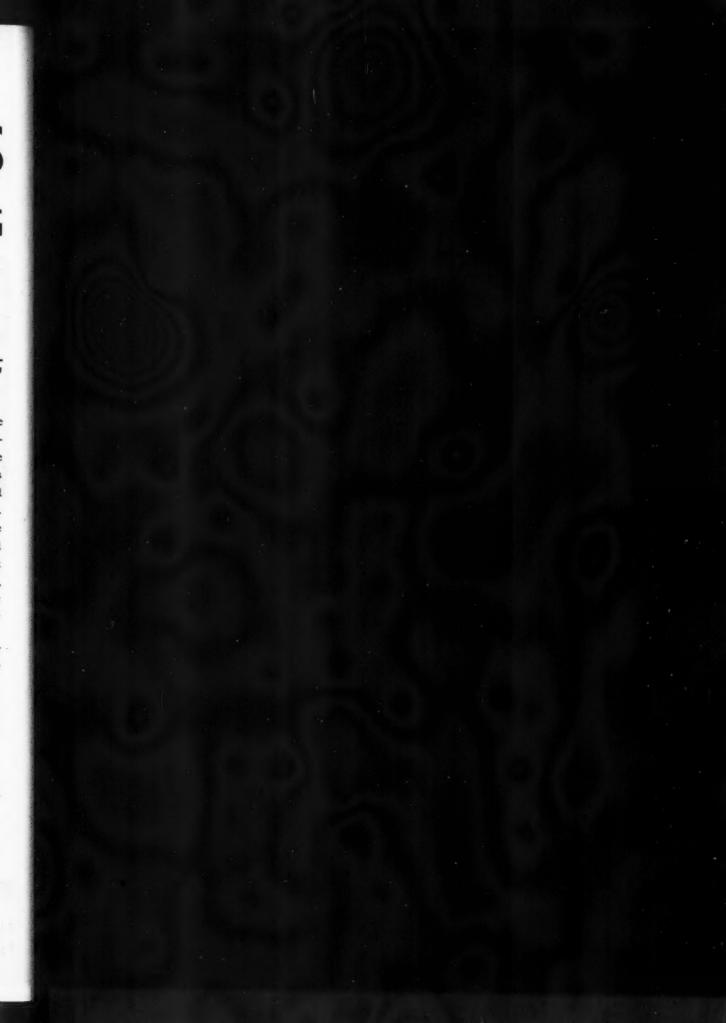


JAMES CLARK & EATON Ltd.

(Amalgamating James Clark & Son, Lid., and Eaton, Parr, & Gibson Ltd).
GLASS FOR ALL STRUCTURAL AND DECORATIVE PURPOSES
SCORESBY HOUSE, GLASSHILL STREET, BLACKFRIARS,
LONDON, S.E.I

Telephone: WATerloo 4611 (16 lines)

Branches:
CANTERBURY · BOURNEMOUTH · EASTBOURNE · READING





HIGGS AND HILL LIMITED

LONDON

LEEDS

COVENTRY

BPB GYPSUM PROVIDES THE MEDIUM PARAMOUNT"
FIREPROOF
PLASTER WALLBOARD

"THISTLE"
PLASTER BASE BOARD

"THISTLE"

"THISTLE"
GYPSUM PLASTER

PARASTRIP"
PLASTER BOARD FURRING

"PARACLIP"

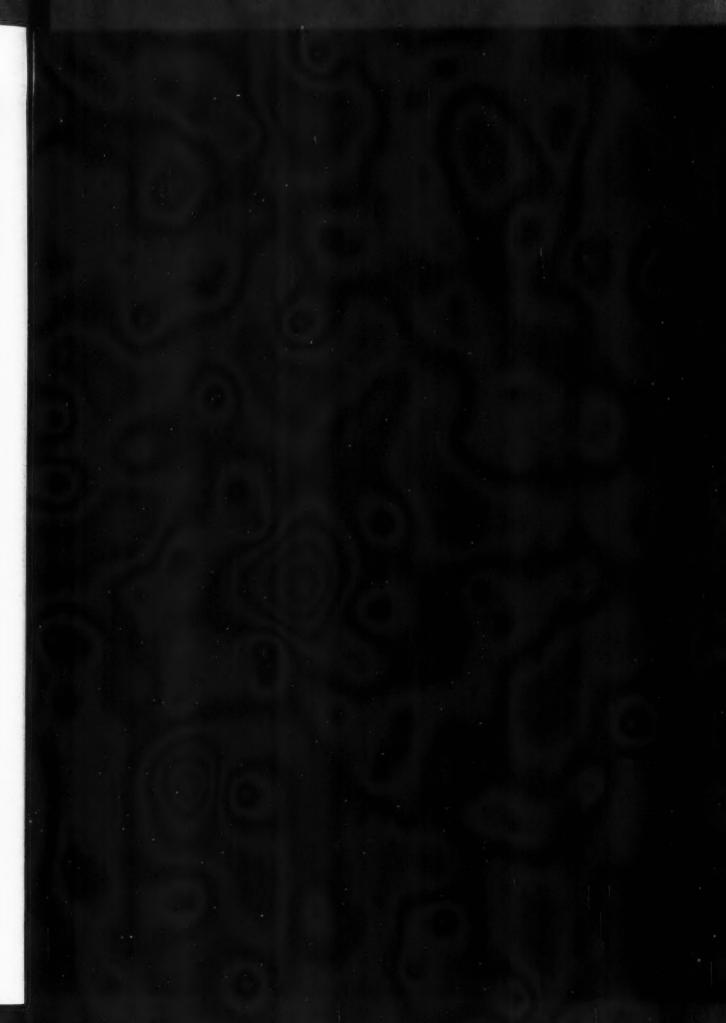
SYSTEM OF ROOF AND
WALL INSULATION

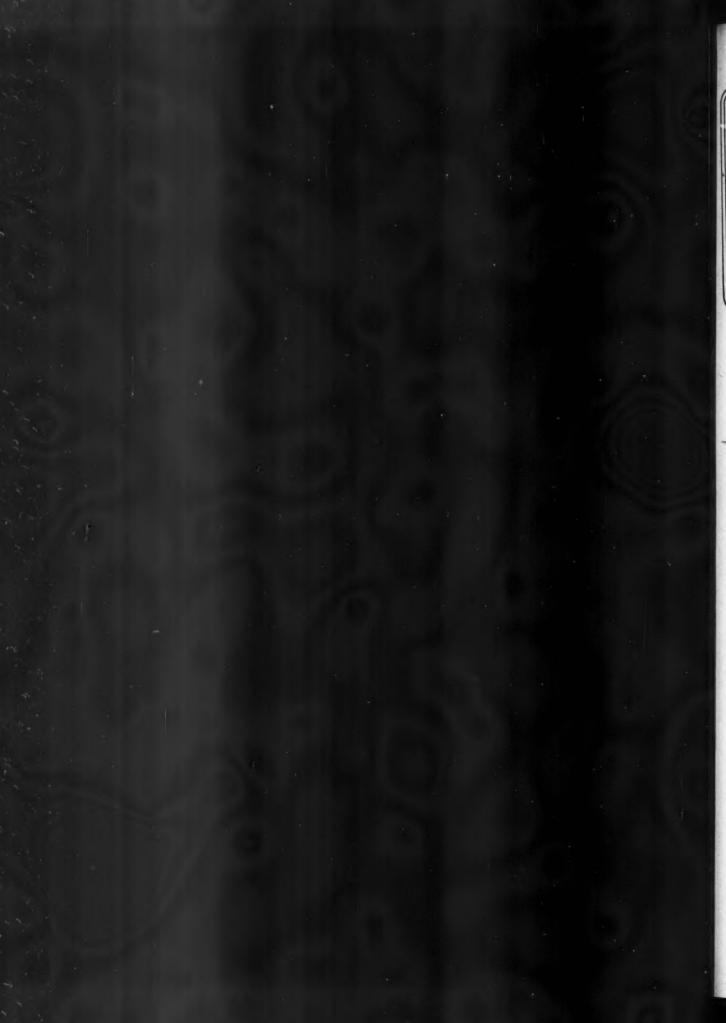
"PARAMOUNT"
TWO-INCH SOLID PARTITION

THE BRITISH PLASTER BOARD LIMITED MORRIS HOUSE · I/5 JERMYN STREET · LONDON · S · W · I

WALLASEY . CHESHIRE

WRITE FOR NEW LITERATURE







DEPENDABLE

Derwent

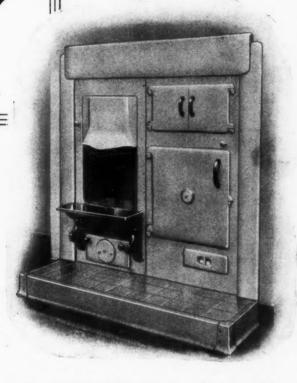
COMBINATION GRATE

ONE efficient and economical fire provides heat for a large and uniformly heated oven, a fast-boiling machine-ground hot-plate with extension hob, a hot closet and a supply of hot water for a normal family household. The fire has a closed position for slow overnight burning, and for the prevention of excessive heat emission during the summer months.

SPECIFICATION

GRATE.—Overall size, 38 in. by 38 in. by 14½ in. Brickwork opening required, 44 in. high by 40 in. wide and 15 in. deep. MANTEL.—Overall size, 45½ in. wide by 44¾ in. high. KERB.—To suit 44 in. by 12 in. tile hearth:

Grate supplied in mottled fawn, mottled green or black vitreous enamel. Mantel is supplied in mottled fawn, mottled brown (to tone with the mottled fawn grate), mottled green vitreous enamel or fine-cast and primed one coat. Kerb is supplied in mottled fawn, mottled green or black vitreous enamel. A bolster can be supplied to restrict heat losses from firebox in its closed position.



To satisfy modern requirements the cooker may be adjusted to stay alight overnight, and is capable of giving the performance specified in B.S. 1252, 1945, on both coal and anthracite. Other solid fuels, such as coke, wood, or patented fuels may be used if the cooker is not required to stay alight unattended for a very long period.

The cooker has been selected for inclusion in the Ministry of Health's Approved List of improved appliances as recommended to all local authorities.



GLOW-WORM

Derwent combination GRATE

Facilitates Assembly, Cleaning and Maintenance: The boiler and the fireparts are designed for easy removal and replacement without disturbing the brickwork in any way. Please write for leaflet A.I.

GLOW·WORM BOILERS LIMITED

DERWENT FOUNDRY . MILFORD . Nr DERBY . Tel Belper 22-23



Left: Recent reproduction of an elaborate Georgian Stair in a West End house. Below: Bottom of a stair in a small country house, showing unusual type of curtail step.

Sadds, with their tradition of craftsmanship, can do justice to designs like these. At the same time, their works are equipped for economical production of long runs of staircases for housing schemes.

SADDS of MALDON for STAIRCASES

and for

FLUSH and PANELLED DOORS

WINDOWS, MOULDINGS

KITCHEN UNITS & DRESSERS

SCHOOL AND LIBRARY FITTINGS

STANDARD AND SPECIAL

JOINERY OF ALL KINDS



JOHN SADD & SONS LTD., MALDON, ESSEX

Tel.: Maldon 131 (6 lines)

London Office: Aldwych House, W.C.2

Tel.: CHAncery 7214



MEM tumbler switches never intrude. They fall neatly into the proper perspective in any setting. Their simple functional design is exactly right. And like so many other right-looking things they are rightly designed from a working standpoint too. In Britain's biggest self-contained low-tension switchgear factory, MEM go to great lengths to build long years of reliability into them. Every part—metal, plastic, even porcelain, is MEM made and production is so efficient that the prices are surprisingly low.



Send for folder No. 293 for full details of the range—
one and two way, 5 amps, 250 volts surface, semi-recessed and
flush mounting—also flush plates and wood and iron boxes.

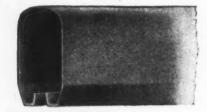
MIDLAND ELECTRIC MANUFACTURING CO. LTD. BIRMINGHAM II

Branches in London and Manchester

The Facilities KING Behind SLIDING DOOR GEAR



The BRACKET



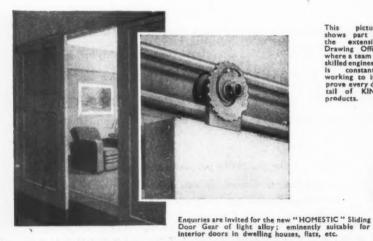
theTRACK





KING Sliding Door Gear, both in design and performance, is the best obtainable. Fine production facilities help to make this appliance outstanding. Above photograph shows Geo. W. King's modern factory in the new satellite town of Stevenage. The buildings cover an area of over 127,000 sq. ft. and surrounding land of 75 acres has been acquired for future development. Up-to-the-minute methods and organisation ensure efficient and economical production which is reflected in the quality of KING Products. Photograph on right shows a small section of the large Machine Shop at the Stevenage factory. Up to date plant and efficient layout ensure accurate and expeditious work.





This picture shows part of the extensive Drawing Office where a team of skilled engineers is constantly working to improve every detail of KING products.



Photograph on right Photograph on right shows a corner of the Research Labor-atory where a con-stant check is kept on all the raw materials used in the factory and a care-ful scrutiny made of all new materials and processes.



WRITE FOR ILLUSTRATED BOOKLETS

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

Progress in the use of ALUMINEX Extruded Glazing Sections for Roof and Sidewall Construction

Marked progress is being made in the use of factory-made aluminium sections for roof and sidewall glazing. At one time this form of glazing was considered of minor importance. Today, possibly due to the generally increased recognition of the uses of aluminium there is a system of patent glazing, Aluminex, which is actually in its own right, a method of construction. This is especially true in the building of sidewalls where maximum light is required.

Recent examples of the use of Aluminex as an integral part of the structure are to be seen in the Brabazon hangar at Filton.

Here the north wall consists in the main of a glazed stretch measuring $1,052' \times 50'$. It is said to be the biggest composite plate glass window in the world. The construction of this "glass wall" is of Aluminex single glazing throughout. The profiles of the aluminium alloy sections are one of the standard patent types at present in use and the method of application does not depart from normal Aluminex practice, despite the size of the light, and the strength of wind pressure it has to withstand.

It is significant that the structure of this window consists entirely of slim aluminium alloy glazing bars to which are clipped panes of glass. The clipping device used is a continuous rolled cover strip of aluminium alloy which is inserted between the surface of the panes and a retaining rib on the glazing bars. The glass is held in place securely without the aid of putty, screws, cord seatings or flashings and no iron core or lead sheathing is used in any part of the Aluminex system.

The development of double glazing

The Aluminex system also includes two forms of double glazing, both of which give a high degree of insulation and freedom from internal condensation. The sealed double glazing is naturally of the highest thermal efficiency. A series of tests made recently established that this method retained 90% of room heat in conditions in which walls of more conventional materials retained only 68%.

In similar circumstances Aluminex double glazing with still air retained between the panes conserved 75% of the room heat.

The specifications of a system of roof and sidewall construction with such varied applications as these are of more than ordinary interest. The following are some brief indications:

Composition and form of Aluminex sections

The Aluminex sections and fittings are of an alloy of aluminium, silicon and magnesium providing great strength with a high resistance to corrosion. The composition of the alloy has received great attention because it is considered to be the most important factor in the resistance to corrosion in aluminium work, the various forms of surface anodizing and laquering being secondary. Each section includes a main web with ribs on each side to hold the continuous glazing cover strip, ribs to serve as anti-capillary stops for the glass and supporting flanges to receive the weight of the glass. There are further flanges to form drainage and condensation channels. Aluminex roof glazing bars are produced in standard sizes for spans 6' 2", 7' 8", and 10' 8". The sections for sidewall glazing are similar but the method of application is determined in accordance requirements of the building. with the

The design of the continuous cover strip

The cover strip is a rolled springy strip of aluminium alloy which fits between the top rib of the glazing bar and the pane of

This is the
Aluminex glozing
bar. It is shown
with one pane of
glass secured in
position by means
of the glazing
cover strip. The
bar is of extruded
aluminium alloy,
and the cover strip
is rolled
aluminium alloy.

glass. Its design is determined by the direction of the various forces and their reactions so that it holds the glass or solid panel firmly in place yet remains sufficiently resilient to absorb shocks and vibrations and to permit thermal movements. No screws, clips or other fixings are required. Experience has shown it to be completely weatherproof without additional safeguards such as cord seatings or flashings.

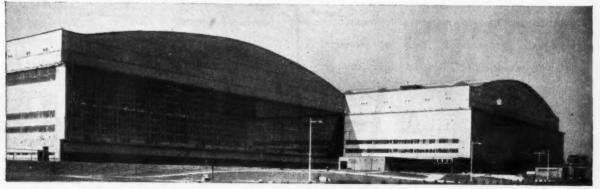
No maintenance required in normal conditions

When exposed to normal atmospheric conditions, a fine film forms on the surface of all exposed aluminium work in a comparatively short time. Thereafter this film completely protects the metal. Hence the Aluminex roof and sidewall glazing needs no protection and no maintenance either internally or externally. The durability of aluminium is now amply demonstrated by the good condition of the metal used on buildings over the last fifty years in this country and abroad.

In the hands of an architect of imagination this new, yet accepted form of construction has exciting possibilities, particularly in the treatment of industrial and other buildings where the maximum of light is required. The Company may be counted on for enthusiastic co-operation in all such developments and invites communications from all architects who might like to discuss ideas and projects in this field.

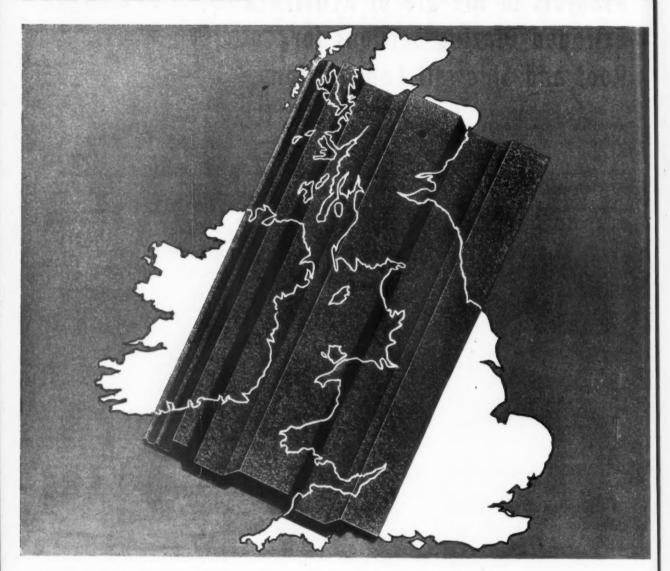
Aluminex Division of Williams & Williams Limited, Reliance Works, Chester. Telephone: Chester 3600 (7lines). Telegrams: Reliance, Chester.

Below: The window in the 1,052 ft. long north wall of the Bristol Aeroplane Company's hangar for assembling the Brabazon airliner at Filton.



Architect : Eric Ross, F.R.I.B.A. Photo by courtesy of Brian Colquinous and Partners, the Consulting Engineers,

REDLAND . . . all over Britain



The name Redland represents a nation-wide tile manufacturing organisation with works all over the country. This means something more than high speed tile production by modern methods; it means the pooling of the accumulated fruits of research, skill and long experience. Redland tiles conform

to all the acknowledged standards of accuracy endurance and economy and also please the eye of those who design and those who live in the homes of Britain.

 REDLAND TILES ARE SPECIFIED AND USED BY LOCAL AUTHORITIES THROUGHOUT GREAT BRITAIN

Redland
Roofing Tiles

See our Exhibit at the Building Centre



Selling Organisation for Redland Tiles:-

REDHILL TILE CO., LTD.

MOORHOUSE, NR. WESTERHAM, KENT

Telephone: Limpsfield Chart 3206/7



Times have changed, and the influence of a more leisured past is reflected today in a general tendency towards economical design—economical in terms of material, labour and space. EJMA Standard Kitchen Units are designed to meet the practical requirements of the *modern* kitchen. Because their dimensions bear a definite relation to each other, EJMA Standard Kitchen Units allow the designer the utmost flexibility in planning. The quality of materials and the standard of workmanship of these units are to EJMA Standard Specifications. They may be specified with complete VISIT OUR STANDAT confidence.

SPECIFY



STANDARD KITCHEN UNITS

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.



eye the

BY

TAIN

ENTRE

ET-WI

in

See our exhibit at the Inilding Exhibition, Olympia, November 17th - December 1st, 1949

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

There are always practical reasons for specifying RUBEROID ROOFING

MADAPTABILITY



Architects, Engineers and Builders are invited to write for a copy of Publication No. 326 "Standard Specifications for Ruberoid Roofs."

The complex roof structure of the Lady Lever Art Gallery at Port Sunlight presented many technical problems. Ruberoid Roofing was chosen for the work because of its ready adaptability to the special conditions imposed by the contour of the roof and its surrounds. Any failure of the roof surface could result in irreparable damage to the valuable paintings on exhibition in the Art Gallery.

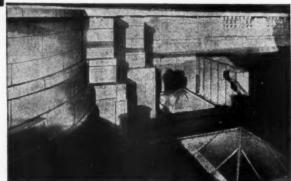
There are Standard Ruberoid Specifications designed to meet the practical requirements of any type of roof construction irrespective of shape or area. In every case the result is a permanent waterproof surface immune from deterioration in any climate.

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

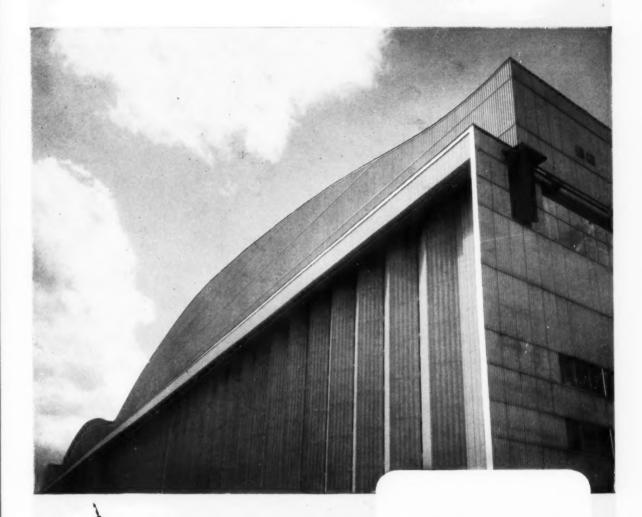


THE RUBEROID COMPANY LIMITED

1, COMMONWEALTH HOUSE, 1-19 NEW OXFORD STREET, LONDON. W.C.I



ngisəb boog ni しにまにまとっとというととと



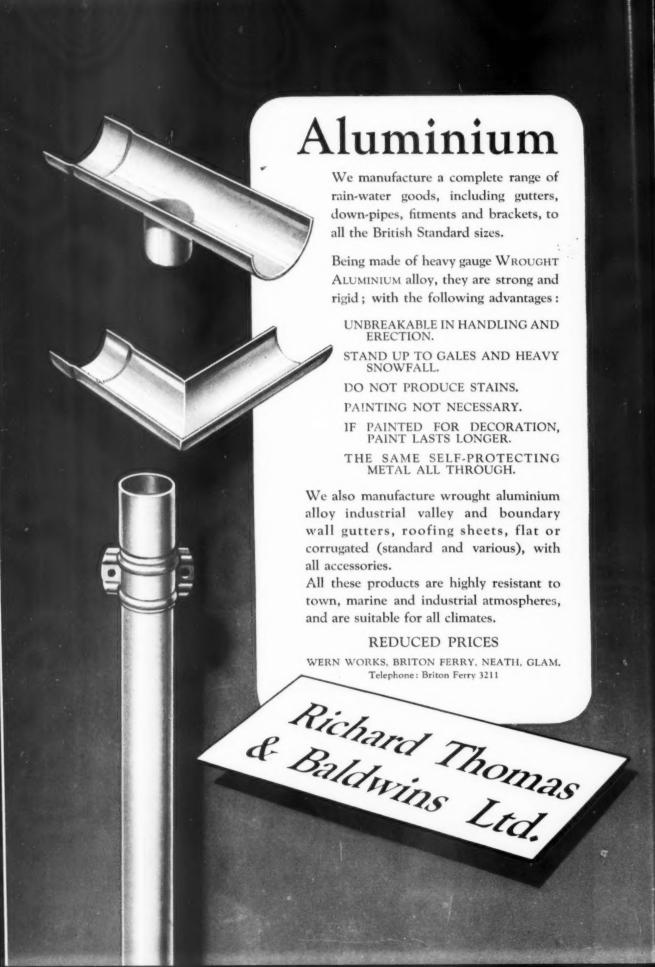
Architect: ERIC ROSS F.R.I.B.A.

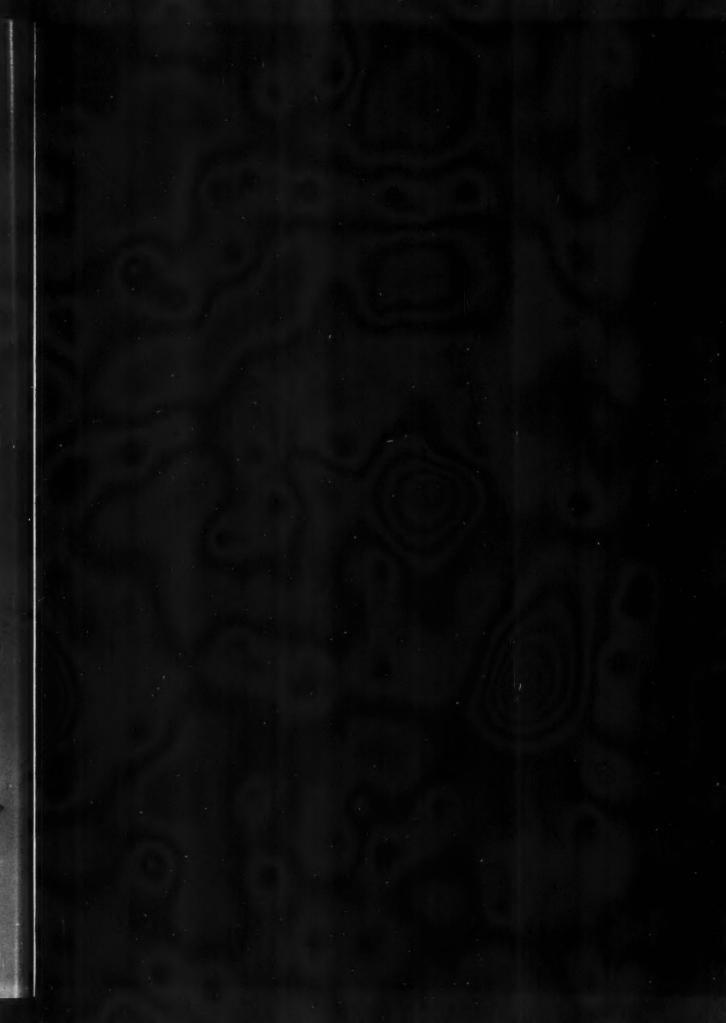
The Brabazon Assembly Hall, Filton, Bristol.

TURNERS ASBESTOS CEMENT CO LTD A MEMBER OF THE TURNER & NEWALL ORGANISATION

A MEMBER OF THE TURNER & NEWALL ORGANISATION
TRAFFORD PARK
MANCH

MANCHESTER 17





1 0 I B 6. AAd te gi (SA) 9, H C 10 M Vo To St Lo GG Je (22 Lomassus (bb lee quantity for the control of the control

In common with every other periodical, this JOURNAL is rationed to a small part of its pre-war consumption of paper. Circulation is therefore temporarily restricted but would-be subscribers are advised to have their names put on the waiting-list. Their names will then



be added to the subscription list as soon as possible. Subscription rates: by post in the U.K. or abroad, £1 15s. Od. per annum. Single copies, 9d.; post free, 11d. Special numbers are included in subscription; single copies, 1s. 6d.; post free, 1s. 9d. Back numbers more than 12 months old (when available), double price. Volumes can be bound complete with index, in cloth cases, for 17s. 6d. each; carriage 1s. extra.

DIARY FOR OCTOBER NOVEMBER AND DECEMBER

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

L ONDON. Professor J. N. Bernal. Build-ing Construction in the USSR. AA, 34, Bedford Square, W.C.1. (Sponsor, ABT). OCTOBER 19 6.30 p.m.

Institute of British Photographers' Exhibition. Commerce and Industry Section. At the Alpine Gallery, 74, South Audley Street, W.1. Weekdays, 10 a.m. to 7 p.m. UNTIL OCT. 15

Exhibition of Contemporary Graphic Art. At 15, Lisle Street, W.C.2. (Sponsor, the Artists International Association.) Week-UNTIL OCT. 18 days, 11 a.m. to 6 p.m.

Exhibition of Photographs of Italian Architecture. Buildings of historic interest photographed by Ralph Deakin. At 66, Portland Place, W.I. (Sponsor, RIBA.) Monday to Friday, 10 a.m. to 7 p.m.; Saturday, 10 a.m. to 5 p.m. UNTIL OCT. 29

Pictures for Schools Exhibition. Whitechapel Art Gallery, High Street, E.1. (Sponsor, the Society for Education in Art. Weekdays, 11 a.m.-6 p.m.; Sunday, 2 p.m.-6 p.m.

Dry Rot Exhibition. 9, Conduit Street, W.C.1. Building Centre, (Sponsor, DSIR.) UNTIL OCT. 22

Textiles and Textures Exhibition. Murray House, Petty France, S.W.1. (Sponsor, CID.) Daily, 10 a.m. to 5 p.m.; Saturdays, 10 a.m. to 12 noon. UNTIL OCT. 21

Professor C. A. Hart. The Influence of Modern Methods of Surveying on the Ad-vancement of Public Works Engineering and Town Planning. University College, Gower Street, London, W.C.1. (Chadwick Public Lectures.) 2.30 p.m. Nov. 22

COMPETITIONS

New Civic Hall at Guildford. Promoters: Guildford Corporation. Assessor: G. A. Jellicoe, F.R.I.B.A. Premiums: (1) £1,000. Guildford Corporation. Assessor: G. A. Jellicoe, F.R.I.B.A. Premiums: (1) £1,000. (2) £500. (3) £250. Site: Firs Estate, London Road, Guildford. The promoters require a design for (a) a large assembly hall, to seat 1,200 persons, to be used for civic and concert purposes, and (b) a small hall, to seat 500 persons, for lectures with an alternative use as a banqueting hall. The halls are to be designed for use separately or together for one

function, with ancillary accommodation which includes refreshment rooms and kitchen; lounges; cloakrooms and lavatories; dressing rooms; offices for officials and the caretaker's flat. Drawings, which must be mounted on stiff board, are to be drawn to the scale of 16 feet to one inch. Enquiries must be received by the Town Clerk, Municipal Offices, Guildford, Surrey, with a deposit of £2 2s., to be paid by the competitor for conditions of entry. The last day for questions is November 15, 1949. Designs must be received by April 30, 1950. chen; lounges; cloakrooms and lavatories;

(a) Hall of Residence and (b) Site Layout at Nottingham University. Promoters: the Council of the University of Nottingham. Council of the University of Nottingham. Assessor: Sir Percy Thomas. Premiums: (1) £1,000; (2) £750; (3) £500. Section (a) is a design for a hall of residence for 150 women students. The promoters will proceed with the scheme as set out by the winning competitor. Section (b) is a layout of the whole site for four halls of residence. The promoters reserve the right to adopt or modify this scheme, or not to proceed with it. Enquiries must be received by the Registrar, the University, Nottingham, by November 1, 1949. A deposit of £2 2s. must be paid by the competitor for conditions of entry. Designs must be received by March 11, 1950.

Competition for designs for interior treatment of two saloon bars and two public bars. (Sponsor, The Architectural Press Ltd.) Prizes: (1) £500; (2) £250; (3) £100. Assessors: Hugh Casson; J. S. Eagles; R. Furneaux Jordan; E. B. Musman; and J. M. Richards (representing the editors of The Architectural Review). Questions must be addressed to "Pub Competition Questions J. M. Richards (representing the editors of The Architectural Review). Questions must be addressed to "Pub Competition Ques-tions," The Architectural Press Ltd., 9-13, Queen Anne's Gate, S.W.1, and must be received by November 15. Designs must be received by mid-day, February 28, 1950.

Festival of Britain Competition. "Vertical Feature" competition. This will be the dominant vertical element in the exhibition. It may be completely abstract in conception or related to the theme of the exhibition of the second bition. Height should relate to adjoining buildings. Overall area of site is 40 ft. square, excluding surrounding promenade area which may be used for guying. Steel and timber employed should be restricted to and timber employed should be restricted to a minimum. Assessors: Presentation Panel of the Festival of Britain. Premiums: First prize, £300; second prize, £150; third prize, £100. Further fees will be payable for pre-paration of detailed working drawings if prize-winning design is constructed.

	Vol.	110
		391
Hall		392
g Article		393
d Topics		394
		395
heatre		396
t, Shored	itch	397
tutions		398
		401
ey Aver	nue,	
		405
s		411
•		
ith Con- ent Nos. 518) Enamel	1	face e 412
	Hall g Article d Topics heatre et, Shored tutions hey Aver s ine Do- lith Con- lent Nos. its its Enamel	Hall Ig Article Id Topics Inheatre It, Shoreditch Itutions It are Avenue, It are Do- Ith Con- Ith

Hospitals and Health Centres: Bibliography...

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

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

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

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

Scotland is to have GREY TELEPHONE KIOSKS.

Discussions between the Royal Fine Art Commission for Scotland, the Council for the Preservation of Rural Scotland, the Department of Health, and the GPO have resulted in an agreement whereby telephone kiosks in Scottish beauty spots or places of architectural interest can in future be painted a battleship grey instead of the familiar red. As kiosks must be readily recognizable in an emergency, the glazing bars of the doors and the sides will remain Post Office red.

A TIMBER BUILDING for storage, designed by the TDA, was opened recently. This building, at Kingston Wharf, Shoreham, This building, at Kingston Wharf, Shoreham, Sussex, which is the largest industrial building constructed in timber in this country since the war, was opened by Sir Gerald Lenaton, deputy chairman of the TDA. It covers over half an acre, embodies the most up-to-date technique in design, and is an outstanding example of the use of timber to save steel required for export. Fifty-five tons of timber have done the work of 79 tons of steel, representing a saving in tonnage of over 30 per cent.



Dombey Street Flats, Holborn

Hening & Chitty, Architects

tion ing star Ch

HOPE'S STEEL DOOR FRAMES

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

From AN ARCHITECT'S Commonplace Book

AGE OF QUALITY. [From An Introduction to Georgian Architecture, by Professor A. E. Richardson. (London: Art and Technics, 1949. 25s.).] To understand a period it is necessary to inquire into causations as well as to lay siege to particular buildings. The vast range of architecture in England, embracing all progress from the restoration of the Monarchy to the period of the Regency, bears a uniform stamp of classicality. This dominant ideal is pursued by every architect, from Wren to Gibbs, from Chambers to the brothers Adam. There is a prevalent sense of quality to which they all aspire. The experiments of inventors, the imitation of exemplars, the research and criticism, are the means employed to attain perfection. These men were fortunate in their time of living. They envisioned only one type of beauty: they exploited only the precepts which were consonant with their theories: they had recourse to contemporary achievement in other countries: they transmuted and adapted every idea which appealed to their sense of symmetry. In the process the classical style became all pervading. It proved to be the mark of assay on the greatest as on the least of the buildings, exalting even minute detail to the height of talent. What is most remarkable is the universality of the style, which brought to perfection the treatment of elevations, the interiors of palaces, and the proportion of humbler dwellings. In fact, everything which formed the background of social life was simplified and made pleasant to the eye.

A BRITISH TRUST for SOC-

IAL STUDIES has been formed.
The purpose of this Trust is to encourage social research of scientific and practical importance by making small grants for partiportance by making small grants for parti-cular projects. The recipient of a grant will be expected to produce within an agreed period a paper of from 5-7,000 words set-ting out the results of the research in a way that can be understood by intelligent nontechnical readers. The material presented must be original or based on sources not readily accessible to such readers.

The papers so produced will be at the dis-position of the Trust for publication, but any payment accruing from publication will be remitted to the author of the paper. Importance is attached to the style of presen-tation, to the need for lucidity of expression and the avoidance of unnecessary technical terms or mathematical refinements. cants must submit a specimen of their writ-

ten work, published or unpublished.
Grants will not normally be made to those who can carry out the research in the course of their regular work. Grants are intended to help the free-lance investigator and those who are well placed for social observation but who would have to work up the material in their spare time. It is contemplated that, for the present, grants will be not less than £20, this being quite separate from any payment derived from publication.

Application forms for grants may be obtained (by post only) from Miss Marion Nuttall, Secretary, British Trust for Social Studies, 16 Queen Anne's Gate, London, S.W.1. The trustees are P. Sargant Florence, Charles Madge, E. A. Shils, T. S. Simey, and M. Young.

Details of a PLAN for NORTH STAFFORDSHIRE

have been made public. A comprehensive plan for the future of North Staffordshire, dealing in detail with the problems of industry, movements of population, road, rail and air transport, and open spaces, has been sent to all local authorities concerned, by the MOTCP. It is the work of Sir Patrick Abercrombie, author of the Greater London Plan, and Herbert Jackson. The plan, which was commissioned by the MOTCP, is intended to provide a general background against which local planning authorities will have to fill in the details. However, the authors have dealt at some length with one local town problem because of its general importance. This is the question of the choice of the main city centre for the region. The conclusion reached is that the best centre available could be formed by

the integration of the existing centre of Stoke with that of Hanley.

Unlike the West Midlands, the region is not thought likely to attract any substantial number of immigrants in the near future, and the extincted force. future, and the estimated figure for the population in 1962, which the authors accept, is that of the present population plus its natural increase.

The authors have considered various possibilities for housing the proposed overspill from Stoke, including building on the existing towns, and

either a satellite town or a new town.

In analysing industrial conditions the authors point out that the region suffered from excessive concentration of too few industries and from the dirt which these industries have generated. While emphasi-ing that a tradition of specialised services and inherited skills has been built up, they point out that this has led to a certain lack of adaptability. However, although they consider in some detail the possibilities of locating some of the main industries outside the region, they come to the con-clusion that, owing to the prohibitive costs of moving industrial premises, to advocate such a move on a large scale, however such a move on a large scale, nowever desirable it might be for better town plan-ning, "would be preposterous." But they suggest that local industries should have a channel for communicating reliably requirements to authorities.

authorities.

Transport recommendations include that for a new motorway already described in the West Midlands Plan, which would run between the West Midlands and Lancashire and pass close to the west of Newcastle-under-Lyme. A by-pass for Stone is also proposed. The railways and canals in the region are generally considered to be adequate, but there appears to be no suitable site for a large regional airport. An administrative proposal of some importance which the authors recommend is that there should be a Joint Planning Authority for the City of Stoke and the Borough of Newcastle, and a Joint Advisory Planning Committee representing

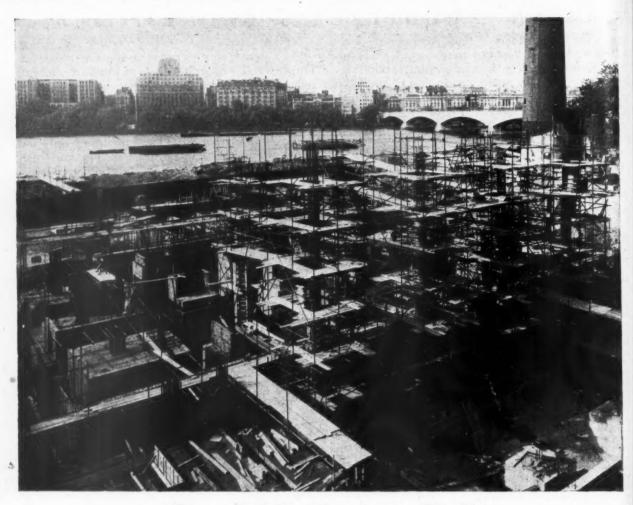
Advisory Planning Committee representing all the local authorities in the Region.

The report is extensively illustrated with

maps and diagrams and there are detailed appendices dealing with such varied subjects as mineral resources, agriculture and land use, and the provision within the region of cinemas, shops and buses.



The setting by John Bryan for Act I of the new English opera, "The Olympians," at the Royal Opera House, Covent Garden.



The LCCConcert Hall

A recent photograph showing the progress made in the construction of the LCC concert hall on the South Bank. The foundation stone of this building was laid yesterday by the Prime Minister. It was placed in the foyer of the main entrance, in the well of the main staircase and in an embrasure between two columns, where it will be visible from the staircase balcony of the main foyer, which is on a higher level. In the completed building it will be flanked by permanent flower boxes sunk in the low wall into which it is built. The stone, which is of polished black Delabole slate and bears the LCC's coat of arms, was designed and executed by Peter Morton.

Many Import LICENSING RE-STRICTIONS have been relaxed.

The President of the Board of Trade, Mr. Harold Wilson, has announced the removal or import licensing restrictions on imports into the United Kingdom of a wide range of goods from countries to which the relaxations can, in present circumstances, be applied without involving risk of loss of gold or dollars. of import licensing restrictions on imports

The relaxations take the form of the issue of Open General Licences, valid, with certain exceptions, as from October 5.

The United Kingdom contribution to this

movement towards freer trade covers a very wide range of goods at present imported on private account. These include mineral products and metals, including various unwrought metals, ores and concentrates, pig ifon, silex blocks, roofing slates, etc.; machinery for making a great many things (such as bricks, cables and ropes, and cement), together with certain stone-working and roadmaking plant: metal manufactures, including making plant; metal manufactures, including domestic baths, sinks, wash basins and cis-terns of iron and steel, steam boilers, castings, and metal furniture. Pulp paper and

board (other than newsprint and insulation board) and paper and board products will be added to the list as from April 1, 1950.

Proposals for CO-ORDINATION of LONDON PLANNING have been published by HMSO.

These proposals are made in the report of a committee which was set up under the chairmanship of Mr. Clement Davies to advise on the best methods of giving effect to a Regional Plan for London. When the committee was appointed, there were 145 separate authorities concerned with planning in and near London. Although by the Town and Country Planning Act, 1947, the Town and Country Planning Act, 1947, the number of planning authorities was reduced to 12, the committee is of the opinion that the problem of securing coordinated implementation of the Plan still remains, and sets out in its report those matters which call for action on a regional basis. These cover planning survey and research, the adjustment of target populations, the preservation of the Green Belt tions, the preservation of the Green Belt,

road and railway plans and programmes, the distribution and balance of industry, the distribution of major development projects such as housing, airfields, schools, power station, etc., mineral workings, and the determination of regional programmes and priorities.

The long-term proposal of the committee is the establishment of a regional authority possessing powers both of supervision and of direction and finance. As an interim measure, however, two separate recommendations are made, one by a majority of the committee and the other by a minority. The majority proposes a regional advisory committee set up under the 1947 Act, with committee set up under the 1947 Act, with an independent chairman appointed by the Minister of Town and Country Planning. The minority view is that such an advisory committee would be ineffective and that, instead, there should be a Joint Planning Board, also set up under the 1947 Act, which would become the Local Planning Authority for the whole of the Greater London area. The report, entitled "The Report of the London Planning Administration Committee," has been published by HMSO, price 1s. 6d.

HMSO, price 1s. 6d.

MURALS BY JOHN PIPER are to be installed in the British Embassy at Rio de Janeiro. These paintings, which were completed this week and delivered to the Ministry of Works may be exhibited to the public in London before they are dispatched to Brazil. They consist of five panels, each nearly 7 ft. high and 5 ft. wide. They are painted on canvas and will be set into the panelled walls of the room. The subject depicted is English Regency architecture.

The DSIR has published its ANNUAL REPORT.

Ten years of development in industrial science is reviewed in this publication, "Report for the Year 1947-48," published by HMSO, price 2s. (by post 2s. 2d.). A brief history of the Department gives a background to the details of policy decisions and the reasons for them. The following is part of a statement issued by the DSIR in connection with this report.

of a statement issued by the DSIR in connection with this report.

"The Report covers the change to war conditions and briefly outlines the researches undertaken by the DSIR during the war, including the British work on the atomic bomb. The decision to keep the DSIR Stations and the Research Associations in being as teams paid most handsomely after the war as well as being of value during the war itself. The use of the phrase a scientists' war' is deplored. The truth is that, to a greater extent than ever before the scientist and the fighting man worked together to achieve victory.

"Even when the war was at its height the Department was planning for the peace, though in some minds the outcome of the war itself was uncertain. The plans then evolved have in most cases since been translated into deeds. The method employed in the survey of research was to ascertain what research was necessary and could be accomplished and then to work out the requirements of staff, buildings and equipment.

"Perhaps the pages of most general interest will be those dealing with the Research Association movement. The origin and early history of the movement are briefly mentioned as a preliminary to an account of searching examinations conducted by the Industrial Grants Committee in 1943 and again at later dates.

"The position of Development Councils in industry is also mentioned and the report states that contributions made to a Research Association either by a Development Council or as proceeds of an industrial levy will be regarded as grant-earning industrial income. With regard to the Nationalized Industries it is hoped that 'Board will take advantage of existing organizations.'

"In the last paragraphs a note of warning is sounded. The chief factors limiting the development of the Department's plans have been shortage of staff and lack of suitable buildings. In consequence the Department must leave undone many projects which are worthy of attention and these, in general, are investigations of longer range. It has had to be the policy of the Department to concentrate its efforts on short term investigations of obvious utility and on advisory work, using its stock of knowledge at the expense of longer range and more fundamental researches. But it is from such fundamental researches that the day-to-day information will be drawn a few years hence. The major problem of policy is the balancing of the need for giving assistance on problems of immediate and pressing importance and the need for providing the basis for more far-reaching advances in industrial technique and practice on which the continued prosperity of the country must ultimately depend."

APPRENTICES IN THE BUILDING INDUSTRY

E MPLOYERS in the building industry have for some time been concerned by the shortage of apprentices. Every year some 22,000 craftsmen retire, die, or for one reason or another leave the industry, and the present annual intake of boys is far below the number required to replace them. Two years ago the annual rate dropped from about 20,000 boys a year to a little more than 13,000. No doubt this fall was due to a great extent to the raising of the school leaving age. The current figure, so far as can be ascertained, is approximately 20,000 again, but this figure is still not large enough for replacement.

The reasons for the shortage are twofold. There is an enormous unsatisfied demand for building, both from the private householder and from industrialists, so that a competent craftsman, in these days of full employment, should be certain of an adequate living for many years to come. But whenever the national economy demands cuts in capital expenditure the building industry is always mentioned as the most appropriate victim, and the parents who do not wish their children to join the black coated trades at least try to

choose a fairly stable industry.

The other main reason is that there is a lack of suitable work on which the boys can be trained. The Building Apprenticeship Training Council has done a great deal of useful work, and the Apprentice Master scheme has trained a number of boys, but to what degree of skill? When a boy signs normal apprenticeship indentures he agrees to work for a comparatively small wage for five years, and in return for this his employer undertakes that, at the end of his time, he will have turned the boy into a fully trained craftsman; but at the moment it is impossible for the most conscientious employer to do so. For example, a bricklayer should be able to carry out a rubbed brick arch, and a painter should be capable of graining, marbling and signwriting. Yet few bricklayer apprentices can be given anything more elaborate to do than the laying of simple bonds to perpends, while painters are confined to simple interior or exterior work. In short, it is no great exaggeration to say that, with the work at present available, an intelligent boy can learn all that the average builder is able to teach him in about two, or at the most three, years, and at the end of his indentures will probably be very much less than the skilled craftsman which he had every right to expect he would become. Moreover, in some trades, like that of mason, the supply of apprentices is so far below the rate required for replacement that it seems more than possible that they may become virtually extinct in a decade or so, and this in spite of the encouragement which the MOW now gives to the use of stone for housing in districts where it is a traditional material.

which it will e low blished arms,

ammes, try, the projects power and the nes and

on and

interim recomority of inority, dvisory ct, with by the lanning, dvisory d that, Planning 47 Act,

Greater The

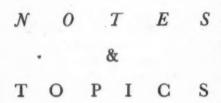
ninistra-

hed by

It may seem that the supply of craftsmen is more the concern of the building trade employer than of the architect, but the industry, like peace, is indivisible. We are now training more young architects than ever before: are they to be taught to design buildings to be built by craftsmen or by semi-skilled labour?



The Architects' Journal
9, 11 and 13, Queen Anne's Gate, Westminster, S.W.1
Phone: Whitehall 0611



RADIOLYMPIA AWARDS

The radio show is over at Olympia and I now present my design awards. Stands: First prize jointly to Robin Day's job for Ekco, and to Associated Designers' (mainly Eden Minns, once an AA student) job for Murphy. Second prize to the BBC stand with its gigantic mural, gay with flags, painted by Henrion. Consolation prizes to Philips, Ediswan and GEC.

Generally, stand designs were undistinguished, though the organizers had a good practical, if not exactly beautiful, idea of sticking up tall metal rods at a corner of each stand, wired together for support, and each bearing the manufacturer's name on a yellow burgee at the top-most helpful in finding one's way about. Only the Murphy stand was subtle enough to incorporate its flagstaffs in the design as a whole. This stand, indeed, had several subtle ideasnotably the use of specially designed, intricate floral frames for notices in the form of photostats of varying tones to suit particular exhibits.

These not only provided a baroque foil to the simple structure but brought one down to a suitably homely scale. Another idea was the spraying of soft false shadows behind and at the sides of the exhibits which stood near the edge of the stands in order to lead the eye inwards.

As to the sets themselves, first prize also to Murphy for a consistently high standard in all its models. I thought their new radio set, A146C, the so-called Baffle Console, by Associated Designers, the most characterful in the whole Exhibition. The only thing to criticize here is the use of that glittering and unsympathetic colourless cellulose as a finish. But Mr. Minns expresses the view that most people want it badly.

Second prizes for radio cabinet design jointly to Decca and Ekco -to Decca chiefly for its portable sets and to Ekco for its famous little "Radiotime" and its "Princess" portable, both designed by Wells Coates some two years ago, and still going strong. I found the new Ekco television set by Coates rather disappointing, though they say it is selling very well. It seems to lack the sensitive Coates touch, especially when open, and it seemed to me that the light birds-eye maple front tends to disturb the viewing eye. Consolation prizes to HMV and Pye, and a special prize to Imhof for their standard handles and industrial metal cases.

On the whole, radio design has improved enormously. According to one representative 1 talked to at Olympia, the public now wants simple unaffected models and will take nothing else. It would be interesting to be able to discover to what extent this is due to propaganda forces like the CID.

JAROMIR KREJCAR

I was very sorry to learn of the death of Prof. Jaromir Krejcar on October 5. Krejcar, well known to members of CIAM, left Czechoslovakia last year and joined the staff at the AA School. He was born in 1895, and after working as a bricklayer, he was trained as a builder. Following two years' experience as a building engineer, Prof. Kreicar worked under Prof. Gocar at the Academy of Fine Arts in Prague. In 1925, he set up his own office. Among other important buildings designed by Kreicar is the Czechoslovak Pavilion for the Paris Exhibition of 1937 for which he received two "Grand Prix." His most recent work was the design for the new Lidice which won him first prize in the national competitions. He was also for a short time Professor at the University of Brno.

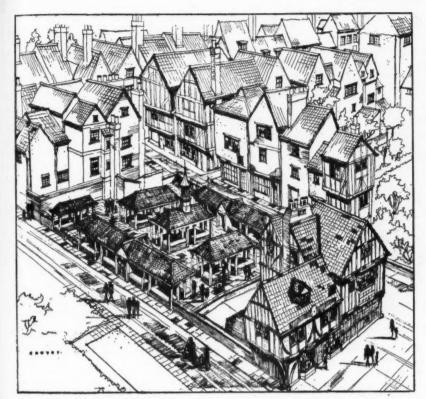
His untimely death will be greatly regretted by his students and all those architects who came in contact with him as the representative of the architects of his country on international bodies. He will be remembered as one of the group of distinguished Czech architects, including Havlicek, Honzik and Bohuslav Fuchs, who played a great part in developing a contemporary architecture between the war.

TO ITALY BY PROXY

Readers who studied the specimens printed in last week's JOURNAL of Mr.



Astragal's choice of the new sets at Radiolympia. (See comments on this page).



A modern mediaval market for York. (See Astragal's comment below).

Ralph Deakin's photographs of Italy will have been prepared for the very high standard reached in the exhibition of nearly four hundred of his photographs which opened last Thursday at the RIBA. It is a fascinating show, and it is no reflection on the usefulness of the more utilitarian type of RIBA exhibition to say that it is a delightful change to see the walls covered by pictures simply chosen because they, or their subjects, are beautiful to look at—and generally both.

death

ber 5

rs of

year

chool.

work-

ained

Prof. car at ague.

office.

gs de-

lovak

on of

Grand

is the

won

npeti-

time

ly re-

those

h him

cts of

s. He

group

ts, in-

nuslav

in de-

ecture

imens

f Mr.

Radi-

bage).

no.

The hanging committee (Messrs. Enthoven and Westwood) has done a good job, arranging the photographs geographically (with a key map for each region) without sacrificing pictorial contrast. Architects who know Italy already and those who rely on such exhibitions to teach them something about it will feel indebted to Mr. Deakin, for whose beautiful studies it seems monstrous to use the term "holiday snaps," though that is what I am assured they are.

1951 SHAMBLES

My title does not refer to the excava-

tions and foundations now going on, on the South Bank, but to the scheme designed by the City Engineer's Department for a covered market at York.

The market, we are told, "is to be of mediæval design similar to the one at Bruges," in buff brickwork and roofed with brown pantiles. The general effect is only too clearly visible in the drawing reproduced above. It is planned that the new market shall be completed for the 1951 Festival, but it seems that the present stall-holders in the existing street market are not entirely in favour of being moved from their present pitches even for the advantage of being able to imagine themselves in Bruges. The new scheme—topped with its spire and clock-is part of a general development scheme for the area of York known as the Shambles. It is to be hoped that the City Engineer will provide some variety by seeking inspiration from Haarlem, Rothenburg, Venice and Ljublana.

COMPETITIONS AGAIN

It is quite like old times. For the first time since the war there are a number of important architectural competitions for those seeking a short cut to fame to choose from: Nottingham University, Guildford Civic Hall, the South Bank (1951) restaurant and vertical feature—and now the *Architectural Review's* pub interiors. It will be interesting to see whether the number of entries is enlarged or restricted by the present-day difficulties of running an office.

In some ways the Review's pub competition* is in a different category from the others, because they are for buildings to go up as soon as circumstances allow, whereas it is what is called a "paper" competition—though it is hoped, I understand, to erect the winning design at the Brewers' Exhibition at Olympia. Yet in one sense the winner of the Review's competition will be the biggest gainer of all. Among brewers he will be a marked man, for the brewers are not only backing the competition, but watching it closely. And when pub building begins again-and there is a lot of wartime leeway to make up-I would not be surprised if he became a very busy man indeed.

ASTRAGAL

LETTERS

G. B. J. Athor

" Desdichado"

Architects Registration Act,

SIR,—Mr. Howitt's letter is redolent of the red herring. He carefully side-steps the subject of my letter in the JOURNAL of September 22 (which, let me remind him, had reference to the legal use of the word "Architect") and attempts to make the issue a political one between the professional bodies. If I am to cross swords with a protagonist of another body I should prefer to do so with one who can speak with authority and a full knowledge of the facts.

I defy any sane and reasonable reader to peruse my letter and say that I am pursuing a sectional interest. Let Mr. Howitt stick to the points in my letter (contend them if he can) and not invent and chase irrelevancies.

Since he drags in the name of the IAAS I would remind him that architect members are described as "Corporate Architects" and not "Incorporated Architects" as stated by him.

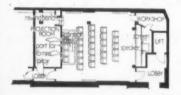
All details in the October number, or separately from the Architectural Press,

PREVIEW THEATRE



A private theatre used for preview purposes must be designed to provide an atmosphere in which no intruding factor enters; one which enables cool judgment to be exercised in the making of decisions regarding the shape that the film, while in the making, shall assume. These were considerations which determined the design, equipment and decorations of the theatre illustrated here, designed by George Coles, F.R.I.B.A., for Granada Theatres, Ltd., at their headquarters in Golden Square,

W.I. The point of focus in such a building is, of course, the screen, and for this reason the design is simple. The colour scheme of shades of grey has helped to provide the desired effect. Seating is of the arm-chair type, the coverings carrying out the grey colour scheme. Lighting is indirect by means of trough fittings containing modern strip-lighting units, the trough being fitted to beams near the ceiling and the resultant illumination giving a pleasant diffused glow. The theatre is centrally heated and ventilated. Acoustic treatment is provided by absorbent tiles fixed to the walls, while plastic tiles, strengthened by the addition of liquid cement, bedded on a glass fibre quilt is used for the floor. Double glazing with optical glass is used in each of the portholes as a further precaution against noise.





I cannot answer for the so-called "alternative" bodies, but I can say that the membership of the IAAS has increased progressively throughout its existence—numbers have never gone back—and it is still very much on the up grade.

I am a member of the Architects' Registration Council and the Board of Architectural Education, and I would refer Mr. Howitt to the reports of the meetings of these statutory bodies. In such reports Mr. these statutory bodies. In such reports Mr. Howitt will find the answers to his specific questions. But so far as my previous letter is concerned, on which Mr. Howitt raises such a pother, I suggest that the best use he can make of any space you may courteously accord him is to reply to the points at issue, as raised in the letters of Mr. H. Meyer and myself.

Westminster

G. B. J. ATHOE

Ministry of Works

SIR,—So some senior architects in Abell House "refute" my letter! What am I supposed to do? Burst into tears? Every point I made in my letter can be supported by recorded facts, and will not be disposed of by these gentlemen beating their chests and shouting "We refute it."

It is interesting to note that the writers work in the centre of the "hierarchy" and work in the centre of the hierarchy and are sufficiently high in it to bring them within the ranks of those to whom some of my criticisms apply. Their proud statement that they wrote without securing the consent of the "hierarchy" is, I assume. intended as a blow against my criticisms of the lack of democracy in the department; since they only expressed unqualified ap-proval of the set-up in which they themselves are active participants, I cannot think they ran much risk either by writing or by signing their letter.

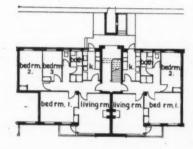
Their inability even to understand what I meant is shown by their comment on the Annual Report system—that it must be all right because the Staff Associations agreed This, besides being entirely irrelevant. merely demonstrates that the Associations themselves do not understand the meaning of democracy and suffer from the recognized disabilities of "company unions."

Their remarks about the evolution of designs merely show complacency as to the standard of work produced and abysmal ignorance of the department's activities outside Abell House. This letter, however, has more serious implications. I do not know the writers—maybe they are the only members of the department who really believe what they say. It is, none the less, a fact that I have never met a civil servant, either in this department or others, who did either in this department or others, who did not freely utter some or other of the criticisms contained in my letter (and this was far from comprehensive). But none will lift a finger to fight the abuses and inefficiency of which they all complain; the lower ranks because no machinery exists. and they dare not open their mouths anyway, the higher ranks because establishment and higher salaries, combined with immunity from criticism, produces acquiescence and complacency. The public never learns the truth because the criticisms so freely handled about between civil servants. freely bandied about between civil servants are always hotly denied when uttered by an outsider. This is a fatuous and phoney loyalty to an organization instead of to the community which that organization is supposed to serve, which is the inevitable outcome of precisely the state of affairs criticized. Government service and public service are commonly spoken of as if they were synonymous, but there is a gulf were synonymous, but there is a gulf between them, and the civil servant under present conditions is, first of all, a Government servant.

STREET, EALE SHOREDITCH



Above, south elevation of the flats. All living rooms are on this main elevation, while bathrooms, kitchens, etc., are at the rear. Bottom, the public house which is incorporated in the block. Bottom, right, detail of private balconies to living rooms. Rear balcomies are also provided. These serve two flats and give access to a refuse shute hopper.





This block of flats, known as Crofts House, at Dinmont Estate, Teale Street, Shoreditch, was designed for the LCC by Cyril H. Walker, Director of Housing and Valuer, and G. E. Bright. A major consideration was the incorporation of the "Prince of Wales" public house at the south-west corner of the building to replace the destroyed premises, previously on the south side of Teale Street. The block of 27 flats is constructed of 13½-in. load-bearing external walls to second floor level, and 9-in. brickwork above to roof level with reinforced concrete columns, beams and floors. Partitions are 42-in. brickwork and 2-in. crushed brick slabs. The beer cellar under the public house is constructed of 18-in. brick retaining walls with a reinforced concrete raft.

The external brickwork is of multi-red sand-faced facing bricks with projecting concrete surrounds to metal windows in timber sub-frames. The public house is faced with 12-in. by 8-in. cream glazed frost-proof tiles; all joinery to the public house is in oak natural finish and oiled. External name panels are of 1½-in. thick cream terrazzo slabs with "Crofts House" in turquoise blue. All balcony railings are

also painted turquoise blue.

All walls are plastered and distempered except those in kitchens and bathrooms, which are tiled to 5 ft. high and painted above. Living rooms and bedrooms have black egg-shell finished tile window sills. The dados and metal balustrades to staircases are painted turquoise blue. Floors are 2-in. strip pine on 2-in. by 2-in. battens fixed to concrete sub-floor.

Grates in the living rooms provide hot water to kitchens and bathrooms by means of back boilers. Electric immersion heaters are installed in the hot water cylinder in the linen cupboard for summer use. The building is provided with gas and electricity, and tenants have a choice of either for cooking. 2-kw electric fires are fixed in the first bedroom of each flat and socket outlet points elsewhere.



that ised e-

gis-chi-Mr of Mr eific ious witt the you ply the

HOE

bell n I rerv rted sed ests

ters and nem atethe me. of apem-

ink

at I the eed ant. ons ing og-

the mal outver, not nly ally ess, ant. did the this one

and the sts. nysh-

ith uiver SO nts an ney the uput-

rn-0 "

olic ulf



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

MOW

Sir Thomas Bennett

Sept. 22. Talk on EXPERIENCE IN BUILDING EXPERIMENTS given during the Tunbridge Wells Building Week.

Sir Thomas Bennett:

The Crawley New Town Corporation started life in the early part of 1947, and it has therefore had about two and a half years experience in attempting to build a town. This is, perhaps, not an inappropriate moment to relate its present position. The New Towns Act of 1946 provided for the creation of "Development" Corporations and the machinery by which New Towns should be built, and those Corporations were appointed with due regard to the personal standing and experience of individual members, and without regard to their political opinions. They have entered into office with the idea of building each town as a separate entity with its own personality, its own solution to its problems and, therefore, with the maximum amount of interest and authority. Furthermore, the Ministry of Town and Country Planning has throughout given them the utmost encouragement to act with the maximum amount of independence.

These Corporations, starting as they do as "Development" bodies, have been able to approach the builder living in the area merely on the basis of: "We are doing the practical work; this is the way we are going to do it." I am convinced that no political body could have secured the goodwill of the existing population to the extent which the present Corporation has done. In consequence, their independent character has been of immense benefit to the new town movement in general. They are, as their name implies, "Development" Corporations, and, as such, they are bound by the same Acts of Parliament, the same byelaws and rules as would apply to any private developer or private company. At first sight it might suggest that this would be a potential cause of delay—perhaps it is—but it does mean that the Development Corporation must

work in conjunction with the Planning Authority, the Ministry of Town and Country Planning, the Ministry of Health, the Treasury and Board of Trade, or other Authorities where they are concerned in its development. It must secure their goodwill; it must carry though its schemes with their concurrence, and it therefore has the effect of tying up a body of people appointed by the Government with the people who are appointed by election in a proper democratic manner. It also has the advantage that because the Development Corporation has to comply with the whole of the machinery of the building world its experience is exactly the same as that of the rest of us.

In order to secure approval for its schemes it must, at an early stage, consult all the officials, whether Local or Ministerial, who may be concerned. It must carry them out in concurrence with their proposals so that at the final stage it is as certain as one can be certain to secure their approval. Of course, you know the complications of the building machine today; there is probably no other industry in the country which is subject to so much control from three separate Ministries, and that in itself does undoubtedly give rise to delay.

THE PLANNING MACHINE

I think we would say as a Corporation (as you would say as individuals) that the machine is so complicated in some respects and it tends to be so stultifying that, if and when unemployment overtakes this country it is still as complicated, it will spell something like disaster, and we feel that it would be of very great service to the country if a Committee of the Ministry of Town and Country Planning or the Ministry of Works could take in hand the form of this machine and simplify it.

In the meantime, the Crawley Development Corporation, like the rest of us, works and has worked this machine, in spite of its defects, and it is therefore possible to say that in two years and u half it has been able to commence to build on a substantial scale.

Apart from machinery, the immediate necessity in the building of a town is to make sure that the three major services—water, sewerage, and communications—are secured. War-time experience showed that in breaking virgin soil it was impossible to make progress of any consequence unless the foundations of these three services were well laid. If they were not, then it would be impossible at any later date to use substantial quantities of materials and labour even if these were available. If these foundations are well and truly laid then at any period when an increase in production is a necessity, it will be possible, with the goodwill of the people, to speed up the construction of the town. Thus the Crawley Development Council, at a very early stage, gave its attention to the development of the services of water, sewerage and communications.

Coming firstly to the question of water,

Coming firstly to the question of water, a survey of the area showed that Crawley, like so many other districts in England, is served by a number of Water Boards, drawing water from a number of different sources, none of them able either collectively or individually to expand their resources to any substantial extent, let alone to extend them to serving a town of 50,000 people. At a very early stage, therefore, it was quite obvious that some major scheme of water development was a necessity.

An examination by the corporation's technical consultants, Messrs. Lapworth & Partners, revealed that such a scheme had been in embryo in this part of Sussex for something like 15 years. For all sorts of reasons, financial and otherwise, it had not been able to be brought into existence, but it was possible, with the advent of a new

town in the area, to start examining in real constructive detail the possibilities of the scheme, the possibilities of its extent, and the quantity of water which would be needed or which could be obtained. This examination showed that sufficient water could be drawn from the head waters of the Medway to provide storage equivalent to the needs of a population requiring 3,000,000 gallons of water per day. It was also obvious that other people would require to use a part of this water, and those other people proved to be in the Uckfield, Cuckfield and East Grinstead area. Thus any scheme developed as the result of drawing water from the Medway would be able to cover a wide area of the countryside and serve its needs and the needs of its industries for a great many years to come.

A detailed examination of this water scheme showed the necessity for the substantial provision and development of corresponding service mains and internal, so far as Crawley is concerned, normal storage reservoirs. It would take a certain amount of farm land, but by careful survey it was possible to minimize the amount of farm land which was taken and to work closely in contact with the other interests of the area, finally producing a scheme (of which at this moment full drawings exist) which can be put into operation as soon as a Water Board is formed.

Crawley, of course, in common with other new towns, is bound to carry out most of its services by the normal machinery of the country. It is empowered to become a water authority and/or sewerage authority, but it can only do so after a public enquiry has been held into the reasons for its creation and with the concurrence of the existing water authorities in the area. This process has been gone through, public enquiry has been held, and the Corporation today is a water authority. The Corporation can therefore put forward its schemes in detail. This in turn has been done and the scheme now awaits final approval by the Ministry of Health, which we expect in a week or two.

In the meantime, the Corporation has been able to meet in conference representatives of the Uckfield, Cuckfield and East Grinstead Corporations and, as soon as the decision of the Ministry is published, we confidently expect to be able to endorse the tendering which is needed prior to contract commencement. The total cost of the scheme will be of the order of £1,000,000; approximately 40 per cent, of the water produced will be used by other authorities and probably 60 per cent, by Crawley when it is in full occupation with 50,000 people.

SEWERAGE TREATMENT

The Corporation then turned its attention to sewerage treatment. It found in the Crawley area two sewerage works, both of them not particularly modern and more or less reaching the point of being overloaded. There was no possibility of substantial expansion and, in addition, many people in the Crawley area were still operating on cesspools, and so the Corporation had a sewage disposal scheme for Crawley. That scheme was duly prepared and in preparation the actual works were divided into five units, each capable of dealing with the sewerage treatment for 10.000 people and, therefore, capable of being carried out to suit the expansion of the population without wasting capital at any one stage.

As in the case of water, Crawley Corporation had to be appointed a sewerage authority and that in turn meant public inquiry, representations from local councils or private individuals and a final authority from the Ministry of Health. Crawley today is a sewerage authority able to construct sewerage works. Once it had

obtained this authority, it proceeded to complete its contract and to go to tender. The works were put in hand several months ago and are, at the present moment, making considerable progress

g in s of

tent.

This

vater

s of

alent

iring

was

re-

hose

Thus

ould

the

nany

of

rnal,

rmal

rtain

SHIT-

ount

rests

(of

xist)

soon

ther t of the

rity,

uiry

This

en-

ation ora-

and l by

pect

has

enta-

East

hed.

en-

prior

cost

with

tten-

d in

nore

sub-

nany

still

for

ared

were e of for

n of

l at

Cor-

rage in-

ncils

ority wley con-

. of

moment, making considerable progress. There can be no doubt whatever that the advent of a town in countryside of this description provides an opportunity whereby major services like water and sewerage can be upgraded to a point which is satisfactory to the whole of the inhabitants over a very wide area, and we feel here that the influence of Crawley will be felt in a most beneficial manner. We shall safeguard the water of that area, and we shall safeguard sewage disposal and we shall improve the surface water flow and thereby avoid the risk of flooding over many acres of land which has from time to time been subject to that risk. That, therefore, is the contribution so far as the countryside is concerned.

The Corporation then turned its attention to communications, which consist mainly of railways and roads. Crawley is particularly fortunate in being served by existing railway communications of a first-class order. Running through the eastern part it has the main London-Brighton line with a first-class service of express trains; running east and west it has the Horsham-East Grinstead line with sidings, a goods yard at Crawley, and a certain amount of plant ready to handle the goods. It has in the area four stations, Gatwick Airport, Three Bridges, Crawley and Ifield, and it can therefore deal with its population and its goods traffic on this present system without any expansion, and in the future, expansion will be entirely in comparison with its population.

The goods yard at Crawley can deal with the incoming goods and is capable of very reasonable expansion when the time arrives. The establishment of a site at Gatwick with a small goods yard in the north is an operation of reasonable magnitude. The Crawley road system is based upon the by-pass, which is partly constructed, and such a major thoroughfare obviously needed to be made the basis for the development of the town as a whole. The remaining roads first of all had to be planned and had to take into account construction which would begin with the construction of roads in the industrial area. At an early date Crawley let a contract for the construction of approximately three-quarters of a mile of road in the industrial area and services leading from the London Road into the hitherto undeveloped land which is to the north of the designated area of the town.

THE APPROACH ROAD

The road joins the London road at quite a conspicuous point and at this point we have designed what we think will be an impressive junction consisting of a triangle of grass, an open space with flowering shrubs and trees, and a certain amount of paved footpaths, and we hope, when facilities permit, to erect a flagstaff of some consequence in order that the whole area may be clearly known and easily approached by the motorist from London. The London Road turns into it from the south at the by-pass or the back end when the new way to Brighton is constructed. I may add that the probability, or possibility, of a new London-Brighton Road appearing to the east of Crawley was not the least of the difficulties facing the planners because quite clearly approach would be from the west and, until such time as a road was constructed, approach would be from the east, and the old story of two stools applies. It is extremely difficult to plan the two fundamental types of approach of that kind.

Roads in the factory area will be completed by the end of September or the first week in October of this year and, therefore, quite a substantial amount of factory

space will be immediately available for letting.

In addition to factories carried out by private contract and, of course, private finance, will be coupled standard factories which have been designed by the Crawley staff and which will be let on a floor space basis to people who wish to run them and who do not wish to erect their own factories. Those factories have been out to tender; the tenders have been received and we are now awaiting financial approval prior to placing the contract for the erection of them.

Crawley then turned its attention to the construction of homes. It first of all had to plan its town, then its neighbourhood units. The first neighbourhood unit to be considered was West Green, which is already very largely developed. The development tends to be sporadic, added to which are the difficulties of producing a really comprehensive plan, and the plan also to take into account the fact that West Green will impinge on the town centre.

HOUSING

The construction of housing embraced more than one problem. Apart from the mere building of houses it was desirable that as much experimentation should be made as possible of the type of house most economical to build in the neighbourhood, the type of house the public liked best, so that people could have a choice of house. Crawley architects therefore set to work many months ago and designed a considerable number of different types. I think they vary somewhat between 17 and 24. The next contract for 26 houses for which tenders have already been received will involve the building of houses of all these types. Rather to our surprise and apparently as the result of very keen tendering the price of building this small number of houses of each type appears to be no greater, indeed it might even be less, than building houses to a uniform programme on a much larger scale. Crawley will be able to show the public houses of a very considerable variety and type, all coming within the Ministry of Health Manual as far as size and finished cost is concerned, and will be able to let the public themselves judge whether any or all of them are successful.

In the first neighbourhood unit Crawley has planned a certain number of sites suitable for single houses to meet the owners' own ideas of occupation and design, and it is hoped, as soon as these roads are built, to offer these sites to the public so that any who wish may retain their architect and build a house to their own design. It is hoped as soon as possible to build houses for one or two other grades of the population so that it will have a number of different types of people among its community right from the start, apart altogether, of course, from the very wide range of types of people who live in the Crawley area at present.

It is quite clear that these schemes cannot

It is quite clear that these schemes cannot be carried out without considerable access to labour for the Crawley area. The southeast area has never had a very large supply of labour and the labour it has is spread over the country, and, prior to the war, it was largely engaged in housing or farm work, apart from those people engaged on building work in the coast towns. So Crawley turned its attention to the sources from which labour might be expected to be drawn to build the town, and it was clear that some amount of local labour could be anticipated. It was equally clear that as soon as the magnitude of the Crawley works was known that building labour would be drawn from a centre which provided them with continuous and varied work for at least fifteen years, but it was also clear the labour would have to be drawn from outside sources. There were two or three main outside sources.

was the area of London, a second was coast towns where some small amount of unemployment is believed to exist, and the third was imported labour, such as the Welsh miners I mentioned a little while ago.

So far as part of the labour is concerned. London is 25 miles away, Brighton is 25 miles away and other coast towns very little further. Wartime experience showed that a certain amount of labour can be expected to travel daily to its work; a certain amount would need to be resident. Crawley had the remains of an army camp which could house 2,000. It also realized that smaller numbers would be needed more quickly, and so it refurbished a sergeant's mess for 40 people, which proved valuable as an architects' office and is now a hostel for 40 men. It also took over from the Ministry of Works another small hostel housing about 34 people, and it has now received tenders and is on the verge of letting a contract for some 500 men.

men.

It confidently expects that a good deal of labour will move to Crawley, in due course. It is not unmindful of the labour required by the industrialists, many of whom will bring not only their good workers but a great deal of their manufacturing labour with them, and that all those people will want to be housed and will want to live in close proximity to their factories. It is indeed the economic justification of new towns that the labour and the industrialists will be so closely in contact with each other and they will, first of all, get to know each other as human beings. It will also mean that no workman or workwoman is going to be more than a matter of 5 to 15 minutes' bicycle ride from the factory, and many of them will be within a shorter distance. Labour, therefore, can avoid this frightful journey from London, under extremely adverse conditions, in order to reach its place of work. Its labour will be resident in good country surroundings and will possess the aspects of small country towns where people really know each other as human beings.

METHOD OF TENDERING

Many members of this audience may be interested in the method of tendering adopted by Crawley. Crawley has felt that the system of open tendering has many undesirable features, although it is a great political safeguard to the people who operate it. In theory, and to the mind of the layman, if you open your tenders to all and sundry and take the lowest price, you have served your community well. But a more complete knowledge of the industry shows that that method has many defects, so that we have decided that in all cases we will put an advertisement in all the local papers inviting all builders to send in their names. The number of names received by this method is sometimes very large. From that list we have made a careful selection of builders in the area, builders who have applied on more than one occasion, builders who are very keen, and if we do not know their references, we have checked them. We select a list generally of about 12 in number (and we have tenders from many people who have not been invited to tender), and when we have received these tenders, we accept the lowest from whomever it may have been submitted. All the tenders I have read out to you today, with the possible exception of the one we are negotiating to move the labour on industrial roads, have been secured by that method. If, therefore, the Federation is taking notes of this, we would like to tell its members to keep their eyes on the advertisement columns of the local press. Another hint, if I may mention it, is having received anything up to 50 or more

applications and having selected 12, we have in each case spoken to each builder and said, "Notwithstanding that you sent in your name, do you wish to tender?" We have received an affirmative reply in each case. Notwithstanding that, on the day of opening the tenders we have received twelve or more envelopes, some of which merely contain the contractors' apology. Therefore, if we are to try and help to avoid wasteful tendering, you for your part must co-operate, and where we limit our list to 12 in number, we do expect to receive 12 honest tenders, not 9 and three apologies.

The progress which has been made in these past 2½ years some of you have seen in the form of plans. Others of you have heard today something of the sort of thing that has been done. That progress has been very carefully begun, with the idea that once begun it should not be interrupted, and it stands today with its water scheme settled and its drawings complete awaiting the decision of the Ministry of Health and the appointment of a Water Board at the first meeting of which all the requests to go to tender will be laid on the table. Its sewage works are started, its trunk sewerage is half completed and the remainder is well in hand. The industrial road for three-quarters of a mile is completed, or will be so in a matter of two or three weeks, its first industrialists are signing a contract tomorrow and several others are in a very advanced stage of negotiation. Contracts for West Green are let and well in hand, the contract for the road to North Gate is on the verge of being negotiated and the roads started. Thirty-four houses are approaching completion, 14-15 are occupied, tenders for 126 houses have been submitted to the Ministry of Health and Town and Country Planning and for Treasury approval. Another 126 houses are on the verge of going to tender. The first of the factories, it is hoped, will start building during the next month or two, and Crawley feels that it has laid the foundation in a very practical way for building the town; once those services take shape, as they will in very short time, it can proceed when labour and materials are available at whatever speed the country so desires.

The total value of the contracts which have so far been let is £507,000. The value of the contracts for which we are awaiting approval, finished or otherwise at the moment, is £270,000. The value of the work on the Water Scheme for what we may well call North-East Sussex, which has to go to tender, collectively with its pipeline and other services, will amount to a further £1,000,000.

There is real work in Crawley. We believe that in the state of the country today it is laying the foundations for an extremely high standard of efficiency which alone can keep this country up to its standard of living and upon which the standing of England may well depend.

NPFA

J. W. R. Adams

Sept. 29. Paper on OPEN SPACES AND THE COUNTY DEVELOPMENT PLAN, read at a conference of the National Playing Fields Association at Caxton Hall, Westminster, S.W.1.

J. W. R. Adams: I do not share the common view that the failure of local authorities and estate developers to ensure the provision of adequate open spaces and recreation grounds, when there is failure, is due

to inadequacy of powers or even the problems of compensation and betterment. There have been many successful efforts by local authorities, some large but some quite small, to preserve downland or other areas of landscape value, to provide well designed public parks, playing fields, children's playgrounds and other recreation facilities. None knew this better than those public spirited persons who, as members and supporters, and as officers, of the National Playing Fields' Association, have done so much in this field of social welfare work.

Now I am afraid that even greater misconceptions exist about the Town and Country Planning' Act of 1947—that admittedly revolutionary statute about which there is so much difference of opinion and certain provisions of which have engendered so much heated semi-political argument. It appears to me that too many people who ought to know better, comprising both those who have political objections to the nationalisation of development rights and those who desire nationalisation of land, think that the new Act will by some magic means provide open spaces and playing fields, at little or no cost to the community, and without any effort beyond painting nice green splodges on maps.

What is the position? Apart from school playing fields there has been no change whatever in the incidence of responsibility for acquiring, laying-out and managing open spaces and recreation grounds. There has been no transfer of these functions from local government to the State, and none from one category of local authority to another.

It is true that the powers and duty to make plans has been transferred from boroughs, urban and rural districts to county councils, but the vital function of ensuring the carrying out of the development has been vested in the borough and district councils, and the responsibility of acquiring and using land for public purposes rests upon the appropriate authority. For example, the responsibility for acquiring and laying-out land for open space or recreation grounds rests precisely where it did before the 1947 Act came into force, although the duty of taking steps to ensure that adequate open space is "earmarked" and ultimately provided now rests upon the Minister of Town and Country Planning and the new local planning authorities: the administrative counties and county boroughs.

FINANCIAL LIABILITY

During the preparation of the Development Plan, the local planning authority can earmark any land for open space, but if the owner is prevented from using it for some other purpose he may require the appropriate authority to purchase it from him. So we always come down to the fundamental fact that the first thing to settle is which authority is prepared to accept financial liability in respect of the acquisition of the land to be set aside for open space purposes.

The county council may be prepared to accept primary liability for regional open space such as downlands, and for parkways, but is normally not the appropriate authority to provide other open spaces, except school playing fields, for which, of course, it is responsible as the local education authority.

The borough or urban district council must normally be prepared to accept liability for town parks, and all other public recreation facilities except school playing fields. In rural districts, the rural district council may accept responsibility for some and the parish council for other public open space and recreation grounds.

space and recreation grounds.

As to the financial position, the price to be paid for land should never be higher, and may, in many cases, be lower than it would have been before the passing of the 1947 Act. There are, of course, special rates of development charge. To quote the practice

notes:—"Development charges under the Act are to be assessed for sports grounds on the assumption of their permanent restriction for use as private grounds with ancillary small buildings. The value until more accurate information is obtained by the Board concerning actual prices paid and valuations made, will be taken as being equivalent to one quarter the value for erecting houses of the type, density, and rate of building likely on that particular site; or if physically unsuitable those prevailing in the neighbourhood. Thus, where housing value is less than 4 times agricultural value the charge will be nil. Sports grounds where money is taken or where buildings are elaborate are excluded from this basis and additional development charge will be added for elaborate pavilions or large stands.

large stands.
"The normal amount of playing fields are included in the assessment on schools and colleges which together with their playing fields are rated at housing value. The provision of playing fields for the staff of a factory will not be treated as an extension of the factory even where the ground is next door to the factory, in all cases where the playing field is capable of separate assessment."

EXEMPTION FROM DEVELOPMENT CHARGES

Furthermore it is clear that local authorities will be exempt from development charge in respect of kiosks, putting greens, tennis courts, football, hockey or other playing pitches, bowling greens, cafés and band stands, which are within and merely ancillary to a public park. In certain cases Exchequer grants may be available towards the cost of providing public open space.

So often one finds open spaces in a town provided on a generous scale, but inconveniently or badly sited and of such shapes and sizes that it is almost impossible to design them satisfactorily. At one time the art of designing and layout of parks in England was considered to require the aid of the best architectural and horticultural advisers.

During the 19th century and until recently there was a tendency to neglect park design as an art. The design of the park and the garden requires a different approach than the design of a building. It also requires special training and knowledge of landscape treatment. There has been a tendency to regard the planning of a park as one not requiring any art in design and to allow the engineer to lay out the roads and plan the walls or railings, following this with more or less skilful planting by a horticulturist having no training or instinct for artistic arrangement. Landscape design is now an important part of the training of town planners, and I hope that administrators and members of local authorities will take an increased interest in its possibilities.

The great advances in the art and profession of landscape architecture in the last fifty years in the United States and the last twenty years in England, has had a powerful influence in promoting the intelligent design of parks and playgrounds. In this country the work of the late Thomas Mawson and his son, E. Prentice Mawson, of G. A. Jellicoe, Thomas Sharp, Brenda Colvin and many others, is beginning to be rightly valued.

In thus implying that I favour the utilisation of skilled professional advice, I must make it clear that I appreciate the voluntary work done by the National Playing Fields' Association and its County Branches in relation to the siting and design of playing fields. Of course, the necessity for this advisory service will not diminish in the future, however much the use of the services of landscape architects may increase, because it is complementary to and not a substitute for the work of the professional skilled designer.



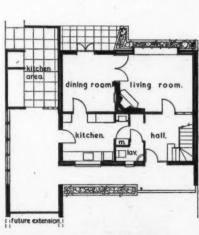
From the north.

THREE HOUSES DESIGNED

DETACHED HOUSE AT ST. ALBANS

bedroom L bedroom 2 FIRST FLOOR PLAN





GROUND FLOOR PLAN

SITE PLAN [Scale: 1 "=1'0"] [Scale: #"=1'0"]

GENERAL.-This house, which covers an area of 1,000 sq. ft., is designed to give a sense of spaciousness. This is achieved by the introduction of glazed screens and folding doors and a careful use of colour and texture. Dividing walls are arranged so that they can be moved or altered. A condition made in granting the licence was that the timber content would be kept to a minimum of 0.6 of a standard. In order that the house should have a more interesting setting, it was sited 20-ft. behind the recognized building line. This allows for future. additions. one point on the ground floor it is possible to see most of the rooms on that floor. This is a very useful feature for a household which includes young children.

K. P. ROBERTS

In order to minimize heat loss an internal chimney was placed in the centre of the house. Adjacent to this are all services and plumbing.

EXTERNAL FINISHES.—External walls are of 11-in. and 9-in. brickwork. The top half of the 11-in. wall is rendered and finished with cream colour wash, and the bottom half is of grey bricks with the horizontal joints raked

nds ntil by ing for nd lar ге-

ulrts ere om OF nd ing ro-

on is ere NT rient ns. ay nd

ely

es to me aid ral tly

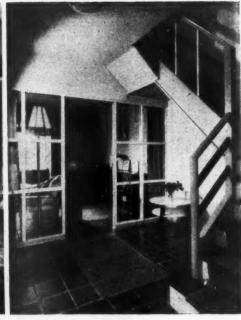
gn an res pe ot ow an ith rti-for is

siroast ful gn trv nd

nd tly ust re-

ng re, of ise ite ed





Above, the living room. Right, the entrance hall.

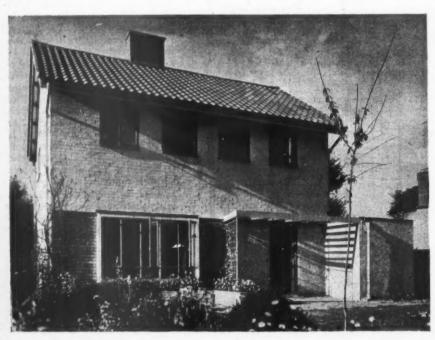
back and the vertical joints left flush. The 9-in. brickwork is rendered and has a cream finish. The roof is of dark brown pantiles, with large overhanging eaves and verges, with the rafters left showing and creosoted dark brown. The soffit board above the rafters is blue. All timber fascia boards are light stone in colour. The metal windows and doors are painted blue. Window cills are of buff quarry tiles. The canopy supports and gates are painted Venetian red, the wire mesh inset being light stone in colour.

INTERNAL FINISHES.—The internal walls are 41-in. plastered brickwork. Partitions are 21-in. plastered breeze block. Living room : The walls, which are of rough texture, are painted offwhite. The chimney breast is concave in shape, constructed in 2-in. facing bricks with the joints raked back to the full height of the room. There is a concrete surround to the fireplace, which has a black tile inset and a stainless steel surround. The hearth is of buff quarry tiles. The glazed screen is painted grey on the face

and blue on the return of the mullions. All joinery, including doors, is painted grey. The large box-type window has a concrete surround which forms a window seat and a recess for plants. The floor is finished with wood blocks. Dining room: Walls are plaster, painted yellow, and the ceiling is grey. All joinery, including doors, is painted grey. The floor finish is of wood blocks. Kitchen: Two walls are covered with built-in fitments. The rest of the walls are finished with distemper, except for a small part behind the cooker and sink, which is covered with glazed white tiles. The paint work and distemper is cream. The floor is finished with buff quarry tiles. Hall: The blue ceiling is fitted with flush lighting. The plastered walls are finished in light cream. Paintwork, including the stairs, is grey except for the treads, which are painted black. The floor is finished with 9-in. by 9-in. red concrete tiles. Bathroom: Ceiling and walls are white with white glazed tiles up to cill level. The floor is black asphalte.

The general contractors were Messrs. Leightons (Contractors) Ltd. For list of sub-contractors see page 418.

From the south.



HOUSES



2. PAIR OF HOUSES AT L U T O N

ulrs, pe

nd

a

is

ng ed y.

is

is vo in lls

pt er

th

rk or

8.

ed

ed

n.

is ch

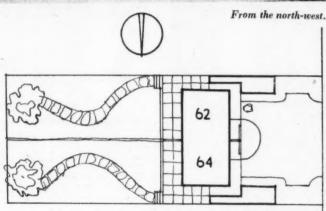
d

ıg

te

le

e



GENERAL.—The licence for the building was granted by Luton Corporation on the understanding that the timber used in construction was reduced to an absolute minimum. After completion it was found that only 0.58 had been used. The site frontage was 30 ft. 6 in., bounded on both sides by existing property. The houses were set back approximately 20-ft. behind the building line. Normal estate restrictions, together with local town planning requirements, were enforced in connection with the type of roof and materials used.

The internal planning was centralized round a single chimney. Walls and screens were arranged so that alterations to bring the rooms together to form larger areas could be effected at a later date.

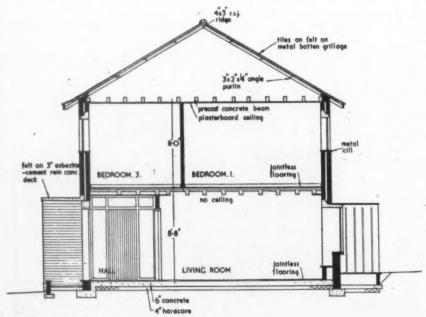
CONSTRUCTION.—The external walls are 11-in cavity, (in the front and the rear), built in grey facing



DESIGNED BY K. P. ROBERTS



The entrance to the semi-detached houses.



TYPICAL CROSS SECTION [Scale: 1"-1'0"]



FIRST FLOOR PLAN



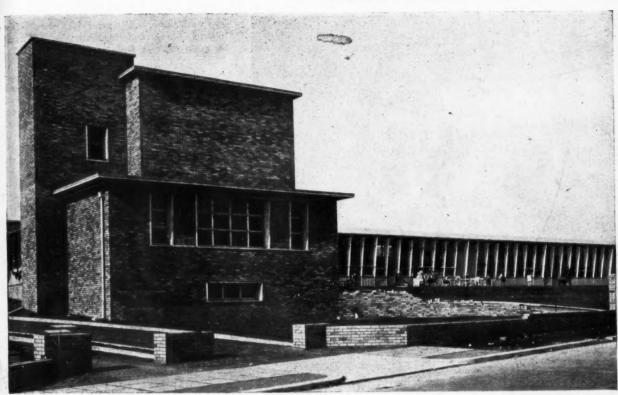
GROUND FLOOR PLAN

[Scale: #"=1'0"]

bricks with the horizontal joints raked back. The gable walls are 9-in. brickwork, rendered cream. The roof is constructed of steel angle purlins spanning between the gable walls, with a special form of grillage roof construction sup-porting the dark brown concrete interlocking tiles. The internal walls are $4\frac{1}{2}$ -in. brickwor! and 2½-in. breeze blocks with a plaster finish. The ground floor is a 6-in. concrete slab with wood block finish on the living and dining rooms, and tiles on the kitchen and hall. The first floor is constructed of light-weight precast concrete beams, with a coloured asphalte finish.

SERVICES.—Coal fires in the living and dining rooms, and coke boiler in the kitchen. Electric fires in the bedrooms.

The general contractor was Messrs. P. G. Rolt. For list of sub-contractors see page 418.



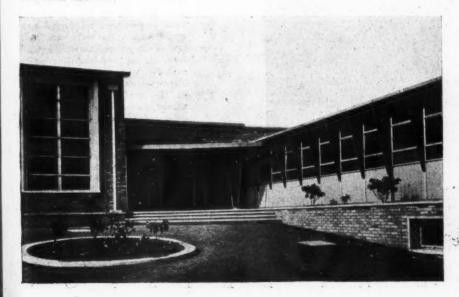
From the north.

SCHOOL AT ROMNEY AVENUE, BRISTOL

CITY ARCHITECT: J. NELSON MEREDITH

PRINCIPAL ASSISTANT ARCHITECT: S. W. WANN.
ASSISTANT ARCHITECT: R. A. AGASCAR. CONSULTANT
ARCHITECTS: RICHARD SHEPPARD AND PARTNERS

The main entrance.



GENERAL.—This school, designed for 480 pupils, is the first to be built largely of aluminium school building units. The first pupils were admitted eleven months after the starting date, classroom accommodation then being available with temporary electrical heating. Since many of the prefabricated aluminium units were made by hand it is suggested that with the mass production methods now employed, similar school accommodation could be provided in shorter time.

SITE.—The site is $9\frac{1}{2}$ acres, and will later be occupied by a separate infants' department, also to be of aluminium construction. The south-west, north-west and north-east boundaries of the school are adjacent to domestic properties by which are the principal entrances for pupils; the south-east boundary is a bus route from which vehicular traffic enters the site. There is a substantial fall in a southerly direction.

PLAN.—The rather elongated layout of the school was influenced very largely by considerations of

s are ream. steel ween form sup-

errete ternal and laster is a block lining tchen con-

the coke ectric

essrs.

sub-

oured

S







Top and centre, A typical classroom before lighting fittings had been installed. Bottom, the main entrance hall.

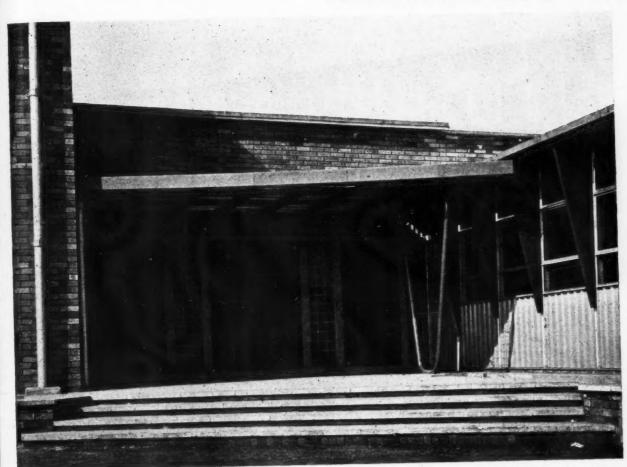
aspect, contours and the narrow width of the site, and is based upon two parallel blocks of seven and five classrooms running along the contours and facing south-east. The north-western block is several feet higher than the other and there is a view of open country from all classrooms. The focal point of the plan is the entrance hall (approached from Romney Avenue) from which run the administration and larger classroom blocks, the connecting corridor to the smaller classroom block, the assembly hall and dining halls. Each classroom has its own cloak hanging space, with seats and shoe lockers, in a recess off the corridor and opposite to the room it serves. A large store room is provided immediately adjacent to, and approached from, each classroom. General stock rooms and caretaker's utilities are spaced about the school.

CONSTRUCTION.—The entrance hall, assembly hall, dining halls, kitchen and tank tower are constructed of reinforced concrete and brickwork, all other accommodation being of the aluminium unit construction. Pitched roofs to the assembly and dining halls are constructed of aluminium decking on steel trusses and finished with built-up bitumen roofing with a green mineralized finish. Flat roofs to the other brick structures are of precast lightweight concrete beams, also finished with built-up bitumen roofing. All windows and internal doors are of aluminium to match those in the aluminium structures.

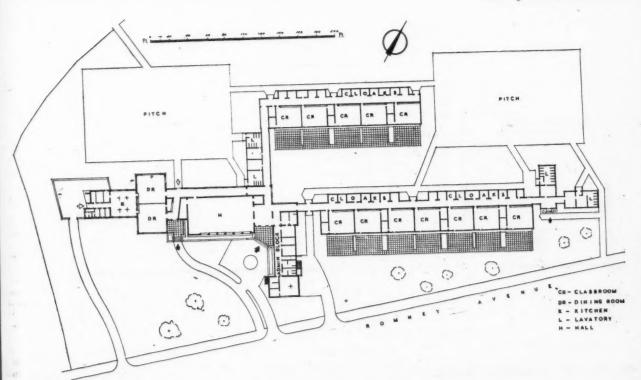
The aluminium buildings, which were erected complete at site by the manufacturers upon previously prepared reinforced concrete foundation rafts, are built up of large prefabricated wall, roof, ceiling and partition units, each 4-ft. wide and bolted together. These sections, with the exception of the roof units, which were partly assembled on site, were delivered complete with external and internal cladding and glazing, so that the only work remaining to be done after erection was the laying of floor finishes and the installation of engineering services and equipment and decoration. Each wall unit is framed by two half posts which, when bolted

(Text continued on page 410)

together at 4-ft. intervals, sustain



Detail of the main entrance.



GROUND FLOOR PLAN

BY THE CITY ARCHITECT

fore,

row ased even long east. reral here a all : of

hall nue) tion the aller hall oom ace, in a

arge ately com, tock

ance alls, concrete monium coofs halls eckshed

with
Flat
ures
crete
t-up
and
ium
ium

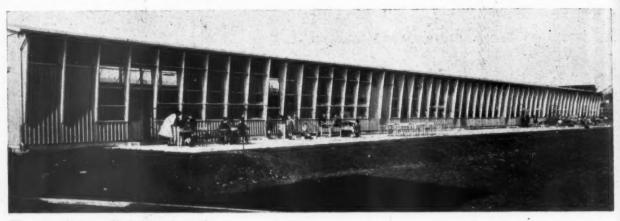
hich by preconbuilt wall, nits,

ther. etion were were ernal zing, ning

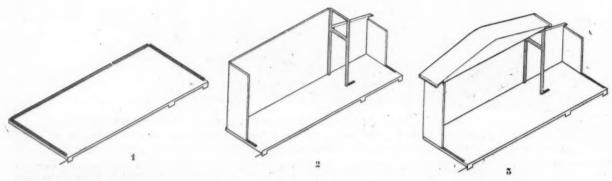
the the vices n.

lted tain

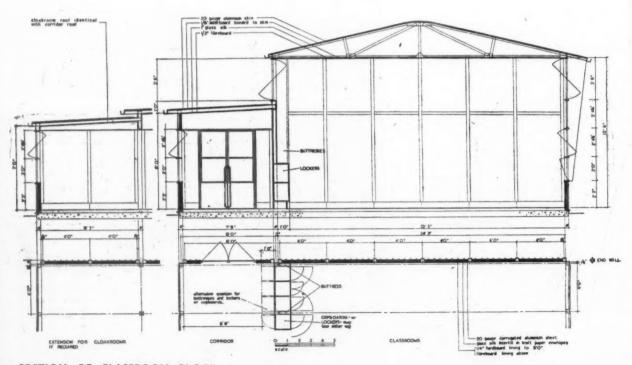
L



The main classroom block from the south.

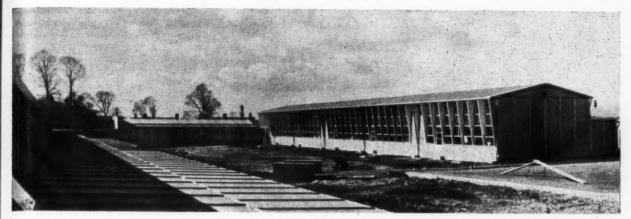


DETAILS OF ERECTION OF A TYPICAL BAY.

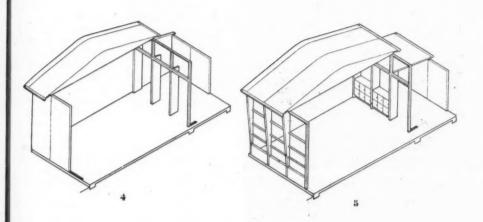


SECTION OF CLASSROOM BLOCK.

S C H O O L A T B R I S T O L

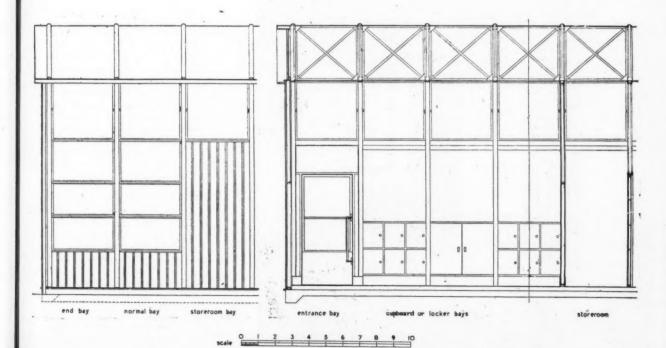


The small classroom block from the east.



KEY :

- The perimeter channel is bolted to a concrete slab.
- An end wall and one bay of side walls is erected.
- One roof unit is lifted into position and bolted down.
- Other wall panels are erected and butt recesses are fixed.
- Corridor roof panels, wind braces and locker units are fixed.



ELEVATION OF TYPICAL BAY

L

LONGITUDINAL SECTION

BY THE CITY ARCHITECT





Top, the main classroom block from the west, showing the pupils' entrance. Bottom, a typical corridor in a classroom block

(Text continued from page 406)

the vertical loading. Lateral support is given by wind braces which appear as tapered fins where fitted externally; where fitted internally between classrooms and corridors they form recesses into which cupboards may be conveniently fitted.

INTERIOR FINISHES.—Floors in classrooms, entrance hall, staff rooms, dining halls and kitchen are of composition tiles; in the assembly hall they are of wood block; and in corridors, cloakrooms and sanitary offices they are of coloured asphalte. Walls are plastered brick, with glazed cement dado in entrance hall and corridors. In the aluminium structures the wall finishes are hardboard; standard fibreboard is used in classrooms above 8-ft. high. Ceilings are of wood wool and fibreboard.

The decoration scheme is based upon light neutral colour surfaces generally, with bright contrasting colours for doors. Skirtings in the aluminium structures and all aluminium windows are left in their natural bright finish.

EXTERIOR FINISHES.—Brick structures are of golden brown wirecut facing brick with recessed joints. They have concrete window surrounds and Bath stone finish. The roofs, window frames, cills, gutters and vertical posts of the aluminium structures are of bright aluminium. Aluminium cladding is painted silver grey. Wind braces and doors are painted bright contrasting colours.

HEATING.—This is obtained by the use of low-pressure hot water radiators from gas fired boilers. The permanent heating apparatus may not become available for some months and, in the meantime, the classrooms and staffrooms only are heated by means of a temporary installation of electrically-heated radiant panels.

The general contractors were Messrs. William Cowlin and Sons, Ltd. For list of sub-contractors see page 418.

Right, the south-east elevation from the garden. Below, the north-west elevation from the main road.

from ance, room

teral aces fins here lassform may

oors staff chen the rood

hev

alls

hall

are pard B-ft.

aces ting in all

in

rick

wn

sed

low

ish.

ills.

the

ght

ing

ces

ght

by

ter

ers.

me

the

aly

iry

ted

ere

ns.

)rs

HOUSE AT ST. ALBANS

DESIGNED BY MICHAEL MEACHER

GENERAL.—The house was designed for occupation by the architect, his wife and two children, and is placed on a level site 50-ft. wide by 250-ft. long in an area scheduled for four houses to the acre. The floor area was restricted to 1,000 sq. ft., and the garage was built by the architect

himself under a supplementary licence.

PLAN.—The plan was elongated as much as possible so that all rooms face south-east, the fenestration being planned accordingly. To obtain the maximum effect of space on the ground floor, the living room and dining space are undivided. There is a 5-ft. wide hatch fitment between the kitchen and dining space, and a glass screen between the dining space and the hall.

CONSTRUCTION.—The external walls are 11 in. cavity, and the internal walls $4\frac{1}{2}$ -in. flint-lime bricks unplastered. The chimney-breast wall is constructed of sandfaced Flettons. The roof is constructed of a triple layer of felt on 2-in. wood-wool slabs, laid on 6-in. by 2-in. rafters at 2-ft. centres.

The ground floor is a 6-ft. concrete slab, and the first floor is tongue and grooved boards. The inside skin of all the cavity walls, except the kitchen and bathroom, is lined with ½-in. insulating board. The roof is insulated with 2-in. wood-wool on top of the rafters, and ½-in. fibre board beneath forming the ceiling. There is no plastering except in the bathroom and w.C.

INTERNAL FINISHES.—The kitchen floor and all internal cills are in buff concrete quarry tiles; elsewhere the ground floor is composition boarding cut into 12-in. squares and laid in hard-setting plaster on concrete. The inside skin of the external walls is faced with ½-in. insulating board nailed direct to brick joints and papered, except in the kitchen, where the inner skin is cream flint-lime





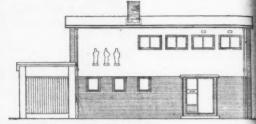
SITE PLAN [Scale 80"=1"0"]



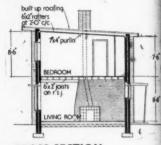




Top, the dining room, showing the hatch to the kitchen, and the glazed screen in the hall; centre, the living room; bottom, the first floor landing.



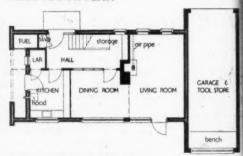
NORTH WEST ELEVATION



CROSS SECTION



FIRST FLOOR PLAN



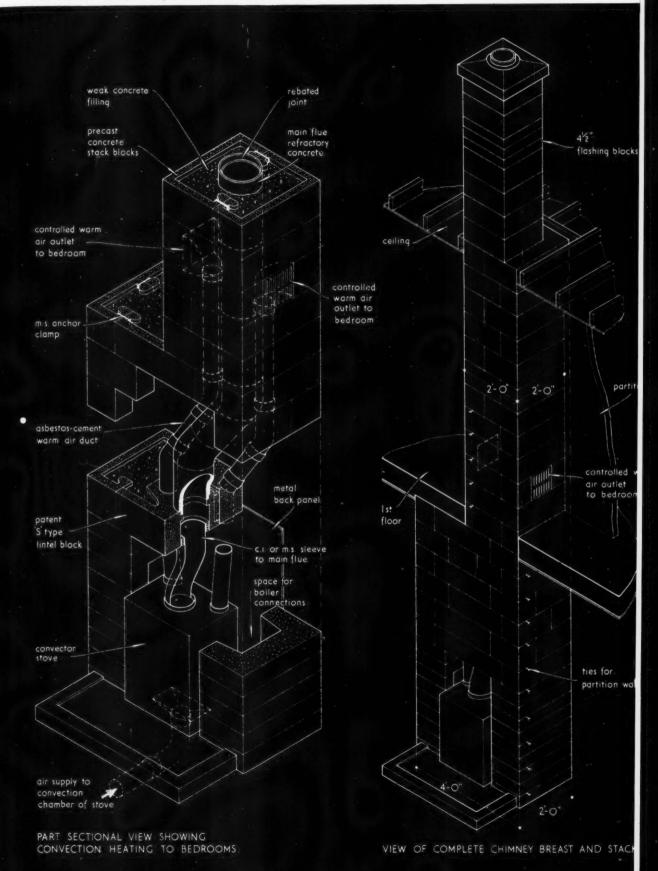
GROUND FLOOR PLAN [Scale #"=1'0"]

bricks unplastered. The stain have a cut string; open treads are painted cream with wine coloured rubber treads and white rubber nosings. A white sashcord runs through the wood handrail eyes to string. The floor to ceiling newel post is an inverted scaffold pole. Hatch and cupboard fitting between kitchen and dining space is faced with stained plywood.

stain treads wine white sash land-loor to nverted phoard dining ywood.



The Architects' Journal Library of Information Sheets 213. Editor: Cotterell Butler, A.R.I.B.A.



30.C1 · TRUE FLUE · DOMESTIC FLUES 1: WITH CONVECTOR STOVE

(Patent Nos. 567066 and 600518)

This Sheet, the first of two dealing with the True Flue method of domestic flue construction, describes the system generally and gives details of the flue in combination with a convector heating stove. Sheet 30.C2 gives details of the flue arranged with an open fire and convection heating. The system provides a form of uptake for the products of combustion from the fire, effective transmission of these products to the chimney top and final dispersal into the atmosphere in a manner designed to prevent downdraught.

Construction

The chimney breasts and stacks can be completed independently of the main structure if required, suitable ties being built in for attachment or bonding to the structure.

Chimney breasts: These are constructed of concrete blocks, which, when arranged in position, form a fair face and act as the outer shuttering for the weak concrete filling. The flanged ends of the blocks form an anchor into the concrete filling which prevents their becoming displaced while filling is in progress and facilitates the maintenance of square corners and vertical work.

Stack: At the roof line the stack is formed of waterproof blocks of artificial stone to prevent moisture penetration. These blocks are 4½ in. deep to permit flashing to the roof slope. Where brick stacks are required these can be built in the normal way direct to the True Flue breasts.

Main flue: The main flue (or flues where more than one fire is used) is of refractory concrete and so designed that individual sections become concentrically placed during erection. Standardized bends are supplied for changes of direction of the flue.

Warm air ducts: These are composed of asbestoscement pipes and lead from the heating appliance to outlets in the bedrooms.

Fixing

The blocks are bedded in ordinary compo as for brickwork and all joints of flue linings, hearths and lintel blocks should be bedded in a suitable fire-resisting material to form sealed joints.

The infilling should be composed of semi-dry ballast concrete (12:1 mix) in which broken brick may be bedded. As each course of blocks is laid the infilling should be placed and flushed up to form a bed for the flanges of the blocks in the next course.

Finish

The blocks are supplied finished rough-keyed for plastering or smooth finished for external purposes.

Compiled from information supplied by:

True Flue Limited

Address: Convector House, Acacia Road, St. John's Wood, London, N.W.8.

Telephone: Primrose 7161/2.

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

38.D1 DURADIO ENAMEL PAINT: PAINTING SPECIFICATIONS FOR VARIOUS SURFACES

In all cases allow 24 hours for drying and glass-paper and dust off between coats.

Surface	Preparation	Treatment		
Woodwork : Unpaint ed o r burnt off.	Glass-paper, dust off, treat knots with one coat No. 5014 genuine shellac knotting. Allow to harden.	1st coat: No. 02964 Pink Priming Paint (white lead and red lead) or No. 01161 Superfine Priming Paint (white lead and aluminium). Stop cracks, nail holes, etc., with linseed oil putty after 1st coat is dry. 2nd coat: Duradio Undercoating thinned as necessary with turpentine only. 3rd coat: Duradio Undercoating thinned as necessary with turpentine only. 4th coat: Duradio Enamel Paint. If three coats only are required, omit 3rd coat.		
Waterpainted or oilpainted surfaces (all types).	Wash down to remove all dirt and grease. Scrape off all loose material. Make good defective plaster work. Allow to dry thoroughly.	1st coat: Duradio Undercoating thinned as necessary with turpentine only. Stop small cracks, etc., with linseed oi putty after 1st coat is dry. 2nd coat: Duradio Undercoating thinned as necessary with turpentine only. 3rd coat: Duradio Enamel Paint. If two coats only are required, omit 2nd coat, touch up all stopping and allow to dry before applying finishing coat.		
New metal : Internal or external.	Scrape and/or wire brush to remove rust. Remove grease. Surface must be clean and free from moisture.	1st coat: G 1233 Red Lead Metal Primer. Allow to harden thoroughly. Stop all joints with hard stopping. 2nd coat: Duradio Undercoating thinned as necessary with turpentine only. 3rd coat: Duradio Enamel Paint. Where it is required to finish in white ivory, cream or other pale tint, two coats o undercoating should be applied.		
New surfaces, dry and chemically neutral: lime plaster, Portland cement rendering, brickwork, masonry, asbestos-cement sheets.	Remove plaster nibs, efflorescence and all loose material. Repair brick or stone joints on exterior surfaces with oil mastic and on interior sur- faces with plaster.	1st coat: Duradio Undercoating thinned to primin consistency with one part raw linseed of and two parts turpentine. 2nd coat: Duradio Undercoating thinned as necessar with turpentine only. 3rd coat: Duradio Undercoating thinned as necessar with turpentine only. 4th coat: Duradio Enamel Paint. If three coats only are required, omit 3rd coat.		
New surfaces dry but still alka- line: lime plaster, Portland cement rendering, brickwork, masonry, asbestos-cement sheets.	Remove plaster nibs, efflorescence and all loose material. Repair brick or stone joints on exterior surfaces with oil mastic and on interior sur- faces with plaster.	1st coat: Alkali-resisting Primer. Apply liberally an evenly, brush well and allow to dry thor oughly. 2nd coat: Duradio Undercoating thinned as necessar with turpentine only. 3rd coat: Duradio Undercoating thinned as necessar with turpentine only. 4th coat: Duradio Enamel Paint. Apply liberally an evenly.		
Surfaces which are not dry, but are chemically neutral where priming "following the trowel" is required: Keene's cement, Parian cement, Sirapite plaster (all used neat).	Remove plaster nibs, efflorescence and all loose material before applying 2nd coat.	1st coat: Keene's Cement Primer No. 01522 thinned with turpentine and applied within 12 hour of trowelling. Allow to stand until all moisture has dried out completely. 2nd coat: Duradio Undercoating thinned as necessary with turpentine only. 3rd coat: Duradio Undercoating thinned as necessary with turpentine only. 4th coat: Duradio Enamel Paint. Apply liberally and evenly.		
New surfaces dry and chemically neutral: Keene's cement, Parian cement, Sirapite plaster, hardwall plaster	Remove plaster nibs, efflorescence and all loose material.	1st coat: Duradio Undercoating thinned to priming consistency with one part raw linseed of and two parts turpentine. A thin consist ency is necessary on Keene's, Parian and Sirapite. 2nd coat: Duradio Undercoating thinned as necessary with turpentine only. 3rd coat: Duradio Undercoating thinned as necessary with turpentine only. 4th coat: Duradio Enamel Paint.		

38.D1 DURADIO ENAMEL PAINT AND UNDERCOATING

This Sheet describes Duradio Enamel Paint and Duradio Undercoating and sets out in tabular form the appropriate specifications for treating a number of types of surface.

General

Duradio Enamel Paint provides a high gloss finish of great durability. It forms a tough, elastic film possessing high resistance to atmospheric conditions and is thus particularly suitable for the protection of surfaces liable to corrosion and decay.

Duradio is suitable for application to most types of surface, such as wood, metal, stone, dry neutral plaster, wallboards, etc., and it is equally suitable for inside or outside use.

Materials

Duradio Enamel Paint: Supplied ready mixed for use in a wide range of colours.

Duradio Undercoating: It is most important that the correct type of undercoating should be used before applying Duradio. Undercoatings of too oily a nature, which are comparatively soft, may cause blistering or cracking.

To obtain satisfactory results the undercoatings specially prepared for Duradio Enamel should be used. They provide a hard, non-absorbent foundation which enables the Duradio to retain maximum gloss and durability. Suitable undercoatings are available for all shades of Duradio.

Preparation and Application: Undercoating

Standard quality Duradio Undercoating contains lead and is intended for use by brushing process. After preparing the surface and thinning the paint in accordance with directions, it should be applied with suitable flat paint brushes. Coats should be liberally applied and laid off evenly. At least 16 hours should be allowed between coats.

Spreading capacity: When thinned with turpentine only and applied over primed or previously-painted surfaces of normal condition, one gallon of undercoating will cover 100 to 120 square yards (one coat). The spreading capacity of Duradio Undercoating when used as a primer depends upon the degree of absorption by the surface.

Preparation and Application: Duradio Enamel Paint

The paint should be stirred well before use and should not be thinned or added to in any way. It should be applied liberally and laid off evenly, avoiding runs.

Spreading capacity: When applied by brush over a ground of suitable undercoating, Duradio Enamel Paint will cover 80 to 90 square yards per gallon (one coat).

Drying: The paint dries dust proof in about 8 to 10 hours, and is hard in 16 to 24 hours under normal conditions. Free ventilation and warm, dry atmospheric conditions naturally accelerate drying.

Further Information

The manufacturers maintain an Advisory Department which is available for advice on technical problems relating to paints and painting, and the preparation of specifications and colour schemes. "Paint Specifications," a booklet containing fully detailed specifications and useful technical information, is available from the manufacturers.

Compiled from information supplied by !

The Walpamur Co. Ltd.

Head Office, Works and Advisory Department : Darwen,
Lancs.

Telephone: Darwen 662.
London Office: 125, High Holborn, London, W.C.1.
Telephone: Holborn 4615.

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



The main staircase.

EXTERNAL FINISHES.—The brickwork to the ground floor and end walls is in rustic Flettons. The rendering, dark brown in colour and textured with a stiff broom, was used to bring down the apparent height of the building. The timber windows are set in cream projecting concrete surrounds. Corrugated asbestos shuttering was used for the RC canopies over porch and living room window, the undersides being painted blue. Undersides of eaves are painted light blue and exposed rafters and fascias white.

SERVICES.—Space heating is provided by a coke-burning fire in the living room. This has a back boiler to heat domestic hot water. Incorporated in this fire are two warm air ducts which run to two bedrooms above. The warm air runs through a 4-in. pipe in the floor to an opening in the tiled hearth on the first floor. There are points for electric heaters in each room and a gas water heater in the kitchen.

The general contractors were Messrs. J. Hammond & Son, Ltd. For list of sub-contractors, see page 418.

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

TECHNICAL SECTION

The following is the first of a series of bibliographies that are being specially compiled for The Architects' Journal as part of the information service given to architects by the Journal's Technical Section. Each will deal with one building category and will provide an up-to-date index of references available in books, periodicals (English and foreign) official and technical reports, etc.

HOSPITALS AND HEALTH CENTRES

SELECTED REFERENCES 1939-1949:*

Compiled by Ellen G. Schoendorff

HEALTH SERVICE ASPECTS

Britain's health: based on PEP report. S. M. Herbert. (Penguin Books, 1939. 9d.)

The health services: (1) maternity and child welfare, the school medical service, the tuberculosis service. R. B. Thomas. (Fabian Society and Victor Gollancz, 1941. 1s.)

The health services: (2) hospital services. S. Hastings-(Fabian Society and Victor Gollancz, 1941. 6d.)

Draft interim report. Medical Planning Commission. (British Medical Journal, June 20, 1942. pp. 743-753.)

Health of the future. A. Bourne. (Penguin Books, 1942. 1s.)

Medicine in Britain. H. Clegg. (Longmans Green & Co. for the British Council, 1943. 1s.)

The reform of the public health services. Sir Arthur S. MacNalty. (Oxford University Press for Nuffield College, 1943. 2s. 6d.)

A national health service. Ministry of Health and Department of Health for Scotland. (HMSO, 1944, Cmd. 6502. 1s.)

Report of the Inter-Departmental Committee on medical schools. (HMSO, 1944. 4s. 6d.)

Medical care for citizens. PEP. (Europa Publications, 1944. 1s.)

Report on a national maternity service. Royal College of Obstetricians and Gynzecologists. (The College, 1944. 1s, 6d.)

Planning for health. Association for Planning and Regional Reconstruction. (The Association, 1945, Broadsheets Nos. 14 and 19. 6d. each.)

Physician, heal thyself: a study of needs and means. G. Scott Williamson. (Faber & Faber, 1945. 5s.)

Some aspects of the post-war hospital problems in London and the Home Counties. King Edward's Hospital Fund for London and the Voluntary Hospitals Committee for London. (Geo. Barber & Son, 1945. 1s.)

Organisation and survey procedure for a state hospital study. Commission on Hospital Care. (The Commission, Chicago, USA, 1945.)

Hospital surveys: the hospital services of:—(1) Berkshire, Buckinghamshire and Oxfordshire; (2) Eastern area; (3) London and the survounding area; (4) North Eastern area; (5) North Western area; (6) Sheffield and East Midlands area; (7) South Western area; (8) West Midlands area; (9) Yorkshire area, Ministry of Health. (HMSO, 1945 and 1946. 5s.; 2s. 6d.; 10s.; 5s.; 10s.; 7s. 6d.; 10s.; 5s.; 5s.)

Scottish hospitals survey reports: (1)—general introduction to the reports; (2) Eastern region; (3) North Eastern region; (4) Northern region; (5) South Eastern region; (6) Western region. Department of Health for Scotland. (HMSO, 1946. 6d.; 1s.; 1s.; 9d.; 1s. 6d.; 2s.)

The hospital surveys: the domesday book of the hospital services. Nuffield Provincial Hospitals Trust. (Oxford University Press, 1946.)

A complete maternity service. PEP. (Political and Economic Planning, Broadsheet No. 244, January 31, 1946.)

* References under section headings are arranged in chronological order.

The future development of the LCC hospital service-Anon. (Architect and Building News, February 22, 1946, pp. 112-113.)

Hospital care in the United States. Commission on Hospital Care. (Commonwealth Fund, New York, USA, 1947.)

Notes on planning for health. J. Vulliamy. (APRR Information Bulletin, July, 1948. Reference Sheet No. 11, p. 4.)

The Nuffield Provincial Hospitals Trust: a report on the purpose and activities of the Trust, 1939-1948. The Trust. (Oxford University Press, 1949.)

The national health services. C. Hill and J. Woodcock. (Christopher Johnson, 1949. 16s.)

LAYOUT; GENERAL

Schedule of requirements in the planning of hospitals. Building Centre Hospital Committee. (Central Bureau of Hospital Information, 1939. 4d.)

Hospital organisation and management. J. E. Stone, (Faber & Faber, 1939, 3rd edn. 31s. 6d.)

Hospitals for rural communities. US Department of Agriculture. (Government Printing Office, Washington, USA, 1939.)

The influence of climatic conditions on hospital construction. Stephenson and Turner. (Nosokomeion, Germany, No. 4, 1939.)

Architecture of hospitals. T. F. Hamlin. (Pencil Points, USA, November, 1940. pp. 711-724.)

The standardized hospital and the reduction of its internal communications. E. Balser. (Zeitschrift für das Gesamte Krashenhauswesen, Germany, Vol. 20, 1940. pp. 361-365.)

A survey of hospitals: physical features of hospitals in general; problems of plan and administration. A. Erdman. (Octagon, USA, May, 1942. Supplement.)

Planning good hospitals. A. Erdman. (Hospital and Nursing Home Management, June, 1942. pp. 51-53.) Hospital planning. N. Notley and R. Brown. (Art News, Spring, 1943. pp. 4-13.)

Hospitals: post-war planning. L. Pearson. (Architectural Design and Construction, April, 1943. pp. 81-86.)

Planning the post-war hospital. I. Rosenfield. (Architectural Record, USA, May, 1943. pp. 61-78.)

Functional planning of hospitals. L. A. Abramson (Architectural Record, USA, May, 1943 pp. 69-70.)

Thoughts on hospital planning. D. V. Marshall. (Journal of the Institution of Municipal and County Engineers, September, 1943. pp. 94-98.)

Bauentwurfslehre (Building Design Manual). E. Neufert. (Bauwelt Verlag, Berlin, Germany, 1943, 11th rev. edn.) see hospital design, pp. 257-262.

The St. Albans and Mid Herts Hospital, 1844-1944, and onwards. Architects' Co-operative Partnership. (St. Albans and Mid Herts Hospital, 1944. 2s. 6d.)

Hospital design of tomorrow. A. Erdman. (Journal of the American Institute of Architects, USA, April, 1944. pp. 194-198.)

The hospital in modern society. A. C. Bachmever. (Oxford University Press and USA 1944. 28s.)

Small community hospitals. H. J. Southmead and G. Smith. (Commonwealth Fund, New York, USA, 1944. 12s. 6d.)

Radical ideas on hospital design. M. van der Rohe. (Modern Hospital, USA, March, 1945. pp. 65-67.)

Building a hospital: co-operation between architect and hospital committee. C. Parkes. (Hospital and Nursing Home Management, May, 1945. p. 148.)

Memorandum regarding planning, building and equipping of hospitals. General Nursing Council for England and Wales. (The Council, 1945.)

Planning the community hospital: a collection of articles from periodical literature. American Hospital Association. (The Association, Chicago, USA, 1945.)

Measuring your community for a hospital: a collection of articles from hospital and medical journals discussing how to determine the need for a hospital. American Hospital Association. (The Association, Chicago, USA, 1945.)

Planning and constructing the general hospital. Canadian Medical Association. (The Association, Toronto, Canada, 1945.)

Renaissance de l'architecture médicale. J. Walter. (Imprimerie E. Desfossés, Paris, France, 1945.) covers: medical organisation; technique of medical architecture; and general plans for a medical centre.

Concerning the planning of a general hospital. C. Scott. (Thesis, RIBA Final Examination, 1946. Available in RIBA Library.)

Changing concepts in hospital function: a vital consideration in design. H. Agnew. (Journal of the Royal Architectural Institute of Canada, April, 1946. pp. 75-78.)

Hospital planning. C. Butler and A. Erdman. (F. W. Dodge Corp., New York, USA, 1946. \$15.00.)

The American hospital. E. H. L. Corwin. (Commonwealth Fund, New York, USA, 1946. \$1.50.)

The modern small hospital and the community health centre. A. B. Mills and E. W. Jones, Ed. (Modern Hospital Publishing Co., Chicago, USA, 1946.)

A study of the planning requirements (design) of the acute general hospital. J. Bowes. (Thesis, RIBA Final Examination, 1947. Available in RIBA Library.)

Hospital planning and construction: fundamental factors of effective programme. J. E. Stone. (Hospital and Health Management, January, 1947. p. 15.)

The functional basis of hospital planning: the site; the building as a whole; and administrative area. Anon. (Modern Hospital, USA, March, 1947. pp. 49-60.)

Hospitals of the future: how social developments may affect planning. L. G. Pearson. (Hospital and Health Management, April, 1947. pp. 131-134.)

Recent trends in hospital design. J. M. Easton and S. E. T. Cusdin. (Journal of the RIBA, July, 1947. pp. 452-458.)

pp. 452-458.)

The first principles of hospital planning. R. Ward(Medical Press Journal, No. 26, 1947.)

Some reasons for building a square hospital. F. G. Carter. (Hospitals, USA, November, 1947. pp. 33-37.)

The 50-bed hospital: its planning and costs. J. R. McGibony. (Modern Hospitals, USA, December, 1947. pp. 47-50.)

Hospitals, integrated design. I. Rosenfield. (Reinhold Publishing Corporation, New York, USA, 1947. \$10.75.)

Transcript on hospital planning. American Hospital Association. (The Association, Chicago, USA, 1947.)

L'Hospital Français. H. Thoillier. (Techniques Hospitalières, Sanitaires et Sociales, Paris, France, 1947, 2nd edn. Frs. 1,000.) covers: hospital design comprehensively.

Conditions imposed on the planning of hospitals by the isolation and grouping of patients. M. Portevin. (Institut Techniques du Batiment et des Travaux Publics, Paris, France. Circular series A, No. 16, 1947.)

Hospitals for the co-ordinated hospital system: type plans for the general hospital from 8 to 150 beds. US Public Health Service, Division of Hospital Facilities. (Architectural Record, USA, January, 1948. pp. 92-114.)

Modern hospitals: series of articles. (The Lancet, January 3,10,24, 31, and February 14, 28, 1948.)

Hospital planning: environmental factors; programming, planning, construction and the role of the architect; factors that affect cost. Anon. (Modern Hospital, USA, March, 1948. pp. 58-65.)

The general hospital as a community need. J. C. Mackenzie. (Journal of the Royal Architectural Institute of Canada, March 1948. pp. 81—88.)

The hospital of the future: architectural design, administration, medical care. Special supplement. (Modern Hospital, USA, August, 1948. pp. 47-67.)

Economical hospital operation: an architect's view.
N. A. Owings. (Modern Hospital, USA, September, 1948. pp. 59-63.)

Efficiency of operation (relationship of plan elements). N. A. Owings. (Journal of the Royal Architectura Institute of Canada, September, 1948. pp. 297-299.)

Hospitals of the future. H. W. Bruce. (Building Digest, October, 1948. pp. 347-349.)



Restaurant Screen with weight taken on ground

ON THE GROUND-OR OVERHEAD?

There are four main types of Henderson Folding Partition and Window Gear, each designed to suit particular circumstances. In some cases the weight can be taken from above, in others it must be taken on the ground or cill. Every enquiry is carefully studied, and our Drawing Office service and trained technical representatives are freely available to ensure that the correct gear is accurately prepared for each job. Thus any competent joiner can then make and erect. Architects have specified Henderson Folding Partition Gear with confidence for over twenty-five years-with the result that it can be seen today in famous buildings throughout the country. Catalogue No. 48 contains diagrams, photographs and complete specification data.

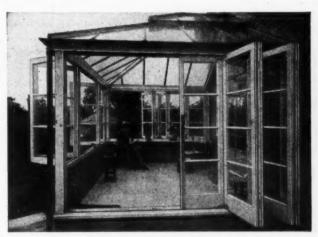
cal

w.

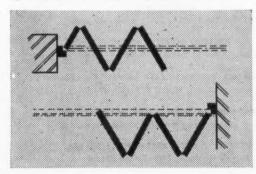
ay th

d.

t,



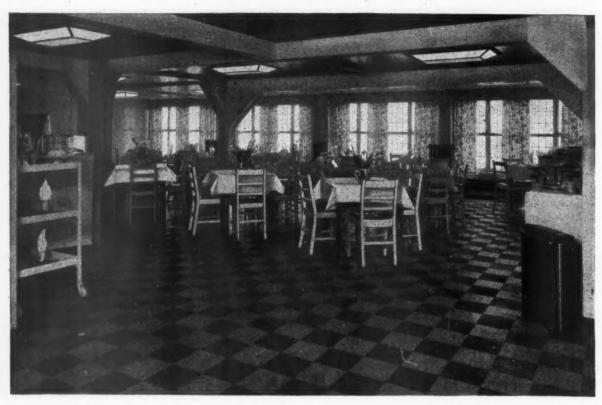
Verandah doors and windows with weight taken overhead





for any Door, Partition or Window that slides or folds

P.C. HENDERSON LIMITED · TANGENT WORKS · BARKING · ESSEX



DOLPHIN RESTAURANT

This photograph is reproduced by courtesy of the Southend-on-Sea Corporation, Pier Department

Gemastic

DECORATIVE TILES

Semastic Decorative Tiles were chosen for installation in the Dolphin Restaurant, Southend Pier, for their cheerful, inviting appearance and their exceptional hard-wearing properties.

Semastic Decorative Tiles are accepted as a thoroughly practicable form of plastic floor covering, sympathetic and quiet to the tread and possessing excellent design possibilities for use in buildings of every kind.

A Product of
SEMTEX LIMITED
A Dunlop Company

APPROVED CONTRACTORS

J. A. HEWETSON & CO. LTD., Dansom Lane, Hull

> HOLLIS BROS. LTD., Craven Hall, Hull

HOLLIS BROS. LTD., 150 Holborn, London, E.C.1

HORSLEY SMITH & CO. (HAYES) LTD., Dawley Road, Hayes, Middlesex

PILKINGTON'S ASPHALTE CO. LTD., 68 Northiam Street, Hackney, E.8

SEMTEX LTD.,185, 187, 189 Finchley Road, London, N.W.3

THE ALBA FLOORING CO. LTD.,
West Arthurlie Works, Lochlibo Road, Barrhead, Glasgow

THE LIMMER & TRINIDAD LAKE ASPHALT CO. LTD., Steel House, Tothill Street, Westminster, S.W.1

THE PENMAENMAWR & TRINIDAD LAKE ASPHALT GO. LTD.,
National Bank Building, Fenwick Street, Liverpool, 2

THE WESTERN TRINIDAD LAKE ASPHALT CO. LTD., Asphalt House, St. Mary Street, Cardiff Hospital buildings: their planning and equipment. L. A. Wills. (Building Digest, October, 1948. pp. 331-370.)

Modernisation of hospitals. M. Portevin. (Techniques Hospitalières, France, December, 1948. pp. 17-19.)

The planning of a modern hospital in relation to the public health. S. E. T. Cusdin. (Journal of the Royal Institute of Public Health, Jan./Dec., 1948, pp. 153-163.)

Visit of Charing Cross Delegation to European Hospitals.
(Report on hospitals in Basle, Zurich, Paris and Stockholm.) Travel Reports No. 1: King Edward's Hospital Fund for London. (Geo. Barber & Son, 1948. 1s.)

Visit of Captain J. E. Stone to the United States and Canada. (Report on hospitals in the USA and Canada.) Travel Reports No. 2: J. E. Stone. (Geo. Barber & Son, 1948. 1s.)

On hospitals. S. S. Goldwater. (Macmillan, 1948. 45s.)

Building for the people. R. Sheppard. (George Allen & Unwin, 1948. 18s.)
see health, pp. 81-97 (siting, design, etc., of hospitals).

Das Gesundheitswesen in der Bauplanung Berlins (hospital facilities related to the plan for Berlin). P. Vogler and G. Hassenpflug. (Saenger, Berlin, Germany, 1948. RM. 54.-.)

Tomorrow's hospitals. C. A. Erikson. (Architectural Record, USA, May, 1949, pp. 108-112.)

Hospitals for the welfare state. G. Tait. (Architectural Design, July, 1949, pp. 154-173.)

The design and equipment of hospitals. R. Ward, (Baillière, Tindall & Cox, 1949. 42s.)

Planning: the architect's handbook. S. R. Pierce and P. Cutbush. (Gilbert Wood & Co., 1949, 6th edn. 21s.)

see hospitals (general), pp. 327-341. hospitals (infectious diseases), pp. 343-350. clinics and health centres, pp. 351-358.

GENERAL REFERENCE BOOKS

Hospitals yearbook. (Central Bureau of Hospital Information, yearly, 21s.)

The hospital purchasing file. (Purchasing Files, Inc., Chicago, USA, yearly.)

LAYOUT: DEPARTMENTAL UNITS

Planning the small general hospital (general requirements; administrative areas; food and laundry service; nursing units; clinical service areas: maternity, operating, X-ray, pharmacy, laboratory, morgue, physical therapy; outpatients department). Anon. (Architectural Record, USA, December, 1939. pp. 77-106.)

Hospitals: planning units (ear, nose and throat cubicles; nurse's room; pharmacy; trolleys and other vehicles). R. Allwork. (Architectural Record, USA, August, 1941. pp. 93-96.)

Hospital elements (nursing and administrative units; surgical suite: central sterilizing and supply room; delivery and X-ray suites; outpatients department; laboratory). US Public Health Service, Hospital Facilities Section. (Architectural Record, USA, August, 1945. pp. 125, 127, 129, 131.)

Elements of the general hospital (administration department; diagnostic and treatment facilities; nursery; surgical department; emergency department; obstetrics department). US Public Health Service, Hospital Facilities Section. (Architectural Record, USA, June, 1946. pp. 72-90.)

Elements of the general hospital (nursing; service and outpatients department). US Public Health Service, Hospital Facilities Section. (Architectural Record, USA, July, 1946. pp. 76-90.)

Notes on hospital planning (department by department study). US Public Health Service, Hospital Facilities Section. (Architectural Record, USA, August, 1946. pp. 101-116.)

The functional basis of hospital planning: nursing facilities. Anon. (Modern Hospital, USA, April, 1947. pp. 65-72.)

The functional basis of hospital planning: surgical facilities. Anon. (Modern Hospital, USA, May, 1947, pp. 65-70.)

The functional basis of hospital planning: obstetrical acilities. Anon. (Modern Hospital, USA, June, 1947. p. 65-70.)

The functional basis of hospital planning: adjunct diagnostic and treatment facilities, and emergency department. Anon. (Modern Hospital, USA, July, 1947, pp. 65-70.)

The functional basis of hospital planning: service department. Anon. (Modern Hospital, USA, August, 1947. pp. 65-74.)

The functional basis of hospital planning: outpatients department; dental suite; health centre; personnel housing; teaching facilities. Anon. (Modern Hospital, USA, October, 1947. pp. 65-70.)

Hospital buildings: their planning and equipment (detailed requirements of various departments). L. A. Wills. (Building Digest, October, 1948. pp. 351-370.)

Data Sheets. D. Graf. (Reinhold Publishing Corp., New York, USA, 1944. 30s.) see basic ward layouts, p. 317.

A contribution to the study of hospital wards. M. Portevin. (Techniques Hospitalières, France, July/August, 1946. pp. 19-22.)

¹⁷ German single-bed hospital ward. E. Balser. (Architects' Journal, March 20, 1947. pp. 234-235.)

Acute general hospitals: medical and surgical ward units. E. Sweetman. (Thesis, RIBA Final Examination, 1947. Available in RIBA Library.)

A room with a view for everybody: an improved ward unit on hexagonal lines. P. E. Everett. (Modern Hospital, USA, January, 1948. pp. 51-53.)

Do we or do we not orient the bedroom? N. A. Owings. (Journal of the Royal Architectural Institute of Canada, September, 1948. pp. 293-296.)

New hospital ward plan. P. E. Everett. (Building, November, 1948. p. 372.)

Orientation for privacy in the multiple-bed ward. ehoe. (Hospitals, USA, July, 1949. pp. 38-40.)

Hospital room streamlined to cut construction costs and nurses' work. F. E. Markus and P. F. Nocka. (Architectural Forum, USA, July, 1949. pp. 92-93.)

Functional planning of hospitals (operating theatre location and design). L. A. Abramson. (Architectural Record, USA, May, 1943. pp. 61-78.)

Air conditioned operating rooms . . . advantages. L. R. Robbins. (Heating, Piping and Air Conditioning, USA. Vol. 15, No. 12. 1943. pp. 648-649.)

The design and equipment of operating theatres. A. Hersham. (Thesis, RIBA Final Examination, 1943. Available in RIBA Library.)

Circular operating theatres: their value has been proved. J. O. Cederberg. (Hospital and Nursing Home Management, January, 1945. pp. 20-21.)

The planning of the diagnostic radiological department in a large general or teaching hospital. W. E. Rohan. (British Journal of Radiology, September, 1945.)

X-ray facilities for the general hospital. F. J. Hodges. (Architectural Record, USA, June, 1947. pp. 141-142.)

Planning X-ray departments for hospitals. G. B. Myer (Architectural Record, USA, October, 1948. pp. 14 152.)

Physical therapy suites developed in co-operation with American Physical Therapy Association. U.S. Public Health Service, Division of Hospital Facilities. (Archi-tectural Record, USA, May, 1949. pp. 122-123.)

The design, construction and equipment of maternity units in general hospitals. H. J. G. Stantiall. (Thesis, RIBA Final Examination, 1944. Available in RIBA Library.)

Type plan for a pediatric hospital unit. U.S. Public ealth Service, Hospital Facilities Section. (Progressive rehitecture, USA, August, 1945. pp. 67-69.)

Mental facilities for the general hospital: tions. U.S. Public Health Service. (Record, USA, June, 1947. pp. 130-133.) : plan sugges-(Architectural

Psychiatric services in a general hospital. L. Bonnafe d J. Lanzier. (L'Architecture d'aujourdhui, France,

Psychiatric facilities for the general hospital. P. Haun. (Architectural Record, USA, May, 1949. pp. 128-129.)

Data sheets. D. Graf. (Reinhold Publishing Corp., ew York, USA, 1944. 30s.)
see planning the hospital laundry, p. 318.

Hospital laundry control: principles and plant layout; the washroom. G. E. Beckett. (Hospital, May, 1947, pp. 225-229; September, 1947, pp. 355-358.)

The design and equipment of hospital and institution laundries. G. L. Bancroft. (Journal of the Institution of Heating and Ventilating Engineers, July, 1947. pp. 201-219.)

Hospital food service. H. Blumberg. (Architectural ecord, USA, August, 1944. pp. 115-116.)

Kitchens (50-bed hospital): summary of recommenda-tions. U.S. Public Health Service, Hospital Facilities Section. (Architectural Record, USA, August, 1944. pp. 117-118.)

Record rooms for hospitals. I. R. Hubert. (Hospital Nursing Home Management, February, 1941.

LAYOUT: SPECIALISED HOSPITALS

The future of the special hospital. J. M. Mackintosh. (Report of Health Congress, Blackpool, 1946, Royal Sanitary Institute, 1946, 5s. pp. 8-12.)

The design, construction and equipment of children's hospitals in the British Isles. C. Hindshaw. (Thesis, RIBA Final Examination, 1939. Available in RIBA Library.)

Suggestions and demonstration plans for hospitals for sick children. S. E. T. Cusdin and J. Crooks. (Architect and Building News, November 22, 1946. pp. 141-147.)

Planning for sanatoriums. R. G. de Lappe. (Modern Hospital, USA, March, 1939. pp. 72-75.)

T.B. sanatoria. L. G. Pearson. (Architectural Design and Construction, November, 1945. pp. 277-283.)

The design and equipment of modern sanatoria. G. R. S. Hoskins. (Thesis, RIBA Final Examination, 1945. Available in RIBA Library.)

TECHNICAL SECTION

Sanatoria: (1) Treatment of tuberculosis; (2) Centres, for preventive medicine; (3) equipment. J. Sage; R. F. Bridgman; D. A. Chemin. (L'Architecture Française, France, February-March, 1946. pp. 3-100.)

Sanatorium design. J. Drew. (Architects' Journal, July 24, 1947. pp. 79-80.)

The planning of mental hospitals. L. E. Wood. (Thesis, RIBA Final Examination, 1939. Available in RIBA Library.)

Planning and construction of hospitals and colonies for the treatment of nervous and mental disorder. E. T. Larrington. (Thesis, RIBA Final Examination, 1939. Available in RIBA Library.)

Mental hospitals: hints and suggestions; safety provisions; lighting, etc. Special supplement. (Hospital and Nursing Home Management, September, 1943.)

Planning the mental hospital. O. A. Luckenbach. (Architectural Record, USA, June, 1947. pp. 106-113.)

LAYOUT: HEALTH CENTRES

Public health centres (medical). Anon. (Architectural Record, USA, July, 1942. pp. 63-72.)

Health centres in the U.S.: a review. S. R. Pierce. architect and Building News, October 30, 1942. pp.

Health centres after the war. L. Pearson. (Architectural Design and Construction, March, 1943. pp. 59-63.)

The Peckham experiment: a study of the living structure of society. H. H. Pearse and L. H. Crocker. (Allen & Unwin, 1943. 12s. 6d.)

Health centres. L. Pearson. (Architectural Design and Construction, March, 1944. pp. 59-68.)

Health services and city planning. E. A. Salmon. (Architectural Record, USA, August, 1944. pp. 78-80.)

Medical care for citizens. PEP. (Europa Publications, 344. 1s.)
see health centres, pp. 18-20.

Planning for health. Association for Planning and Regional Reconstruction. (The Association, 1945, Broadsheets Nos. 14 and 19. 6d. each.)

Health centres. G. Stoddard. (Thesis, RIBA Final Examination, 1946. Available in RIBA Library.)

The modern small hospital and the community health centre. A. B. Mills and E. W. Jones, Ed. (Modern Hospital Publishing Co., Chicago, USA, 1946.)

Health centres. R. H. Parry. (Journal of the Royal Sanitary Institute, March, 1947. pp. 111-118.)

The design and location of health centres. D. A. Goldfinch. (Journal of the Royal Sanitary Institute, July, 1947. pp. 331-349.)

Community clinics, the hospital outpatient department and non-hospital clinics. L. I. Bigley. (J. B. Lippincott Co., Philadelphia, USA, 1947.)

The planning of health centres in Manchester. E. Thompson. (Thesis, RIBA Final Examination, 1948. Available in RIBA Library.)

Health centres. W. J. Durnford. (Architects' Journal, August 11, 1949. pp. 142-143.)

CONSTRUCTION AND MATERIALS

World-wide advances in hospital construction. C. E. Elcock. (Nosokomeion, Germany, No. 4, 1939.)

The construction of modern hospitals. H. Fietz. (Werk, Switzerland, April, 1944. pp. 101-117.)

Building materials for hospitals. A. N. Kiff. (Hospital and Nursing Home Management, July, 1944. pp. 290-292.)

Hospital materials and equipment. A. C. Robinson. (Architectural Record, USA, August, 1944. pp. 94-96.)

Hospital design and construction. Special supplement. (Modern Hospital, U.S.A., March, 1946. pp. 43-66.)

Hospital construction. Special number. (Hospitals, USA, May, 1946. pp. 1-170.)

New materials for hospital construction. Anon. (Hospital and Health Management, Vol. 9, No. 100, 1946. pp. 120-123.)

Repairing and enlarging old hospitals. L. Bartesagh. (Metron, Italy, No. 17, 1947. pp. 23-37.)

Hospital buildings and vibration: an important a in design. R. Hammond. (Hospital and Health Marment, December, 1947. pp. 501-502.)

Current hospital construction. I. Rosenfield. (Modern Hospital, USA, January, 1948. pp. 47-50.)

Prefabrication of health buildings. J. Emberton. (Journal of the Royal Sanitary Institute, September, 1948. pp. 409-415.)

Flooring materials. F. R. S. Yorke and C. R. Fowkes (Faber & Faber, 1948. 42s.)

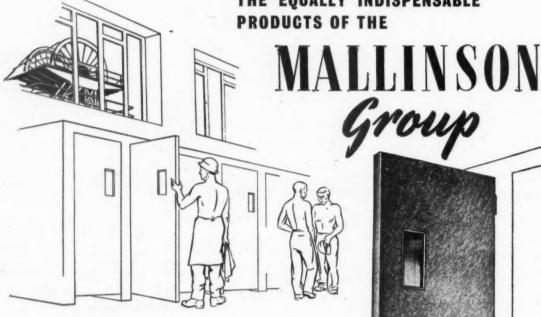
see hospital flooring, p. 171.

Modern technical methods of constructing hospitals. P. Abraham. (Techniques Hospitalières, France, January, 1949. pp. 27-29.)

ESSENTIALS IN COALMINING

Bath Cubicles

ESSENTIAL FEATURES AT PITHEADS DEPEND FOR THEIR CONSTRUCTION UPON THE EQUALLY INDISPENSABLE PRODUCTS OF THE



METAL COVERED PLYWOOD

is widely used for flush doors, panels and partitions. Available in a wide variety of forms to provide lasting finishes able to withstand hard usage, Tuckers "Armourply" is only one of the wide range of timber products which comprise the Mallinson range. This includes Hardwoods, English Timber, Flooring, Veneers and Veneered Panelling, Plywood, Fireproofed Timber, insulating Panels, Flush Doors, etc.



130-150 HACKNEY ROAD · LONDON · E 2.

TELEPHONES: SHOREDITCH 8888 - 8811

TELEGRAMS & CABLES: "ALMONER," LONDON

ENGINEERING SERVICES: GENERAL

Hospital piping. R. S. Parker. (Modern Hospital, USA, August, 1939. pp. 80-86.)

Modern hospital engineering practice. F. J. Buckley. (Air Treatment Engineer, July, 1944. pp. 100-103.)

Mechanical plants for hospitals (elevators; plumbing; piping; heating, ventilating, air conditioning; refrigeration). I. Rosenfield. (Progressive Architecture, USA August, 1945. pp. 88-92.)

Factors which affect the planning of hospital engineering services. L. C. Watts. (Heating and Ventilating Engineer, March, 1948. pp. 366-375.)

Hygiene requirements in hospitals (water supply; drainage; heating and ventilation; artificial and natural lighting; sound insulation). Anon. (Gesundheits Ingenieur, Germany, March, 1949. pp. 94-97.)

HEATING

Heating of hospitals. Anon. (Hospital and Nursing Home Management, November, 1939. pp. 283 and subseq.)

Heating and hot water supply. H. Swaine. (Journal of the Institution of Heating and Ventilating Engineers, June, 1943. p. 480.)

Atomatic temperature control in hospitals and nursing homes. Anon. (Hospital and Nursing Home Management, July, 1944. pp. 172-175.)

Modern hospital engineering practice: steam heating equipment. F. J. Buckley. (Industrial Heating Engineer, October, 1944. pp. 130-132.)

Lessons derived from twenty years of heating and remilating experience (including reference to hospitals). O. Faber. (Heating and Ventilating Engineer, March, 1945. pp. 373-385.)

Heating by electrode boilers without thermal storage. J. Jamieson. (Journal of the Institution of Heating and Ventilating Engineers, July-August, 1945. pp. 121-144.)

The hospital's nerve centre: some notes on the steam generating plant of a large hospital. W. Davies. (Steam Engineer, August, 1946. pp. 363-366.)

Heating a Swiss hospital, Bürgerspital, Basle: district heating. F. H. Slade. (Air Treatment Engineer, May, 1947. pp. 152-157.)

The functional basis of hospital planning: heating and steam supply; related installations; ventilation. Anon. (Modern Hospital, USA, September, 1947. pp. 65-72.)

Hospital suggests unusual ideas on heating and air conditioning. J. D. Dillon and R. P. Goemann. (Heating, Piping and Air Conditioning, USA, October, 1948, pp. 89-92.)

Heating services in a modern hospital (panel heating).

Anon. (Industrial Heating Engineer, March, 1949. pp 52-59.)

Radiant heating in hospitals. J. K. M. Pryke. (Modern Hospital, USA, March, 1949. pp. 72-73, 120-122.)

District heating of Perth Hospital, Australia. H. B. Fletcher. (Air Treatment Engineer, June, 1949. pp. 154-156.)

VENTILATION AND AIR CONDITIONING

Ideal atmospheres: fresh air in relation to hospital design. H. Swaine. (Heating and Ventilating Engineer, July, 1943. pp. 4-7.)

Ventilation and air conditioning in hospitals: basic principles. I. R. McKechnie. (Hospital and Nursing Home Management, November, 1943. pp. 320-323.)

Hospital refrigeration and air conditioning. T. Mitchell. (Architestural Record, USA, August, 1944. pp. 97-98.)

Lessons derived from twenty years of heating and rentilating experience (including reference to hospitals). O. Faber. (Heating and Ventilating Engineer, March, 1945. pp. 373-385.)

Engineering in hospitals: air conditioning. J. W. MacInnes and A. Palmer. (Hospital and Health Management, June, 1946. pp 211-215.)

Hospital ventilation. G. H. Priestley. (Hospital and Health Management, Vol. 10, No. 111, 1947. pp. 75-78.)

REFRIGERATION

Essentials for proper refrigeration, A. J. Hockett. (Modern Hospital, USA, June, 1939. pp. 66-72.)

Hospital refrigeration and air conditioning. T. Mitchell. (Architectural Record, USA, August, 1941. pp. 97-98.)

Modern hospital installation: refrigeration. Anon. (Modern Refrigeration, February, 1946. p. 45.)

ELECTRIC LIGHTING AND POWER

Recent experience in hospital lighting. I. Rosenfield and J. Blumenkranz. (Pencil Points, USA, November, 1940. pp. 701-706.)

The lighting of public buildings (section five: hospitals). W. T. F. Souter. (Transactions, Illuminating Engineering Society, Vol. 9, No. 1, 1944. pp. 1-15.)

Advances in hospital lighting. I. Rosenfield. (Pencil Points, July, 1945. pp. 84-90.)

Lighting in operating theatres: innovation of fluorescent fitting, Ancoats Hospital, Manchester. Anon. (Hospital and Health Management, January, 1947. pp. 22-23.)

Engineering in hospitals: lighting. J. W. MacInnes and A. Palmer. (Hospital and Health Management, November, 1947. pp. 455-459.)

Lighting the hospital patient's room. W. Allphin, C. B. Stiles and A. Zack. (Illuminating Engineering, USA, December, 1947. pp. 1028-1048.)

Lighting of operating theatres. J. Dourgnon: (L'Architecture d'aujourdhui, April, 1948. pp. 33-38.)

Current practice in the lighting of public building (incl. hospitals). Anon. (Illumination, USA, Vol. 6, No. 2, 1948. pp. 14 and subseq.)

Some pointers on hospital power plants. W. A. Riley. (Modern Hospital, USA, March, 1940. pp. 68-73.)

Electrical installations: post-war building studies No. 11. Committee convened by Institution of Electrical Engineers. (HMSO, 1944. 1s. 6d.) see electricity in hospitals, pp. 65-68.

Hospital electrification, Birmingham. Anon. (Electrical Review, August 16, 1946. pp. 245-249.)

DAYLIGHTING

Daylighting for hospitals. I. Rosenfield. (Pencil Points, USA, December, 1945, pp. 92-96; February, 1946, pp. 87-91.)

Building for daylight. R. Sheppard and H. Wright. (Allen & Unwin, 1948. 21s.)
see daylighting in hospitals, pp. 62-64.

SOUND INSULATION

Sound transmission in buildings. R. Fitzmaurice and W. Allen. (HMSO, 1939. 4s.) see design for hospitals, pp. 38-39.

Practical acoustics and planning against noise. H. Bagenal. (Methuen, 1942. 7s. 6d.) see hospitals, pp. 23-25.

Sound insulation and acoustics: post-war building studies No. 14, Acoustics Committee, DSIR Building Research Board. (HMSO, 1944, 1s.) see hospitals, pp. 18, 40, 64.

Soundproof construction for aural rehabilitation: clinical acoustic unit, New York. T. L. Soontup and M. Bergman. (Progressive Architecture, USA, March, 1948. pp. 70-75.)

FIRE PRECAUTIONS

Fires and explosions in operating theatres: causes, prevention. Anon. (Hospital and Health Management, February, 1946. pp. 50-53.)

Fire precautions: memorandum for the guidance of hospitals. King Edward's Hospital Fund for London. (Geo. Barber & Son, 1946. 6d.)

EQUIPMENT

Hospital equipment. Anon. (Revista de Arquitectura, Argentine, July, 1941. pp. 303-316.)

Dimensions of stretchers, stretcher carriers in ambulances and hospital trolleys. BS 896: 1940. (British Standards Institution, 1940. 2s.)

Sanitary technique in the design of hospital fittings. W. H. Hobday. (Architect and Building News, April 28, 1944. p. 63.)

Hospital materials and equipment. A. C. Robinson. (Architectural Record, USA, August, 1944. pp. 94-96.)

Refuse destructors for hospitals. J. W. MacInnes and A. Palmer. (Hospital and Health Management, October, 1946. pp. 427-432.)

Engineering in hospitals: laundries. J. W. MacInnes and A. Palmer. (Hospital and Health Management, May, 1947. pp. 181-186.)

Standardisation of hospital equipment: advantages and economies. J. E. Gibson. (Hospital and Health Management, July, 1947. pp. 297-300.)

Hospital equipment (sterilizing; laboratory; X-ray; food service; laundry). L. M. Arrowsmith and I. Rannels. (Progressive Architecture, USA, November, 1947. pp. 90-95.)

TECHNICAL SECTION

A directory of hospital labour-saving equipment (capacity; construction; dimensions and weight; finish; price and availability). Anon. (Hospital, December, 1947. Special supplement.)

Engineering services and equipment for hospitals. L. C. Watts. (Journal of the Institution of Heating and Ventilating Engineers, March, 1948. pp. 15-32.)

Specification 1948. F. R. S. Yorke, Ed. (Architectural Press, 1948. 21s.) see hospital sanitary fitments, pp. 515-519.

First report of the Hospital Equipment Standards Advisory Committee. PD 794. (British Standards Institution, 1948. 6d.)

USE OF COLOUR

Functional colour in hospitals. F. Birren. (Modern Hospital, USA, November, 1939. pp. 65-66.)

Scientific use of colours in hospitals. F. J. Blank. (Pencil Points, USA, February, 1942. pp. 117-120.)

Hospital colour and decoration. R. P. Sloan. (Physicians Record Co., Chicago, USA, 1944. \$3.75.)

The psychological action of colours. H. Rabaté, (Institut Techniques du Batiment et des Travaux Publics. Paris, France, 1946. Bulletin No. 16.)

Colour in hospitals. E. Podolsky. (Hospital and Health Management, April, 1949. pp. 113-115.)

Functional colour in hospitals. F. Birren. (Architectural Record, USA, May, 1949. pp. 145-146.)

SPECIAL ISSUES OF PERIODICALS

The following periodicals are either wholly devoted to various aspects of hospital design, construction, etc., and examples, or contain special relevant sections.

ARCHITECTURAL DESIGN July, 1949.

ARCHITECTURAL DESIGN AND CONSTRUCTION July, 1939.

ARCHITECTURAL RECORD, USA December, 1939. August, 1941. May, 1943. August, 1944. August, 1945. August, 1946. June, 1947. January, 1948. May, 1949.

L'ARCHITECTURE D'AUJOURDHUI, France November, 1947 (Public Health, Part I). April, 1948 (Public Health, Part II).

L'ARCHITECTURE FRANCAISE, France October-November, 1945. February-March, 1946 (Sanatoria). Navember, 1946 (Maternity and Children's Hospitals). December-January, 1946-47. No. 83-84, 1948.

October, 1948.

Byggekunst, Norway No. 7-8, 1948.

Byggmästaren, Sweden No. 21, 1943. No. 6, 1949.

EDILIZIA MODERNA, Italy April-December, 1940.

Hospital and Nursing Home Management September, 1943 (Mental Hospitals). December, 1947 (Equipment).

Hospitals, USA May, 1946 (Construction).

JOURNAL OF THE ROYAL INSTITUTE OF CANADA August, 1944. September, 1948.

Modern Hospital, USA March, 1946. August, 1948.

OCTAGON, USA May, 1942

Pencil Points—Progressive Architecture, USA November, 1940. April, 1944. August, 1945. November, 1946. November, 1947.

Quaderni di Architettura, Italy No. 23, 1947.

SCHWEIZERISCHE BAUZEITUNG, Switzerland April 20 and 27, 1946.

Werk, Switzerland April, 1944 (Construction). February, 1946. November, 1946.

Buildings Illustrated

House (detached) at "Beaulands," Sandpit Lane, St. Albans, Herts. (Pages 401-402.) Architect: Keith P. Roberts. General Contractors: Leightons (Contractors), Ltd. Subcontractors: Excavations, foundations, dampcourses, reinforced concrete, bricks, breeze partitions, glass, plumbing, joinery, tiling, water supply, Leightons (Contractors), Ltd.; tiles, Marley's pantiles; special roofings, Universal Asbestos roofing felt, Ruberoid; woodblock flooring, Hollis Bros.; patent flooring, "Myko" precast (first floor), consultant, Dr. K. Hajnal-Konyi; stoves, Ideal Boiler; gas fixtures, gas coke fire, "Fulham" type; gasfitting, St. Alban's Gas Co.; electric wiring, E. Conisbee; electric light fixtures, H. H. Hywood, Ltd.; electric heating, Berry wall type; sanitary fittings, Shanks; door furniture, Steddall's Lacrinoid type; casements, window furniture, Almarco; plaster, P. G. Rolt.

Houses (semi-detached), 62-64, Manton Drive, Luton, Beds. (Pages 403-404.) Architect: Keith P. Roberts. General Contractor: P. G. Rolt. Sub-contractors: foundations, dampcourses, reinforced concrete, structural steel, roofing felt, breeze partitions, glass, woodblock flooring, stoves, gasfitting, electric wiring, plumbing, plaster, joinery, tiling, water supply, P. G. Rolt; bricks, Luton Greys Flettons: tiles, Marley's Concrete interlocking; special roofing, Precision Roofs, Ltd.; patent flooring, "Myko" precast first floor and ceilings joists, consultant, Dr. K. Hajnal-Konyi; door furniture,

Steddall's Lacrinoid; casements, window furniture, William & Williams.

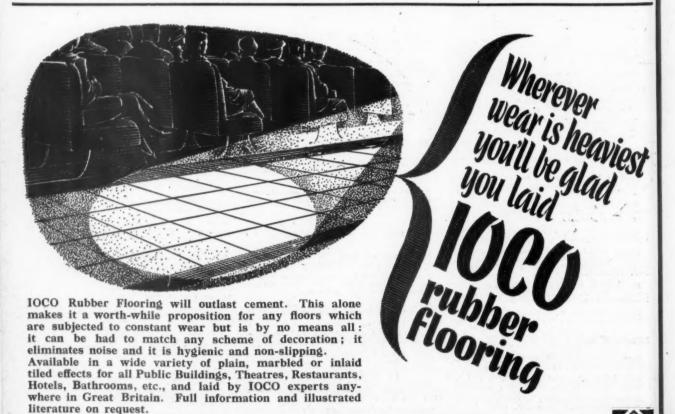
School at Romney Avenue, Bristol. (Pages 405-410). Architects: City Architect, J. Nelson Meredith; principal assistant architect, S. W. Wann; assistant architect, R. A. Agascar; consultant architects to the Bristol Aeroplane Co. [Housing] Ltd., Richard Sheppard and Partners; consulting engineers, Messrs. Hoare, Lea and Partners; quantity surveyors, Messrs. Gleeds. General contractors: William Cowlin & Son, Ltd. Subcontractors: Suspended floors and roofs, Rapid Floor Construction Co.; reinforcement, British Reinforced Concrete Engineering Co., Ltd.; steelwork, Hills Patent Glazing Co., Ltd.; aluminium windows, Gardiner Sons & Co., Ltd.; roofing, D. Anderson & Son, Ltd.; suspended ceilings, Bryce White & Co., Ltd., Gyproc Products, Ltd.; electrical installations, Frank Hancock & Co.; sanitary fittings, Doulton & Co., Ltd.; cloakroom fittings, Cloakroom Equipment, Ltd.; sliding doors, Esavian, Ltd.; rolling shutters, Shutter Contractors, Ltd.; wood block floors, Stevens & Adams, Ltd.; "Accotile "floors, Korkoid Decorative Floors; "Secoflor" tiles, Uni-Seco, Ltd.; "Colorphalte" floors and tarmac paving, Western Trinidad Lake Asphalte Co., Ltd.; glazed wall surfacing, Palorit, Ltd.

House at 32, Cunningham Hill Road, St. Albans. (Pages 411-413). Architect: Michael Meacher. General contractors: J. Hammond & Son, Ltd. Sub-contractors: Bricks, The London Brick Company and Uxbridge Flint-Lime Brick Co.; roofing felt, William Briggs & Sons, Ltd.; glass, Pilkingtons; patent flooring, "Weyroc," by Jicwood, Ltd.; grates, "Marathon" Fire, by Allied Iron Foundries, Ltd.; stair treads, Mouldex Rubber Co., Ltd.; door furniture, Lacrinoid, Ltd.; wallpapers, John Line, Ltd.

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

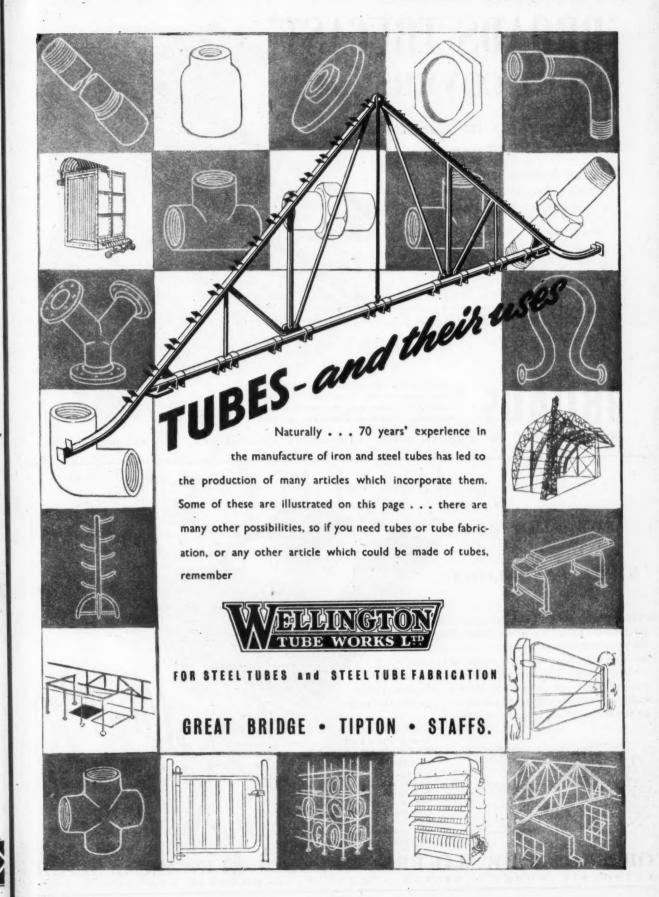
ENQUIRY FORM

I am interested in the following advertisements appearing in this issue of "The Architects' Journal."
-
Please ask manufacturers to send further particulars to:—
NAME
ADDRESS
BLOCK LETTERS Please



IOCO LIMITED · Anniesland · Glasgow · W.3





to

.49,

St



'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.



* 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. 9091 (15 Lines)

FOR FIRM BUT

RESILIENT FLOORS

When planning for floors with this characteristic, you can make no better choice than Klinger Tiles. They can be bedded down on any type of subflooring and give smart pleasing effects with their warm, plain or marbleized colours. Klinger Tiles, resin bonded and durable are suitable for showrooms, offices, schools, libraries, hospitals, public buildings, restaurants or hotels and are at home in every room in the house. Sizes $12'' \times 12'' \times 5/32''$.





THERE ARE KLINGER WALL BOARDS TOO! Sixes 12" \times 12" \times 5/32" now in production. Ready short!/ 3' \times 2' \times 5/32" and 8' \times 4' \times 5/32".

FURTHER DETAILS ON REQUEST FROM AGENTS E. J. Eigood Ltd., Insulcrete Works, Yeoman Street, London, S.E.S. Telephone: BERmondsey 1144. Flooringcraft Ltd., 28 Kingsbury Road, Erdington, Birmingham 24. Telephone: ERDington 0794. F. W. Pipe & Wynne-Jones Ltd., Dowlais Chambers, West Bute Street, Cardiff. Telephone: Cardiff 642. Alan G. Robinson Ltd., 5 Clarendon Road, Leeds 2. Telephone: Leeds 25944.

Klinger

DURABLE COLOUR

PLASTIC

FLOORING TILES

AND WALL BOARDS

THE MAKERS: RICHARD KLINGER LIMITED

SIDCUP . KENT · TELEPHONE: FOOTSCRAY



Let EXPANDED METAL do the job!

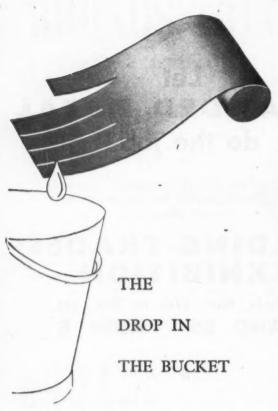
Examples of the use of "Expanded" Expanded Metal Products will be demonstrated at the

BUILDING TRADES'

Olympia, Nov. 17th to Dec. 1st STAND 86 ROW E

THE EXPANDED METAL COMPANY LTD.
Burwood House, Caxton Street, S.W.I WHItehall 1736

STRANTON WORKS, WEST HARTLEPOOL, HARTLEPOOLS 2194.
ALSO AT: ABERDEEN BELFAST BIRMINGHAM
CAMBRIDGE CARDIFF EXETER GLASGOW LEEDS MANCHESTER



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



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

C. Davidson & Sons Limited (Dept. K81) Bucksburn, Aberdeen

Wedles

man-made TIMBER in Industry

No. 6. SHOPFITTING



WEYROC can be worked exactly as ordinary timber, it is strong and durable and it is economical to use. These facts make Weyroc an essential material for the shopfitter. Counters and counter-backs, panelling and fascia boards, cubicles and stock shelves—all are being made from Weyroc. Easily, because Weyroc can be sawn, chiselled, nailed, screwed, glued and jointed by standard methods. Effectively, because the beautiful decorative effects made possible by the Plain, Paper-surfaced and Veneered grades will last despite hard usage. Economically, because there are no wasteful knots and faults in Weyroc and because it is supplied in extra large boards that more than halve the jointing in large panels, saving time and labour costs.

Write for details of the three grades of Weyroc Man-Made Timber; Plain for painting or staining and polishing; Paper-surfaced, ready to paint or distemper without filling; Veneered for the lasting beauty of fine grained veneers.

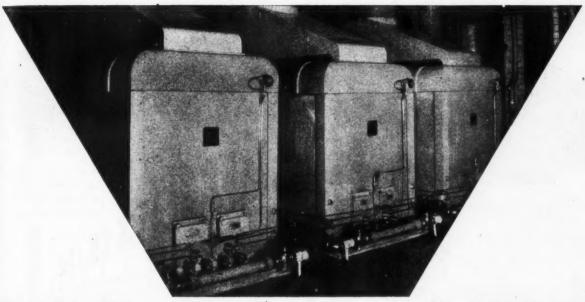
BUILDING TRADES EXHIBITION STAND No. 433

-MAIN DISTRIBUTORS-

BRISTOL: Bryce White & Co. Ltd. CARDIFF: John Bland & Co. Ltd. EXETER: Gabriel, Wade & English Ltd. LEEDS: Alvin, Morris & Co. (Timber) Ltd. LIVERPOOL: Chas. Taylor, Sons & Co. Ltd. LONDON: Gabriel, Wade & English Ltd. E. Sherry Ltd. MIDLANDS: J. O. Walker & Co. Ltd., Leicester. C. Walsh Graham Ltd., Wednesbury, Staffs. NEWCASTLE: J. T. Dove Ltd. RAINHAM, ESSEX: The Phoenix Timber Co. Ltd. SCOTLAND: Brownlee & Co. Ltd., Glasgow.

A Product of Jicwood Limited, Weybridge, Surrey

Telephone: Weybridge 1600 Telegrams: Jicwood, Weybridge

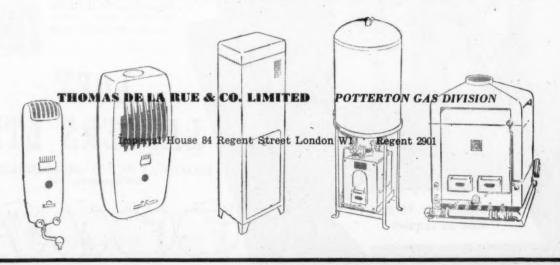


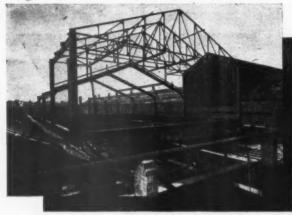
De La Rue Every kind of hot water service can be Potterton

provided from the wide range of De La Rue and

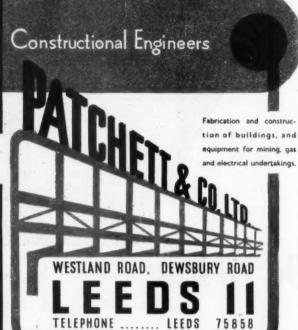
Potterton gas appliances. From heaters for small domestic requirements to boilers capable of serving the largest industrial needs for hot water supply and central heating. Literature is available describing multipoint water heaters, domestic storage sets and boilers ranging in output from 20,000-1,250,000 B. Th. Units per hour.

THE WIDEST RANGE OF APPLIANCES FOR PRODUCING HOT WATER











increase in house space by installing a LOFT LADDER

Every new building, every repaired or converted building should be utilised to its fullest extent and all space made available for use. Don't let the loft space be wasted.

Our information sheets show in detail how this space may be made available, both in new work and conversions.

Write for full particulars of construction balancing units finish

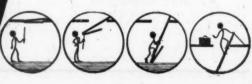
tion, balancing units, finish,

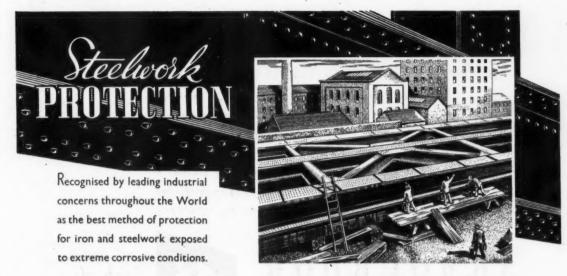
erection and prices of the various types.



LOFT

BROADWAY WORKS : BROMLEY : KENT





"BITUMASTIC"
Enamel

"Bitumastic" Enamel is applied hot over a priming coat of "Bitumastic" Solution. The resultant coating is of immense toughness and durability. It is absolutely Impervious to moisture and withstands acids and alkalis, salt laden atmospheres and other corrosive influences.

WAILES DOVE BITUMASTIC LIMITED . HEBBURN . Co. DURHAM.

WATCO

Wood Floor Preserver

makes Wood Floors last longer

ling ade

this

lew

ruo-

Watco Wood Floor Preserver is a new non-slip, heavy duty plastic floor finish, which seals the pores, strengthens the fibres, and acts as a binding medium that solidifies and Increases the resistance of the wood to heat, dampness, traffic, acids, and all surface influences.

strengthens the Floor checks Expansion and Contraction

Watco Wood Floor Preserver keys well with the wood and becomes part of the floor itself, while its high resistance to dampness and temperature variations checks expansion and contraction of wood blocks and parquet, and the consequent opening of joints. One treatment only is required and will last as long as the floor. The floor is ready for use in a few hours.

saves Expense and Labour

Softwoods treated with Watco Wood Floor Preserver will last as long as the more expensive hardwoods. Regular sweeping will produce a good appearance without polishing, although Watco-treated floors may be washed or polished in the usual way if desired.

Explanatory Price List post free on request

WATCO (SALES) LTD, DEPT 43 56 BUCKINGHAM GATE, LONDON, SWI Telephone: VICtoria 0623



OTHER WATCO PRODUCTS

WATCO CONCRETE HARDENER

WATCO CONCRETE HARDENER

Oncrete floors permanently 100 per cent. non-dusting. WATCO CONCRETE FUNDAMENTAL TO PROPERTY TO SEND OF CONTROL OF CONTR For protection
" GRANALA"

terproofer and hardener for mass concrete and cement

WATCO CONCRETE FLOOR PAINT An economical and effective floor finish in a variety of colours. WATCO TERRAZZO DRESSING An effective stain preventive medium.

diamonds shine too . .

Light leaping from a flawless surface, a perfection
which Time will not mar and a value
undisputed the world over.

Is it really such a long way from diamonds to paint?
We admit one major difference—
our high gloss costs infinitely less. As an investment,
in any setting, it is equally safe.

ARMOURDOR

GRIFFITHS BROS, & CO. LONDON, LTD.

Macks Road, Bermondsey, S.E.16



high gloss

Bermondsey 1151

me gre use bu ad ine

le no





"Reynardo"

The Roof Tile with the Bold Rolls

The Reynardo (Bold Roll) Handmade tile is of especial interest these days because its large size permits of a worthwhile saving of roof timber. As there are fewer tiles per square, compared with tiles of smaller size, roofs can be laid more quickly-a further saving of expense.

Specify Reynardo (Bold Roll) Handmade Roof Tiles. Ask for illustrated list.



SIZE 161" X 14" APPROX. 85 PER SO.

[HURST-SYMON: Patent Tile Works · Bridgwater · Somerset

phone: BRIDGWATER 2226/7

'grams: COLTHURST, BRIDGWATER

KEEP HEAT /NSIDE

"There is probably no single factor which may contribute to a greater saving of fuel used for heating used for heating buildings than the adequate use insulation."

"The cost of a heating installation may be reduced by more than the cost of providing insulation."

"The aim of this Bulletin is to ensure that no building shall be erected in the future, without consideration being given to this very important matter (i.e. Insulation)."

Reproduced from the Ministry of Fuel and Power 'Fuel Efficiency Bulletin No. 12'

THE MINISTRY OF FUEL AND POWER Say ...

"Insulation may save more than half the fuel required to heat an un-insulated building."

> N-INSULATED buildings, particularly of corrugated iron or asbestos construction, allow high heat loss and entail greater initial heat-up.

> The importance of fuel costs and conservation, plus the comfort and well being of workers during winter months, is of a priority nature today—and many leading manufac-turers (who of necessity during the

> & Brother Ltd. is handling much of this work and invites those interested to contact them for details and

war years and since have extended with un-insulated buildings) are alive to the fact, and suitable 'insulation' is now in progress.

The business of W. F. Hollway estimates.

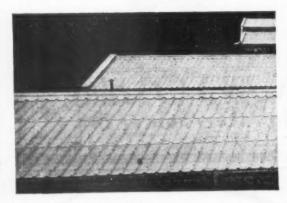
W.F. HOLLWAY & BRO., LTD. . 42 Grafton Street . LIVERPOOL 8

ONE COAT PAINTING of ASBESTOS CEMENT ROOFS

with



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

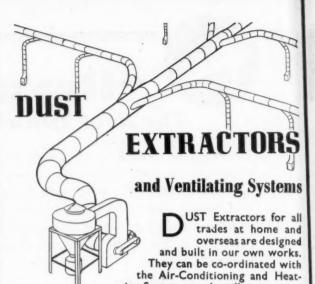
Other Shades are available

DIRECT APPLICATION

No Neutralisers or Sealers Necessary

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

Telephone: SPEedwell 4621 (5 lines)



ing Systems so that all systems are part of a scientifically planned whole. Furthermore, as all the work is carried out by our own men, control on the site is as simple and efficient as possible.

Executives interested in our comprehensive service should obtain a copy of Booklet No. 10 giving details of what we make.

BIRMINGHAM & BLACKBURN CONSTRUCTION CO., LTD.

ARMOURY CLOSE · BORDESLEY GREEN · BIRMINGHAM 9
AND AT HARLEY STREET · BLACKBURN

TitleX
one of the Good
bompression Joints

The instantaneous joint with the indestructible sealing ring. Unsurpassed for use with copper tubes BSS.659/44 and conforming to BSS.864

THE ORIGINAL AND BEST OF ITS TYPE





(FOR UNDERGROUND USE)

one of the Good Expanded Joints

A finely engineered product built for a specific purpose for use with copper tubes BSS.1386 and conforming to BSS.864. Can just as easily be used overground with tubes BSS.659/44.



COMPRESSION JOINTS LTD.



ems

or all and igned orks. with Heat-s are

as all

vice Is of

ND PE

Your canteen can serve better tea to more people, more quickly

Entirely Automatic, safe under all conditions, A.C. or D.C., capacities from 3 to 45 gallons. Fully guaranteed. Clean, labour-saving, hygienic, thermally insulated for maximum economy of current. Finished in gleaming cream stove-enamel. Robustly constructed. Easily maintained.

... with a **SANTON** Automatic Electric WATER-BOILER which supplies actively boiling water at the turn of a tap

NOW AVAILABLE FOR IMMEDIATE DELIVERY

For details of the model suited to your needs, fill in the coupon below, and post it today

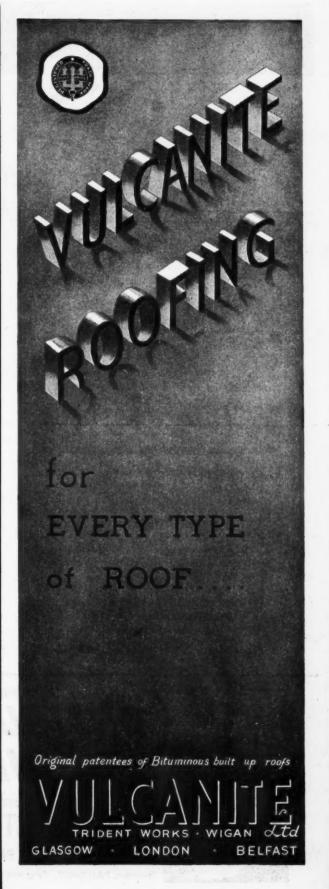


ENQUIRY TO SANTON LTD · NEWPORT 25 · MON

Send details of boiler to supply.......cups of tea per hour (Please quote approximate peak figure)

Name

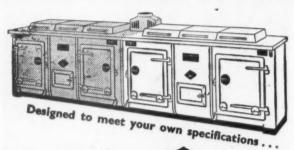
Address



a b

over 40 years' experience in the erection and maintenance of electric passenger, goods and service lifts.

UNION WORKS, BEAR GARDENS, LONDON, S.E.I.



There's an ESSE for every purpose but each model offers



- I really low fuel cost
- 2 24-hour service (continuous burning)
- 3 fast-boiling hotplate
- 4 large fume-free ovens
- 5 no oven flue cleaning
- 6 simple maintenance
- 7 no fumes, soot in the kitchen. (Fuel: COKE, anthracite or Phurancite

No wonder ESSE Heat Storage Cookers are so wijely installed in hospitals, canteens, schools and homes throughout the world.

ESSE major heat storage cookers

THE ESSE COOKER COMPANY

Prop: Smith & Wellstood Ltd. Est. 1854 Bonnybridge, Scotland

and at London, Liverpool, Edinburgh & Glasgow



FORDHAM PRESSINGS LTD., DUDLEY ROAD, Wolverhampton Telephone: 23861



DREADNOUGHT FIREPROOF DOORS

are protecting national property at Somerset House (illustrated below), the Tate Gallery, the Victoria and Albert Museum, the Foreign Office the Law Courts, the Imperial Institute, etc., etc.



Dreadnought
Fireproof
Doors
harmonise
with all
modern styles
of interior
decoration.

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

"EFRIL" FLAT WAILL FINISH

for pleasing walls and woodwork



erns sign with ures

ited

OAD

23861

E. & F. RICHARDSON LTD. 873 ARGYLE STREET, GLASGOW, C.3

EFRIL (MANCHESTER) LTD. 79 PICCADILLY, MANCHESTER I

The flat oil finish that can be scrubbed

Delicacy of shade and velvet soft appearance, combined with a hardness of film highly resistant to dirt and grease, give this material a wide range of usefulness. Its charm in the drawing room is equalled by its durability in the kitchen or bathroom and it is eminently suitable for interior work in school or hospital.

Made by

E. & F. RICHARDSON LTD., BUCKINGHAM

AMPLE STOCKS AT YOUR SERVICE AT EFRIL DEPOTS:



EFRIL (LONDON) LTD.
46 BAKER STREET, LONDON, W.I
EFRIL (BIRMINGHAM) LTD.
214 CORPORATION ST., BIRMINGHAM, 4



EVODE LIMITED

GLOVER STREET, STAFFORD

Telephone: 1590 · 1591 · 1857

Telegrams: EVODE

injurious vapour or gases. Can be applied in various thicknesses.

BELLS AND TOWER CLOCKS



SHELL-MEX HOUSE, LONDON Dia. of dials 25 ft. Messrs. C. F. Joseph, Archts.

TOWER CLOCKS

of all types, with dials from 2 ft. dia. upwards

RINGING PEALS, CHIMES CARILLONS, SINGLE BELLS

Please let us have your enquiries

ROYDON, SURREY

Founders of Famous Bells



- UNOBTRUSIVE
- **EFFICIENT**



STAND 437, Gallery

On Ministry of Works 'Approved List'

GULF RADIATOR CO. LTD.

HEAD OFFICE:

7 LYGON PLACE, WESTMINSTER, S.W.I Telephone: SLOANE 1438-8122

WORKS: PENARTH ROAD, CARDIFF. Telephone: Cardiff 9227

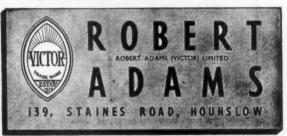
Have you seen the NEW **VICTOR DOOR SPRINGS**

A GREAT ADVANCE giving reliable, powerful silent service

No. 21 "Sceptre Victor." Patent double action Floor Door Spring. Self-contained hydraulic check action unit. For medium size doors. No. 22 for extra large or heavy doors.

The elimination of back pressure in this No. 21 "Sceptre Victor" ensures that there is no free oil in the box.





Telephone: HOUNSLOW 5714

The perfect goard



1.1

227

The MAVITTA Drafting Machine stamps your drawing office as EFFICIENT. Made of steel tube with adjustable ball-bearings. The main angles are located automatically, intermediate angles by lock. Scales have inlaid celluloid edges and are divided to order on two edges.

THE
MAYITTA DRAFTING
MACHINES LTD.
Highlands Road, Shirley,
near Birmingham, Eng.

MAVITA DRAFTING MACHINES

ASK ABOUT THE NEW MINOR MODEL

THE MIDLAND BRICK CO. (Wellingboro) Ltd.

are now producing a

RED WIRECUT ENGINEERING BRICK

Civil engineers, contractors and builders are invited to send their enquiries through their usual merchant or direct to us. Copy of test certificate and samples will be gladly sent on request.

THE MIDLAND BRICK CO. (WELLINGBORO) LTD.
STATION ROAD, LONG BUCKBY, NORTHANTS
Phone: Long Buckby 284

Est. 1899

New in appearance — PROVED IN PERFORMANCE

The Modern

- Re-designed externally to meet modern requirements in appearance.
- Synthetic sprayed finish infra-red dried.
- Guaranteed emissions.

The Modern
VECTAIR
CONVECTOR



BRITISH TRANE CO. LTD

JOHN KENT

for ROSILES

Now being used for flats and L.C.C. Housing Schemes.
Schemes.
Situmen-based waterproof floor waterproof floor waterproof floor waterproof floor waterproof floor waterproof waterproof waterproof floor waterproof waterproof waterproof floor waterproof floor waterproof waterpro

for LUXOR *

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

for PLASTERING PAINTING AND DECORATING

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

ADDRESS YOUR
ENQUIRIES TO





Adv.
Mena
Li Questoula
paper
Rep
eare
given
Ava
Contr

THE SURV archi quiri autho vacas Wass

Apptions
to 4
ASSI
the mence
Gove
cand
appo
ca

Div with Succand ing Est Hoor TA enc and sans £62 acc The ma

CLASSIFIED ADVERTISEMENTS

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

saper.

Replies to Box Numbers should be addressed sers of "The Architects' Journal," at the address

given above.

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

Public and Official Announcements
21s. per inch; each additional line, 2s.

215. per such; each additional ine, 25.
THE INCORPORATED ASSOCIATION OF ARCHITECTS AND
SURVIVORS maintains a register of qualified
architects and surveyors (including assistants) requiring posts, and invites applications from public
authorities and private practitioners having staff
vacancies. ADDERS: EMPLOYMENT REGISTER,
WREN PARE, WHYTELEAPS. Tel.: Uplands 0935. 991

MARN PARK, WHYRILARS. Tel.: Uplands 0355. 991

LONDON COUNTY COUNCIL.
Applications are invited for unestablished positions of (i) ARCHITECT, Grad III (salaries up to 2700 a year) and (ii) ARCHITECTURAL ARBISTANTS (salaries up to £580 a year), in the Housing and Valuation Department. Commencing salaries in either grade will be deternined according to qualifications and experience. Engagement will be subject to the Local Government Superanuation Acts, and successful candidates will be eligible for consideration for appointment to the permanent staff on the eccurrence of vacancies. Successful candidates will be required to undertake the design, layout and preparation of working drawings for housing schemes (cottages and multi-storey flats), and will be employed in the Housing Architect's Division. Preference will be given to candidates holding a recognized professional qualification. Forms of application may be obtained from the Director of Housing, The County Hall, Westminster Bridge, S.E.1 (stamped addressed envelope required, and quote Ref. G.E.3). Canvassing disqualification in the Chief Architect's There are vacancies in the Chief Architect's There are vacancies in the Chief Architect's

equired, and quote Ref. G.R.3). Canvassing disqualifies. (2269)

MINISTRY OF WORKS.

There are vacancies in the Chief Architect's Division for ARCHITECTURAL ASSISTANTS, with recognized 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. Similar vacancies also exist for ASSISTANTS, with specialized knowledge and experience in stonemasonry, particularly in detailing and jointing of ashlar and carved stonework. Salary: Architectural Assistants, 2500-2625, plus overtime. Starting pay will be assessed according to age, qualifications and experience. These rates are for London; a 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

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

Apply in writing, stating age, nationality, full details of experience, and locality preferred, to Chief Architect, W.C.10/T, Ministry of Works, Abell House, London, S.W.I. 2065

CUNTY OF ESSEX.

ILFORD COMMITTEE FOR EDUCATION.

The Essex County Council invite applications for the post of ARCHITECTURAL ASSISTANT, in the Office of the Borough Engineer of Ilford. Applicants should have had good general training and experience.

The scale of salary will be in accordance with the National Joint Council, A.P.T. Division, Grade III, £450×£15 to £495, plus the appropriate London area allowance.

Application 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.

BOROUGH OF CROSBY.

BOROUGH ENGINEER AND SURVEYOR'S

Applications are invited for the appointment of ARCHITECTURAL ASSISTANT, on the temporary staff in the department of the Borough Engineer and Surveyor, at a salary at the rate of Grade III (£450 per annum, rising, subject to satisfactory service, to £495 per annum).

Candidates should possess a recognized architectural qualification and have had experience in general architectural work, housing, and the conversion of large houses into flats, including the preparation of working drawings and specifications.

tions.

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

Applications, stating age, present and past appointments, qualifications and experience, must be delivered to the undersigned endorsed "Architectural Assistant," not later than noon on Tuesday, 25th October, 1949.

Testimonials are not required, but applicants are required to submit the names of two referees.

Canvassing in any form will be a disqualification.

HAROLD O. ROBERTS.

Town Hall, Waterloo, Liverpool, 22. 3rd October, 1949.

NORFOLK COUNTY COUNCIL.
COUNTY ARCHITECT'S DEPARTMENT.
Applications are invited for the appointment of an ASSISTANT QUANTITY SURVEYOR, on the permanent staff of the County Architect's Department—salary in accordance with National Grade II (£420-2465 p.a.). Candidates should be capable of abstracting and billing and checking final accounts. Some experience of specification writing, estimating and taking-off will be an advantage.

The appointment will be subject to the Local Government Officers' Superannuation Acts, to a satisfactory medical certificate, and to one month's notice on either side. National Scheme of Conditions will apply.
Applications, stating age, qualifications and experience, together with the names of three persons to whom reference may be made, should be addressed to C. H. THURSTON, L.R.I.B.A., F.R.I.C.S., County Architect, 25, Thorpe Road, Norwich—to be received not later than Saturday, 22nd October.

H. OSWALD BROWN, Clerk of the Council. County Offices, Thorpe Road, Norwich. 2295

CITY OF BATH.

CITY ENGINEER'S DEPARTMENT.

ARCHITECTURAL SECTION.

Applications are invited for the appointment of TWO GENERAL ARCHITECTURAL ASSISTANTS on the permanent staff of the City Engineer. Salary A.P.T., III or IV (£450.£495 or £460.£525), according to qualifications and expresence.

Engineer. Sauly According to qualifications and experience.

Preference will be given to candidates who are Associate Members of the Royal Institute of British Architects or hold equivalent qualifications, and who have had experience in the design and supervision of housing estates or domestic buildings.

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, qualifications and experience, together with names and addresses of three referees, should be sent to the City Engineer, Guildhall, Bath, not later than Saturday, 15th October. 1949.

JARED E. DIXON.

Town Clerk.

COUNTY BOROUGH OF DERBY.
PLANNING STAFF APPOINTMENTS (TWO).
Applications are invited for the undermentioned permanent appointments in the Planning Department of the Borough Engineer and Surveyor:—
(a) SENIOR PLANNING ASSISTANT. A.P.T.,
Grade VIII, £685-£760. Candidates should possess a degree or diploma in Architecture or A.R.I.B.A., and be Associate Members of the Town Planning Institute.

a degree or alliome in an about the Town Planning Institute.

Institute.

(b) SENIOR PLANNING ASSISTANT. A.P.T., Grade VIII, £685-£760. Candidates should possess a degree or diploma in : Architecture, Economics or Estate Management, Civil Engineering, or be A.R.I.C.S., A.R.I.B.A., A.M.Mun.E., A.M.I.C.E., and Associate Members of the Town Planning Tactifute.

Institute.

Preference will be given to candidates who have had experience in the detailed planning of new development and re-development in Urban areas, who possess initiative and are capable of taking responsibility for sections of the work of the department.

who possess initiative and six constructions of the work of the responsibility for sections of the work of the department.

Conditions of Service are those formulated by the National Joint Council, and the appointments are subject to the provisions of the Local Government Superannuation Act, 1937, and the successful candidates will be required to pass a medical examination.

The appointments will be terminable by one month's notice on either side.

Applications, appropriately endorsed, together with copies of two recent testimonials, or two names of persons from whom references may be obtained, should be sent to M. L. Francis, F.R.I.C.S., M.I.Mun, E., M.Inst.R.A., Borough Engineer and Surveyor, The Council House, Derby. to reach him not later than Monday, the 17th October, 1949.

Canvassing, directly or indirectly, will be a disqualification, and candidates are required to state whether they are related to any member or senior official of the Council.

E. H. NICHOLS,

The Council House, Derby. September, 1949.

The Council House, Derby.

September, 1949.

CITY OF WAKEFIELD.

CITY ENGINEER'S DEPARTMENT.

TOWN PLANNING ASSISTANT.

Applications are invited for the appointment of Town Planning Assistant. Salary Grade A.P.T., IV (£480-£525).

The appointment will be subject to the Local Government Superannuation Act and to the passing of a medical examination.

Candidates should state in writing whether to their knowledge they are related to any member or senior official of the Corporation. Canvassing will disquality.

Applications, endorsed "Town Planning Assistant," stating age, qualifications, present and previous appointments, and details of experience, with copies of two testimonials, should be sent to me not later than Tuesday, the 25th October, 1949.

W. S. DES FORGES.

W. S. DES FORGES, Town Clerk.

lxiii

October, 1949.

SURREY COUNTY COUNCIL.
COUNTY ARCHITECT'S DEPARTMENT.
Applications are invited for the following

COUNTY ARCHITECT'S DEPARTMENT.
Applications are invited for the following appointment:

CLERK OF WORKS, on major building projects, on the temporary establishment of the County Council. The salary will be up to a maximum of £12 per week, according to the qualifications and experience of the applicant.

All applicants must have been properly trained as craftsmen, and for preference have served as foreman on substantial contracts, prior to 1940.

Applications, stating age, qualifications, full details of experience, salary required, and accompanied by copies of three testimonials, should be addressed to the County Architect, Surrey County Council, County Hall, Kingston-upon-Thames, to reach him not later than the 17th October, 1949.

Canvassing, either directly or indirectly, will disqualify a candidate from consideration.

The Council will be unable to provide any housing accommodation, and the successful applicants will be required to make their own arrangements in this direction.

DUDLEY AUKLAND, Clerk of the Council. County Hall, Kingston-upon-Thames. 2305

Clerk of the Council.

County Hall, Kingston-upon-Thames. 2305

METROPOLITAN BOROUGH OF
WANDSWORTH.

APPLICATION ASSISTANTS.

Applications are invited for the undermentioned Established vacancies in the Borough Architect's Department:—
(a) ARCHITECTURAL ASSISTANT, at a salary in accordance with Grade A.P.T., VII (2665-2740 per annum, inclusive). Candidates should be fully experienced in the design and planning of housing estates, particularly multistorey blocks of flats and/or other framed buildings, and in supervising their erection. Preference will be given to Associates of the R.I.B.A.
(b) ARCHITECTURAL ASSISTANT, at a salary in accordance with Grade A.P.T. III (2480-2525 per annum, inclusive). Candidates must have experience in preparation of working drawings for housing schemes and general architectural work. Preference will be given to those studying for the R.I.B.A. Examinations.

Application forms may be obtained from the Borough Architect, and must be returned to the undersigned not later than 25th October, 1949.

sorough Architect, and must be returned to the undersigned not later than 25th October, 1949.

R. H. JERMAN, Town Clerk.
26th September, 1949.
28th Septem

priate.

Applications, giving full details of experience, professional and technical qualifications, present salary and position held, should be endorsed "Architectural Assistant," and forwarded within 14 days, to Mr. A. C. Evans, Sub-Area Manager, Midlands Electricity Board, 14, Dale End, Birmingham, 4.

A. STEPHENS, Secretary 24th August, 1949.

NEWCASTLE-UPON-TYNE REGIONAL
HOSPITAL BOARD.
NEWCASTLE GENERAL HOSPITAL
(Regional Psychiatric Unit).
The Board desires to appoint a practising ARCHITECT or FIRM OF ARCHITECTS for the conversion of a 3-storey Building at the Newcastle General Hospital into a unit of seventy-five beds, including sixteen beds for the intensive investigation of acute cases. Applicants should preferably have had experience in the planning of Accommodation for Mental Health work and will be desired to contribute fresh and up-to-date ideas to the planning of this unit. Particulars of the Board's system of administration for architectural projects, including, interalia, committee organisation and arrangements for consultations with the appropriate officers of the Hospital Management Committee and the Regional Hospital Board, may be obtained from the undersigned.

The appointment will, in the first place, be limited to the preparation of a sketch scheme. Architects who are willing to receive an invitation to act for the Board are desired to state their special qualifications for undertaking this project (quoting examples of hospital work -executed), and to submit their applications not later than Saturday, 5th November, 1949, to E. B. Jenkins, Esq., Secretary, Newcastle-upon-Tyne Regional Hospital Board, "Dunira," Osborne Road, Newcastle-upon-Tyne, 2.

6th October, 1949.

COUNTY COUNCIL OF NORTHUMBERLAND.
COUNTY ARCHITECT'S DEPARTMENT.
Applications are invited for the post of ASSISTANT ARCHITECT. A.P.T., Grade IV (consolidated salary £480-£525), or Grade V (consolidated salary £520-£570).
The commencing salary and grade will be in
accordance with the qualifications and experience
of the candidate.
The annointment will be subject to accordance.

The commencing salary and grade will be in accordance with the qualifications and experience of the candidate.

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

Applications, stating age, qualifications and previous experience, accompanied by recent testimonials, should be forwarded to the County Architect, County Hall, Newcastle-upon-Tyne, not later than 27th October, 1949.

2358

BOROUGH OF BRENTFORD & CHISWICK.

APPOINTMENT OF ARCHITECTURAL

ASSISTANT.

Applications are invited for the appointment of an Architectural Assistant on the temporary staff, at a consolidated salary according to the APT Division, Grade VI, of the National Scheme, commencing 1st year (£595-£560) plus revised London Weighting according to age.

Applicants should be Associate Examination.

Applicants should have had experience in general architectural work, house planning and design, including the preparation of working drawings, specifications and setting out.

Applications for the above-mentioned appointment must be made on the prescribed form (which contains the particulars and conditions of appointment) obtainable from the undersigned, by whom applications must be received not later than 25th October, 1949.

2313

Town Hall, Chiswick, W.A.

Beptember, 1949.

LONDON COUNTY COUNCIL.

VACANCIES FOR ARCHITECTS. GRADE III.

AND TECHNICAL ASSISTANTS IN THE

ARCHITECT'S DEPARTMENT.

ARCHITECT'S DEPARTMENT.

ARCHITECT'S DEPARTMENT.

ARCHITECT, GRADE III. Salary £550 to £700 a year.

TECHNICAL ASSISTANTS. Balary £440 to £560 a year. Section (a).

TECHNICAL ASSISTANTS. Up to 167s. 6d. a week, Section (b).

Required for the preparation of schemes, working drawings, specifications and estimates for works at schools and other buildings.

Commencing rate according to qualifications and experience. Successful candidates are required to contribute to the Council's Superannation and Provident Fund and are subsequently eligible for permanent appointment and for advancement to higher positions according to merit. Candidates for Grade III positions should poseess appropriate professional qualifications.

Application forms may be obtained from the Architect to the Council (AR/P/A). County Hall, Westminster Bridge. London, S.E.I. enclosing stamped addressed foolscap envelopes. Canvassing disqualifies. (992).

1899 CO-OPERATIVE WHOLESALE SOCIETY, LTD.

ARCHITECT'S DEPARTMENT, LONDON.

ing disqualifies. (992).

CO-OPERATIVE WHOLESALE SOCIETY. LTD.
ARCHITECT'S DEPARTMENT. LONDON.
ADDICATION are invited for the following:—
QUANTITY SURVEYORS, experienced in all branches of building work, with sound knowledge of present day prices, and preferably Members of the R.I.C.S. (Quantities Section). Salary £500-£750.

the R.I.C.S. (Quantities Section).

WORKERS-UP, with thorough knowledge Abstracting and Billing. Salary £350-£600. The appointments are permanent and offer prospects of up-grading. Successful candidates will be required to undergo medical examination for a compulsory Superannuation Scheme.

Applications, stating age, experience, and qualifications to the Chief Architect, Co-operative Wholesale Society, Ltd., 99, Leman Street. London. E.I.

THE CO-OPERATIVE WHOLESALE

THE CO-OPERATIVE WHOLESALE SOCIETY, LTD., invite applications for the following appointments on the staff of the Manchester Architect's Decrease.

invite applications for the following appointments on the staff of the Manchester Architect's Department:—

THREE ASSISTANT ARCHITECTS. Salary 2510-2625 per annum. Applicants are required to have a sound knowledge of building construction and be able to produce working drawings and details from sketch plans. Experience in design and planning of modern industrial buildings, or shopping emporia and retail shops, will be considered an advantage.

ONE ASSISTANT STRUCTURAL ENGINEER. Salary £610-£710 per annum. Applicants are required to have general experience in designing and detailing of structural steel, reinforced concrete and foundation works, and be able to work with a minimum of supervision.

The above appointments are permanent and offer prospects of up-grading to competent Assistants. Successful candidates will be :equired to undergo a medical examination for entry into 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.

DEPARTMENT OF ARCHITECTURE,
SURVEYING AND BUILDING.
SCHOOL OF ARCHITECTURE.
Applications are invited for Part-time appointments of STUDIO INSTRUCTORS and LECTURERS in Contemporary Design. The salary offered is £4 4s. per day, plus recognized travelling expenses.
Further particulars regarding the appointments may be obtained from the Head of Department, Mr. J. M. Scott, B.Arch. (L'pool), F.R.I.B.A.
H. BOYES WATSON.
Education Office, Warrior Square,
Southend-on-Sea.
4th October, 1949.
2377
HUERON-WITH-ROBY URBAN DISTRICT

4th October, 1949.

HUWRON-WITH-ROBY URBAN DISTRICT COUNCIL.

APPOINTMENT OF ASSISTANT BUILDING INSPECTOR.

Applications are invited for the appointment of Assistant Building Inspector, at a salary in accordance with Grade II of the Administrative, Professional and Technical Division of the National Scales, i.e., £420×£15-£465. A car allowance will be paid and the Council will provide housing accommodation, if necessary, for which the successful candidate will pay rent and rates.

which the successful candidate will pay rent and rates.

The position is established and will be subject to the Local Government Superannuation Act. 1937, and the successful candidate will be required to pass a medical examination. Applicants should hold a Building Inspectors' Examination Certificate of the Institution of Municipal Engineers, or of the R.I.B.A.

Applications, stating age, experience, qualifications, and present and past appointments, with the names and addresses of two persons to whom reference may be made, should reach the undersigned not later than the 31st October, 1949.

The E. H. LAWTON, Clerk of the Council.

5th October, 1949.

5th October, 1949.

Clerk of the Council.

Sth October, 1949.

BOROUGH OF LUTON.
BOROUGH ENGINEER'S DEPARTMENT.
TECHNICAL STAFF.
Applications are invited for the following-appointments:—

(a) SENIOR ARCHITECTURAL ASSISTANT (A.P.T., Grade VII. 9630×225—2710 per annum). Housing accommodation will be made available to the successful candidate, if required.
Applicants should be A.R.I.B.A. and have extensive Municipal experience, especially in housing and school works.

(b) ARCHITECTURAL ASSISTANTS, in salary grades ranging between A.P.T., I (£390-£435), and A.P.T., IV (£480-£525), according to qualifications and experience. Applicants must have made some progress in obtaining architectural qualifications, and have had Municipal experience, with particular reference to housing and school works.

The appointments will be subject to the Local Government Superannuation Act, 1937, to the National Scheme of Conditions of Service, and to the successful candidates passing a medical examination.
Applications, appropriately endorsed, giving

Applications, appropriately endorsed, giving details of age, qualifications, experience, present appointment and salary, and accompanied by the names of three persons to whom reference may be made, should be sent to ...
THE BOROUGH ENGINEER, Town Hall, Luton, not later than first post on Tuesday, 1st November, 1949. Canvassing will disquality. Applicants must disclose whether they are related to any member or senior officer of the Council.

W. H. ROBINSON,
Town Clerk.

Town Hall, Luton. 6th October, 1949.

Town Hall. Luton.
6th October, 1949.

BOROUGH OF WILLESDEN.
APPOINTMENT OF ARCHITECTURAL
ASSISTANT.
Applications are invited for the appointment of an Architectural Assistant, on the Permanent Staff of the Borough Engineer and Surveyor's Department.
The salary attaching to the post will be Administrative, Professional and Technical, Grade VI, of the National Whitley Council's Scale for the London area, namely £595 per annum; rising by two annual increments of £20 per annum and one of £25 per annum to £660 per annum, plus London weighting of £30 per annum. Candidates must be Associates of the Royal Institute of British Architects or hold an equivalent qualification, and preferably have general knowledge and experience of architectural work in the service of a local authority.
The appointment will be terminable by one month's notice on either side, is subject to the provisions of the Local Government Superannuation Act, 1937, and the successful candidate will be required to pass a medical examination.
Applications, giving age, experience, etc., accompanied by copies of not more than three testimonials, should be addressed to the undersigned, endorsed "Architectural Assistant," not later than 10 a.m. on Monday, 7th November, 1949.
It will be necessary for the successful candidate to provide his own housing accommodation as the Council is not in a position to assist.
Canvassing, directly or indirectly, will be deemed a disqualification.

(Sgd.) R. S. FORSTER.
Town Clerk.

Town Hall, Dyne Road, Kilburn, N.W.6. 5th October, 1949.

COUNTY OF KINCARDINE.

COUNTY ARCHITECT AND PLANNING OFFICER.

Applications are invited for the post of County Architect and Planning Officer. Applicants should be Architects, preferably with a planning qualification, and should have had practical experience in the whole-time service of a Local Authority.

The salary scale is £850 by annual increments of £50 to £1,050. Placing on this scale may be granted in accordance with qualifications and experience. The post is superannuable and experience. The post is superannuable and experience. The post is superannuable and examination will be required. A house will be available.

A statement of the duties, terms and conditions of appointment, etc., may be obtained from the undersigned, with whom applications, including the names of three referees, should be lodged not later than 29th October, 1949.

JOHN SLEVIN, County Clerk.

Cit

5, Evan Street, Stonehaven. 29th September, 1949.

25th September, 1949.

25th September, 1949.

CITY OF WAKEFIELD.

GITY ENGINEER'S DEPARTMENT.

SENIOR ARCHITECTURAL ASSISTANT.

Applications are invited for the appointment of a Senior Architectural Assistant. Salary Grade A.P.T., VI (£95-£660). Applicants should have had a good experience in Housing and General Works.

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

Candidates should state in writing whether to their knowledge they are related to any member or senior official of the Corporation. Canvassing will be a disqualification.

Applications, endorsed "Senior Architectural Assistant." stating age, qualifications, present and previous appointments, and details of experience, together with copies of two testimonials, should be sent to me not later than Tuesday, the 18th October, 1949.

The Council will consider the provision of housing accommodation if required.

W. S. DES FORGES,

W. S. DES FORGES

24th September, 1949.

NORFOLK COUNTY COUNCIL.
COUNTY ARCHITECT'S DEPARTMENT.
Applications are invited for the following appointments on the permanent staff of the County Architect's Department:

ASSISTANT ARCHITECT. Salary in accordance with National Grade VI (£595-£660 p.a.). Candidates must be Registered Architects, must hold a recognized architectural qualification, and must have had a wide experience in design and construction.

construction.

ARCHITECTURAL ASSISTANT. Salary in accordance with National Grade II (£420-£46)

ARCHITECTURAL ASSISTANT. Salary in accordance with National Grade I (£390-£435

accordance with National Grade I (2300-248)
p.a.).
Candidates should have had good general experience in an architect's office and be capable of good draughtsmanship; previous experience in the office of a local authority is not essential.
The above appointments will be subject to the Local Government Officers' Superannuation Acts, to a satisfactory medical certificate, and to one month's notice on either side. National Scheme of Conditions will apply.

Applications must state clearly age, qualifications, full details of training and experience, particulars of previous appointments, with dates salaries and designations; the names and addresses of three persons to whom reference may be made must be stated, and applications clearly endorsed must be delivered to C. H. THURSTON, LR.I.B.A., F.R.I.C.S., County Architect, 26. Thorpe Road, Norwich, to be received not later than Saturday, 22nd October.

H. OSWALD BROWN, Clerk of the Council. County Offices, Thorpe Road, Norwich. 2293

ISLE OF ELY COUNTY COUNCIL.
COUNTY ARCHITECT'S DEPARTMENT.
Applications are invited for the undermentioned additional appointments on the staff of the County Architect's Department:—
(1) CHIEF ASSISTANT ARCHITECTS (TWO).
Salary Grade VIII (£685 × £25—£760).
(2) SENIOR QUANTITY SURVEYOR. Salary Grade VII (£685 × £25—£760).
(3) SENIOR ASSISTANT ARCHITECT. Salary Grade VI (£585 × £20—£660).
(4) SECIOND SENIOR ASSISTANT ARCHITECT. Salary Grade V(a) (£555 × £20—£610).
(5) CHIEF CLERK. Salary Grade IV (£480× £15—£265).

(5) CHIEF CLERK. Salary Grade IV (£4802. £15-£525).

The appointments are permanent and are subject to the provisions of the National Scheme of Conditions of Service, to the Local Government Act, 1937, and to the passing of a medical examination. The office is progressive, and excellent experience is available over the whole field of County Council building administration.

Forms of application may be obtained from the County Architect, County Hall, March, Cambs., and are to be returned not later that the 28th October, 1949.

R. F. G. THURLOW,

R. F. G. THURLOW, Clerk of the County Council. County Hall, March. 5th October, 1949.

CITY OF CARDIFF.
CITY SURVEYOR'S DEPARTMENT.
ARCHITECTURAL ASSISTANT (EDUCATION).
Applications are invited for the appointment of architectural Assistant (Education), in accordance with A.P.T., Grade VII, £635×225-£710.
Preference will be given to candidates with experience in School Design who are Associates of the R.I.B.A.
The Council will assist in finding housing accommodation for the successful applicant.
Details of conditions and duties may be obtained from the City Surveyor. City Hall, Cardiff.
Applications, endorsed that (Education), Grade VII." together with the names and addresses of three persons to whom reference may be made, should be delivered to the undersigned not later than 10 a.m. on Friday, the 28th October, 1949.

S. TAPPER-JONES.

NING

County plicants lanning ractical a Local

rements may be ns and le and house

nditions

rom the scluding ged not

i, g Clerk.

ANT. ment of y Grade ald have

ether to nvassing itectural present f experi monials, day, the ision of ES,

ENT. following of the

ts, must tion, and sign and

neral excapable rience in ential. ct to the ion Acts, d to one l Scheme

qualificaperience, th dates.

th dates, nes and ence may as clearly JRSTON, tect, 25, not later

Council.

IL. IENT.

under-

S (TWO)

. Salary T. Salary

re subject ne of Con-ment Act, amination. nt experi-of County

ned from , March, ater than

y Council.

2366

alarv

2314

S. TAPPER-JONES.

Town Clerk.

S. TAPPER-JONES.

City Hall. Cardiff.

12th October. 1949.

CHESTERFIELD RURAL DISTRICT

COUNCIL.

ENGINEER AND SURVEYOR'S

DEPARTMENT.

ADDOINTMENT.

ADDOINTMENT.

ADDOINTMENT AND

CHIEF ENGINEERING ASSISTANT AND

CHIEF ARCHITECTURAL ASSISTANT.

Applications are invited for the following appointments in the Engineer and Surveyor's

Denartment:—

(1) CHIEF ENGINEERING ASSISTANT. at a salary in accordance with Grade A.P.T. V. of the National Scale (5520 nor annum, rising by annual increments of £15 to £570).

Candidates must hold a University decree in Civil Engineering and/or be Associate Members of the Institution of Civil Engineers or the Institution of Civil Engineers, and preferably have had experience of schemes of sewerage and sewage disnosal.

(2) CHIEF ARCHITECTURAL ASSISTANT. at a salary in accordance with Grade A.P.T. V. (a), of the National Scale (£550 per annum, rising by annual increments of £20 to £510).

Candidates should be Registered Architects and meterably Associate Members of the Roval Institute of British Architects, and suitably unalified by experience, particularly in Council housing schemes and the measurement of building work and final accounts.

Annlications, riving full details of training, qualifications and experience, together with the names of two persons to whom reference can be made, should be forwarded to the undersiened, endorsed appropriately "Chief Engineering Assistant" or "Chief Architectural Assistant", not later than the 28th day of October, 1949.

The Conneil will give all possible assistance towards the provision of housing accommodation for the successful applicants.

Engineer and Surveyor to the Council will give all cossible assistance towards the provision of housing accommodation for the successful applicants.

for the successful applicants.

I. B. WIKBLEY.
M.Eng., A.M.Inst.C.E., Barrister-at-Law.
Engineer and Surveyor to the Council.
Rural Council House Saltergate.
Chesterfield.

5th October, 1949.

COUNTY BOROUGH OF DONCASTER.
BOROUGH SURVEYOR AND WATER
ENGINEER'S DEPARTMENT.
ARCHITECTURAL ASSISTANTS.
Applications are invited for the following appointments:
(a) ARCHITECTURAL ASSISTANT. Grade
A.P.T., IV (£480-£525 per annum).
Applicants must have had general architectural experience, and be capable of preparing drawings, quantities and estimates.
(b) ARCHITECTURAL ASSISTANT. Grade
A.P.T., II (£420-£456 per annum).
Applicants must be capable of preparing drawings and estimates, for minor repairs and maintenance works.
Applications, stating age, details of experience, Applications, stating age, details of experience.

ings and estimates, for minor repairs and maintenance works.

Applications, stating age, details of experience, accompanied by copies of two recent testimonials, and endorsed "Architectural Assistant," must be delivered to the Borough Surveyor and Water Engineer's Office, 2, Priory Place, Doncaster, not later than Monday, 24th October, 1949.

H. S. ESSENHIGH. 1. Priory Place, Doncaster.

1. Priory Place, Doncaster.

COUNTY OF CAERNARVON.
ARCHITECT'S DEPARTMENT.

APPOINTMENT OF ASSISTANT ARCHITECT.
Applications are invited for the appointment of Assistant Architect. at a salary in accordance with A.P.T., Grade V, of the National Scales (£520 to £570 per annum).

Applicants should have had good experience in the preparation of working drawings and specifications of all types of work, and preference will be given to those who have passed the Intermediate Examination of the R.I.B.A. or are Registered Architects.

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

Applications should be forwarded to the undersigned (from whom forms of application may be obtained) not later than 29th October, 1949.

GWILYM T. JONES,

GWILYM T. JONES, Clerk of the County Council. County Offices, Caernarvon.

CITY OF WAKEFIELD.

CITY ENGINEER'S DEPARTMENT.

PRINCIPAL ARCHITECTURAL ASSISTANT.

Applications are invited for the appointment of one Principal Architectural Assistant, on Grade A.P.T., VII (£635-£710).

Applicants should be A.R.I.B.A. and have had good experience in Housing and General Municipal work.

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

Candidates must state in writing whether to their knowledge they are related to any member or senior official of the Corporation. Canvassing will be a disqualification.

Applications, endorsed "Principal Architectural Assistant," stating age, qualifications, present and previous appointments, and details of experience, should be accompanied by copies of two testimonials, and sent to me not later than Tuesday, the 25th October, 1949.

The Council will consider the provision of housing accommodation if required.

W. S. DES FORGES,

w. S. DES FORGES, Town Clerk. 2353 3rd October, 1949.

DURSLEY RURAL DISTRICT COUNCIL.

ARCHITECTURAL ASSISTANT.
Applications are invited for the appointment of Architectural Assistant, in the Department of the Engineer and Surveyor, at a salary in accordance with Grade IV of the National Scales of Salaries (2490×215-£525), together with travelling allowance upon the appropriate scale. The appointment will be subject to the National Scheme of Conditions of Service for Local Government Officers and to the Local Government Superannuation Act, 1937. The appointment will be terminable by one month's notice on either side. Applicants must possess recognized architectural qualifications, and should have had experience in general architectural work, house planning and design, including the preparation of working drawings and specifications. Although under the control of the Engineer and Surveyor, the successful applicant will enjoy to some extent the status of a Chief Officer, will not be subject to detailed supervision, and will have scope for exercising initiative.

Housing accommodation will be provided if required.

Applications, stating age, qualifications, and full details of experience. together with the names and addresses of two persons to whom reference may be made, should be forwarded to the undersigned to be received not later than the first post on Thursday, the 27th October, 1949, at the Council Offices, Kingshill, Dursley, Glos.

H. A. PATE, Clerk of the Council.

RHONDDA URBAN DISTRICT COUNCIL.
APPOINTMENT OF ASSISTANT ARCHITECT.
A.P.T. Grade VI. £595×£20×£25-£660.
Applications are invited for the above appointment in the Department of the Council's Housing Architect.
Applicants for the post should have a sound general architectural experience, and must be good draughtsmen. Previous Local Government experience is not essential. Lut preference will be given to Associates of the Royal Institute of British Architects.
The appointment will be subject to the Local Government Superannuation Act. 1937, the National Scheme of Conditions of Service, and will be terminable by one month's notice on either side.

be terminable by one month's notice on either side.

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 two persons to whom reference can be made, should be delivered to the undersigned not later than Tuesday, the 18th October, 1949.

D. J. JONES.

Clerk of the Council.

The Council Offices, Pentre, Rhondda.

NORFOLK EDUCATION COMMITTEE.

The Norfolk Education Committee invite Architects resident in Great Britain to submit designs in Competition for a County Modern (Secondary) School at Hunstanton, to accommodate 456 (mixed) pupils.

The assessor nominated by the President of the Royal Institute of British Architects is Mr. Denis Clarke Hall, F.R.I.B.A., 6, Masons Yard, Duke Street, St. James, London, S.W.1.

The last day for submitting designs is 28th February, 1950. The premiums will be £500, £250, £250,

£150. Conditions of the competition may be obtained, on the payment of a deposit of £2, from the undersigned. The deposit is returnable under the conditions governing architectural competitions, as issued by the Royal Institute of British Architects.

W. O. BELL, Chief Education Officer. Norfolk Education Committee, Stracey Road, Norwich. 2388

JOINT COUNTY COUNCIL OF PERTH AND KINROSS.

COUNTY ARCHITECT'S DEPARTMENT.
Applications are invited for the following posts:—
(a) ASSISTANT ARCHITECT for Housing.
Salary scale £520 to £570 (A.P.T., V). Applicants should have considerable experience, preferably in the office of a Local Authority, in the erection of housing schemes, and should be able to take charge of building projects. A house will be available to the person appointed.
(b) ASSISTANT ARCHITECT on General Duties. Salary scale £450 to £495 (A.P.T., III). Applicants should have experience in general architectural work in a Local Authority or private office.

architectural work in a Local Authority of Prince office.

The appointments will be subject to the Local Government Superannuation (Scotland) Act. 1937, and the successful applicants may be required to pass a medical examination.

Applications, stating post applied for, age, qualifications, experience, and accompanied by copies of not more than three recent testimonials, should be lodged with the County Clerk, County Offices, York Place, Perth, not later than 31st October.

A L. BUSHNELL.

of not more than three recent testimonials, should be lodged with the County Clerk, County Offices, York Place, Perth, not later than 31st October.

A. L. BUSHNELL,

County Offices, York Place, Perth.

3245

URBAN DISTRICT OF EAST BARNET.

ENGINEER AND SURVEYOR'S

DEPARTMENT.

Applications are invited for the following permanent appointments:—

(a) TWO SENIOR ENGINEERING ASSISTANTS. A.P.T., Grade V.

Salary scale £250 to £570 per annum, plus the appropriate London weighting.

Applicants should be Chartered Civil Engineers or Chartered Municipal Engineers.

Housing accommodation can be rented to the successful applicants, if deemed necessary.

(b) ENGINEERING ASSISTANT. A.P.T., Grade II.

Salary scale £450 to £495 per annum, plus the appropriate London weighting.

(c) ARCHITECTURAL ASSISTANT. A.P.T., Grade III.

Salary scale £450 to £495 per annum, plus the appropriate London weighting.

Applicants should be qualified by examination for the respective positions, and preference will be given to those applicants having previous experience with Local Authorities.

Each of the appointments will be subject to me mont's notice on either side. and to the provisions of the Local Government Superannuation Act, 1937. Successful candidates will be required to pass a medical examination.

Forms of application may be obtained from the undersigned and should be returned by not later than Saurday, the 22nd October, 1949.

C. M. BARNES, O.B.E., M.I.Mun.E.,

Engineer and Surveyor.

F.R.S.I., Engineer and Surveyor. Town Hall, Station Road, New Barnet, Hertfordshire. 2347

Hertfordshire. 2347

BOROUGH OF CHELMSFORD.
APPOINTMENT OF ARCHITECTURAL
ASSISTANT.
Applications are invited for the above appointment, the salary being in accordance with A.P.T.,
Grade III (£450.£495 per annum). Applicants should be suitably qualified and have had experience on housing work. The appointment is subject to the Local Government Superannuation Act, 1937, and is terminable on the expiration of one month's notice on either side. The successful applicant will be required to pass a medical examination.
Applications, suitably endorsed, giving details of qualifications, experience, appointments held (with salary), and giving the names and addresses of two referees, are to reach the undersigned by noon, Tuesday, 1st November, 1949.

VINCENT J. WILLIS, M.I.Mun.E.,

VINCENT J. WILLIS, M.I.Mun.E., F.R.San.I., Borough Engineer, Surveyor and Architect. Municipal Offices, Duke Street, Chelmsford. 4th October, 1949.

Municiosal Offices. Duke Street, Chelmsford.

4th October, 1949.

GOVERNMENT OF NORTHERN IRELAND.

MINISTRY OF FINANCE.

CHIEF ARCHITECT'S BRANCH.

Applications are invited for posts of ASSISTANT ARCHITECT'S GRANCH.

Applications are invited for posts of ASSISTANT ARCHITECT. Grade B. Appointments will be non-pensionable, but, as far as can be foreseen, will last for several years. Those appointment to established posts as vacancies arise. The works programme embraces design and execution of Factories, Housing and Public Buildings.

Successful candidates will be remunerated according to qualifications and experience, within the salary range £500£750 per annum.

Qualifications: Candidates must be Associates of the Royal Institute of British Architects or possess equivalent qualifications, and must have had good general experience in an Architect's office, including the writing of Specifications.

Preference will be given to ex-Service candidates of the 19441s or 1939-46 war, provided that such candidates can or within a reasonable time will be able to fill the posts efficiently.

Applications, quoting reference S.B.143/49, and giving the date of birth and full details of training and qualifications, should be sent immediately to the Director of Establishments, Ministry of Finance, Stormont. Belfast.

COUNTY BOROUGH OF WALSALL.
PUBLIC WORKS DEPARTMENT.
ASSISTANT ARCHITECT.
Applications are invited for an Assistant Architect, at a salary in accordance with Grade VII of the Administrative, Professional and Technical Division of the National Joint Council's Scales of Salaries (£635×25-£710).
Applicants must be Associates of the Royal Institute of British Architects, and must have had considerable experience in the design and execution of general architectural work.
Consideration will be given to the provision of living accommodation for the successful applicant if this is desired.
Applications, giving age, details of qualifications and experience, together with copies of three recent testimonals, should be received by the undersigned not later than Monday, 24th October, 1949.

M. E. HABERSHON.

M. E. HABERSHON. M. E. HABERSHON,

Borough Engineer and Surveyor.

Council House, Walsall.

4th October, 1949.

2340

Council House, Walsali.

4th October, 1949.

OXFORDSHIRE COUNTY COUNCIL.
COUNTY ARCHITECT'S DEPARTMENT.
Applications are invited for the following appointments:—

(a) ONE ASSISTANT ARCHITECT. A.P.T.,
Grade VII, £535-£710.
(b) ONE PRINCIPAL QUANTITY SURVEYOR. A.P.T., Grade VII, £535-£710.
(c) TWO ASSISTANT ARCHITECT. A.P.T.,
Grade V. £520-£550.
(d) ONE ASSISTANT ARCHITECT. A.P.T.,
Grade IV. £480-£255.
(e) ONE ASSISTANT ARCHITECT. A.P.T.,
Grade III, £450-£495.
(f) ONE ASSISTANT BUILDING SURVEYOR. A.P.T., Grade III, £450-£495.
Candidates for (a) must be Associates of the
R.I.B.A. and have good experience in a County
Architect's Office, particularly regarding Police,
Welfare and Fire Brigade work, and may be required to own and drive a car, for which an
allowance on the Council's scale will apply.
Candidates for (b) must be Associates of the
R.I.B.A., with sound knowledge of school design
and construction.
Candidates for (c) must be Associates of the
R.I.B.A., with sound experience of construction and detailing.
Candidates for (f) should be Students
of the R.I.B.A., with sound experience of construction and detailing.
Candidates for (f) should have experience in
surveying and maintenance work and have passed
the Intermediate Examination of the R.I.C.S.
(Building Surveying).
The appointments will be subject to the provisions of the Local Government Superannuation

(Building Surveying).

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

The Scheme of Conditions of Service of the National Joint Council for Local Authorities' Administrative. Professional, Technical and Clerical Services, as from time to time amended, and as adopted by the Council, is at present applicable to persons appointed on the established staff.

staff.

Applications, stating age, qualifications and experience, accompanied by copies of three recent testimonials, are to be sent to the County Architect, 3. Becket Street, Oxford, not later than 24th October, 1949.

F. G. SCOTT, Clerk of the Council. 2330 County Hall, Oxford.

COUNTY BOROUGH OF NORTHAMPTON.
DEPARTMENT OF BOROUGH ARCHITECT
AND TOWN PLANNING OFFICER.
ASSISTANT ARCHITECT. A.P.T. I (£390-£45).
Applications for the above post, stating age, qualifications, experience, past and present appointments, and salary, whether related to any member or senior officer of the Council, and giving the names of two persons to whom reference can be made, should be delivered to J. L. Womersley, A.B.I.B.A., A.M.T.P.I., Borough Architect and Town Planning Officer, not later than 19th October, 1949.
Canvassing will disqualify.
The successful applicant will be engaged in the first instance in the Housing Section of the Department. Candidates should be approaching Intermediate R.I.B.A. standard, and should preferably have had some experience in an Architect's Office.

C. E. VIVIAN ROWE

C. E. VIVIAN ROWE, Town Clerk.

Guildhall, Northampton.

JOINT COUNTY COUNCIL OF PERTH AND KINROSS.

PLANNING DEPARTMENT.

Applications are invited for the post of ASSISTANT PLANNING OFFICER. Candidates must be Associate Members or have passed the Final examination of the Town Planning Institute, and should have practical experience in planning work. The salary scale is £550 to £610 (A.P.T., Va). The appointment will be subject to the Local Government Superannuation (Scotland) Act, 1937, and the successful candidate will require to pass a medical examination. A house will be available.

Applications, stating age, qualifications and experience, with copies of three recent testimonials, should be lodged with the County Clerk, County Offices, York Place, Perth, not later than 7th November.

CITY AND COUNTY OF RRISTOL.
CITY ARCHITECT'S DEPARTMENT.
Applications are invited for the following permanent staff appointments:
SENIOR ASSISTANT ARCHITECTS:
(4) Grade V (£250-£570) (Housing and Education Sections).
ASSISTANT ARCHITECTS:
(b) Grade IV (£480-£525) (Housing Section).
(c) Grade IV (£480-£455) (Education Section).
(d) Grade II (£420-£465) (Housing and Education Sections).

(c) Grade III (£450-£495) (Education Section).
(d) Grade II (£420-£465) (Housing and Education Sections).
JUNIOR ASSISTANT ARCHITECTS:
(e) Grade I (£390-£455) (Housing Section).
Applicants for appointment (a) should be
Associate Members of the R.I.B.A. or hold
equivalent qualification and have good general
experience in Local Authority Office work will
be an advantage.
Appointments are subject to provisions of Local
Government Superannuation Acts, 1937 and 1939,
and successful applicants required to pass medical
examination. All appointments terminable by
one month's notice in writing on either side.
Housing accommodation provided, if necessary,
at an economic rent.
Applications, indicating specific appointment
applied for, stating age, training, qualifications,
experience, present appointment and salary, and
the names of two referees, must be delivered to
October, 1949.

J. NELSON MEREDITH, P.B.I.B.A.

J. NELSON MEREDITH, F.R.I.B.A.,
City Architect.
Eagle House, Colston Avenue, Bristol, 1.
30th September, 1949.

Eagle House, Colston Avenue, Bristol, 1.

30th September, 1949.

HEREFORDSHIRE COUNTY COUNCIL.
COUNTY ARCHITECT'S DEPARTMENT.
Applications are invited for the following appointments on the permanent staff:

(a) ONE ASSISTANT ARCHITECT. Grade VIII. A.P.T. Division. £685.225 to £760 per annum. Candidates must be Associate Members of the R.I.B.A. and be able to take charge of a section of the drawing office. If the successful applicant can provide a car. travelling allowance will be payable in accordance with the scales adopted by the Council.

(b) TWO ASSISTANT ARCHITECTS. Grade VI, A.P.T. Division, £995 to £660 per annum. Applicants must be Associate Members of the R.I.B.A.

(c) ONE ASSISTANT HEATING AND ELECTRICAL ENGINEER. Grade III. A.P.T. Division, £450 ×£15 to £495 per annum. Applicants must be competent draughtsmen, experienced in the design of electrical installations, central heating and domestic and hot water systems for large buildings, the preparation of specifications, estimates and reports, the supervision of new and the maintenance of existing installations.

The appointments will be subject to the provisions of the Local Government Supramanetics.

Installations.

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

Forms of application may be obtained from W. Usher, A.R.I.B.A., County Architect, County Offices, Bath Street, Hereford. Please state clearly whether form is required for (a), (b) or (c). Completed applications are to be received not later than Monday, 24th October, 1949. 2329

BOROUGH OF HESTON AND ISLEWORTH.
Applications are invited for the following appointments in the Department of the Borough Engineer and Surveyor:

(a) TWO SENIOR ARCHITECTURAL ASSIS-

(a) TWO SENIOR ARCHITECTURAL ASSISTANTS.

Salary in accordance with Grade VI of the A.P.T. Division, at the rate of £595×£20×£20×£20×£20×£20 per annum, plus London weighting of £30 per annum.

Applicants must hold the examination qualification for the Associateship of the Royal Institute of British Architects or a University degree or diploma in architecture approved by the Institution.

Applicants must have had good experience in architectural design of a general character, and preference will be given to candidates experienced in housing and other local government work.

(b) GENERAL ARCHITECTURAL ASSISTANT.

(b) GENERAL ARCHITECTURAL ASSIS-TANT.

Salary in accordance with Grade III of the A.P.T. Division, at the rate of £450×£15-£495 per annum. plus appropriate London weighting. Applicants should have good architectural experience, and should have passed the Intermediate Examination qualifying for Associate Membership of the Royal Institute of British Architects. Preference will be given to candidates who have had experience in the preparation of working and detail drawings in connection with housing and other local government work.

The appointments are to established posts and subject to the National Scheme of Conditions of Service. Forms of application may be obtained from the Borough Engineer and Surveyor, 88, Lampton Road, Hounslow, Middlesex, by sending a stamped addressed envelope.

Application on the forms provided, endorsed (a) "Senior Architectural Assistant," or (b) "General Architectural Assistant," or be delivered to the Borough Surveyor not later than noon on 31st October, 1949.

Canvassing will disqualify.

HAROLD SWANN, Town Clerk

CITY AND COUNTY BOROUGH OF BELFAST.
CITY ENGINEER AND SURVEYOR'S
DEPARTMENT.
APPOINTMENT OF ASSISTANT ARCHITECTS,
Applications are invited from qualified persons
for appointment as Assistant Architects, Class

Candidates must be Registered Architects, with minimum of 5 years' practical experience as

aminimum of 5 years' practical experience as such.

The salary attached to the office is £350 per annum, rising by annual increments of £25 to £550 per annum, plus cost-of-living bonus varying from £78 to £90 per annum.

The commencing salary will be determined in the light of the qualifications and experience of the person appointed.

Candidates must not be more than 45 years of age on the date of taking up the appointment.

Preference will be given to ex-Service candidates, possessing the required qualifications, provided the Council is satisfied that such candidates can, or within a reasonable time will be able to, fill the posts efficiently.

Forms of application and conditions of appointment may be obtained from the City Surveyor at Room 39, City Hall, Belfast.

Applications, endorsed "Appointment of Assistant Architect, Class I." and accompanied by copies of three recent testimonials, must be lodged with the undersigned not later than 4 p.m. on Monday, 31st October, 1949.

Canvassing in any form, oral or written, direct or indirect, will, if proved to the satisfaction of the appointing authority, disqualify a candidate for appointment.

JOHN DUNLOP, Town Clerk.

City Hall, Belfast.
October, 1949.

City Hall, Belfast.

October. 1949.

CAMBRIDGESHIRE COUNTY COUNCIL.

COUNTY PLANNING DEPARTMENT.
Applications are invited for the following appointments:—
(a) PLANNING OFFICER. Grade A.P.T.,
VIII (salary £685-£760 per annum).
(b) PLANNING ASSISTANT. Grade A.P.T.,
V (salary £260-£570 per annum).
(c) PLANNING ASSISTANT.
IV (salary £480-£525 per annum).
Candidates for the Grade VIII appointment must be Corporate Members of the Town Planning Institute. The appointments are subject to the Provisions of the Local Government Superannuation Act, 1937, and to the Council's Condition of Service and a medical examination.
Applications, stating age, past and present appointments (with dates), qualifications, present salary, and the names of two referees, should be sent to the undersigned not later than the 31st October, 1949, endorsed "Planning Officer" or "Planning Assistant."

"Planning Assistant."

CHARLES PHYTHIAN,
Clerk of the County Council.

Shire Hall, Castle Hill, Cambridge.

BOROUGH OF SOUTHALL.
APPOINTMENT OF ARCHITECTURAL
ASSISTANT.

Applications are invited for the appointment on the permanent staff of Architectural Assistant, in the Borough Engineer's Department, at a salary in accordance with A.P.T., Grade IV, of the National Scheme (£480-£525), plus appropriate London weighting.

Candidates should have passed the R.I.B.A. Intermediate Examination and have had local government experience.

Intermediate Examination and have had local government experience.

The post is subject to one month's notice on either side and to the Local Government Superannuation Act of 1937.

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

Application, on forms to be obtained from the Borough Engineer, Town Hall, Southall, must be returned to him by 5 p.m. on Thursday, 27th October, 1949. J. S. SYRETT, Town Clerk.

CITY OF OXFORD.
CITY ARCHITECT AND PLANNING
OFFICER'S DEPARTMENT.
Applications are invited for the undermentioned post on the Permanent Staff of the City Architect and Planning Officer's Department:

SENIOD PLANNING

City Architect and Planning Officer's Department:

Senior Planning Officer's Department:

Salary within the grade £550×£20—£510 per annum (Grade Va, A.P.T. Division).

The successful applicant will be required to carry out work in connection with the preparation of the Development Plan and planning administration in the City, and should have passed the Final Examination of the Town Planning Institute.

Housing accommodation at a reasonable rent will, if required, be made available by the Council to the successful applicant.

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

Further details of the duties and application forms, which must be used in applying for the post, may be obtained from E. G. Chandler, A.R.I.B.A., A.M.T.P.I., City Architect and Planning Officer, Town Hall, Oxford, and completed forms must be returned not later than Monday, the 24th October, 1949.

tober, 1949.

HARRY PLOWMAN.

Town Clerk.

2331

Tenders

Tenders

COUNTY BOROUGH OF SMETHWICK.
ESTATES COMMITTEE
TO BUILDERS AND CONTRACTORS.
Erection of New Offices and Extensions to Existing Garage with Offices, etc., at rear of Council House, High Street, Smethwick.
The Estates Committee invite Tenders for the erection of above buildings, which consist of concrete raft foundations, brick walling and concrete foundations, lining and finishing to part pre-fabricated structure and attendance on erectors of same.

Copies of drawings, Specification and Form of Tender may be obtained on application in writing to Mr. Roland Fletcher, M.Inst.C.E., Borough Engineer and Surveyor, Council House, Smethwick, on or after 17th October, 1949. Applications should be accompanied by a cheque for £2 2s., made payable to the "Borough Treasurer, Smethwick," by way of deposit. The deposit will be returnable on receipt of a bona fide tender not subsequently withdrawn.
Tenders on the forms provided, enclosed in plain sealed envelopes, endorsed "Tender for council House Extensions," without any name or mark indicating the sender, must be delivered to the offices of the undersigned not later than 3st October, 1949.

The Corporation do not bind themselves to accept the lowest or any tender.

E. L. TWYCROSS,

Town Clerk.
October, 1949.

Council House, Smethwick.

October, 1949.

COUNTY BOROUGH OF SMETHWICK.
HOUSING COMMITTEE.
TO BUILDERS AND CONTRACTORS.
ERECTION OF:
(1) One Pair of 3-bedroom Houses, West Park

(1) One Pair of 3-bedroom Houses, West Park Road.
(2) One Block three 3-bedroom Houses, Warley Road and Queens Road.
(3) Two 1-bedroom and two 2-bedroom "Duplex" Dwellings, Halford Street.
The Housing Committee invite Tenders for the erection of above dwellings situate within the County Borough of Smethwick.
Copies of plans, Specification and Form of Tender may be obtained on application in writing to Mr. Roland Fletcher. M.Inst.C.E., Borough Engineer and Surveyor, Council House. Smethwick, on or after 10th October, 1949. Applications should be accompanied by a cheque for £2 2s., made payable to the "Borough Treasurer, Smethwick," by way of deposit. The deposit will be returnable en receipt of a bona fide tender not subsequently withdrawn.
Tenders may be submitted for either or all sites. Tenders on the forms provided, enclosed in plain sealed envelopes, endorsed "Tender for 9 Dwellings," without any name or mark indicating the sender, must be delivered to the offices of the undersigned not later than 26th October, 1949.
The Corporation do not bind themselves to

1949.

The Corporation do not bind themselves to accept the lowest or any tender, and reserve to themselves the right to divide the contract.

E. L. TWYCROSS, Town Clerk.

Council House, Smethwick. 30th September, 1949.

Business for Sale

COLSPIE, SUTHERLAND.—For Sale, by private bargain, the Architects' and Surveyors' Business in Golspie, carried on by the late Major George Murray, under the Firm name of Horne & Murray; Major Murray had a retainer from the Sutherland Estates, which will be continued to a suitable person; offices in Sutherland Estate buildings; office furniture, books, instruments, etc., to be taken at valuation. For further particulars apply to A. N. Macaulay & Co., Solicitors, Golspie, who will receive offers. 2360

Architectural Appointments Vacant lines or under, 5s.; seek additional line, 1s. 6d.

A BCHITECTURAL ASSISTANTS required immediately for interesting and varied work on Schools, Hospitals, University Buildings, Bousing, etc.; salary dependent on experience and qualifications. Apply personally by telephone or in writing. Pite Son & Fairweather, Chartered Architects, 6, Queen Anne's Gate, Westminster, 5.W.1. Whitehall 5576.

S BNIOS ASSISTANT ARCHITECT, 5.W.1. Whitehall 5576.

S BNIOS ASSISTANT ARCHITECT S and ARCHITECTURAL ASSISTANT and also taxperience, age, qualifications and salary required, to B. Bates and Wm. G. Sinning, 69, Chancery Lane, W.C.2.

ARCHITECTURAL DRAUGHTSMAN required in established practice, mainly business premises over whole country; pleasant conditions; permanent and good prospects. Apply with all particulars to North & Partners, Queen Street Chambers, Maidenhead. Architectural Appointments Vacant

Chambers, Maidenhead.

ARCHITECTURAL ASSISTANT required by large Transport Company. Progressive post with varied experience. Superannuation Scheme. Send details of education and work history with salary required to Box 2254.

A SSISTANT BUILDING SURVEYOR required by large Transport Company. Progressive post with varied experience. Superanuation Scheme. Send details of education and work history with salary required to Box 2255.

NORTH THAMES GAS BOARD.—ARCHITECTURAL ASSISTANTS required, preferably experienced in the design, alteration and maintenance of Industrial buildings, and capable of preparing surveys, working drawings, details and specifications; starting salary range £480-£560 per annum, according to age and qualifications; the appointment is of a permanent nature, and pension arrangements will be discussed with short list candidates. Applications, stating age and full particulars of training and experience, should be sent to the Staff Controller, North Thames Gas Board, 30, Kensington Church Street, London, W.8.

NAPABLE ASSISTANT required for general

Thames Gas Board, 30, Kensington Church Street, London, W.8.

2197

CAPABLE ASSISTANT required for general practice; able to take complete charge of contracts; accommodation available. C. B. Martindale, A.R.I.B.A., Cathedral Chambers, Castle Street, Carlisle.

2265

RCHITECTURAL ASSISTANT required; experienced, able to take charge of small drawing office, good draughtsman, with knowledge of Quantity Surveying and Specifications. Reply in writing, stating full particulars and salary, to J. M. Porter & Co., The Estate Office, Colwyn Bay.

ASSISTANT ARCHITECT required for work of great variety; applicants should be A.R.I.B.A., preferably school trained, with office experience, and able to assume responsibility for all stages of work and large contracts. Write, stating age, experience, and salary required, to T. P. Bennett & Son, 43, Bloomsbury Square, W.C.I. Telephone Chancery 6691.

2274

M.C.I. Telephone Chancery 6691. 2274

TWO qualified ARCHITECTURAL ASSISTANTS required, with experience of design and working drawings, in private office, London West Central area. Apply, giving particulars of experience and salary required, to Box 2275.

ARCHITECT in Midland town urgently recontemporary work on schools, factories, etc., to work at home or in Architect's office; good remuneration and prospects; give details of capabilities. Box 2309.

ARCHITECTURAL ASSISTANT required by S.W. England firm of Architects; must be capable of preparing working drawings, details surveys and taking levels. Reply, giving full particulars of experience, age and salary, to Box 2298.

Box 2298.

SANITARY ENGINEER.—ASSISTANT required for Architect's office, London West Central area; must be neat draughtsman with general knowledge of sanitation and experience of modern drainage, design, services, etc.; give details of experience, age, salary required, and date available, to Box 2290.

ARCHITECTURAL ASSISTANT, capable of working with little or no supervision, required by City firm of Architects and Surveyors; good prospects for right man. Write, with details of qualifications, experience, age, and salary required, to Box 2294.

ARCHITECTURAL ASSISTANT required:

of qualifications, experience, age, and salary required, to Box 2294.

ARCHITECTURAL ASSISTANT required; capable of preparing sketch schemes, working drawings, and details for housing and light industrial work; North-West Kent area. State experience and salary required to Box 2296.

A SSISTANTS required in Architect's office in London; must have good knowledge of construction, and be capable of surveying buildings; preparing working and detail drawings; prospect of permanency for suitable applicants. Write, stating age and experience. Box 2283.

EENIOR DRAUGHTSMAN, Inter. to Final standard, required urgenty. Write, stating experience and salary required, Kenneth Anns. LR.I.B.A., 1, Lincoln's Inn Fields, W.C.2. 2325

ARCHITECTURAL ASSISTANTS required for general architectural practice. Reply, stating experience and salary required, to Thomas Worthington & Sons, 178, Oxford Road, Manchester, 13. 2289

ENIOR ARCHITECTURAL ASSISTANTS

Chester, 13.

2289

SENIOR ARCHITECTURAL ASSISTANT, Final Standard, and JUNIOR ASSISTANT, Intermediate Standard, required for varied and interesting work in connection with development programme of a Brewery Company in the Birmingham area; the appointments would become permanent to suitable candidates, and superannuated. Apply, stating age, experience and salary, to Box 2285.

EXPERIENCED young ASSOCIATE required in London office; keen on a career in private practice, and capable of executing work from initial instructions to final account; complete freedom of action in organising own routine. For particulars apply Box 2370.

A RCHITECTURAL ASSISTANTS required, with a minimum of three years' office experience, to assist with working drawings for schools, canteens, etc. Please write, stating qualifications, experience, and salary, to Elie Mayorceg, F.R.I.B.A., 13, David Mews, London, W.1. 2375

RICHARD SHEPPARD & PARTNERS require both SENIOR and JUNIOR ASSISTANTS; interesting work; experience desirable, intelligence essential; salaries commensurate with these qualities. Please apply by letter to 21, Coram Street, London, W.C.1.

ARCHITECT'S ASSISTANT, with knowledge of general practice, for London office engaged on housing, farm, and industrial contracts; salary in relation to experience. Box 391.

SENIOR ASSISTANT required; able to take full charge of progressive architectural work; applicants are requested to give particulars in writing, of training, experience, and salary requested. Apply Drake and Lasdun, 29, Sackville Street, W.1.

ZAPERIENCED DRAUGHTSMAN required; capable of preparing working drawings of timber-framed buildings; joinery details and perspective aketches; state age. experience, and salary required. Box No. 62, C.R.C., 29, Hertford Street, W.1.

perspective aketches; state age, experience, and salary required. Box No. 62, C.R.C., 29, Hertford Street, W.1.

Required. Box No. 62, C.R.C., 29, Hertford Street, W.1.

Required. STUDENTS, with good designing ability and expeditious for Architects' office, with rapidly expauding practice, in very pleasant south-west coastal town; assistants of good Intermediate standard may suit if thoroughly sound constructionally and have above qualifications. In replying please give full details, including whether married or single, when available, and approximate salary required. Box 236.

RCHITECTURAL ASSISTANTS required by Manchester Consulting Engineers for building work in connection with new Generating Stations and general industrial construction; salary range £500 upwards, according to qualifications; full Superannuation Scheme in being. Applications, giving full particulars of age, training and experience, etc., to C. S. Allott & Son, 1, North Parade, Manchester, 3. 2337

RCHITECTURAL ASSISTANT required in London office; R.I.B.A. Intermediate standard; salary according to experience G. H. N. Inman & H. A. J. Darlow, F./A.R.I.B.A., The Charterhouse, E.C.1. (CLE. 4414.) 2338

RCHITECTURAL ASSISTANT required; RCHITECTURAL ASSISTANT required; specifications, supervision; industrial commercial, domestic and ecclesiastical work; responsible post, in Canterbury area; salary by arrangement, with share in profits. Write, stating age and experience, to Box 2339.

snare in pronts. Witho, seeming by the seeme, to Box 2339.

A RCHITECTURAL ASSISTANT required; R.I.B.A. Intermediate or Final standard; good draughtsman. Apply, stating age, experience, and salary required, to The Grenfell Balnes Group, Newton Aycliffe Planning Office. Simpasture, near Darlington.

J UNIOR ARCHITECTURAL ASSISTANT required; (Male or Female) for general practice. Write, stating age, experience, and salary required, to G. Scott Baird, Chartered Architect, Salisbury Street, Blandford, Dorset.

TWO ARCHITECTURAL ASSISTANTS, of Intermediate standard, required in South-Western Architect's Office. Write Box 2343.

SENIOR ARCHITECTURAL ASSISTANT required for an appointment in Company Architect's office in London; salary up to £850 per annum, according to experience and qualifications. Also JUNIOR DRAUGHTSMAN required, of Intermediate standard. Applicants should state age, experience, and qualifications to Box 2342.

SENIOR ARCHITECTURAL ASSISTANTS required, Apply in writing, stating age, experience and salary required, Lucas, Roberte & Brown, Architects and Surveyors, Barnfield Hill, Exeter.

A RCHITECT'S ASSISTANT required; Intermediate R.I.B.A. or equivalent standard; experienced in commercial and industrial buildings, preferably Retail Stores; liberal salary; permanent position. Write fully, stating age, training, experience, Staff Office, Busbys' (Bfd.), Ltd., Manningham Lane, Bradford.

Architectural Appointments Wanted

QUALIFIED QUANTITY SURVEYOR, desiring change, age 32, keen worker, seeks appointment with Architects or Builder; preference to appointment where housing accommodation available. Reply for further particulars. 380

ence to appointment where housing accommodation available. Reply for further particulars. 380

A R.I.B.A., over 20 years' experience and used to responsibility, seeks a position in the South, having prospects of Partnership; capable of dealing with the various Ministries, authorities and regulations relative to the restrictions on modern building. Box 381.

I CENTIATE (41), fully experienced and able to handle jobs from start to finish, desires responsible position; North or mid-Lancashire preferred. Box 382.

A FRICAN Student (24, male), without previous experience, desires post 28 JUNIOR ASSISTANT in Architect's office; London area; taking first year course in Architecture at Regent Street Polytechnic. T. O. Ekwulugo, 24, Jamestown Road, London, N.W.I. 385

JUNIOR ARCHITECTURAL ASSISTANT (Gaildford district; experienced draughtswoman and secretary. Box 386.

MANAGING ASSISTANT (Chartered Architect's office, or professional work, seeks; permanent position in a similar capacity, with prospects; London area preferred. Box 390.

lxvii

AST. CTS

with ce as rying

ers of andi. le to.

pointor at ed by m. on

direct didate

2387 IL. A.P.T.

.P.T. 1.P.T., Plan-

Subject Super-s Con-n. present present ould be the 31st er" or

AL nent on appro-

ouncil.

d local tice on ired to om the must be y, 27th

T. Clerk.

Depart 610 per aired to

under-

prepara-planning ld have le Town ble rent

National vernment uccessful medical

plication for the Chandler. ect and and com-ter than

AN. on Clerk.

A. R.I.B.A. (33), experienced commercial work and site supervision, desires position as SENIOR ASSISTANT in London area. 389

SENIOR ASSISTANT in London area. 389

ARCHITECT, 15 years' experience industrial, housing, schools, hospitals, can take charge of drawing office and supervision; appointment required London area; salary 2702-2750. Box 387.

ARCHITECT (39), relinquishing own small London practice for obvious reasons, earnestly searching for Senior responsible position with advanced thinking Architect or Group or Company; school training, etc.; excellent wide experience first quality work, Scotland and England; definite ability, contemporary design and detail and constructional knowledge; town planning experience; industrial design consultant.

388

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

A R C H I T E C T U R A L journal requires
EDITORIAL ASSISTANT; knowledge of
architecture essential; some journalistic experience and knowledge of magazine production useful. Box 348.

ful. Box 348.

High-Grade Technical Selling gives ample accepted to self-expression and an income limited only by ability. A well-known company requires the services of Two Architecturally-trained Men with a bent in this direction, to put forward the technical possibilities of a product in every-day demand, to Architects and Local Authorities. One to be centred in London and one in the North Midlands. Their sphere of operations would be on a national scale, supported by National Advertising, poetal publicity, and a strong field organization. Address reply in confidence to the Sales Manager, Box 2038.

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 366.

ESTIMATORS required; used to Architectural Metalwerk. Apply personally or by letter to Morris Singer Co., Ferry Lane Works, Forest Road, Walthamstow, E.17.

Road, waitnamstow, E.17.

DEORATIVE DRAUGHTSMAN, to specialise in Fibrous Plasterwork—period and contemporary; good knowledge of Building construction, Clark & Fenn, Ltd., 16, 0ld Town, Clapham.

Road, Waithamstow, E.17.

MANAGER for firm of Building Contractors in Shropshire, employing approximately 100 men; must have wide experience of setting out, ability to control labour and taking complete charge of contracts, Apply in writing, stating age, experience, and salary required, to Managing Directer, Whitchurch (Salop) Contractors, Ltd., Castle Hill, Whitchurch, Salop. 2365

Services Offered

Services Offered

4 lines or under, 2s. 6d.; each additional line, 1s

A BCHITECTURAL Research or Development
Mork undertaken, of either contemporary or
historical nature. Write Box 2032.

DESIGNS, Plans, Perspectives, Illustrations for
Caravan designs; Joinery and Cabinet work;
Architectural Metalwork; Interiors; complete
pencil service. C. Leslie New, A.N.Inst., Architectural Designer, 35, Heath Street, Birmingham, 18. MID. 5421.

DUPLICATING.—Specifications, Bills of
Quantities, Estimates, etc., expertly typewritten or duplicated; moderate charges;
qualified, Miss Stone, 6, Duke Street, S.W.1.

Whitehall 9882.

written or qualified. Mi Whitehall 9682.

Whitehall 9682.

L ONDON Firm of Architects and Surveyors, are prepared to assist other professional offices with Surveys, Negotiations, etc. Box 2327.

CAPABLE SHORTHAND - TYPIST - SECRETARY seeks position in Architect's office.

A RCHITECTURAL
Standard) offers Part-time Assistance to Architects in London area, preferably at own address; Working Drawings, Details, Specifications, etc. Please reply to Box 2382.

CAPABLE SHORTHAND - TYPIST/SECRE-seeks position, preferably in West End. Please write Box 2380.

REE-LANCE SURVEYOR offers Services to Architects requiring accurate surveys of land and buildings, levelling, contouring, etc; own car and complete equipment.

A RCHITECTURAL Work undertaken; designate tracing, colouring, perspectives, architectural and town planning models; precision work guaranteed.

A B.I.B.A., experienced, available part-time to carry out work from design stage to completion. Box 2310.

For Sale

Lo ser sul

R

10

M

This

build

who

char

and

book

auth

71 in

4 lines or under, 5g.; each additional line, 1s. 64

A RCHITECT'S OAK CABINET, with drawing top, drawers and plan trays, top cupboard leaded lights; a handsome piece of furniture, can be viewed; price £59; 5 ft. 8 in. log 3 ft. 3 in. wide, 8 ft. 6 in. high, with oak cornies. Phil Thompson, Tower Ramparts, Ipswich. 200

WAR Damaged Properties; Mayfair and other districts; suitable purchases for Builden and Contractors. Enquiries to Blake & Co., 128, Mount Street. GRO. 3761.

FOR DISPOSAL.—The entire shareholding of Building and Contracting Company with considerable losses available. Apply Box 31. Wilfrid Tisbury & Co., Ltd., 18, Park Street, W.1.

Miscellaneous

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

A J. BINNS, LTD., Specialists in the supply and fixing of all types of fencing, guardrail, factory partitions and gates. Harvest vortex, 99-107, 8t. Pauls Road, N.I. Canoubury 2001.

PECIALISTS in Gilding and Lettering in 23 carat English gold leaf. Messrs, F. C. Edwards, 13, Cunningham Place, N.W.8, undertake all types of signs and gilding work at competitive prices. Phone CUN, 3827.

OIL-FIRED BOILERS mean no stoking, existically controlled, resulting in economical us. Complete change-over within few days by fitting Britain's Best Burner, The "Parwinac" Fully automatic Oil Burner. Ask for List OB40, Parket, Winder & Achurch, Ltd., 90, Broad Street, Birmingham, 1.

A LL BOOKS of interest to Architects, published in this country and in America, an 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.

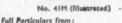
DOMESTIC BOILERS



with British Standard No. 758

Designed in accordance

- Patented hinged hotplate cover
- Vibratory type shaking grate
- Constant hot water
- Low fuel consumption
- Durable enamel finish
- Easy clean surface
- Made in 4 capacities from 21,000 to 41,000 B.T.U's.
- Approved by Fuel Efficiency Dept. of Ministry of Fuel and Power.



R. TAYLOR & CO. (Ironfounders) LTD.

Muirhall Foundry, Larbert, Stirlingshire London Office & Showrooms :- 66, Victoria Street, S.W.I.
Also at Building Centre, 9, Conduit Street, W.I.



Strictly private

THE PRIVACY of the home is very strictly preserved by the Chubb Mortice Front Door Locking Latch, which ensures utmost resistance to intrusion. Constructional features include an extra strong bolt, monitor lever, close gating, and dead locking. Architects can specify this sturdy lock with complete confidence in its lasting efficiency. Complete with fixing 100 screws and three keys. Illustrations and details sent on request.

HUBB front door LOCK



Chubb and Son's Lock and Safe Co. Ltd., 40-42 Oxford Street, London, W.1

A CCOMMODATION suitable for Professional Office available for letting. Apply 13, 2341

signs, ctural work 2364

t-time ge te

le. 6d. awing

board, niture; long, ornice.

2323

other uilders >., 129, 2333

ing d with fox 31, t, W.1, 2367

1s. 6d.

supply guard Works, 161.

ing in F. C. under-t com-

extr thermo-cal use. fitting Fully Parker, et, Bir-

s, pub-ca, and Victoria egularly of new

1

g

WJ

A RCHITECTURAL STUDENT (Woman) urgently seeks accommodation, breakfast, evening meal with family, preferably outskirts London; term time only; could offer part-time service to Architect, or coach children all school subjects, if required—experienced both. Box 2376.

ESTABLISHED Firm invites enquiries from Marchitects wanting accurate and sensitive Models at a reasonable price. Jonda, Ltd., Studio 5, Sydney Close, S.W.3.

Educational Announcements

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

R. I.B.A. EXAMS.—Mr. L. Stuart Stanley,
M.A., F.R.I.B.A., M.T.P.I., Dist. in
T.P. Clutor in the Sch. of Arch., Lond. Univ.),
prepares Students by correspondence tuition.
15, North Road, N.6. MOU. 8104

INTER, FINAL & A SPECIAL FINAL.

Postal Courses in all subjects of the examination sylla-bus (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: KENsington 8641

QUALIFYING EXAMINATIONS R.I.B.A. AND

INTER & FINAL

T.P.I. FINAL

Courses of Instruction by Correspondence and Personal in Studio

C. W. BOX F.R.I.B.A., A.I.STRUCT.E., M.R.SAN.I. 115 GOWER STREET, W.C. Euston 3906

DRAUGHTSMAN DESIGNER

with first class experience of Architectural Metalwork required by the MORRIS SINGER COMPANY LTD.

Apply giving full particulars to:-FERRY LANE WORKS, FOREST ROAD, WALTHAMSTOW, E.17

MINISTRY OF WORKS

BRISTOL

Applications are invited for posts of ARCHI-TECTURAL ASSISTANTS, at salaries from £292 per annum to £510 per annum, slightly lower for

Appointments are in an unestablished capacity, with prospects of advancement and security. Commencing salaries will be determined according to age, qualifications and experience.

Successful candidates will be required to under-take the preparation of sketch plans, working drawings and specifications for Government build-ing work of all types.

Replies should be made in writing, stating age, to C. A. E. THATCHER, A.R.I.B.A., Assistant Regional Distotor, Ministry of Works, 5, Priory Road, Bristol, 8.

"GUIDE ANSWERS"

R.I.B.A. FINAL

Numerous past Examinations answered & illustrated in detail

S. UNDERWOOD A.R.I.B.A., M.R.San.I. 13, Langham Court, BAYNES PARK S W 20

INFORMATION SHEETS on Draughtsmanship and Drafting Practice

Standen by Eagle Pencil Company provide a comprehensive source of reference, and are valuable in assisting the standardisation of drafting practice throughout an individual office. Copies on request to:

Eagle Pencil Co., Tottenham N.17

Makers of Chemi-scaled
TURQUOISE Pencils

STEELWORK

Head Office: The Parade, Sunbury-On-Thames, Middlesex

Phone: Sunbury 3210.

Works: Swan Works, Hanworth, Middlesex and at Hayes, Middlesex.

Phone: Feitham 3007, Telegrams: "Sharman, Sunbury" (All communications to be addressed to Head Office.)

by **MORR**

Herbert Morris Ltd

Loughborough

Engineering branches in London, Glasgow, Manchester, Birmingham, Leeds, Sheffield, Newcastle, Cardiff, Bristol, Dundes, Liver-pool, Nottingham, Bury St. Edmunds, Belfast

MODELS

ESTAB. BY

John B. THORP

FOR 98 GRAY'S INN ROAD, TOWN PLANNING PUBLIC BUILDINGS ESTATES and INTERIORS

TELEPHONE:

HOLBORN 1011

CIRCUIT BREAKERS to control electric

TOT STARTERS

for electric motors of up to 1,000 H.P.

Specify ELLISO

& PRESTON

KINWEST

DRAWING

AIR CONDITIONING & HEATING HOT & COLD WATER SERVICES SANITARY ENGINEERING ETC.

NEWCASTLE HOUSE - CLERKENWELL CLOSE - LONDON - E - C - F Phone: Clerkenwell 6344 outh & Dublin

the modern SCHOOL

by C. G. STILLMAN, F.R.I.B.A. and R. CASTLE CLEARY, A.B.I.B.A.

This book gives a comprehensive account of the architectural and building problems which face educationalists today. It surveys the whole field beginning with the historical background and ending with a chapter on modern constructional design; it examines the contemporary architectural problem in relation to the Education Act and deals with each special aspect of school design in detail. It is a book designed to be of value to all education officers and local education authorities as well as to practising architects. The book contains 152 pages including about 120 photographs and plans. Its size is 91 in. by 71 in., and it is bound in cloth. Twenty-one shillings, postage ninepence.

THE ARCHITECTURAL PRESS 9-13 Queen Anne's Gate, S.W.1.

facturers of high grade drawing instruments and slide rules in the British Empire, and our Kinwest drawing materials have gained gained a reputation throughout the world for superb quality and

We are the largest manu-

MATERIALS accuracy.

Our catalogue which includes purticulars of Drawing Boards, Tee and Set Squares, Scales, Slide Rules, Drawing Instruments, Curves, Protractors, Drawing Materials, etc., is sent Post Free on request.

A G THORNTON WYTHENTHAWE

Tel.: WYThenshawe 2277 (4 lines)

BUILDING CENTRE 9 CONDUIT STREET, LONDON, W.I TELEPHONE: MAYEAIR 8641

EXHIBITION

. a permanent and constantly changing Exhibition and free information service for all interested in building and its equipment

Daily 10-5 ADMISSION FREE Saturday 10-1



Alphabetical Index to Advertisers

Abbey Building Supplies, Ltd. ————————————————————————————————————						- 2
Abbey Building Supplies, Ltd. Accarington Brick & Tile Co., Ltd. Adams, Robert (Victor), Ltd. Austin, James, Robert (Victor), Ltd. Austin, James, & Sons, Chool, Ltd. Bath Cabinet Makers & Arterat, Ltd. Bird (Robert & Alivac (Ventilating) Co., Bath Robert & Alivac (Ventilating) Co., Bath Robert & Alivac (Ventilating) Co., Ltd. Bird (Robert & Alivac (Ventilating) Co., Bath Robert & Alivac (Ventilating) Co., Ltd. Bird (Robert & Alivac (Ventilating) Co., Bath Robert & Alivac (Ventilating) Co., Bath Robert & Alivac (Ventilating) Co., Ltd. Bird (Robert & Alivac (Ventilating) Co., Bath Robert & Alivac (Ventilating) Co., Ltd. Bird (Robert & Alivac (Ventilating) Co., Bath Robert & Alivac (Ventilating) Co., Bath Robert & Alivac (Ventilating) Co., Ltd. Bird (Robert & Alivac (Ventilating) Co., Bath Robert & Alivac (Ventilating) Co., Bath Robert & Alivac (Ventilating) Co., Ltd. Bird (Robert & Alivac (Ventilating) Co., Bath Robert & Alivac (Ventilating) Co., Ltd. Bird (Robert & Alivac (Ventilating) Co., Bath Robert & Alivac (Ventilating) Co., Ltd. Bird (Robert & Alivac (Ventilating) Co., Bath Robert & Alivac (Ventilating) Co., Ltd. Bird (Robert & Co., Ltd. Bird (Robert & Co., Ltd.) Bird (Robert & Co., Ltd		PAGE		PAGE		PAGE
Accrington Brick & Tile Co., Ltd. Adams, Robert Victory, Ltd. Adams, Robert Victory, Ltd. Adams, Robert Victory, Ltd. Adabead, Ratcliffe & Co., Ltd. Adams and Group of Companies XX Austin Hall Group of Companies XX Austin Mall Group of Companies XX Co., Ltd. XXXII Blockburn, Thomas, & Sons, Ltd. XXXII Blockburn, Thomas, & Sons, Ltd. XXXII British Places Co., Ltd. XXIII British Places Co., Ltd. XXIII British Places Board, Ltd. XXIII British Places Board, Ltd. XXIII British Places Board, Ltd. XXIII Broughton, James, & Son (Engineers), Ltd. XXIII Broughton, James, A. Co., Ltd. XXIII Broughton, James, Ltd. XXIII Broughton, James, Ltd. XXIII Broughton, James, A. Co., Ltd. XXIII Broughton, James, Ltd. XXIII Broughton	Abbey Building Supplies, Ltd		Ellison, George, Ltd.		Mumford, Bailey & Preston, Ltd	
Adahsead, Rateliffe & Co., Ltd. Ix Adahsead, Rateliffe & Co., Ltd. Ix Anderson Construction Co., Ltd. Fortham Pressings, Ltd. Itil Plikington Bros., Ltd. Itil Plikington Bros., Ltd. Itil Plikington Bros., Ltd. Itil Plikington Bros., Ltd. Ix Staff Cabinet Makers & Arteratt, Ltd. Gillett & Stonnston, Ltd. Ix Bath Cabinet Makers & Arteratt, Ltd. Griffiths Bros., Ltd. Itil Brimpham & Blackburn Construction Co., Ltd. Ivil Brimphham & Blackburn Construction Co., Ltd. Ivil Brimphham & Blackburn Construction Co., Ltd. Ivil Bros.,			English Joinery Manufacturers' Assoc	wwwvii		
Adshead, Rateliffe & Co., Ltd. Expanded Metal Co., Ltd., The xiix Anderson Construction Co., Ltd. Fordham Pressings, Ltd. lviii Yaustin Hall Group of Companies xxv Gillet & Johnston, 4.td. lviii Yaustin Hall Group of Companies xxv Gillet & Johnston, 4.td. lviii Yaustin Hall Group of Companies xxv Gillet & Johnston, 4.td. lviii Yaustin Hall Group of Companies xxv Gillet & Johnston, 4.td. lviii Yaustin Hall Group of Companies xxv Gillet & Johnston, 4.td. lviii Yaustin Hall Group of Companies xxv Gillet & Johnston, 4.td. xxxi Gillet & Johnston, 4.td. xxxi Yaustin Hall Group of Companies xxv Gillet & Johnston, 4.td. xxxi Yaustin Companies Xxv Gillet & Johnston, 4.td. xxxi Gillet & Johnston Xxviii Xxxi Gillet & Johnston, 4.td. Xxxi Gillet & Johnston Xxviii Xxxi Gillet & Johnston Xxviii Xxviiii Xxviii Xxviii Xxviiii Xxviii Xxviiii Xxviii Xxviii Xxviiii		Iw	Evode Ltd			
Anderson Construction Co., Ltd. Austin Hall Group of Companies Austin Hall Group of Companies Austin Hall Group of Companies Gow Worm Boilers, Ltd. Gillet & Johnston, Ltd. Co., Ltd. Brimingham & Blackburn Construction Co., Ltd. Brimingham & Blackburn Construction Co., Ltd. Booth, James, & Sons, Ltd. Booth, James, & Co., Ltd. British Aluminium Co., Ltd. British Bross, British Bross, Ltd. British	Adahaad Dataliffo & Co. Ttd	1.0	Ewnanded Motal Co. Itd. The		Databatt & Co. Itd	124
Austin Hall Group of Companies Xxv Glow Worm Boilers Ltd Xx Santon Ltd Yr Sath Cabinet Makers & Artcraft, Ltd Glow Worm Boilers Ltd Xx Glow Worm Boilers Ltd Xx Yr Grenwogl's & Airvac Ventilating Co. Xx Xx Yr Grenwogl's & Airvac Ventilating Co. Xx Xx Xx Yr Grenwogl's & Airvac Ventilating Co. Xx Xx Xx Yr Grenwogl's & Airvac Ventilating Co. Xx Xx Xx Yr Grenwogl's & Airvac Ventilating Co. Xx Xx Xx Xx Xx Xx Xx X	Adshead, Ratchine & Co., Ltd		Fordham Droggings Itd			
Austin, James, & Sons (Dewsbury), Ltd.						
Bath Cabinet Makers & Arterart, Ltd. Greenwood's & Airvae Ventilating Co. Pynford, Ltd. fill fill		XXV	Gillett & Johnston, Add			lvin
Birmingham Aluminum Castings (1903) Co., Ltd. Co. Ltd. Ltd. Simmingham & Blackburn Construction Vision G.R.L. Plastics, Ltd. Co. Ltd. Ltd. Sadd, John, & Sons, Ltd. Xxxy Ruberoid Co., Ltd. Xxxy Ruberoid Co., Ltd. Xxxy Ruberoid Co., Ltd. Xxxy Sadd, John, & Sons, Ltd. Xxxy	Austin, James, & Sons (Dewsbury), Ltd.		Glow Worm Boilers, Ltd	XXXI	Pritchett & Gold & E.P.S. Co., Ltd	IV
Birmingham Aluminium Castings (1903) Ltd. Six Co., Ltd. Six	Bath Cabinet Makers & Artcraft, Ltd		Greenwood's & Airvac Ventilating Co.,		Pynford, Ltd.	11 -
Co., Ltd. Simingham & Blackburn Construction Co., Ltd. Simingham & Sons, Ltd. Sankey, Joseph & Sons, Ltd. Sankey	Birmingham Aluminium Castings (1903)		Ltd.		Rawlping Co., Ltd., The	
Simple S		wix	Griffiths Bros., Ltd.	liv		vvvvi
Co. Ltd. Vi	Dimmingham & Blackburn Construction	20.00		***	Probabil Co. I td	
Blackburn, Thomas, & Sons, Ltd. Box, Doth, James, & Co., Ltd. Box, C. H. Box, C. L. Box, C. H. Bo		1 6	Cinit Dadiator Co. I td	1-	Godd John & Song Ted	
Box C. H. Ixix Braby, Fredk. & Co., Ltd. Ixix Braby, Fr., & Sons, Ltd. Ixix Braby, Fredk. & Co., Ltd. Ixix Braby, Fr	TO THE COURT OF COURT AND ADDRESS OF COURT AND ADDR		Contractor Co., Ltd		Sadu, John, & Sons, Ltd	жжжц
Box C. H.		manual division of the last		1XX1	Salter, T. E., Ltd.	
British Aluminium Co., Ltd. British National Electrics, Ltd. British Plaster Board, Ltd. British Pla			Harvey, G. A., & Co. (London), Ltd	****		
British Aluminium Co., Ltd.	Box, C. H		Henderson, P. C., Ltd	xiiii	Sankey, Joseph, & Sons, Ltd	xxii
British Aluminium Co., Ltd.		ix	Higgs & Hill, Ltd	xxix	Santon, Ltd	lvii
British National Electrics, Ltd.	British Aluminium Co., Ltd		Hills, F., & Sons, Ltd	viii	Scaffolding (Great Britain), Ltd	xiv
British Paster Board, Ltd. xxxi British Trane Co., Ltd. xix British Trane Co., Ltd. xix British Trane Co., Ltd. xxxi British Trane Co., Ltd. xxxii British Trane Sebara Co., Ltd. xxxii British Trane Co., Ltd. xxxii Britishe Trane Co., Ltd. xxxii Britishe Trane Co., Ltd. xxxii B	British National Electrics, Ltd		Hollway, W. F., & Brother, Ltd	lv	Semtex. Ltd.	xliv -
British Plaster Board, Ltd. xxx Hope, Henry, & Sons, Ltd. xxi British Trane Co., Ltd. xxi British Co., Ltd. xxi British Co., Ltd. xxi Broak & Co., Ltd. xxi Industries Ltd. xxi Industries Ltd. xxi Broak & Co., Ltd. xxi Industrial Engineering, Ltd. xxi Industrial Engineering, Ltd. xxi Industrial Engineering, Ltd. xxi Smith & Rodger, Ltd. Smith & Rodger, Ltd. xxi Smith & Rodger, Ltd. xxi Smith & Rodger, Ltd. xxi Smith & Rodger, Ltd. xxi Smith & Rodger, Ltd. Smith &		xvii	Holophane, Ltd.		Shannon, The Ltd.	
British Trane Co., Ltd.	British Plaster Board Ltd.		Hone, Henry & Sons, Ltd.	vlii		lviv
Britmac Electrical Co., Ltd.	Dritish Trans Co Ltd				Gilarina Dainta Ttd	
Broad & Co., Ltd.			Imposial Chemical Industries I td		Omeall E I of D I A	XXVI
Broughton, James, & Son (Engineers), Ltd. xxi liewood, Ltd. xxii Bryant, C., & Son, Ltd. xxii Bryant, C., & Son, Ltd.			Imperial Chemical Industries, Ltd			100
Bryant, C., & Son, Ltd. Stramit Boards, Ltd. xxiii xxii			10co, Ltd	XIVI		
Bryant, C., & Son, Ltd. Cape Asbestos Co., Ltd., The Cement Marketing Co., Ltd., The Conbb & Son's Lock & Safe Co., Ltd. Lixii Clark & Eaton, Ltd., James Clark & Fenn, Ltd. Colt, W. H. (London), Ltd. Leatherflor, Ltd. Cothurst Symons & Co., Ltd. Leatherflor, Ltd. Compactom, Ltd. Compactom, Ltd. Compression Joints, Ltd. Lixi Compression Joints, Ltd. Lixi Compression Joints, Ltd. Lixi Davidson, C., & Sons, Ltd. De La Rue & Co., Ltd. Davidson, C., & Sons, Ltd. Lixi Denny, Mott & Dickson, Ltd. Lixi Denny, Mott & Dickson, Ltd. Lixi Dunbrlok,						lviii
Bryant, C., & Son, Ltd. Cape Asbestos Co., Ltd., The Cement Marketing Co., Ltd., The Conbb & Son's Lock & Safe Co., Ltd. Lixii Clark & Eaton, Ltd., James Clark & Fenn, Ltd. Colt, W. H. (London), Ltd. Leatherflor, Ltd. Cothurst Symons & Co., Ltd. Leatherflor, Ltd. Compactom, Ltd. Compactom, Ltd. Compression Joints, Ltd. Lixi Compression Joints, Ltd. Lixi Compression Joints, Ltd. Lixi Davidson, C., & Sons, Ltd. De La Rue & Co., Ltd. Davidson, C., & Sons, Ltd. Lixi Denny, Mott & Dickson, Ltd. Lixi Denny, Mott & Dickson, Ltd. Lixi Dunbrlok,	Building Centre, The	lxix	Jiewood, Ltd	1	Stramit Boards, Ltd	xxiii
Cape Asbestos Co., Ltd., The coment Marketing Co., Ltd., The coment Co., Ltd., The composition of the coment of the come	Bryant, C., & Son, Ltd		Johnston Bros. (Contractors), Ltd		Standard Patent Glazing Co., Ltd	liv
Cement Marketing Co., Ltd., The v Chubb & Son's Lock & Safe Co., Ltd. xviii Klinger, Richard, Ltd. xviii Clark & Eaton, Ltd., James xviii Korkoid Decorative Floors Taylor, Robt., & Co., (Ironfounders), Ltd. Lvviii Clark & Fenn, Ltd. Leatherffor, Ltd. L	Cape Asbestos Co., Ltd., The		Kent, John (London), Ltd	lxii		-
Clark & Eaton, Ltd., James Xxviii Klinger, Richard, Ltd. Xviii Korkoid Decorative Floors Taylor, Robt., & Co. (Ironfounders), Ltd. Ixviii Clark & Fenn, Ltd. Leatherflor, Ltd. Leatherflor, Ltd. Lever, James, & Sons, Ltd. Lixi Tentest Fibre Board Co., Ltd. Xxviii Colthurst Symons & Co., Ltd. Lixi Lott, Leatherflor, Ltd. Lever, James, & Sons, Ltd. Lixi Thomas & Baldwins, Ltd., Richard Xxviii Compactom, Ltd. Lott, Latt. Lixi Lixi Lott, Latt. Lott, Latt. Lixi Lixi Lott, Latt. Lixi Lixi	Cement Marketing Co., Ltd., The	v	King, George W., Ltd.	xxxiv	Sundeala Board Co. Ltd.	
Clark & Fenn, Ltd. — Leatherflor, Ltd. — Leath	Chubb & Son's Lock & Safe Co Ltd	lwviii	Klinger Richard Ltd		Sutcliffe Speakman & Co. Ltd.	work
Claskroom Equipment, Ltd. Lever, James, & Sons, Ltd. Lixi Thomas & Baldwins, Ltd. Richard x xi Thorn Electrical Industries, Ltd. Thorn A. G. Ltd. Lixi Thorn, John B. Thorn, John B. Lixi Thorn, John B. Thorne, John B. Thornelictrical Industries, Ltd. Lixi T	Clark & Faton Ltd James		Korkoid Decorative Floors	26.4 4.1.1	Toylor Poht & Co (Ironfounders) I.td	
Colk W. H. (London), Ltd.	Clark & Forn I td		Loothorflor Ltd	44		TWATTE
Colt, W. H. (London), Ltd.	Clashaom Faninment I td		Loron Tomos & Sons Ltd		Thomas & Dold-ing Ltd. Dishard	
Cothurst Symons & Co., Ltd. Iv Ltd. Ltd. Iv Ltd. Ltd.		111	Lever, James, & Sons, Ltd.	IXXI	Thomas & Baidwins, Ltd., Richard	XI
Compactomi, Ltd.	Colt, W. H. (London), Ltd					
Compression Joints, Ltd. vi Mallinson, Win., & Sons, Ltd. xiv Travis & Arnold, Ltd. vi Copper Development Assoc.	Colthurst Symons & Co., Ltd		Lid.		Thorton, A. G., Ltd	
Copper Development Assoc. Cittall, Richard, & Co., Ltd. Davidson, C., & Sons, Ltd. De La Rue & Co., Ltd., Thomas Denny, Mott & Dickson, Ltd.					Thorp, John B	lxix
Copper Development Assoc. Crittall, Richard, & Co., Ltd. Xxi Maritta Drafting Machines, Ltd. 1xi Nuclear September 1xi Nuclear 1xi Nuclear September 1xi	Compression Joints, Ltd	lvi	Mallinson, Wm., & Sons, Ltd	xlv	Travis & Arnold, Ltd	
Critfall, Richard, & Co., Ltd. xxi Mavitta Dratting Machines, Ltd. 1xi Davidson, C., & Sons, Ltd. 1 Metropolitan-Vickers Electrical Co., Ltd. - Turners Asbestos Cement Co., Ltd. xxxix Denny, Mott & Dickson, Ltd. 1 Micramatic, Ltd. 1xx Underwood, S. 1xix Denny, Mott & Dickson, Ltd. 1xx Underwood, S. 1xix U	Copper Development Assoc	-	Marley Tile Co., Ltd., The	xii	Tretol. Ltd.	lvi
Davidson, C., & Sons, Ltd. De La Rue & Co., Ltd., Thomas Il Micramatic, Ltd. Dendanought Fireproof Doors (1930), Ltd. Dubriok, Ltd. Dubriok, Ltd. Eagle Pencil Co. Efril Sales Organization In Micramatic, Ltd. Ixi Midland Brick Co., (Wellingboro) Ltd. Ixi Midland Brick Co., (Wellingboro) Ltd. Ixi Midland Electric Manufacturing Co., Ltd. Ixi Midland Joinery Works, Ltd., The Largie Pencil Co. Ixi Ministry of Works Ixi Westwood, J., & Co., Ltd. Ixi Wheatly & Co., Ltd. Ixi Williams & Sons (Cardiff), Ltd., John Villiams & Sons (Cardiff), Ltd., John		xxi	Mayitta Drafting Machines, Ltd.	lxi	Troughton & Voung (Lighting) Ltd	
Denny, Mott & Dickson, Ltd. 1		1	Metropolitan-Vickers Electrical Co. Ltd.		Turners Ashestos Cement Co Ltd	vvviv
Denny, Mott & Dickson, Ltd iv Midland Brick Co., (Wellingboro) Ltd lxi Vulcanite, Ltd lyii Dradnought Fireproof Doors (1930), Ltd lix Midland Electric Manufacturing Co., Ltd xxxiii Walies Dove Bitumastic, Ltd liii Dunbrick, Ltd lxi Mills Scaffold Co., Ltd lxii Walco (Sales), Ltd liii Watco (Sales), Ltd liii Lxxi Walco (Sales), Ltd liii Watco (Sales), Ltd liii Watco (Sales), Ltd liii Watco (Sales), Ltd lxii Watco (Sales), Ltd lxii Watco (Sales), Ltd xxiii Watco (Sales), Ltd lxii Watco (Sales), Ltd lxii Watco (Sales), Ltd xxiii Watco (Sales), Ltd lxii Watco (Sales), Ltd lxii Watco (Sales), Ltd xxiii watco (Sales), Ltd lxii Watco (Sales), Ltd xxiii watco (Sales), Ltd lxii Watco (Sales), Ltd xxiii watco (Sales), Ltd xxiii watco (Sales), Ltd lxii watco (Sales), Ltd xxiii watco (Sales),	De La Rue & Co. Ltd. Thomas	H	Micromatic Ltd	lvv	Underwood S	
Dreadnought Fireproof Doors (1930), Ltd.	Denny Mott & Dickson Ltd		Midland Brick Co (Wellinghorn) Ltd		Vulcanita I td	
Ltd. lix Mills Scaffold Co. Ltd. lxxii Watco (Sales), Ltd. liii Dunbrick, Ltd. lxxi Midaland Joinery Works, Ltd., The — Wellington Tube Works, Ltd. xlvii Eagle Pencil Co. lxix Ministry of Works lxix Westwood, J., & Co., Ltd Econa Modern Products Ltd., lxii M.K. Electric Ltd. xviii Wheatly & Co., Ltd. xxiv Efril Sales Organization lix Morris, Herbert, Ltd. M. lxix Williams & Sons (Cardiff), Ltd., John vii	Denny, Mott & Dickson, Det. (1020)	14	Midland Flootric Manufacturing Co. I td.		Vulcanite, Ltd	
Dunbrick, Ltd.		11-	Midiand Electric Manufacturing Co., Ltd.		wanes Dove Bitumastic, Ltd	
Eagle Pencil Co. xix Ministry of Works xix Westwood, J., & Co., Ltd. xiv Econa Modern Products Ltd., xii M.K. Electric Ltd. xviii Wheatly & Co., Ltd. xxiv Efril Sales Organization lix Morris, Herbert, Ltd. M. xix Williams & Sons (Cardiff), Ltd., John vii			Mills Scandid Co., Ltd.	1XX11	Watco (Sales), Ltd	
Econa Modern Products Ltd., lxii M.K. Electric Ltd. xviii Wheatly & Co., Ltd. xxiv Efril Sales Organization lix Morris, Herbert, Ltd. lxix Williams & Sons (Cardiff), Ltd., John vii				* *		xlvii
Efril Sales Organization					Westwood, J., & Co., Ltd	
Efril Sales Organization lix Williams & Sons (Cardiff), Ltd., John vii			M.K. Electric Ltd	xviii	Wheatly & Co., Ltd	xxiv
	Efril Sales Organization	lix	Morris, Herbert, Ltd		Williams & Sons (Cardiff), Ltd., John	
The state of the s	Ellis School of Building	lxix	Morris Singer Co., Ltd., The		Williams & Williams, Ltd.	

For Appointments (Wanted or Vacant), Competitions Open, Drawings, Tracings, etc., Educational, Legal Notices, Miscellaneous Property, Land and Sales, see lxiii, lxiv, lxv, lxvi, lxvii, lxviii.



Ensure at least 100/Longer Lamp Life with the NEW

These new Cold Cathode Lamps combine the advantages of instant starting, high efficiency and considerably longer life than has hitherto been available. Made in a variety of colours and combinations in single 10 ft. tubes, 5 ft. U-tubes and 3 ft. grid tubes. Write for full details of the Meico range of Cold Cathode Luminaires.

Meico CATHODE LUMINAIRES

MICRAMATIC CONGLETON Scattish Sales Office:



LIMITED

CHESHIRE

73 Robertson St. Glasgow C2

AGE
IXIX
XXX
III
XXVIII
XXVIII
XXIII



If you intend to Specify Sash Windows, avoid future Cord troubles by ordering . . .



Specified by Housing Directors, Architects, and Builders

BRITAIN'S SUPER SASH CORD

- Weatherproofed AT NO EXTRA Non Stretch
- * Durable **Rot Proof** * Low Long



Waterproof and Rot Proof



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

PRECISION FACING BRICK THE

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

Dunbriks are Manufactured by:-

London and Home Counties

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

Suffolk, East and Central Essex

ALPHAMSTONE BRICK & TILE CO. LTD.
Alphamstone, near Bures, Suffolk. 'Phone: Twinstead 229

Dorset, S.W. Hants and S. Wilts.

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

Oxon, Berks, N. Wilts and N. Glos.

THE COTSWOLD BRICK AND TILE CO. LTD., 47, Market Square, Witney, Oxon. 'Phone: Witney 390

East and West Ridings, Yorkshire

DUNBRIK (YORKS) LTD., Stanley Ferry, near Wakefield, Yorks. 'Phone: Wakefield 3694

Northumberland and Durham

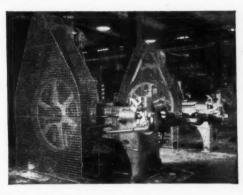
SAMUEL TYZACK & CO. LTD., Sunderland. 'Phone: Sunderland 4854/5 Monkwearmouth,

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

DUNBRIK (ULSTER) LTD., Doagh Station, Co. Antrim,

Beauty · Economy · Permanence · Uniformity

is everybody's business

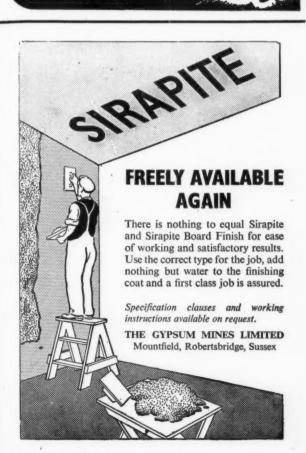


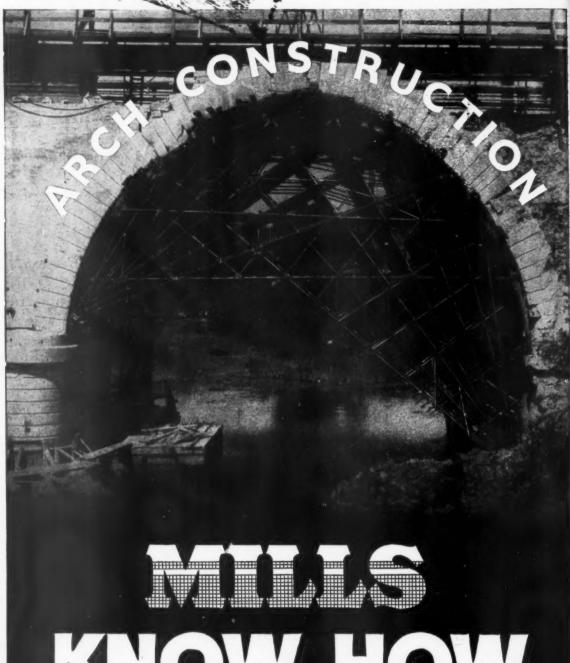
Make your Safety Programme our concern whether it be for guarding Belting, Gears, Presses, Grinders or for Window Protection, Wire Screens in canteens and schools where maximum light and ventilation are essential.

Write for Descriptive Catalogue, or better still, call in our Technical Representative

J. BROUGHTON & SON (ENGINEERS) LTD. Security Works, Vere St., Birmingham, 5. Telephone: MID 5901-2

BROUGHTON is everybody's





KNOW HOW

TELEPHONE: RIVERSIDE NEAREST

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

MILLS SCAFFOLD CO. LTD., Head Office: TRUSSLEY WORKS, HAMMERSMITH GROVE, LONDON, W.6

/ 9

TOPT PTON

W.6