

THE ARTS DEPT

THE

STACK



ARCHITECTS' JOURNAL

standard contents

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

DIARY NEWS

from AN ARCHITECT'S
Commonplace Book

ASTRAGAL

LETTERS

PHYSICAL PLANNING

CURRENT BUILDINGS

INFORMATION

CENTRE

Physical Planning Lighting
Structure Heating & Ventilation
Materials Questions & Answers
Acoustics & Sound Insulation

INFORMATION SHEET

SOCIETIES & INSTITUTIONS

PRICES

Architectural Appointments
Wanted and Vacant

No. 2710]

[Vol. 105

THE ARCHITECTURAL PRESS

Editorial: Thirteen Queen Anne's Gate,

Westminster, S.W.1. Phone: Whitehall 0611

Subscriptions and Advertising: Forty-Five

The Avenue, Cheam, Surrey. 'Phone:

Vigilant 0087-9.

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 H one week, I to Z the next. In all cases where the town is not mentioned the word LONDON is implicit in the address.

AA	Architectural Association, 34/6, Bedford Square, W.C.1.	Museum 0974
AAI	Association of Art Institutions. Secy.: W. Marlborough Whitehead, "Dyneley," Castle Hill Avenue, Berkhamstead, Herts.	
ABT	Association of Building Technicians. 5, Ashley Place, S.W.1.	Victoria 0447-8
ACGB	Arts Council of Great Britain. 9, Belgrave Square, S.W.1.	Sloane 0421
ADA	Aluminium Development Association. 67, Brook Street, W.1.	Mayfair 7501/8
APRR	Association for Planning and Regional Reconstruction. 34, Gordon Square, W.C.1.	Euston 2158-9
ARCHSA	Architectural Students Association. School of Architecture, University of Manchester, 244, Oxford Road, Manchester, 13.	
ARCUK	Architects' Registration Council. 68, Portland Place, W.1.	Welbeck 9738
ASB	Architectural Science Board of the Royal Institute of British Architects. 66, Portland Place, W.1.	Welbeck 5721
BC	Building Centre. 23, Maddox Street, W.1.	Mayfair 2128
BCC	British Colour Council. 28, Sackville Street, W.1.	Regent 3613
BCCF	British Cast Concrete Federation. 17, Amherst Road, Ealing, W.13.	Perivale 6869
BCIRA	British Cast Iron Research Association. Alvechurch, Birmingham.	Redditch 716
BEDA	British Electrical Development Association. 2, Savoy Hill, W.C.2.	Temple Bar 9434
BDA	British Door Association. 25, Victoria Street, S.W.1.	Abbey 5422-3
BGC	British Gas Council. 1, Grosvenor Place, S.W.1.	Sloane 4554
BGF	British Gas Federation. 1, Grosvenor Place, S.W.1.	Sloane 8266
BIA	British Ironfounders' Association. 145, Vincent Street, Glasgow, C.2.	Glasgow Central 2891
BIAE	British Institute of Adult Education. 29, Tavistock Square, W.C.1.	Euston 5385
BID	Building Industries Distributors. 52, High Holborn, W.C.1.	Chancery 7772
BINC	Building Industries National Council. 11, Weymouth Street, W.1.	Langham 2785
BOT	Board of Trade. Millbank, S.W.1.	Whitehall 5140
BRS	Building Research Station. Bucknalls Lane, Watford.	Garston 2246
BSA	British Steelwork Association. Eggington House, Buckingham Gate, S.W.1.	Victoria 7301-2-3
BSA	Building Societies Association. 14, Park Street, W.1.	Mayfair 0515
BSI	British Standards Institution. 28, Victoria Street, S.W.1.	Abbey 3333
CCA	Cement and Concrete Association. 52, Grosvenor Gardens, S.W.1.	Sloane 5255
CDA	Copper Development Association. Kendals Hall, Radlett, Herts.	Radlett 5616
CID	Council of Industrial Design. Tilbury House, Petty France, S.W.1.	Whitehall 6322
CPC	Codes of Practice Committee. MOW, 42, Onslow Gardens, S.W.7.	Kensington 7070
CPRE	Council for the Preservation of Rural England. 4, Hobart Place, S.W.	Sloane 4280
CSI	Chartered Surveyors' Institution. 12, Great George Street, S.W.1.	Whitehall 5322
DIA	Design and Industries Association. 9, Conduit Street, W.1.	Mayfair 5432
DOT	Department of Overseas Trade. 35, Old Queen Street, S.W.1.	Victoria 9040
EJMA	English Joinery Manufacturers Association (Incorporated). Sackville House, 40, Piccadilly, W.1.	Regent 4448
FAS	Faculty of Architects and Surveyors. 8, Buckingham Palace Gdns., S.W.1.	Sloane 2837
FCMI	Federation of Coated Macadam Industries. 37, Chester Square, S.W.1.	Sloane 1002
FDMA	Flush Door Manufacturers Association. Stapleford Road, Trowell, Nottingham.	Ilkeston 623/4/5
FMB	Federation of Master Builders. 23, Compton Terrace, Upper Street, N.1.	Canonbury 2041
FRHB	Federation of Registered House Builders. 82, New Cavendish Street, W.1.	Langham 4041
FS (Eng.)	Faculty of Surveyors of England. 8, Buckingham Palace Gdns., S.W.1.	Sloane 2837
GG	Georgian Group. 4, Hobart Place, S.W.1.	Sloane 2844
HC	Housing Centre. 13, Suffolk Street, Pall Mall, S.W.1.	Whitehall 2881

Jan - Mar 1947



TIMBER MERCHANTS AND SAWMILLERS

A new Timber "Ready Reckoner"

96 pages of accurately computed tables.
Convenient pocket-size attractively bound
in strong cloth bound cover.

Complimentary copies

Complimentary copies are available
for Architects, Builders and Joinery
Manufacturers in London and the
Home Counties.

W. C. WARE & SONS, LTD.

6-8, Kennington Lane, S.E.11. Phone: Reliance 1426 P.B.E.
11, Manette Street, W.1. Phone: Gerrard 2621 P.B.E.
138-140, Saffron Hill, E.C.1. Phone: Holborn 2326

SOFTWOODS · HARDWOODS · WALLBOARDS · PLYWOOD · PLASTERBOARD

FACTS ABOUT



LIME

FOR MORTAR

"... Water penetration to the inner face of the wall
may result from using a jointing mortar which is too
dense or too porous for the type of walling unit employed."

POST-WAR BUILDING STUDIES, No. 1.

The addition of LIME to cement, sand, mixes in the proportions
recommended by the HOUSING MANUAL reduces drying shrinkage
and therefore a more intimate bond between mortar and walling units
is provided, which increases the weather resistance of the masonry.

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

The **MODERN** Electrical Distribution Unit

*..neat.. compact and
easily expandable*
CEMDU

CARLISLE ELECTRICAL MAINS DISTRIBUTION UNIT

Much smarter than old fashioned electrical installations, CEMDU makes the whole distribution system more accessible, as well as easier to expand. Compactly housed in attractively finished metal cases, the CEMDU embodies everything—fuses, switch and meter—neatly arranged where they can be instantly reached. Various arrangements of the CEMDU are available to meet any particular requirement.

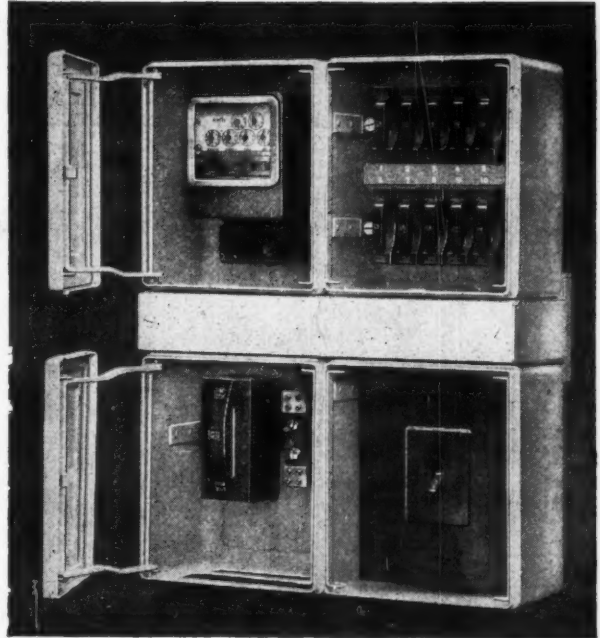
Write for full details to the Sole Makers

CARLISLE

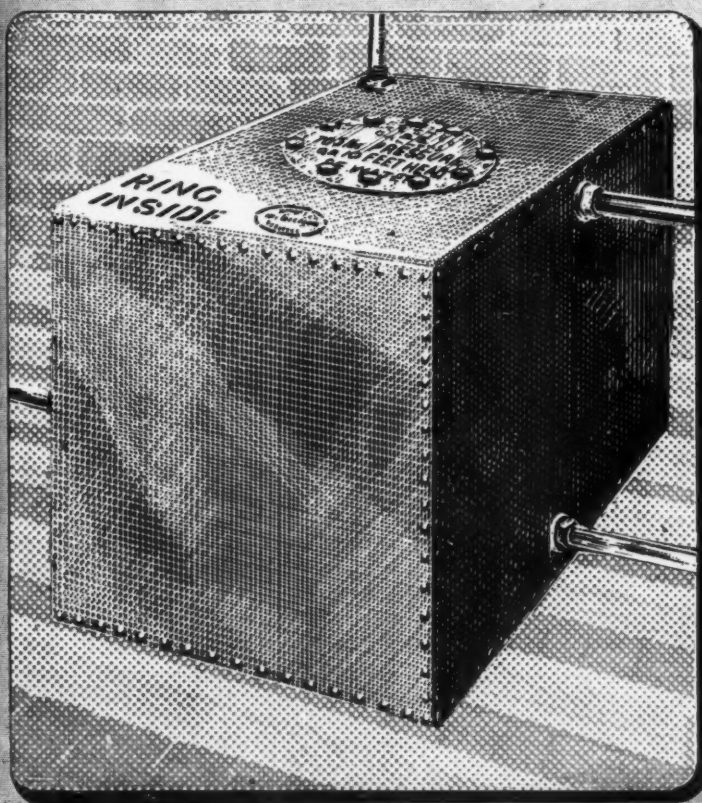
ELECTRICAL MFG. CO. LTD.
BENTCLIFFE WORKS, ECCLES, LANCs.

Phones: Eccles 1691/2/3/4

'Grams: "Carlectric," Eccles



C2



**TO THE ARCHITECT-
SURVEYOR AND BUILDER**

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

Whenever the question of where-to-get, not only Tanks, but Cisterns and Cylinders arises—remember Harveys. Our illustration shows a typical "Harco" product—unsurpassed for soundness of construction and galvanized after manufacture for lasting use. Get all supplies from your Builders' Merchant. For full information of all ranges write for Pocket List A.J. 716.

Harvey

G.A. Harvey & Co. (London) Ltd.
Woolwich Rd. London, S.E.7

GH/GH32/46



WALPAMUR

WATER PAINT



MUROMATTE

FLAT OIL PAINT



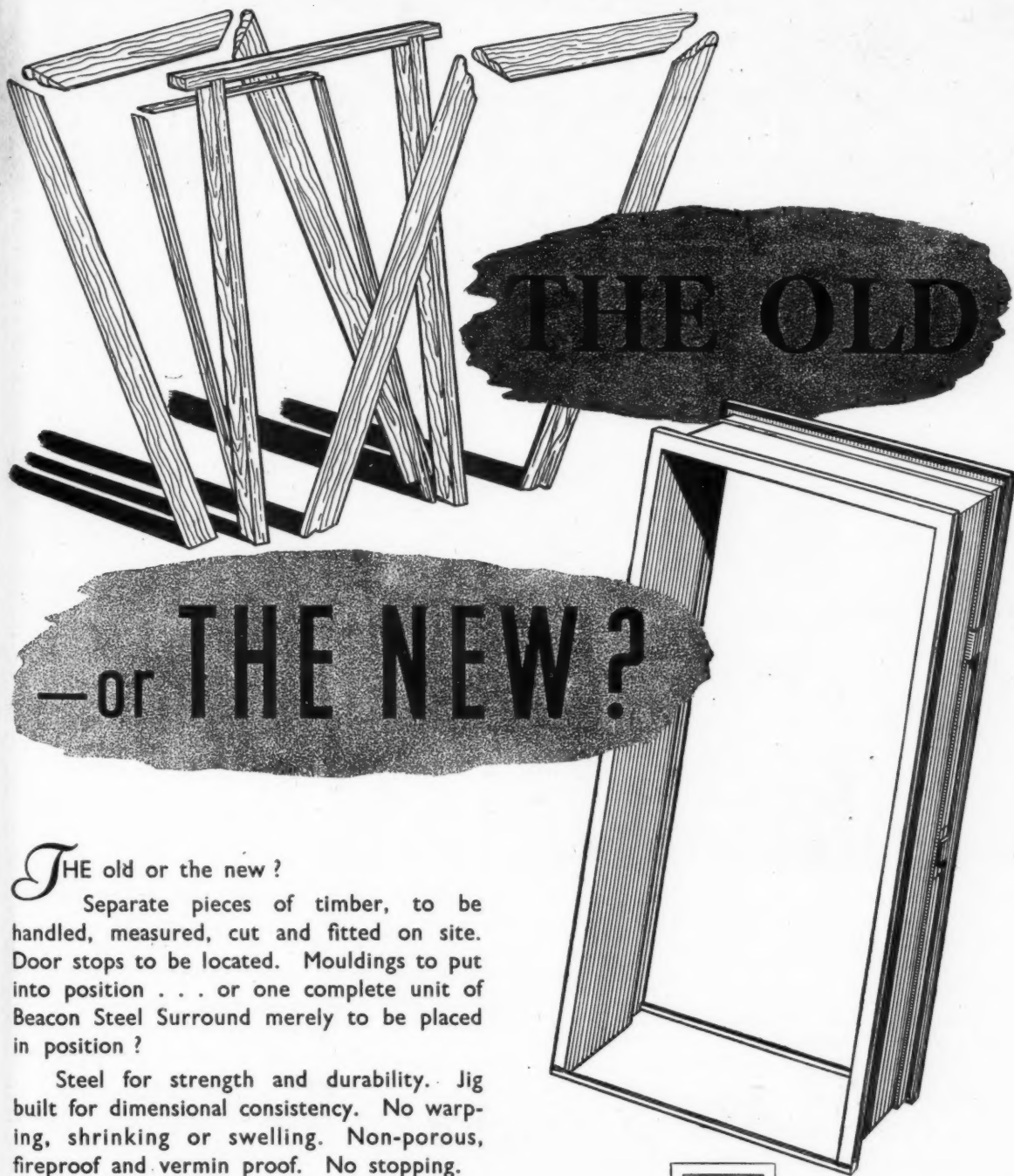
DURADIO

ENAMEL PAINT



THE WALPAMUR CO. LTD. DARWEN AND LONDON

Favoured by architects & decorators alike



THE OLD

—or THE NEW?

*T*HE old or the new?

Separate pieces of timber, to be handled, measured, cut and fitted on site. Door stops to be located. Mouldings to put into position . . . or one complete unit of Beacon Steel Surround merely to be placed in position?

Steel for strength and durability. Jig built for dimensional consistency. No warping, shrinking or swelling. Non-porous, fireproof and vermin proof. No stopping.

Beacon Steel Surrounds are available in many sizes and sections to B.S.S. 1245-1945, copies of which are available on request.

We can supply Door Frames for either 1½" or 1¾" Doors.



JOHN THOMPSON BEACON WINDOWS LIMITED

Beacon Works • Wolverhampton • Telephone: Bilston 41944/7 (4 Lines) • Telegrams: Windows, Wolverhampton

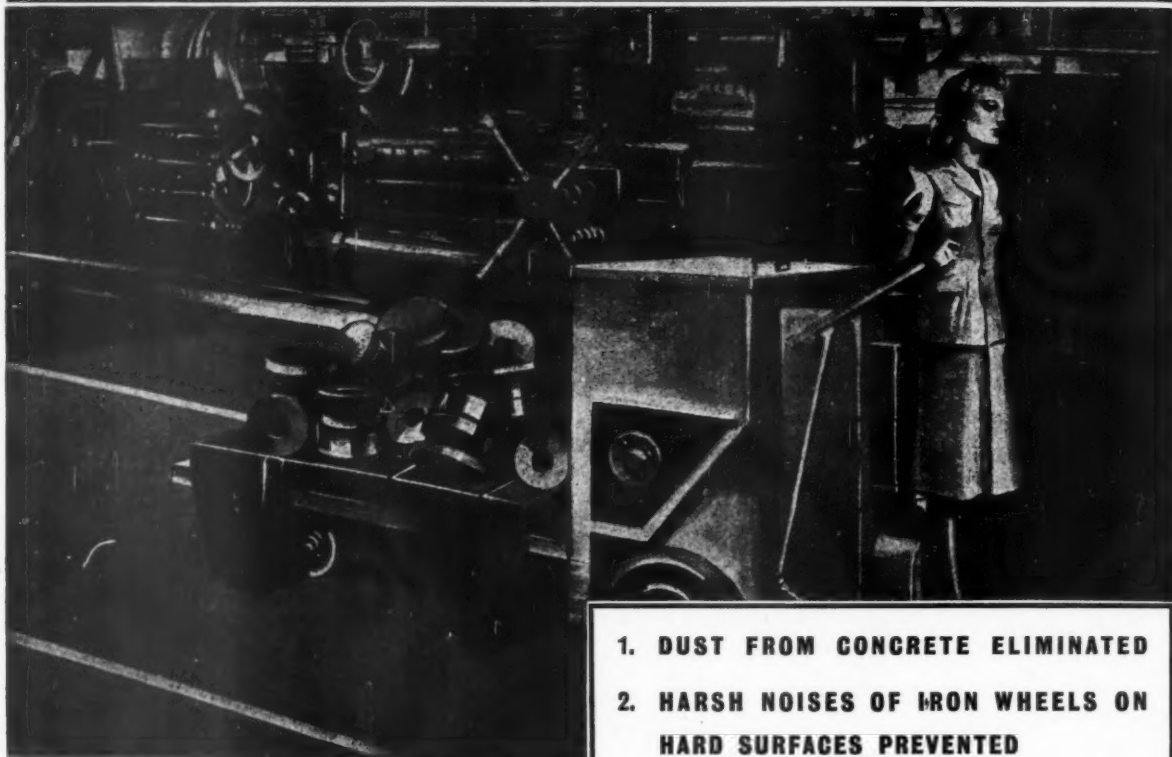
London Office: Imperial House, Kingsway, W.C.2 • Glasgow Office: 79 West Regent Street, C.2.

Manchester Office: Deansgate House, 274, Deansgate • Birmingham Office: Exchange Buildings, Stephenson Place.

SEMTEX

JOINTLESS INDUSTRIAL FLOORS

Mechanically Consolidated



Semtex floors are installed cold by skilled Semtex craftsmen. There is no surface grinding or dust. A special machine can be used to consolidate the floor, simultaneously imposing a smooth level surface.

Other branches of the Semtex Comprehensive Flooring Service include :—

SEMASTIC DECORATIVE TILES

SEMTEX INLAID FLOORS

SEMTEX UTILITY FLOORS

FLEXIMER DECKING AND HULL FARING

1. DUST FROM CONCRETE ELIMINATED
2. HARSH NOISES OF IRON WHEELS ON HARD SURFACES PREVENTED
3. STAND-EASY FEELING FOR MECHANICS
STANDING LONG HOURS AT MACHINES

Full details are available from :—

SEMTEX LIMITED

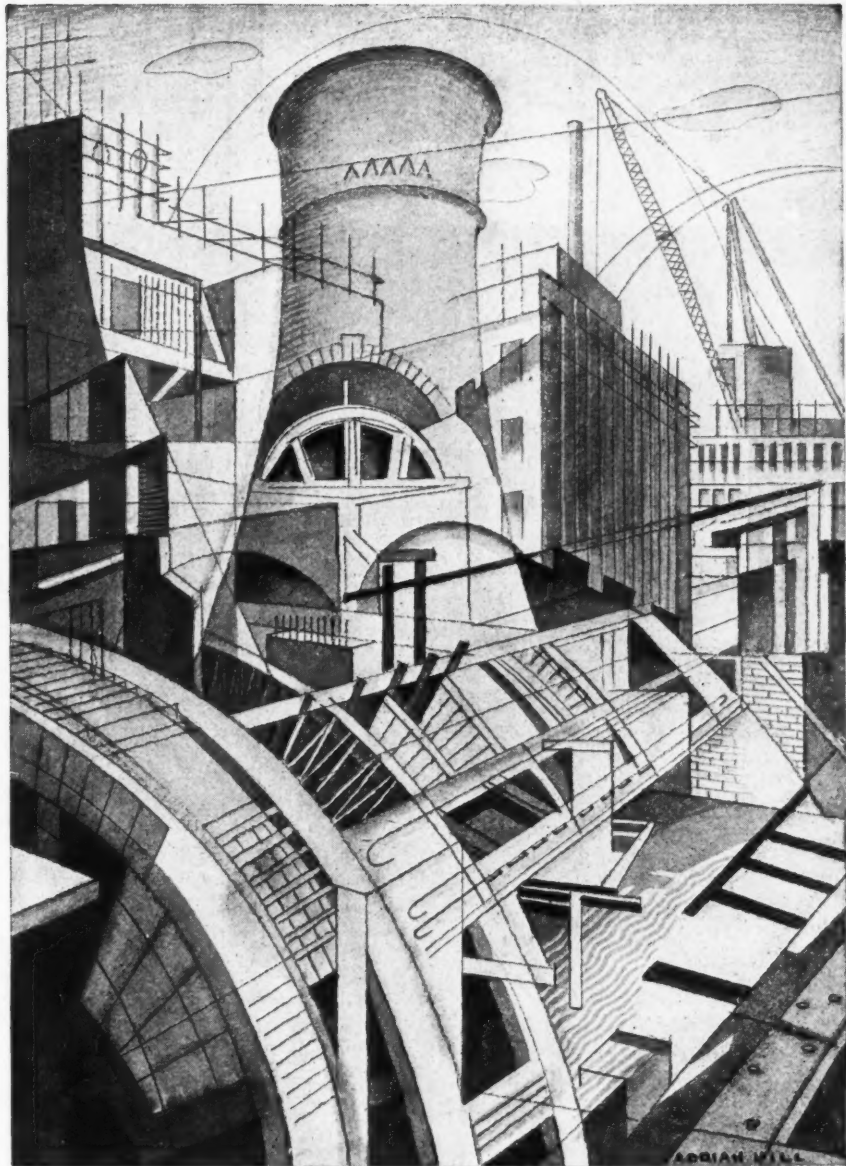
15/16 NEW BURLINGTON STREET, LONDON, W.1

Telephone : Regent 7526

Branches at : Aberdeen, Belfast, Birmingham, Bristol, Glasgow,
Hull, Liverpool, Manchester, Newcastle, Southampton,
Stratford, E.15, Reading, Berks.

SEMTEX LYD COMPREHENSIVE FLOORING SERVICE

A D U N L O P C O M P A N Y



STEEL REINFORCING BARS

"Stribar" Reinforcement is the backbone of multitudinous ferro-concrete structures. Supplied in large or small quantities, cut to length, and if required, hooked and bent, bundled and marked, ready for use on site by the contractor. An exceptional service is maintained from warehouse stocks in the London area; telephone Sloane 4533.



UNITED STRIP & BAR MILLS • THE ICKLES • SHEFFIELD

Branch of The United Steel Companies Limited
LONDON: 8-10 Grosvenor Gardens, S.W.1

Telephone: Sheffield 41011; Rotherham 1090
Telephone: Sloane 4533

*A job for the
specialist...*



The construction of hyperbolic reinforced concrete Cooling Towers is a specialist's operation and represents the peak of achievement in concrete construction work. The Mitchell Construction Company has wide experience of reinforced concrete construction work of all types. The illustration shows a Cooling Tower in the course of construction for Hull Electricity Department.

Consulting Engineers, L. G. Mouchel and Partners, Ltd.

COOLING TOWERS

THE MITCHELL CONSTRUCTION COMPANY,
ONE, BEDFORD SQUARE, LONDON, W.C.1.

C43

FROM FLOORS TO ROOF



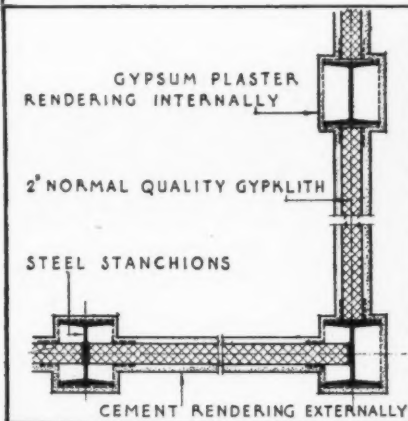
The SMITH TWO-WAY reinforced fireproof floor can be employed immediately for any flooring or roofing requirement. It is constructed with standardised pre-cast hollow concrete blocks. The employment of patent telescopic centers permits the immediate use of the floor with the additional advantage of their removal in the minimum of time.

Limited quantities of TRIANCO TELESCOPIC CENTERS are now available for use in connection with suspended floors of all types. Write or phone without delay.

SMITH'S FIREPROOF FLOORS

SMITH'S FIREPROOF FLOORS LTD. (Dept. A)
IMBER COURT, EAST MOLESEY, SURREY. Phone: Emmerbrook 3300 (4 lines)

GYPKLITH APPLICATIONS



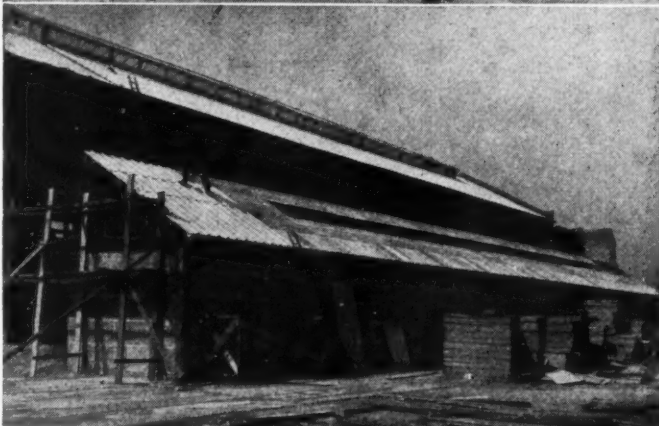
2 inch Gypklith used as non-loadbearing curtain walls between steel stanchions.



The problem in this building was to maintain a constant temperature level. Gypklith was used because of its high insulation value. The speed with which it can be erected was an added advantage.

The 2" Gypklith slabs were set in mortar with bonded reinforced joints, rendered on the outside with water-repellent cement, and plastered internally with gypsum plaster, giving a thermal transmittance "U" value of 0.19, which compares favourably with authoritative recommended standards.

The roof construction consists of 1½" reinforced Gypklith, fixed to timber purlins, and covered with asbestos roofing—giving a thermal transmittance "U" value of 0.30



GYPROC PRODUCTS LIMITED

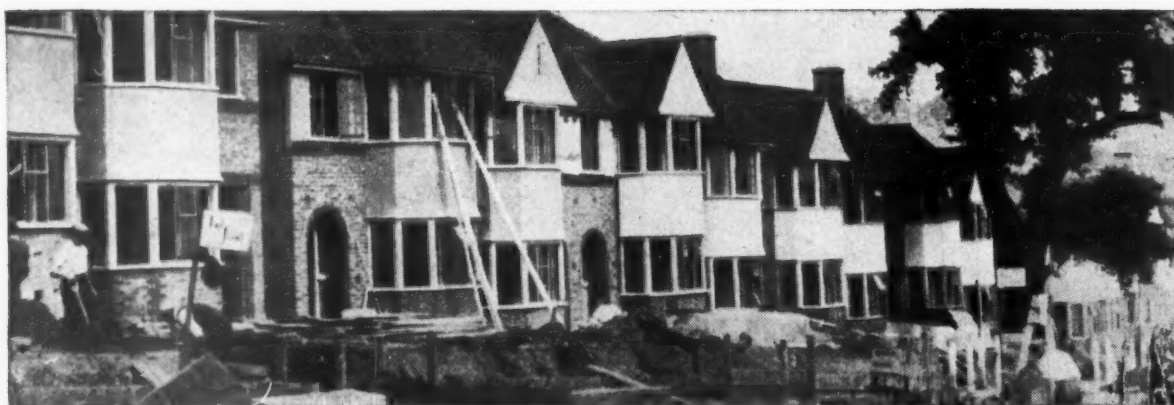
Head Office: Westfield, Upper Singlewell Road, Gravesend, Kent. Tel: Gravesend 4251-4. 'Grams: Gyproc, Gravesend
Glasgow Office: Gyproc Wharf, Shieldhall, Glasgow, S.W.1. Telephone: Govan 614. Telegrams: Gyproc, Glasgow
London Office: 21 St. James's Square, London, S.W.1. Telephone: Whitehall 8021

Makers also of Gyproc Plaster Board, Gypstele Partitions and Ceilings, Plaxstele and Acoustele Ceilings

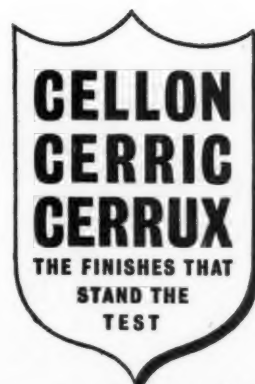
(GK/1)



FROM HUTS TO HOUSES



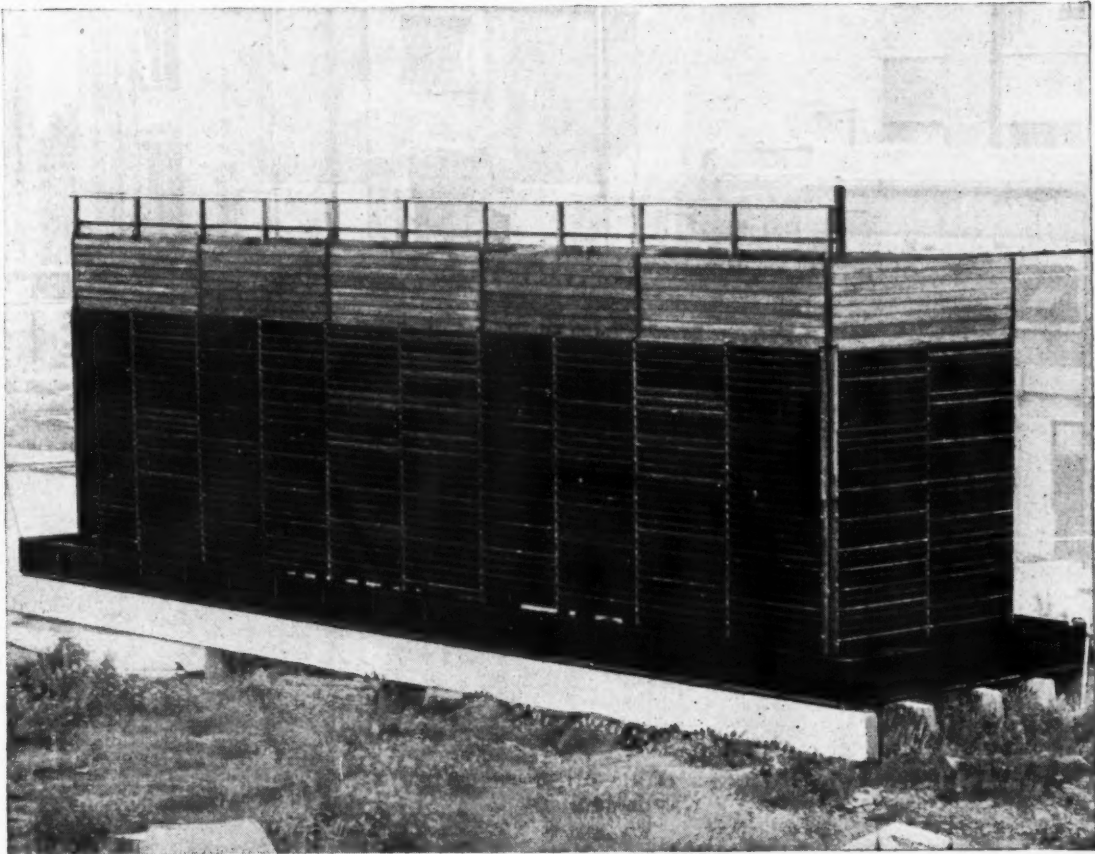
Nissen or prefab, hangar or hotel—the problem to us is not so very different. Every finishing problem is *our* problem, and it's up to us to work out the right answer. We feel quite confident that the Cellon technical service department can help you to give *your* work a finer and more durable finish—and may even be able to suggest ways and means of finishing which have not occurred to you. If you are concerned with interior or exterior decoration and have struck an unexpected snag, we may be able to help you over that. Anyhow, within the limits of shortage of materials, we'll do our best—and that, though we say it ourselves, is not so bad !



CELLON LIMITED, KINGSTON-ON-THAMES, SURREY. TELEPHONE: KINGSTON 1234 (5 LINES)

CVS—562

PRESSED STEEL TANKS



A Braithwaite Pressed Steel Tank used in conjunction with a water cooling tower.

BRAITHWAITE & CO
ENGINEERS LTD



Temporary London Office :

KINGS HOUSE HAYMARKET LONDON S.W.1

Telephone : Whitehall 3993

TRETOL Bituminous Coatings are the result of years of experience and research.

For use wherever Iron, Steel, Concrete and Woodwork need protection against water or chemical and atmospheric influences. Supplied in Black, Red, Brown, Green and Aluminium. Quick-drying. Ready for use. **ACID PROOF.** Applied cold by brush, spray or dipping. A protective coating of highest elasticity.

TRETOL LTD., 12-14 North End Road, London, N.W.11
Telephone : SPeedwell 4621 (5 lines)

TRETOL
BITUMINOUS COATINGS



BOOTH
fireproof doors...
of course

JOHN BOOTH & SONS (BOLTON) LTD · · · HULTON STEELWORKS BOLTON

THE HOUSES ARE GOING UP!



Contractors: Wates Ltd. Staff Architect: K. W. Bland, F.R.I.B.A. Photograph: Helmut Gernsheim

Production of **PHORPRES Bricks**

has increased 5-fold in the last ten months

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



LONDON BRICK COMPANY LIMITED

HEAD OFFICE: AFRICA HOUSE, KINGSWAY, LONDON, W.C.2. TEL: HOLBORN 8282

MIDLAND DISTRICT OFFICE: PRUDENTIAL BUILDINGS, ST. PHILIP'S PLACE, BIRMINGHAM, 3. TEL: COLMORE 4141

SOUTH WESTERN DISTRICT OFFICE: 11, ORCHARD STREET, BRISTOL, 1. TEL: BRISTOL 23004/5

NORTHERN DISTRICT OFFICE: GASCOIGNE STREET, BOAR LANE, LEEDS, 1. TEL: LEEDS 20771. 'GRAMS: PHORPRES, LEEDS L.B.12



Nobles & Hoare's

ALBAMATTE

Flat Oil Paint.

NOBLEX

Washable Distemper.

NOBELIN

A high-grade synthetic Enamel supplied in a full range of colours. Suitable for use on wood or metal surfaces.

ALBAGLOSS

A perfect white Enamel, hard drying, elastic, providing a fine lustrous finish and highly resistant to atmospheric conditions.

BODICOTE

Ready mixed flat white Undercoating with exceptional degree of obliteration.

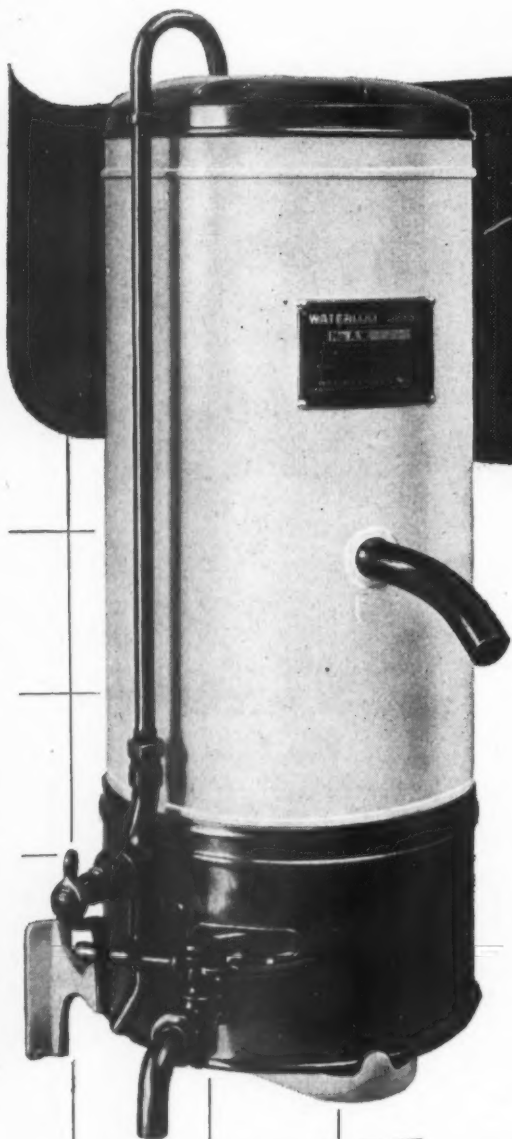
VARNISHES

For interior and exterior use.

Nobles & Hoare

LIMITED

Marine Varnish, Paint & Enamel Manufacturers,
WOODBRIDGE WORKS, KINGSTON ROAD, LEATHERHEAD,
SURREY. Tel. : Leatherhead 2450 & 2992.



The *New* **WATERLOO** SINGLE-POINT WATER HEATER

LOOK HOW

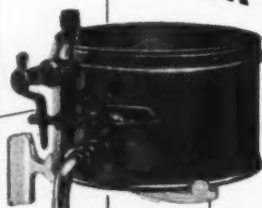
QUICKLY



THE INTERIOR CAN

BE DETACHED

FOR EASY MAINTENANCE



Full particulars on application

WM. EDGAR & SON LTD.

BLenheim WORKS
HAMMERSMITH LONDON W.6
TELEPHONE: RIVERSIDE 3486



WINDOWS —

by AUSTINS



An Impression by
RALPH LAVERS, A.R.I.B.A.

THE
AUSTIN-HALL GROUP OF COMPANIES

AUSTINS OF EAST HAM LTD.

LONDON, E.6

GRAngewood 3444



At the B.B.C. . . .

accurate time is distributed throughout Broadcasting House by the Gents' Electric Impulse Master Clock shown on the right. B.B.C. Engineers know that the Electric Impulse Clock system is ideally suited to large establishments where accurate uniform time—independent of mains variations—is of prime importance.

That is why they use

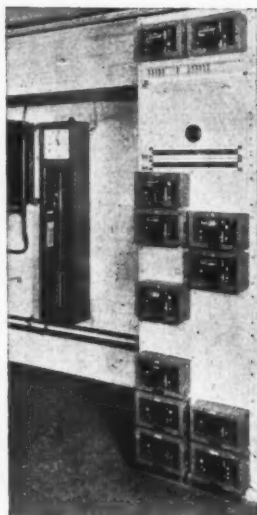
ELECTRIC

IMPULSE CLOCKS by



GENT & CO. LTD., FARADAY WORKS, LEICESTER
LONDON OFFICE: 47 VICTORIA STREET, S.W.1.

Makers of Electric Impulse and Synchronous Clocks, Tower Clocks, Striking and Chiming Mechanisms, Fire and Burglar Alarms, Staff Locators, Telephones and Interphones.



BLUNDELL PAINTS

*A safe investment
backed by
135 years experience!*

*A Blundell
Quality Product*

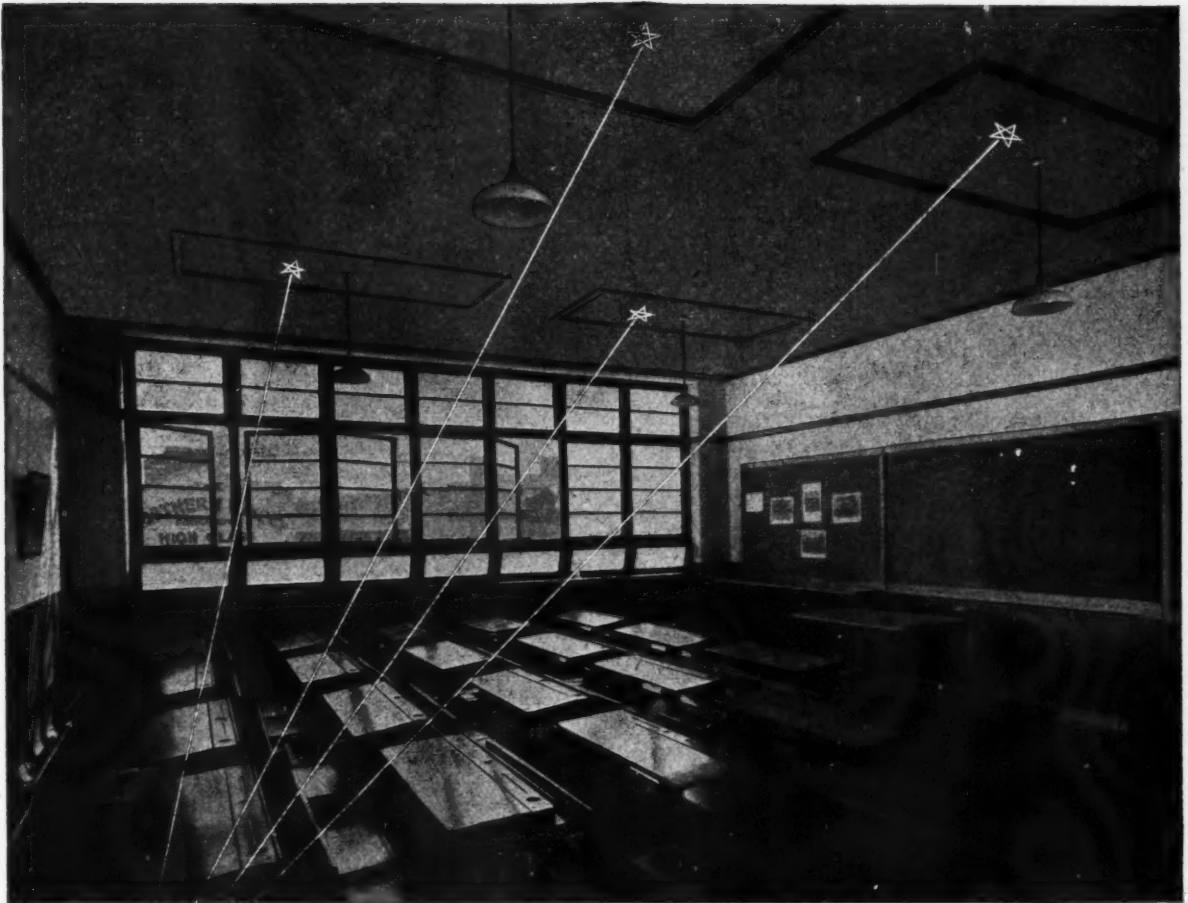
**BLUNKOTE
HARD GLOSS PAINT**

The famous protective paint which gives an exceptionally bright, hard wearing and durable finish on either inside or outside surfaces. Write for Colour Card and prices.

BLUNDELL SPENCE & CO., LTD.,

Manufacturers, since 1811, of Quality Paints,
Colours and Varnishes for all purposes.

HULL, and 9 UPPER THAMES ST., LONDON, E.C.4



Radiant warmth from above

The Ideal Rayrad is the perfect radiator for warming the modern type of school where large areas of wall space are occupied by windows and sliding doors. This flat surface radiator can be fitted flush with ceiling or walls in positions that assure an even distribution of healthy warmth over the entire room. It warms by low temperature radiation which creates direct bodily comfort for the occupants of the room, without interfering with the normal ventilation. The Rayrad is easily accessible, and when decorated is indistinguishable from the surrounding ceiling or wall. The above illustration shows No. 35 Rayrads fitted in the ceiling of a school. Full particulars are available to all those interested in providing this modern system of heating in schools and other priority building schemes.

IDEAL
RAYRAD

The Radiant Radiator

IDEAL BOILERS & RADIATORS LTD. IDEAL WORKS HULL YORKS

McN 3358

WE BUILD IN STEEL



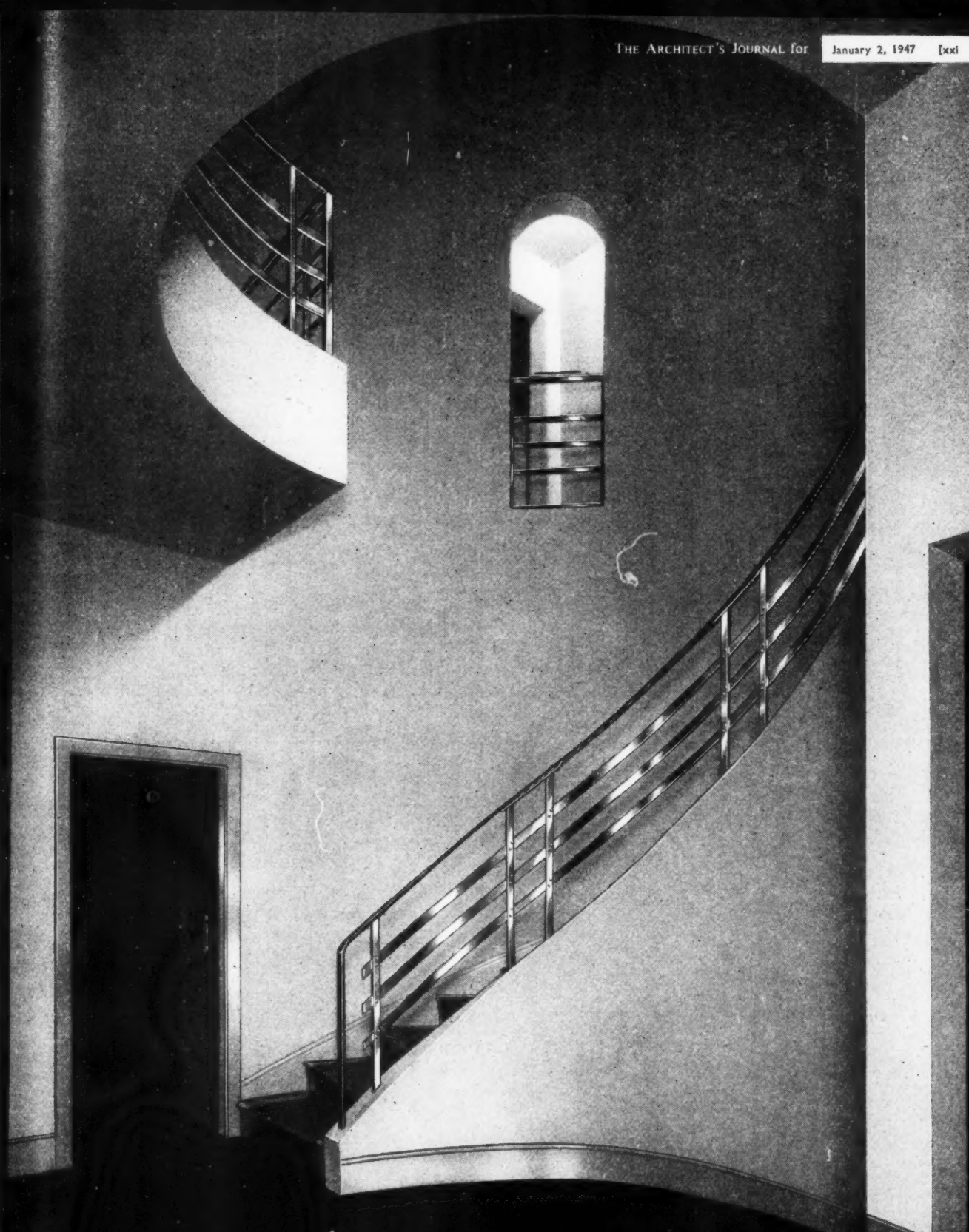
IT is a pleasant custom in some parts of the world for the builder to propitiate his gods with offerings of bananas, yams, coconuts and such like.

Apart from the present scarcity of fruit, we will continue to rely on sound planning and good workmanship.

**BANISTER,
WALTON & CO. LTD.**
STRUCTURAL STEELWORK

RIVETED ★ WELDED

LONDON, S.W.1—82 Victoria Street MANCHESTER 17—Trafford Park BIRMINGHAM 15—192 Broad Street



BIRMABRIGHT

"Birmabright" — the brand of aluminium used in this Northumbria residence — is particularly resistant to atmospheric influences. The work was executed by Messrs. W. Aynesley & Sons Ltd. Architects Archibald & Archibald, F.F.R.I.B.A. Write for illustrated leaflet

BIRMABRIGHT LIMITED · QUINTON · BIRMINGHAM · 3



'WARICRIM'
HIGH DUTY
METAL SECTIONS
FOR THE BUILDING INDUSTRY

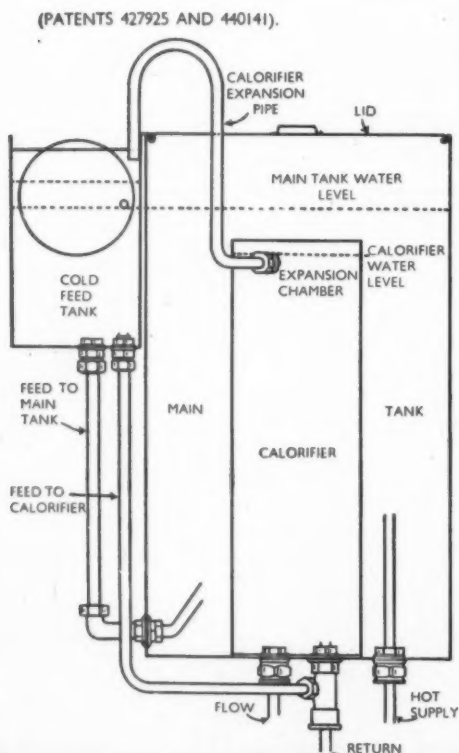
*Supplied to the Aircraft, Automobile
Textile, Coachbuilding, Railway,
Shipbuilding Industries, etc., etc.*

Let 'WARICRIM' Sections take the strain

WARWICK RIM & SECTIONING CO. LTD.
GOLDS GREEN, WEST BROMWICH STAFFS

A
BROCKHOUSE
COMPANY

W



ROLYAT

CALORIFIER HOT WATER SYSTEM

prevents

choked circulating pipes and furred boilers by eliminating scale and deposit, however hard the water. No circulation exists between the Calorifier Unit and the main tank.

provides

a quick and abundant supply of hot water without heavy maintenance costs. Cold Cistern obviated.

Write for closer details:—

AN
INDIRECTLY-HEATED
HOT WATER TANK
DESIGNED FOR
HARD WATER
AREAS!

THE ROLYAT TANK CO. LTD. CROMWELL RD. YORK

**Roof, walls, foundations . . .
from top to bottom of building
work there are many jobs
which IBECO★ can make easier,
sounder, quicker, cheaper
— or perhaps all four**



/// **★ IBECO** ///

IBECO is a tough-textured kraft paper made completely impervious to moisture by a patented bitumen emulsion totally permeating the paper fibres. Folding and creasing do not impair its waterproofness since there is no 'free' bitumen to harden and crack. Five weights are made — for concrete work, roof work, floor and wall-lining. Samples are available on request.

MADE BY C. DAVIDSON & SONS LTD (DEPT K.56), MUGIE MOSS, BUCKSBURN, ABERDEEN

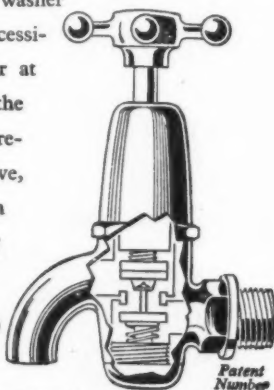
For the new building

A NEW TAP

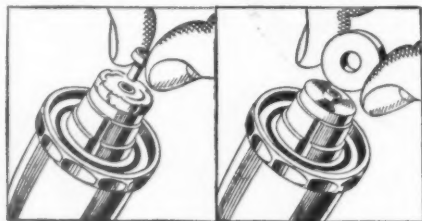
automatically turns off water while washer is being changed

Architect and builder will recognise in the *Shaff Tap* a practical and worth-while development in water-tap design. For changing a washer of a *Shaff Tap* does not necessitate turning off the water at the main or stop-tap. As the head is unscrewed and removed the secondary valve, located in the bottom housing, automatically stops the flow.

**WASHER CHANGED
IN 30 SECONDS!**



Another time and trouble-saving feature is the absence of a nut to hold the washer in position. A spindle pin, easy to withdraw and re-insert, is substituted. In less than a minute a novice can change the washer on a *Shaff Tap*.



Shaff Taps

**Pillar, Mixer,
Bib and Stop-tap Types**

Approved by the Metropolitan and other Water Boards and manufactured under British Standards Spec. 1010.

Write for fully descriptive leaflet to:—

JAMES SHAFFER LTD

82-106 Cricklewood Lane, N.W.2

Tele.: Gladstone 332119, Grams.: 'Shaff, Crickle, London' an at South Shields.

HEAVY DUTY FLOORS

"FERROGRAN"

STEEL FACED FLOOR FLAGS

(HYDRAULICALLY PRESSED)

FOR HEAVY TRAFFIC CONDITIONS

SIZES: 12" x 12" x 2"

12" x 12" x 1 1/4"

"CONSOL"

**STEEL ANCHOR
FLOOR PLATES**

10 GAUGE STEEL

FOR HEAVIER TRAFFIC
CONDITIONS

SIZES: 12" x 12" & 12" x 6"



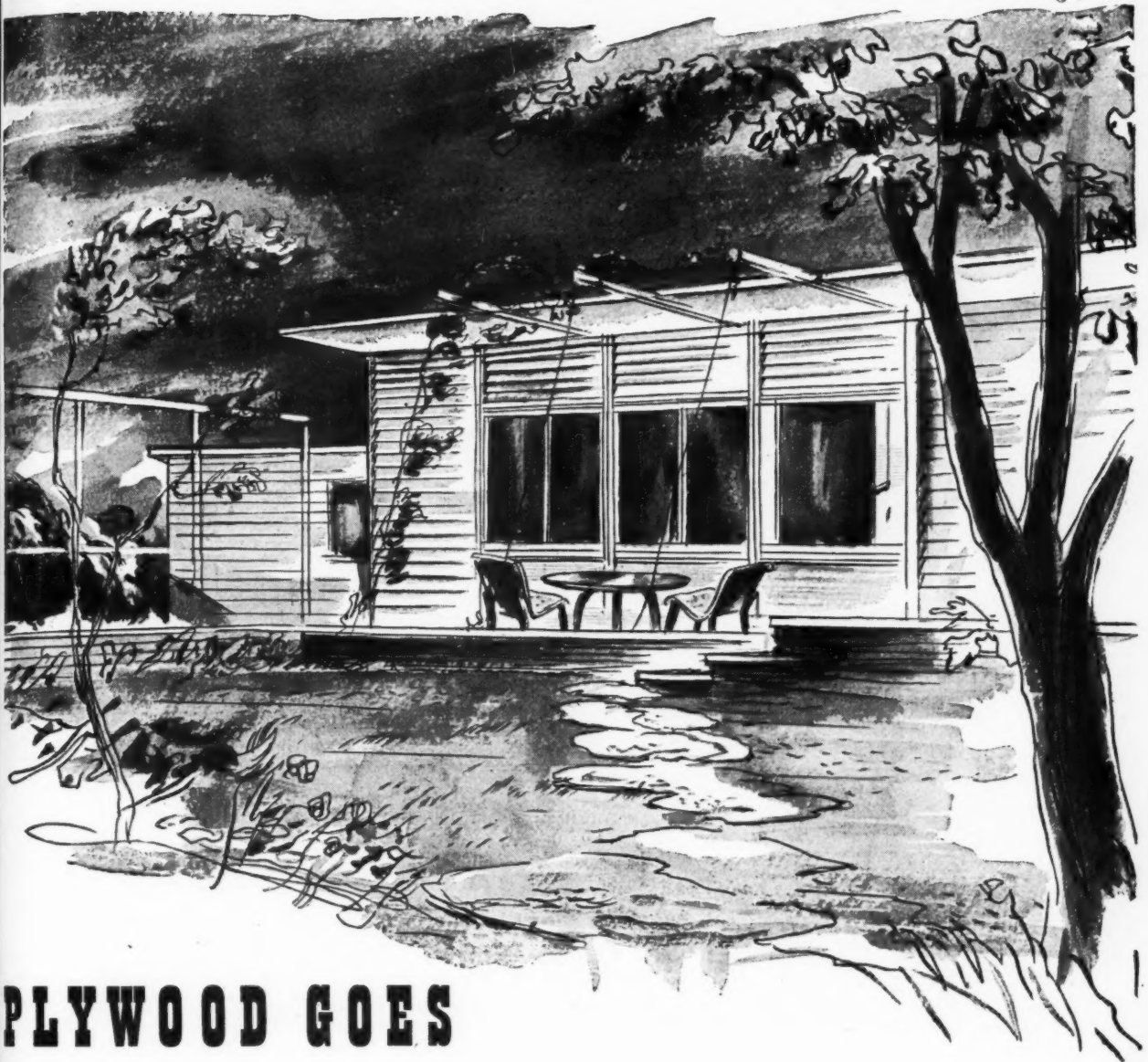
HEAD OFFICE & WORKS: WEDNESBURY, STAFFS

Telephone: 0284 (5 lines)

LONDON OFFICE: ARTILLERY HOUSE, ARTILLERY ROW, S.W.1

Telephone: 1547-8 Abbey

TO STAND UP TO ALMOST INDEFINITE WEAR



PLYWOOD GOES OUTDOORS

Wartime development has given Architects and Builders a new and better kind of plywood. Bonded with plastic resins, known as Tego Resinfil and Beetle Cement, it combines great strength with high resistance to moisture. Its durability

is such that millions of square feet were used for the "Mosquito" aircraft, for M.T.B.s and for numerous other wartime purposes.

Plywood bonded with these plastic resins is suitable for many outdoor constructional jobs — flush doors, cladding to walls, porches, awnings, concrete shuttering, etc. It can be recognised by one of these marks which is stamped on every piece:



Enterprising manufacturers who would like to experiment with this new and better plywood should ask their suppliers about it.



TEGO RESINFILMS MADE BY BRITISH TEGO GLUEFILM LTD., BLACKHORSE LANE, LONDON, E.17.) and BEETLE CEMENTS (MADE BY BEETLE BOND LTD., 1 ARGYLL STREET LONDON, W.1) are distributed in the U.K. solely by BARTER TRADING CORPORATION LTD., 14 WATERLOO PLACE, LONDON, S.W.1

ON THE WAY TO BUILD MORE HOUSES



FOR BRISTOL



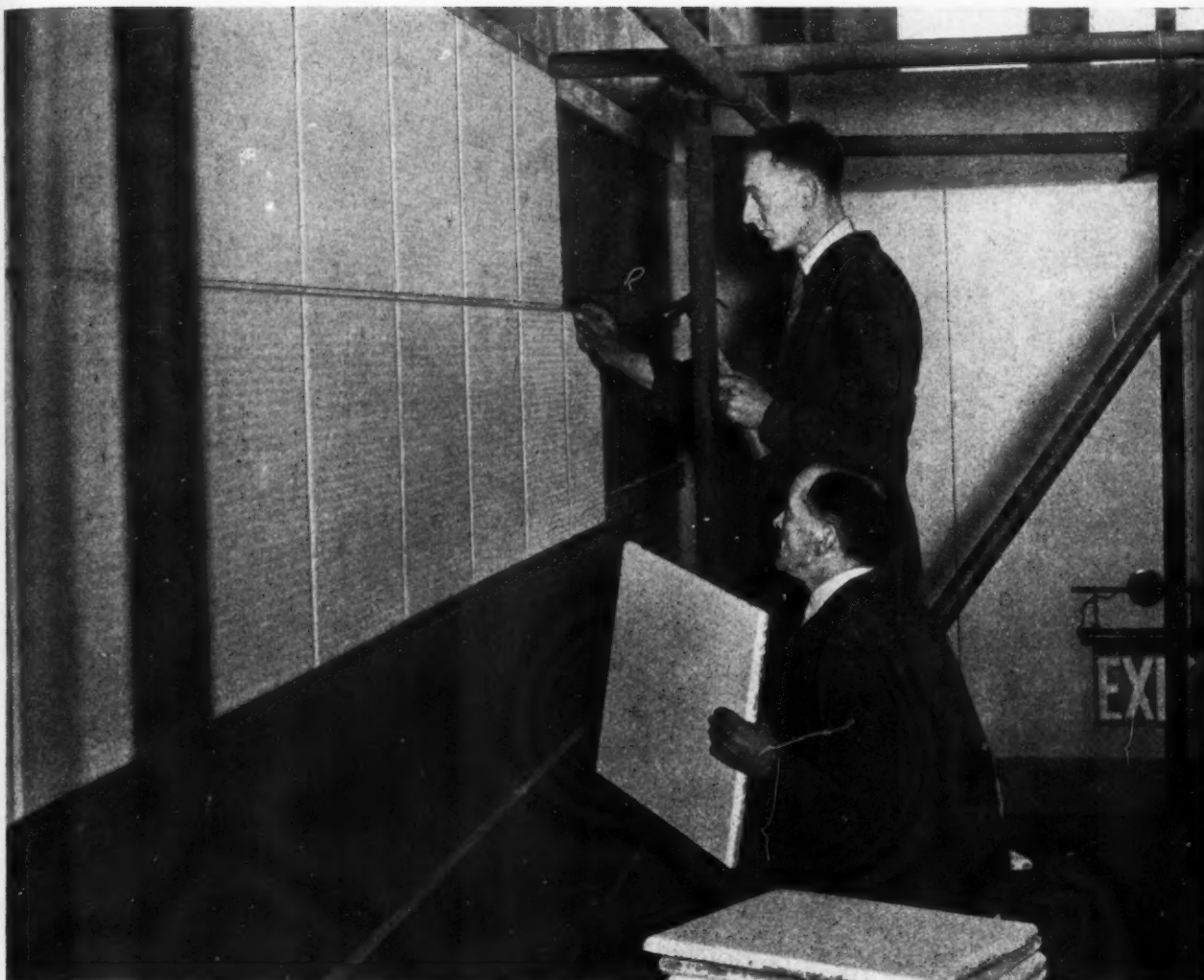
THE CEMENT MARKETING COMPANY LIMITED

HEAD OFFICE:

192 ASHLEY GARDENS, LONDON S.W.1. Telephone: VICtoria 6677 Telegrams: Portland Sowest, London

WESTERN OFFICE: ROYAL LONDON HOUSE, QUEEN CHARLOTTE ST., BRISTOL 1

Telephone: Bristol 21553 Telegrams: Blucircle Bristol



EASY TO FIX

The illustration shows the fixing of Newalls brand Paxtiles to provide a sound absorbent surface for acoustic correction. Paxtiles are made of asbestos and are fireproof and vermin proof.

NEWALLS
Insulation Co. Ltd.

HEAD OFFICE: WASHINGTON, CO. DURHAM. OFFICES & DEPOTS AT LONDON, GLASGOW, MANCHESTER, NEWCASTLE-ON-TYNE, BIRMINGHAM, BELFAST, BRISTOL & CARDIFF

SUNDEALA

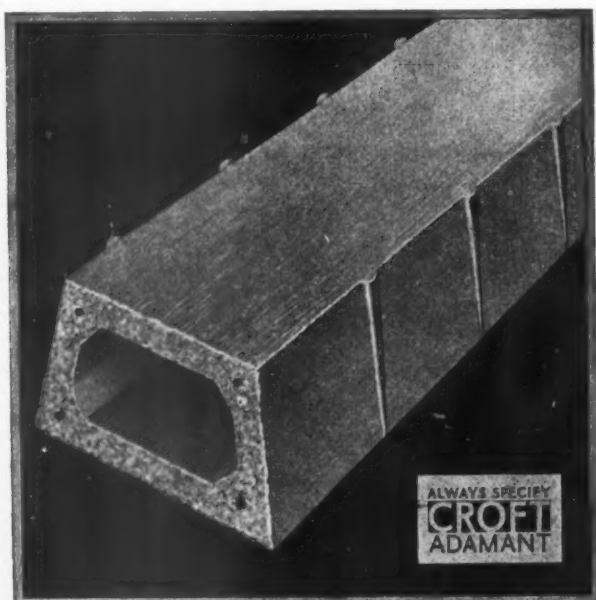
THE BUILDING BOARDS THAT WON'T LET IN THE WET ...

The exceptional water-resisting properties possessed by SUNDEALA Building Boards are due to the fact that every board is *scientifically waterproofed throughout its entire thickness* during the process of manufacture. For exteriors that must weather the weather SUNDEALA is supreme! Available in a range of standard sizes and thicknesses to meet all requirements. Write for details.

THE PIONEER ALL-BRITISH BUILDING BOARDS FOR EXTERIOR & INTERIOR USE

SUNDEALA BOARD CO. LTD., ALDWYCH HOUSE, LONDON, W.C.2. Telephone: CHAncery 8159. Works: Sunbury-on-Thames, Middlesex
Members of the Building Board Manufacturers' Association.

CROFT ADAMANT



PRECAST HOLLOW CONCRETE FLOOR BEAMS

FOR GREAT STRENGTH
EASY AND RAPID
ERECTION

Made with Best British Portland Cement and Granite Aggregate from our own Quarry.

Your enquiries are invited

**CROFT GRANITE, BRICK & CONCRETE
CO. LTD., CROFT, Near LEICESTER**
Telephones: Narborough 2261-2-3.

London Office: 7, Victoria Street, Westminster, S.W.1.
Tel.: Abbey 4802.

Branch Office and Works: West Bank, Widnes.
Tel.: Widnes 2656-7.

Known throughout the World!



**MOULDED
PLASTIC
W·C SEATS**

- DURABLE & HYGIENIC
- PERMANENT COLOUR & POLISH
- ADJUSTABLE FITTINGS
- IMPERVIOUS TO WATER & ACID
- NO BREAKAGES

USED IN GOVERNMENT DEPARTMENTS • INSTITUTIONS • PUBLIC BUILDINGS • HOTELS • ETC.

Robert McArd & Co., Ltd.
Crown Works • Denton • Manchester

PIONEERS IN MOULDED PLASTICS

ON VELVET

Cables glide through
the super-smoothness
of "Walsall" Conduit,
and over the smooth
bushed entries of
"Walsall" Fittings.....

The Conduit System
without "snags."



WALSALL CONDUITS LTD · WEST BROMWICH · STAFFS

WHY THOSE

polar regions
IN THE HOME ?



No. 3D Siesta Inset Model.

As every Architect knows, good heating is the outcome of careful study and judicious planning. In a Siesta there is a medium through which he can freely express his ideas and achieve the objective of his plans.

The newly designed Siesta 3D Inset Stove shown above offers a special scope where it is desired to feature "background" heating. Through ductings, convected heat is directed to any predetermined area, whether it be adjoining rooms on the same floor or bedrooms above. Coke, anthracite, coal or commercial fuels can be used.

Siesta is a high-efficiency stove because the rate of combustion is under constant control.

In specifying

SIESTA

you are always right



ADOPTED BY H.M. GOVERNMENT

PARK FOUNDRY BELPER DERBY

•
Finest quality
Vitreous Enamel finish
in brown, green,
stone mottle and
black
•

May we
tell
you more
about
Siesta Stoves



Once, neatly piled rows of Teak, and other hardwoods awaited your pleasure in our yards. Instant delivery and no licences! Variety was indeed the spice of the timber merchant's life.

Though our stock yards are now perhaps only a shadow of their former selves, we are strenuously endeavouring to meet industry's needs with a steady output of Home-grown Hardwood, and diligent searching for the best of the Imported wood that customers' licences will allow.

M·A·MORRIS·LTD

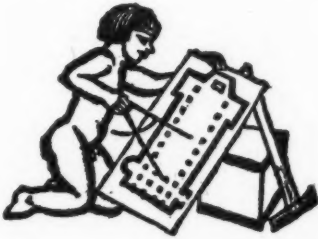
RAVENSDALE WHARF
& SAWMILLS,
Telephone:



STAMFORD HILL
LONDON, N.16.
Stamford Hill 6611 (6 lines)

"MORRIS OF STAMFORD HILL" FAMOUS FOR FINE WOODS

In common with every other periodical this JOURNAL is rationed to a small part of its pre-war needs of paper. Thus a balance has to be struck between circulation and number of pages. We regret that unless a reader is a subscriber we cannot guarantee that he will get a copy of the JOURNAL. Newsagents now cannot supply the JOURNAL except to a "firm order."



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 15s. each; carriage 1s. extra. Goods advertised in the JOURNAL and made of raw material now in short supply, are not necessarily available for export.

DIARY FOR JANUARY FEBRUARY AND MARCH

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 as given in the glossary of abbreviations on the front cover.

BIRMINGHAM. J. H. Nelson. *Industrial Decoration.* At the Imperial Hotel, Temple Street, Birmingham. 6 p.m. (Sponsor, IES, Birmingham Centre.) JAN. 3

L. A. Bawden. *Some Considerations Affecting the Use of Steam for Space and Process Heating.* At the Imperial Hotel, Birmingham. 6.30 p.m. (Sponsor, IHVE, Birmingham and District Branch.) JAN. 16

DERBY. *English Water Colours from the Hickman Bacon Collection.* Exhibition at the Museum and Art Gallery. (Sponsor, the Arts Council.) Until JAN. 11

LONDON. *Exhibition of the King's Pictures.* At the Royal Academy, Piccadilly, W. About 500 paintings in the Royal Collection, selected from all the Palaces in which the collection is permanently kept. Includes a large number of works not normally accessible to the public. Weekdays, 10 a.m. to 7 p.m. Sundays, 2 p.m. to 7 p.m. Admission 1s. 6d. Until MAR. 16

British Road Federation's First Post-War Exhibition. At the Empire Tea Bureau, 22, Lower Regent Street, W.1. Primarily the object of the exhibition is to assist road constructional engineers, designers and other technical experts to maintain contact with the new developments, both in this country and abroad. Its second feature will explain to the general public the existing highway conditions and the plans already made to alleviate the position, together with possible developments of the future. Weekdays, 10.30 a.m. to 7 p.m. Sundays, 2.30 p.m. to 6 p.m. (Sponsor, BRF.) Until JAN. 11

Your New Home. House Building Industries' Exhibition. At the Housing Centre, 13, Suffolk Street, Haymarket, S.W.1. (Sponsor, HC.) Until JAN. 12

G. A. Jellicoe. *Architecture: What it Means. How it Affects You at Home, at School, at Play.* Christmas lecture for boys and girls. At the RIBA, 66, Portland Place, W.1. 3 p.m. (Sponsor, RIBA.) JAN. 3

Welsh Industries Fair. At the Royal Horticultural Hall, Westminster, S.W.1. (Sponsor, National Industrial Development Council of Wales and Monmouthshire.) Until JAN. 7

Spencer Vaughan Thomas. *Modern Trends in Education.* At the AA, 34-36, Bedford Square, W.C.1. (Sponsor, AA.) 6 p.m. JAN. 8

D. V. H. Smith. *District Heating.* At the Institution of Mechanical Engineers, Storey's Gate, Westminster. 6 p.m. (Sponsor, IHVE.) JAN. 8

Professor R. H. Evans. *Extensibility and Modulus of Rupture of Concrete.* At the Institution of Structural Engineers, 11, Upper Belgrave Street, S.W.1. 6 p.m. (Sponsor, ISE.) JAN. 9

Professor G. D. H. Cole. *New Tasks for Local Government in Old Towns.* At the Planning Centre, 28, King Street, Covent Garden, W.C.2. Buffet lunch, 12.45 p.m. Talk, 1.15 p.m. (Sponsor, TCPA.) JAN. 9

Building Science. An exhibition of science applied to modern building construction. At Caxton Hall, Westminster, S.W.1. 10 a.m. to 7 p.m. Papers read each evening at 7.30. Admission free. (Organised by the Incorporated Association of Architects and Surveyors and the Department of Scientific and Industrial Research.) JAN. 13-18

Anthony Minoprio. *Criticism of Prizes Deed of Award.* At the RIBA, 66, Portland Place, W.1. 6 p.m. (Sponsor, RIBA.) JAN. 14

Ethiopian Exhibition of Arts, Crafts, Industry and Education. At Foyle's Bookshop, 111, Charing Cross Road, W.C.2. 9 a.m. to 6 p.m. (Sponsor, Princess Tshai Memorial Hospital Council.) Sir Patrick Abercrombie will open the exhibition at 3 p.m. on January 20. JAN. 20-FEB. 4

E. H. Nevard. *The Stress Grading of Timber and Its Influence on Structural Design.* At the Institution of Structural Engineers, 11, Upper Belgrave Street, S.W.1. 6 p.m. (Sponsor, ISE.) JAN. 23

John Gloag. *Industrial Design.* At the Planning Centre, 28, King Street, Covent Garden, W.C.2. Buffet lunch, 12.45 p.m. Talk, 1.15 p.m. (Sponsor, TCPA.) JAN. 23

Professor W. G. Holford. *New Towns.* At the RIBA, 66, Portland Place, W.1. 6 p.m. (Sponsor, RIBA.) JAN. 28

S. Payton. *Electrical Work as Applied to Heating and Ventilation.* At the Junior Institution of Engineers, 39, Victoria Street, S.W.1. 6 p.m. (Sponsor, IHVE, London and District Associate Members and Graduates Section.) JAN. 28

Howard Robertson. *Design of Interiors.* At the AA, 34-36, Bedford Square, W.C.1. (Sponsor, AA.) 6 p.m. JAN. 29

MANCHESTER. H. Y. Turnbull and H. Hoyle. *Unit Heaters.* At Milton Hall, Deansgate, Manchester. 7 p.m. (Sponsor, IHVE, Manchester and District Branch.) JAN. 13

MILFORD HAVEN. *The Art of the Film.* Exhibition at the Town Hall. (Sponsor, the Arts Council.) Until JAN. 13

NEWS

THURSDAY,
No. 2710

January 2, 1947
VOL. 105

News	3
County Architect of North Riding ..	4
This Week's Leading Article ..	5
Astragal's Notes and Topics ..	6
Letters from Readers	7
BOAC's First Interior	8
Swiss Shops. Described and photographed by Bryan Westwood	9
Societies and Institutions ..	14
Houses at Bilston, Notts. Designed by Ella B. Briggs ..	15
Technical Section	17

Though no feature in the JOURNAL is without value for someone, there are often good reasons why certain news calls for special emphasis. The JOURNAL's starring system is designed to give this emphasis, but without prejudice to the unstarred items which are often no less important.

★ 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 features marked with more than two stars is very big building news indeed.

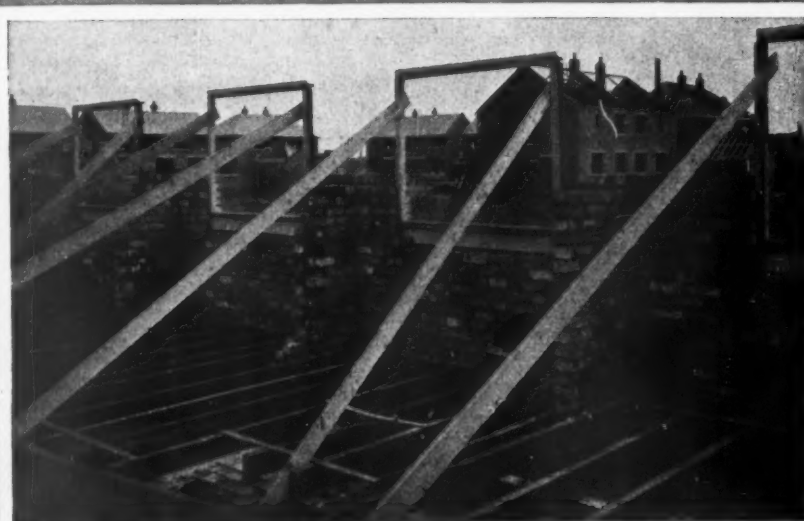
★
A great success is assured for THE BUILDING EXHIBITION, 1947, to be held in the Grand and National Halls of Olympia from November 19 to December 4.

The response from old exhibitors has been most gratifying and there has been an enormous demand for space from new firms. Unfortunately it has not been possible to secure additional space at Olympia. This has made it necessary to curtail the sizes of some stands and impose a maximum of 800 square feet. For stand construction there will be the pre-war second-hand material of a number of stand fitters and perhaps a certain amount of new material, but it is doubtful whether any licences will be granted for new timber to be used. It seems, therefore, that the solution lies in each exhibitor using his own product to the maximum. Mr. L. H. Keay, President of the RIBA, is chairman of the Exhibition, and the Directors, as before, are Mr. H. Greville Montgomery and Mr. Hugh R. G. Montgomery. A well-known figure who will be sadly missed is Mr. H. C. (Stow) Montgomery, brother of Mr. Hugh, and for very many years associated with the exhibition. His death last April was deeply regretted by a host of friends.

HOUSING SCHEME, ASHTON-UNDER-LYNE

A. T. Kemp, M.I.M. & C.E., *Borough Engineer*

James Ridyard & Sons Ltd., *Building Contractors*



BUILDING IN

- (1) Build cavity wall up to cill level.
- (2) Place Sub-frame over the two walls and plumb level and upright, using steel frame as template.
- (3) Strut firmly in position, as illustrated above.
- (4) Build up jambs to head level.
- (5) Carry on with lintol, not forgetting lead weathering apron which extends 6" beyond jambs and head.

Continuous cavity around opening is now sealed by Sub-frame. Fix and glaze steel window after rough work is completed.

HOPE'S *Galvanized* "Cavity" SUB-FRAMES

HENRY HOPE & SONS LIMITED
Smethwick, Birmingham 17 Berners St., London, W.1



From AN ARCHITECT'S Commonplace Book

THE CYCLE OF POPULARITY. [*From The Castles on the Ground, by J. M. Richards (Architectural Press).*] The most marked contrast is that between the dairy and the Odeon. The latter is absolutely the last word, but when the former was built it was the last word, too; so much so that its *art nouveau* tiling shocked nearly everyone when it first intruded itself. . . . First the dairy was new-fangled, then fashionable, then merely commonplace, then rather dowdy, then laughably old-fashioned and out of date, then (to the sophisticated) attractively "period," and so on. This last one is probably as advanced a stage as will be reached for a little while, and to the ordinary suburban resident—the non-sophisticate—the dairy is still in the previous stage; it is still merely an old-fashioned type of shop with no romance attached to it. For him, the next stage will have arrived when it is generally acknowledged to be romantically old-world. The final stage is, one supposes, its acceptance and veneration as a museum piece. . . . If the sophisticated world is now almost ready to admire the *art nouveau* dairy again, will it not in due course admire the chromium bedecked Odeon too? Already there are signs that the day is coming when the older suburbs, recently despised, will be commonly admired. After the lapse of the necessary time, the charm of their peeping gables and balustraded porches set among varied and intricate greenery will suddenly flash upon us, as full of romance as the manors and dower houses whose styles they emulate. And in due course will not the newer suburbs follow suit: the sham half-timbered villas with their creosoted garages, their crazy paving and the bottle glass in the panes of their front doors, and even the modernistic villas with corner windows, horizontal window panes, angular balconies and green-glazed tiles on their roofs?

Mr. Driberg asked the Minister of Works, in the House of Commons, if during the restoration of WESTMINSTER HALL, he will install lighting of a suitable character for the illumination of the roof.

Mr. Tomlinson: The system of floodlighting, which was installed at the time of the King George V Jubilee and retained for occasional use until the roof was damaged in 1941, will be replaced when the roof repairs are completed. Mr. Cooper asked the Minister of Works when he intends to take steps to improve the windows and electric lighting of St. Stephen's entrance and the Central Lobby of the Palace of Westminster, in order to eliminate the present gloomy appearance of the entrance to this building. Mr. Tomlinson: Preparations for the reglazing of windows in St. Stephen's Hall and the Central Lobby are well advanced and the work will be carried out as soon as possible. The electric lighting was reduced for reasons of fuel economy, but I will consider whether some improvement can be made. Mr. Cooper: Will the hon. Gentleman see that the lighting is sufficient to enable the public to read whilst they are waiting to get into the Chamber? Often they have to wait for long periods. Mr. Tomlinson: I will look at that.

★

The resistance by a section of the STEVENAGE, Herts, residents to the building there of a new town has entered a new phase with the serving in the High Court of a notice of motion against the Treasury Solicitor at the Ministry of Town and Country Planning, asking that Mr. Silkin's order under the New Towns Act, 1946, be quashed.

The motion is in the names of Mr. George Hearn, chairman of the Stevenage Residents' Protection Association, Mr. W. E. Franklin, a Stevenage farmer, and Mr. M. H. Tetley, a Stevenage landowner. Grounds for the motion are that the Minister's order is not within the powers of the Act, or alternatively that the requirements of the Act have not been

complied with and the interests of the applicants have been substantially prejudiced because (a) before considering objections the Minister stated that he would make the order, and was therefore biased in his consideration of the objections, and (b) the Minister did not, before making the order, cause a public local inquiry to be held.

Mr. R. E. Stenning has been APPOINTED SECRETARY of the London Master Builders' Association.

He succeeds Mr. W. J. Rudderham, who retired in December after forty years' service with the Association, during twenty-seven of which he was secretary. He is thirty-eight years of age, was educated at Epsom College and Clare College, and is a B.A. (HONS.) of Cambridge University. After taking his Law Tripos II and the Law

Society's final examination, he was admitted a Solicitor in 1933 and practised for some years with his father in Lincoln's Inn Fields and at Leatherhead, Surrey. Later he decided to take up administrative work, and, following a successful career in the National Fire Service, was appointed Secretary of the NFS Staff College at Saltaire, an appointment which he has held for the past two and a half years.

The Georgian house in Hampstead Heath known as CANNON HALL HAS BEEN SOLD.

Cannon Hall, Hampstead Heath, has been sold for about £20,000 for private occupation. The Georgian house, in highly walled grounds of an acre, takes its name from cannons of Dutch origin placed near the house by a former secretary of the East India Company. Sir Noah Thomas, physician-in-ordinary to George III, occupied the house in 1780. The late Sir Gerald du Maurier lived at Cannon Hall for many years. In the garden is the public lock-up which was used as a place of detention until 1832.

Three Orders concerning CONTROLLED WATER AREAS made under Section 14 of the Water Act 1945, have now become operative after the statutory period before Parliament.

These are in respect of the Luton area, the Lee Valley and South-west Essex. The general effect of the Orders is that in future in these specified areas no wells or boreholes for the abstraction of water may be sunk or extended without licence being obtained from the Minister of Health. The only exceptions are where the construction of works is authorized by statutory authority, or where an individual wishes to obtain water solely for domestic needs of his household. In these areas also notice of intention must be sent to the Minister before boring for minerals is undertaken. The form of application for a licence and procedure to be followed is set out in S.R.O. 675, 1946, H.M. Stationery Office, price 1d., post free 2d.



Mr. R. E. Stenning, the new Secretary of the London Master Builders' Association. See News Item.



County Architect of North Riding

Mr. J. Catchpole, A.R.I.B.A., the new County Architect of the West Riding of Yorkshire, was formerly Deputy County Architect and later Acting County Architect of West Sussex. Upon completion of his articles with Brown and Burgess, of Ipswich, he became an Architectural Assistant under the East Suffolk County Council. In 1932 he was appointed Senior Architectural Assistant to Mr. C. G. Stillman, F.R.I.B.A., County Architect of West Sussex; in 1937, Chief Architectural Assistant and later Deputy County Architect. When Mr. Stillman became

County Architect of Middlesex, in November, 1945, Mr. Catchpole became Acting County Architect in West Sussex until Mr. F. R. Steele, F.R.I.B.A., took up his appointment in May, 1946. Mr. Catchpole was Chief Assistant to Mr. Stillman during the time he was developing the light steel construction for schools, many of which were built in West Sussex, embodying this form of construction. Naturally his experience in West Sussex covered all types of county buildings. During the war he served as a sapper officer in the BLA and BAOR.

In the House of Commons, Wing-Commander Robinson asked the Minister of Works in what parts of the country there is now a surplus of BRICKS; and whether he is taking steps to send these surplus bricks to other parts of the country in which there may be a shortage.

Mr. Tomlinson: There are stocks of bricks in all regions, but in the aggregate these are no more than one quarter of the stocks at the end of 1945. In three regions where stocks are rising (the East and West Ridings, North Midlands, and the North Western region) my right hon. friend the Minister of Health has requested local authorities to arrange for building contractors to order and accept delivery of bricks during the winter against their requirements in the first half of 1947. It is open to local authorities and contractors in other parts of the country to make purchases from these regions if they are prepared to meet the cost of transport. Mr. D. Jones asked the Minister of Works the cost of transporting bricks from Belgium to North-East coast ports and South Wales ports, respectively; and to what extent it would be cheaper to explore the possibilities of manufacturing bricks from granulated slag obtainable from furnaces, a plentiful supply of which is available adjoining the existing steel plants, particulars of which have been set to his Department. Mr. Tomlinson: The cost of delivering Belgian bricks at the North-East ports is about £8 10s. per thousand, and at the South Wales ports £9 per thousand. The possibility of producing bricks from granulated slag from furnaces is being explored at the moment.

A large New York store is selling HOUSEBOATS TO SOLVE THE HOUSING SHORTAGE.

The self-propelled, steel-hull houseboat with quarters for four to six people, has an overall length of 36 feet, a beam of 13 feet, and a draft of less than two feet. It cruises at seven miles per hour, carries 130 gallons of fresh water, and its lighting generator of 110 volts enables it to plug in any shore power at dock. The boat comes completely furnished at under 10,000 dollars.

★

The Town Clerk of Whitehaven has received a letter from the Ministry of Health sanctioning the ENNERDALE WATER SCHEME.

The letter states that the Minister is satisfied there is no reasonable alternative to the modified proposals, and that subject to certain safeguards the scheme can be carried through without serious damage to the beauty of the lake. The safeguards include that the quantity of water to be abstracted from the lake shall not exceed 11,000,000 gallons a day; no deviation from the plans as modified shall be allowed in respect of the height of the embankment; a landscape architect shall be employed by the promoters of the scheme to advise on the landscape treatment of the work, including the re-routing of the lakeside path and the replanting of trees; the completed designs shall be submitted for the observations of the Royal Fine Art Commission; and the corporation shall provide alternative access to replace any paths or tracks closed by the works and shall not unreasonably restrict access to the lakeside.

INFORMATION

IN our Building Research Number the need for a close liaison between the scientist and the artist was stressed.

Although our reasons for holding this view are by no means entirely in the interests of material efficiency, there is, nevertheless, one very practical aspect of the problem. Today, it is probably true to say that few, if any, architects are able to conduct their practices without maintaining some sort of organization for the collection and filing of technical data, and however effective the co-operation between scientist and artist, unless records of this co-operation are made easily available to the architect and in a form which he finds useful, an unfortunate delay will take place before such co-operation is fully effective.

While, a few decades ago, quite economic building practice could be conducted simply by ringing the changes on a limited range of materials and products, this is now no longer the case, and this Journal has always tried to help the profession to keep abreast of development in all branches of architecture, physical planning and building technique. We have tried to help the problem being met by publishing not only technical news but such contributions as the Library of Information Sheets, the Physical Planning Supplement, Information Centre, Prices, Housing Statistics, and quite recently, The Industry. Before long the post-war series of Information Sheets will be commencing, an already established feature, to the planning and development of which much care has recently been given. Our object will be to ensure that the minimum effort will be needed by collectors, since the series will be planned and organized in the fullest possible manner. However, this week attention is drawn to another aspect of the problem of Information for Architects.

This—the first issue of 1947—sees the introduction of two entirely new developments. First, to concentrate the main bulk of technical information in such a way as to make reference as easy as possible, a technical section will be introduced, which will include all our regular technical features. Second, the Information Centre will be classified as it is issued, and be printed on one side of the page only.

Now most architects who have given any attention to the problem of organizing their technical data will agree that no body of information is more efficient than the means provided for ensuring rapid and accurate reference at all times. While it is fully realized that classification and filing are but a means to an end, and any tendency to encourage the adoption of systems so intricate and laborious that they defeat the object for which they were designed is deplored, nevertheless there is every justification for properly organized office references.

The future organization of the Library of Information Sheets will ensure the least effort on the collector's part, but in the case of Information Centre an identical degree of planning will not be possible, because the subjects dealt with—

largely information recorded in other publications—are often too general and not necessarily well-planned in their original form. However a general classification system has been adopted—a detailed explanation of which is given on pages 17 and 18—which will help readers to use the Centre. To derive full benefit from this, we suggest that collectors should cut out the items regularly, and paste them up in groups under the classification headings provided, so that complete sections of related information may be consulted at any time.



The Architects' Journal

13 Queen Anne's Gate, Westminster, S.W.1
Phone: Whitehall 0611

NOTES & TOPICS

A WEEK IN SWITZERLAND

Back from a week in Switzerland is Miss Jane Drew, who went to Zürich at the request of the Schweizerischer Werkbund to give a lecture on the present position of architecture in England.

One of the things that impressed her most was the care with which Swiss architects are considering their detailing and equipment. The Haefeli, Moser and Streiger group, for instance, who are responsible for the new Canton Hospital at Zürich, did not like any of the standard designs of the manufacturers and accepted very little, if anything, directly from industry. They have, in fact, themselves designed such things as lavatory basins, hinges, desks, medicine cupboards and laboratory fittings.

Some of the manufacturers seem to have made a good thing out of many of these new designs, for they have taken out patents on them. This has disgusted the architect designers, quite understandably, but they have the consolation, at least, that their work is appreciated by business men and that better design of some standard articles may result.

Miss Drew was also impressed by Moser's new church at Zürich. It has a lovely interior, she reports, due partly to its pleasant plan—deliberately informal to express the free, unauthoritarian Protestant church—partly to its beautifully diffused lighting, and partly to the texture of its walls. These are covered with a rough rendering which sparkles with a granite spar, and has a pattern formed by skimming off the top surface in alternate squares.

STYLED FOR THE AUTO-ELECTRONIC AGE

Large and bulbous, the new American saloons seem very prevalent in the Portland Place area nowadays. I cannot believe that they belong to architects, and suspect that the owners are the Harley Street tycoons, or perhaps diplomats. All these super-streamlined jobs look as though their prototypes had been made in rubber and then blown up with a bicycle pump; the end which goes first being identifiable by the larger acreage of chromium. American cars have always responded rather too faithfully to the stylisers latest cliché, but really these flying meringues make me long for the old Ford Utility van, wood graining and all.

TIDYING UP THE BIF

One of ASTRAGAL's annual thunderbolts used to be aimed at the BIF—stands, layout, the goods shown, and

the crudity of the heating arrangements. And now Sir Stafford Cripps has appointed two panels of consultants. For Earls Court, Messrs. Emberton, Fry and Nicholson; for Olympia, Messrs. Spence, Gooden and Yorke.

From the Civil Service point of view their terms of reference are impeccable—"to co-ordinate general layout, and to approve and prepare stand designs." But what happens when an exhibitor dusts off his 1939 job and refuses to spend money on another, pleading housing drive and labour shortage as an additional excuse. I wish the consultants well, but I don't envy them their coming headaches.

Castle Bromwich, the worst offender, is not mentioned; perhaps too tough a nut even for Sir Stafford?

CIGAR BEACON

Any amateurs of sculpture who are disappointed with Sir William Reid Dick's interpretation of President Roosevelt are invited to consider Mr. V. B. Erikson's Churchill effort, intended for Dover cliffs. "In his uniform of Warden of the Cinque Ports, Mr. Churchill is holding his cigar aloft . . . the cigar tip would have a powerful beacon." The Mayors of the Cinque Ports have, I hear, turned this suggestion down. I wonder why. The idea seems to be an excellent one, com-



One of the standard basins of the new central hospital at Zurich designed specially by the architects. See Astragal's note.



Let love and laughs and leisure
Be balanced up with work.
Shirkers of the world, unite!
Jack upwards with a jerk
Your chassis of endeavour;
The wheels are clogged with dirt.

On the deck of Silkin
No homesick family drowns;
The ship shall find her harbour,
The housing kings their crowns.
O, shout the song of Silkin's
Pocket of new towns!

EDWARD LEWIS.

ROADS SCHOLAR

The Institution of Municipal and County Engineers is not a body that one associates instinctively with literature—which, of course, is myopic, for all the best institutions have concealed somewhere in their bosoms men of literary talent. The IMCE, for instance, has been blessed with a Secretary, Mr. C. W. Scott-Giles, who has assembled an anthology. It is called *The Road Goes On*, it costs 15 shillings, it is published by the Epworth Press, and I liked it.



LETTERS

Donald A. Shears

R. A. Thomas,
M.Inst.R.A. (Ex-R.A.F.)Peter A. Dannenbaum,
Student of Industrial Design at Twickenham Art School

Town Planning

SIR.—Astragal's writings are as a breath of Spring to many of us—who at least attempt to keep out of the proverbial rut and are all for a generous helping of criticism—constructive. There is not enough of it—it stimulates the weary, strengthens the waverer, and, thank God, shatters the self-satisfied. All this is old stuff to you, but nevertheless sincere, and so, hereby, placed on record.

Your Notes and Topics of December 5, including some pointed satire concerning the New Towns, are more than welcome. There are, however, some factors concerning the younger school of Town Planning boys (especially those who were fortunate enough to broaden outlooks by war service) that I ask to put before you. We are definitely not all of the opinion that the advances (and one gratefully admits them) made in Planning during recent years make for joyful and happy complacency in the camp. We may "lead the world in town and country planning." All very pleasing, but it does not give us Utopia or any reason to assume that we are on the way there.

We have some truly fine and imaginative schemes for various places. You know them all—Exeter, Plymouth, Manchester, the Greater London Plan and its smaller brother, and now Hull. No one can quarrel with the value of much of this work, but, and it is a large BUT, there is no true national directive. There have been various excellent Reports from certain specially appointed Committees, but no fundamental National Plan seems forthcoming, with the necessary legislation for its implementation, and the economic programme that must inevitably accompany such a Plan—no matter what the Government in power. A study of these various Plans makes it obvious that those responsible for them feel that it is high time some clear guidance from a national level was made available, e.g., "It cannot be said that so far much guidance has been forthcoming from a national source" (the Hull Plan).

Do these new proposals for any large

DETROIT PUBLIC LIBRARY



The 172 ft. high statue of Mr. Churchill offered by the USA for erection on the cliffs of Dover. An illuminated cigar acts as a beacon. See Astragal's note.

binging, as it does, the noble with the practical. It makes you feel kinda crazy about culture.

POETS' CORNER

RENEWALS

Sing a song of Silkin,
A pocket full of towns,
Where youth and grace and gaiety
Banish frumps and frowns,
And Lord de Vere's new villa
Is much the same as Brown's.

Hurrah for all the children!
"A quarter mile to school,
Through greenery and gardens,
By pond and lake and pool,
To clean and classless classes,"
Is Silkin's golden rule.

On football, golf, and cricket,
Let thrive the overspill,
And with health's coin and currency
Pay off the slums' black bill,
While safely this time up their hill
Let clamber happy Jack and Jill.

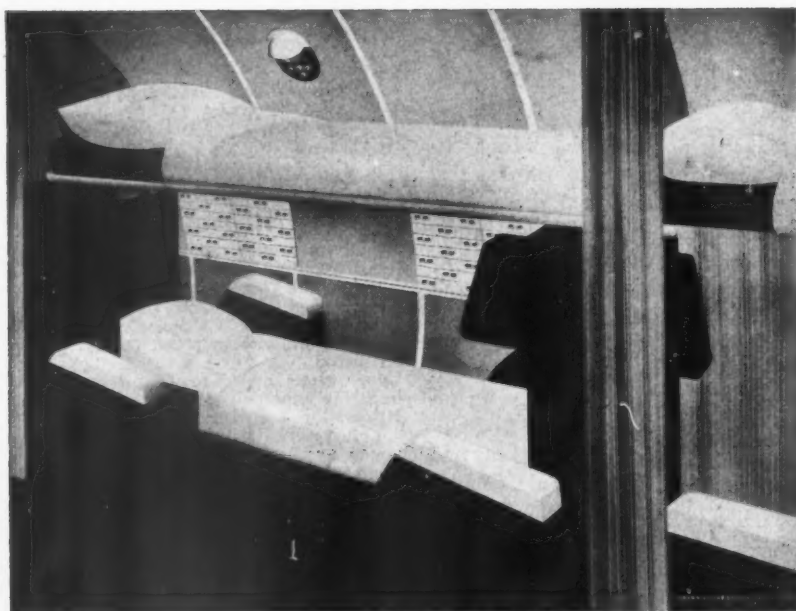
Let Mayors and Corporations
Get down to their brass tacks,
While, if the brass is missing,
Let someone find what lacks,
And if there's nothing doing,
Let's be on someone's tracks.

It conveys a feeling that Mr. Scott-Giles loves the roads of Britain, that for years he has jotted down in a little book the things various people have said about them and that now he has decided to share his treasures with everyone else who is likewise interested. Roman roads and pre-Roman roads, Macadam and Telford, Mr. Pepys losing his way, Mr. Evelyn involved in a road accident, the Encyclopædia Britannica, Charles Dickens and the Reverend S. Baring Gould, Charles Lamb and, of course, William Cobbett. They are all there, or pieces of them, and what they have to say leaves a feeling that, complain of course as we will, we suffer from pinpricks compared with the wounds our ancestors endured on their journeys.

Very probably, on another occasion, I should like to talk to Mr. Scott-Giles very seriously about the Southend Arterial Road and a rather dreadful new highway I remember near Stoke-on-Trent and I should like to show him the road from Rotterdam to Dordrecht—but not just now. He has been too persuasive and I can do no more than offer him thanks for his most pleasant and entertaining anthology.

ASTRAGAL

BOAC'S FIRST INTERIOR



The Avro Tudor II is the first of BOAC's aircraft interiors for the design of which the Corporation has itself been responsible. The designers were Richard Lonsdale-Hands and his associate, John Tandy. The colour scheme is blue, fawn and grey with relief in white. The main cabin is lined with fawn-coloured plastic Vyanide leather cloth, and carpeted in dark blue moquette, while the seats are upholstered in a blue ribbed wool material. The seating can be quickly converted into bunks which are supplemented by upper berths fitted into the roof of the fuselage when not in use. After conversion the passenger is left with space to undress and a seat on which to put his clothes. Curtains of fawn-coloured wool damask hanging from floor to ceiling give privacy. Top, the 37-ft. long main cabin. Below, one of the converted sleeping compartments at night. Left, the ladies' powder room.

town or city integrate into the appropriate Regional pattern, and, further, does that Regional Plan (if it exists) fit into place amongst the surrounding regional areas? And do these regional schemes, some in embryo, some not even commenced, unite together to form a composite whole—a National Plan? Can they possibly do so? You know the answers. And, it is not the fault of the Planners responsible for the local areas or the regions.

We seem to have started at the wrong end. It is quite obvious that certain matters must be decided at national level, and when, and only when, they have been decided on, can one proceed to the planning of the region, and thence to the detailing of the units—the town and the village.

You rightly point out the importance of Demography. Many of us have been shouting about it, unfortunately in our own backyards, for some little time. Thank you for your spot light—may it continue to illuminate such important, but often ignored, aspects of planning.

Belvedere

DONALD A. SHEARS

Registration

SIR,—May I remind your correspondents that registration is intended to ensure to the public that the term architect is applied only to those who, by passing an approved examination or by years of experience in practice as principals or assistants, can be considered to have reached a certain degree of competence. Further, to effect a much-needed improvement in standard, that after a given date (August, 1938), registration would only be obtained by examination.

I suggest that a person with only three or four years' experience pre-war is not competent enough to be designated architect; to do so would cause a lowering of standards. Neither is experience in engineering works controlling 300-400 men a good architectural qualification.

I would strongly deprecate any suggestion that building experience gained during the war should count towards registration. Such a step would be grossly unfair to those members of the profession who were engaged in more hazardous duties than were general in RE Works Services.

If we are to consider any relaxation of the rules for registration let it be the changing of the date for seven years' experience from August, 1938, to September 3, 1939, but not a day later.

Finally, I suggest that those persons considering themselves sufficiently qualified now for registration should find, after a few months' studies, the RIBA Special Final quite easy.

Ilford

R. A. THOMAS

Control of Cooking Ovens

SIR,—Although thermostatically controlled ovens are usually advertised as "Looking after the food while you go out and the dinner is ready when you come back," surely this amenity is seriously reduced in value because dishes take a certain fixed time to bake or roast (so the cook cannot stay away longer than that fixed time), and that lateness in returning means that the dinner is burnt.

For these reasons I feel that new ovens should be equipped not only with thermostatic control, but also with a time switch that can be set at, for instance "switch on 12.15, off 1 o'clock," in the same way that an alarm clock can be set at "ring at 7 o'clock." I cannot imagine that such an installation would cost much more than an ordinary alarm clock, and I believe this extra expense would be worth while. In gas cookers it would, of course, necessitate the installation of a pilot light.

PETER A. DANNENBAUM
Student of Industrial Design at
Twickenham Art School.



Baker's shop, Basle; fascia of black corrugated steel, with pinky-white painted metal framing, a grey marble plinth and white lettering. It is interesting to compare this example with the photographer's shop on page 11, where corrugated shuttering has been used for the rendered concrete fascia. In both cases very effective use is made of simple and cheap materials.

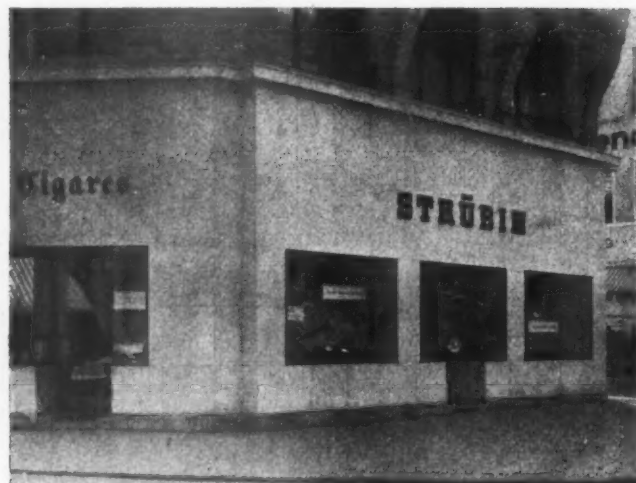
SWISS SHOPS

DESCRIBED AND PHOTOGRAPHED
BY BRYAN WESTWOOD

The great variety of goods displayed in the Swiss shops at present would in itself be quite sufficient to prejudice any Englishman in their favour, but to the layman and architect alike their appeal goes much further than that, and it is worth while to attempt to

analyse why these straight-forward homely shops are so effective. The shopping streets have none of the garishness one has come to take for granted in England. Advertisements there are in plenty, but they do not dominate the scene. The virtuosity one sees in

Paris is absent, but whether the shops have their frontage on a wide new street or are tumbled together under an arcade in the older part of a Swiss city, there is always a pleasant oneness about them. With few exceptions they take their place as units of street design.



Top, laundry at Paradiso, Lugano; plain granite surround in buff stucco wall with varnished deal front is all there is to it; but it strikes the passer-by because of its pleasant combination of colours and air of efficient cleanliness; a substantial shutter is incorporated in the design (see diagram on page 12). Centre, photo and optical shop, Basle; bronze lettering, cream marble and grey granite plinth. Bottom, bag shop at Zurich, typical example of a much favoured arrangement of central door and two windows combined to read as a single unit; in this case there are also separate windows at either side; the outer surround is of metal painted buff while the inner is of bright metal.

This effect is gained to a great extent by the widespread use of local materials such as Travertine and granite for the main surfaces in subtle shades of pink and grey. In the clean air of Switzerland these materials do not lose their natural sparkle as they would in large manufacturing cities, and the bright sunlight brings out the natural qualities of all varieties of stone to the very best advantage. I noticed several small shops where a simple varnished deal window frame is all there is to offset the plain stone, but the effect is pleasant in colour and far from being uninteresting. The metal work, generally white with a semi-matt finish, also goes well with the general background and is a particularly fine feature of Swiss work.

The goods displayed and the smaller elements of the shop façades such as lettering, ventilating grilles, blinds and shutters give plenty of colour so that, in spite of the comparatively neutral colour of the main surfaces, the general effect is one of brightness and gaiety. Presumably the synthetic materials do not compete so overwhelmingly in price as they do here.

With this fundamental similarity of materials there is no need to impose rigid standardization to achieve a fitting harmony to the street as a whole.

Another factor making for good design in shopping streets is the absence, so far as I could see, of the standardized multiple shop front making no concession to locality, which has done so much to wreck the individuality of English country towns.

The predominant characteristics of Swiss shops are their straightforward soundness of design, excellent finish and variety and ingenuity of display. The writer of a recent book on American shops admitted that he could find no example of the elemental shops like the butcher, baker and ironmonger worth including in his book, but he showed a great many examples of stunt luxury shops. The Swiss do not go in for stunts but on every hand there are interesting examples showing what can be done to make the shops that supply the simple everyday needs particularly attractive.

The butchers' shops, it is true, are more interesting than our own because they generally sell all kinds of cooked meats and sausages, as well as joints of meat,



Above, photographer's shop, Basle; buff rendered fascia with red lettering and coloured lead medallions; granite plinth and painted metal window frame. Below, a new ironmonger's shop in the old arcaded part of Lugano; satin metal surrounds lined with a black bead contrast well with the dark granite plinth; the shop is lit from a square at the back as well as from clerestory lighting over the windows; a detail of the window at night is shown on page 13.



but as a rule they have well-designed glass display cases along the counter similar to those in the Swedish co-operative shops and the rails, hooks and other metal fittings are of the highest finish and perfectly kept.

Again, it is noticeable that ironmongers' shops have good windows which are not overcrowded with articles. As much care is taken

with display as in any other trade. I noticed a good example in Zurich, for instance, where a wooden surface, apparently seared by a blowlamp, was a background for a simple display of wood-working tools. Such a background was thoroughly in keeping with the articles displayed and served to accentuate their excellent finish and fitness for purpose.

The neatness so evident in the exterior treatment is the rule in interiors also. The materials in common use for floors—tiles, wood-blocks or lino—are much the same as those in use here.

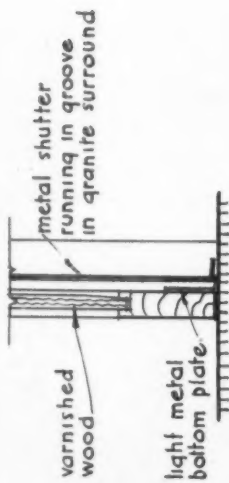
Similarly, I noticed nothing specially original in the way of wall finishes. What is noticeable is the excellent placing of shelving, counters and display fittings. Owing to their widespread use it is not usual to find the crowded

jumble so common in the humbler kinds of English shops. The design and finish of such things is a joy to behold.

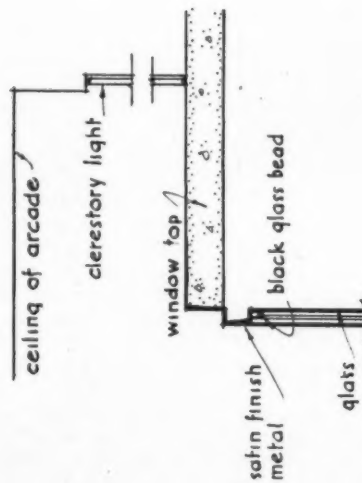
I was a little disappointed not to find more originality in lighting in a country so advanced in electrification, but no doubt this will not be allowed to lag behind the general high standard of other equipment.

In most countries the best shopping streets in large towns reach a high standard, but in Switzerland good design is not the prerogative only of the best, but reaches down to shops of the lowliest kinds. There, it is not the beauty parlour, flower shop, or model dress salon which has the monopoly of first-class design; this quality is no less obvious in the establishments of the butcher, the baker and the candle-stick maker.

SMALL LAUNDRY AT PARADISO, LUGANO

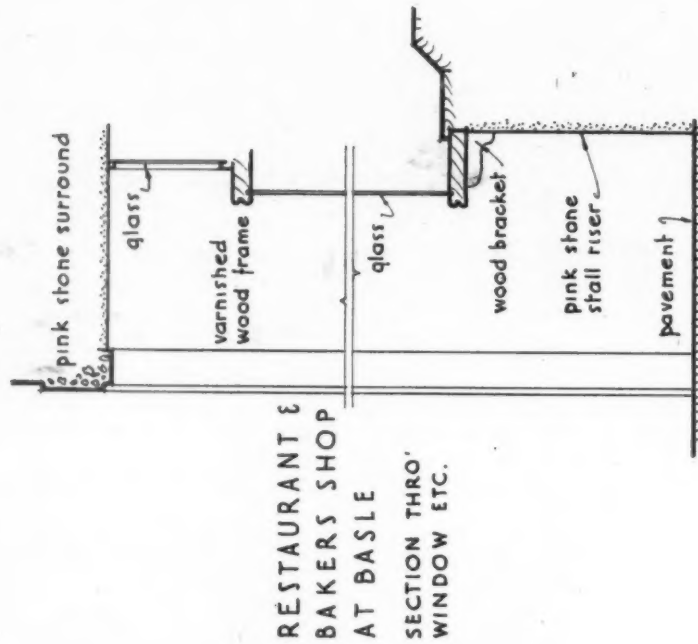


BASE OF STALL RISER.



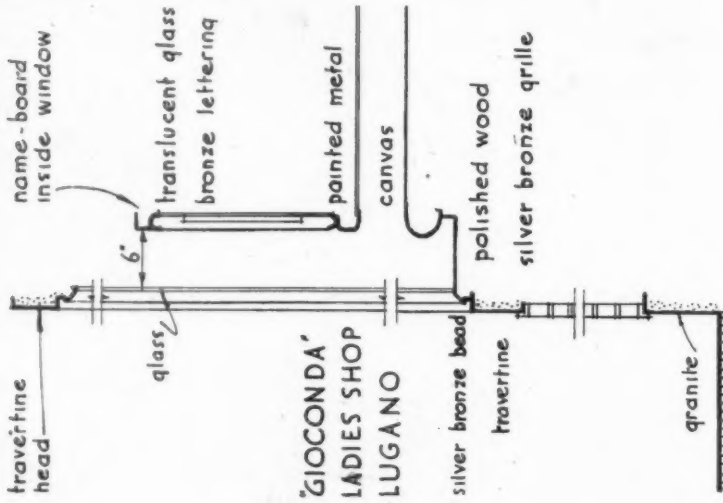
SECTION THRO' HEAD OF WINDOW

PESTALOZZI'S IRONMONGERS SHOP AT LUGANO ARCH. BOSSI.



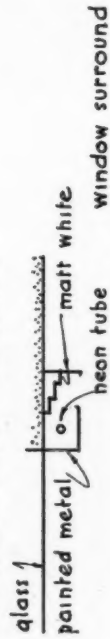
RESTAURANT &
BAKERS SHOP
AT BASLE

SECTION THRO'
WINDOW ETC.



'GIOCONDA'
LADIES SHOP
LUGANO

TOBACCONIST LUGANO

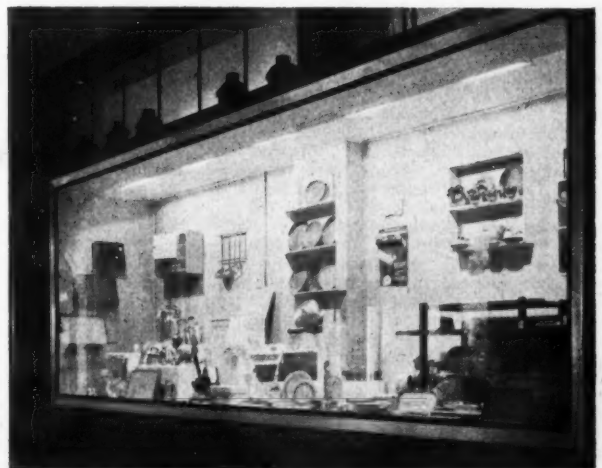


PLAN OF ILLUMINATED SURROUND

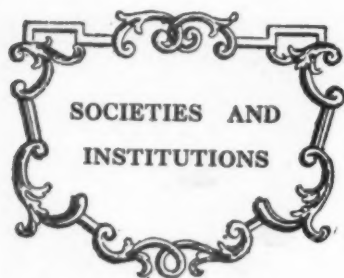




Above, butcher's shop, Basle; red and chromium lettering; grey and buff tiles to plinth; granite step and white opaque glass for upper part of façade. Left, restaurant and baker's shop, Basle; this design relies on subtle pinks and greys of stone and stucco for its restrained effect; window frame and surround to show-case in varnished deal; plinth of pink stone. Below, Pestalozzi's ironmonger's shop, Lugano; a detail of the shop under the arcade is shown in the small photograph on page 11; designed by architect Bossi, it is, with its neat steel shelving and good counters, the best hardware shop the writer has seen.



S W I S S S H O P S



Speeches and lectures delivered before societies as well as reports of their activities, are dealt with under this title, which includes trade associations, Government departments, Parliament and professional societies. To economize space the bodies concerned are represented by their initials, but a glossary of abbreviations will be found on the front cover. Except where inverted commas are used, the reports are summaries, and not verbatim.

BCURA

R. W. Foot

December, 1946. At the Dorchester Hotel, London. Meeting of the British Coal Utilization Research Association. PRESIDENTIAL ADDRESS by R. W. Foot.

R. W. Foot : I should like to give you a short account of some of the Association's work during the past three years, and to draw your attention to the importance of research to the industries which the Association represents.

You will, I am sure, all have heard of the work which has been done by Mr. J. S. Hales and his team on the domestic open fire. This work is aimed at the general improvement of domestic appliances and heating systems and has already resulted in the design of a solid fuel burning appliance which has an efficiency of nearly twice the conventional stool bottom grate, and at the same time burns continuously, using a wide range of fuels. In new houses it is possible to install this fire with provision for dustless ash removal at weekly intervals, and with a method of controlling air supply so that the rate of burning can be adjusted at will. One of the great advantages of this new fire is that it can be combined with arrangements for water heating and cooking, and thus form a heat source for most of the requirements of the home, including background heating of upstairs rooms. The fire is unique in that it can burn bituminous coal with very reduced smoke emission, a very important factor which has recently been stressed in the Report of the Simon Committee. This type of fire is now being manufactured by several of the leading appliance makers. I myself have one of these fires in my home in the country; it is quite true that it burns literally everything and is a first-class affair. Apart from the technical achievements of this work, I think it is an important example of the value of

co-operation in industrial research associations.

Another research programme in which the Association has been co-operating very closely with industry, is carried out by the Steam Engineering Department under the supervision of Dr. E. G. Ritchie. This Department deals with two quite separate problems; first, the firing of what are known as Shell type boilers, and second, studies directed toward the mitigation of deposit and corrosion problems in water-tube boilers. Very considerable quantities of coal are consumed each year in Shell type boilers, and it has been estimated that the tonnage of fuel so used is not less than 70 to 80 million tons per annum. In fact the Shell type boiler is so large a part of our national industrial life that its existence is often forgotten, and many years of research and development work which has been carried out by the manufacturers have made it such a trouble-free appliance that it will go on providing steam for many years. It is interesting to note that we have already been able to collect quantitative data to show that the use of too much secondary air in all these boilers may reduce the efficiency of the boiler by as much as 20 to 30 per cent., and that the overloading of boilers results in a reduction of efficiency and consequently a waste of fuel. In the course of this work we have also accumulated a great deal of valuable information on the effect of fuel size, ash content and heat transfer in boiler plant, and intend to investigate this more fully to see what recommendations can be put forward on the general design of these units.

The operation of solid fuel burning appliances working at high temperatures is always complicated by the impurities present in the fuel, and these, apart from attacking the refractories, have other effects which detract from the performance of the appliance. In the case of water-tube boilers a great deal of trouble and inconvenience is caused by the deposits which build up on the outside face of the tubes, and by the corrosive constituents in the gas stream which attack the metal parts of air heaters. Naturally a problem of this kind is of prime interest to the electricity generating industry, who are the largest users of water-tube boilers in the country, and for many years the Association, in co-operation with the Boiler Availability Committee and with the help and encouragement of the electricity generating authorities and the manufacturers of water-tube boilers, has been investigating the problem of deposits and corrosion in large water-tube boiler installations. A great deal of work has been done in the laboratory and in the field, and the physical and chemical mechanism which causes these two troubles is now fairly well understood. This means that the investigators have been able to find what causes the deposits, and also how the sulphuric acid which attacks the air heaters is formed. Naturally, having found the reason for these happenings, the next thing is to look about for a cure for them, and I regard it as extremely important that we have now been able to find a palliative. I cannot describe this discovery to you in detail, but it is a simple one, and we are at present trying it out on one of the large power stations near London.

Some of you will already have heard of the Down-jet Furnace, which arose from our fundamental work on gas producers carried out during the war years, and I am glad to say that after two years of concentrated development work we have now brought this furnace to the stage where it can be tried out in industry in various applications. I am not going to attempt to predict the results of these trials, or to go into any detail into the possible uses of the furnace. To give you but one example, we have at Leatherhead a small furnace and boiler which are together not larger than an ordinary filing cabinet, and which can produce 200 lbs. of steam an hour at a pressure of

200 lbs. per square inch. Combustion is absolutely smokeless, and the furnace can be started automatically from cold and give steam within a few minutes. The whole unit weighs about 6 cwt., and is self-contained; it can, if required, be mounted on a trolley and transported from place to place. The furnace will run for eight hours without any attention other than the requirements of the fuel hopper, and is immediately responsive to varying steam demands. So far as I am aware this is the first unit which has ever been designed to use solid fuel and give all the advantages which are available here.

Another activity of the Development Division is concerned with a programme of research and development into gas producers. This is being carried out in conjunction with the British Iron and Steel Research Association, who have approached us asking if we would undertake this work on their behalf.

Perhaps you may wonder where all this work is leading, and what is the ultimate objective of the Association. I can only repeat that the whole of the Association's work is ultimately directed towards improvements in efficiency in the use of fuel, whether it be in the domestic grate, the Lancashire boiler, the steel furnace or the electricity generating station, or indeed any of the thousand and one other places where coal is used. I think we have already made some progress in this aim, and have, for instance, shown that the efficiency of the ordinary domestic fire can be doubled by quite simple and practical means. We believe, for instance, that the work at present in hand in connection with the Shell-type boilers can eventually result in a saving of about 10 million tons of coal a year, and this indeed is the objective of the programme.

RFAC

Roosevelt Memorial

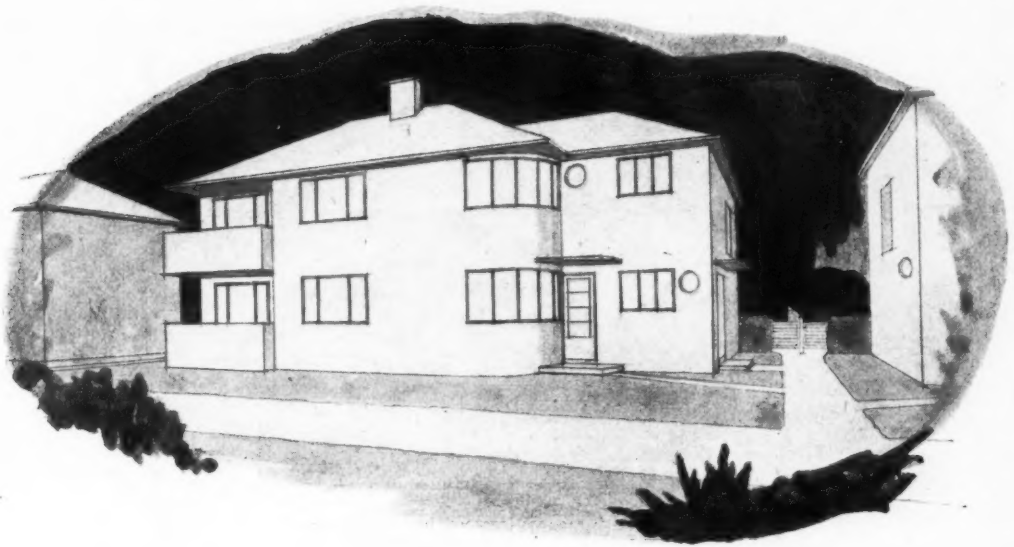
The opinion of the Royal Fine Art Commission on the proposed Roosevelt Memorial has been published. Below is a statement by the chairman of the Commission.

The design for the statue and its setting as first presented to the commission showed a standing figure in a cleared space in Grosvenor Square. The commission, on being informed by the memorial committee that the site had been determined and that the sculptor had asked to portray a standing figure, limited their observations to those arising from the design itself, the relation of the statue to its setting, and the layout of the square.

The commissioners were shown a small plaster cast of the figure by the sculptor; and they discussed the pedestal, the base, the exact location of the statue, and the treatment of the square with the committee's architect and the representative of the Ministry of Works. They also visited the square accompanied by the architect and the Ministry of Works representative.

After full consideration they recommended certain revisions, including the retention of more trees, an alteration in layout, and an amended design for the pedestal. At this stage, in order not to delay the appeal, the commissioners gave general approval to the scheme, as subsequently illustrated in the souvenir books published by the committee, and stated that in their opinion the plaster cast would be a suitable model for the eventual figure in bronze.

At a further meeting with the committee's architect and the Ministry of Works representative, the amended layout was accepted as appropriate, subject to further modifications in the design of the paths and basins. The pedestal has still to be finally approved, and discussions with the committee's architect on this point are proceeding.

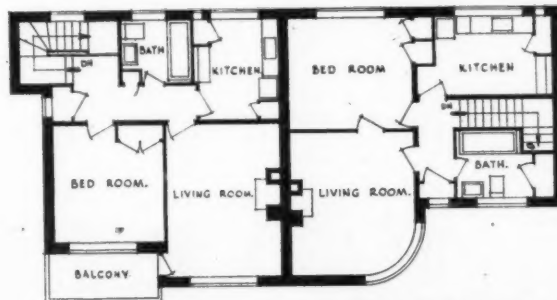


HOUSES

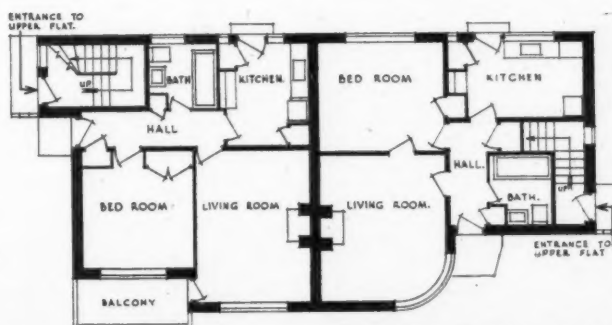
AT BILSTON, NOTTS.

DESIGNED BY ELLA B. BRIGGS

A number of large housing estates are being planned by the Bilston Corporation. On the sites land will be reserved for community buildings, day nurseries, schools, clinics and libraries, and the houses will be surrounded by parks and built around communal greens. Groups of communal greens are to have club buildings of their own. Most of the houses are to be built on reinforced concrete rafts on abandoned pit sites, the ground having been consolidated with bulldozers. Two of the proposals are illustrated here: one, part of a scheme of seventy-two houses; the other, a small house containing four flatlets for aged people. The houses, part of the scheme of seventy-two, will be built round a communal green. They will be of various types grouped in different ways. The plans shown are of a two-bedroom type and a three-bedroom type forming a block of four houses. A passageway in the middle of the block, closed by a lattice door gives access to the back gardens of the middle houses.



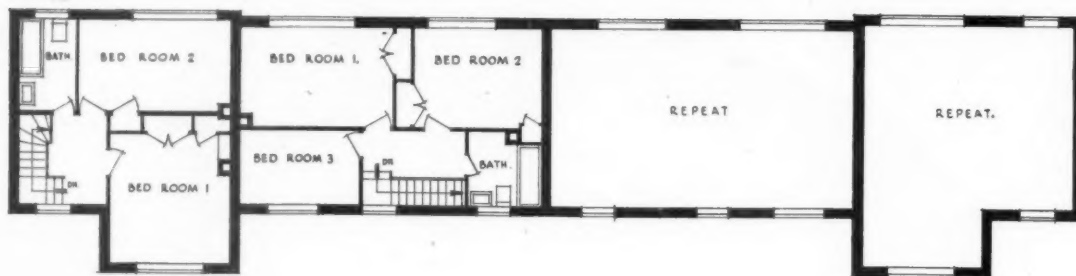
FIRST FLOOR PLAN



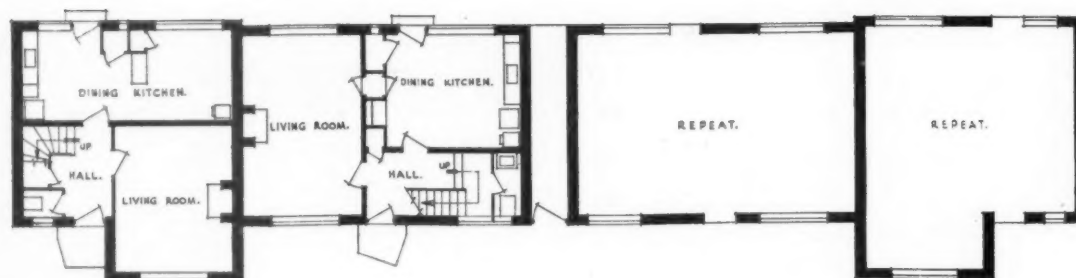
GROUND FLOOR PLAN

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

Four Flats for the Aged. Top, perspective of exterior. Left, the plans.



FIRST FLOOR PLAN.



GROUND FLOOR PLAN.

Scale $\frac{1}{8}'' = 1'0''$

The two-bedroom type has a dining-cum-working kitchen, the dining and working parts being separated by built-in cupboards and a low dresser, accessible from both sides. Some of the other house types have living room, dining kitchen and utility room, others a working kitchen and a dining recess off the living room. In the small house the four flatlets for aged people are planned with cross ventilation and each flat has

its own house door. Hot water is from an Ideal Neofire boiler in the fireplace of the living room. Fuel is stored in containers inside the flat, near the entrance door. The houses will have cavity walls with facing bricks or cement rendering and roofs of low pitch to save timber covered by hand-made sand-faced pantiles. The houses are for letting only, not for sale. It is hoped that building on the first group will start in a few weeks.

HOUSES AT BILSTON

A Group of Four Houses. Top, plans. Bottom, perspective sketch.



This newly arranged Technical Section will now draw together in a comprehensive whole all the technical material in the Journal. It will cover Information Centre, Questions and Answers, Current Technique, The Industry, Prices, special technical articles and so on, and will, from time to time, contain editorial notes on technical trends and developments. This week we discuss future plans for Information Centre.

TECHNICAL SECTION

The Architects' Journal

THE REVISED INFORMATION CENTRE

This, the first issue of 1947, introduces a new development in the presentation of Information Centre, for in future the items will be classified and all Information Centre material will be printed on one side of the page only. This is being done to assist readers by making it possible, for those who wish, to cut out items as published, and paste them up in classified form so that reference to the Centre may be made more easily during the current year.

The wide field covered by the Centre, and the irregular length of the items, together with the breadth of subject covered at times by one item, makes detailed multi-clue or decimal classification impracticable, and it has been decided to subdivide the field covered into 28 sections each of which will be given a reference number. Every future Information Centre item will be included in one or other of these sections and the item itself will carry a serial number indicating its place in that section. Thus the classification symbol for every item will consist of two numbers, e.g. 26.192, the first denoting the section, and the second the serial number of the item.

Every section has been given a brief title which will serve to indicate the subject covered, and each item will carry a detailed heading.

Since the sections' titles printed each week must necessarily be brief, an explanation of the subjects they cover is printed on the next page.

It is suggested that the best method of collecting the items would be to cut and paste them up, as issued, on loose leaves held in ring or springback binders, or folders.

At the end of each year, or, if practicable, at shorter intervals, a cross referenced alphabetical subject index will be published by means of which reference to any

specific subject covered may be made. This alphabetical index will be carried on from year to year, so that future indexes issued will cover all items since this number of the *A.J.* In addition, a Classification of the Year's Summaries will be published as in the past.

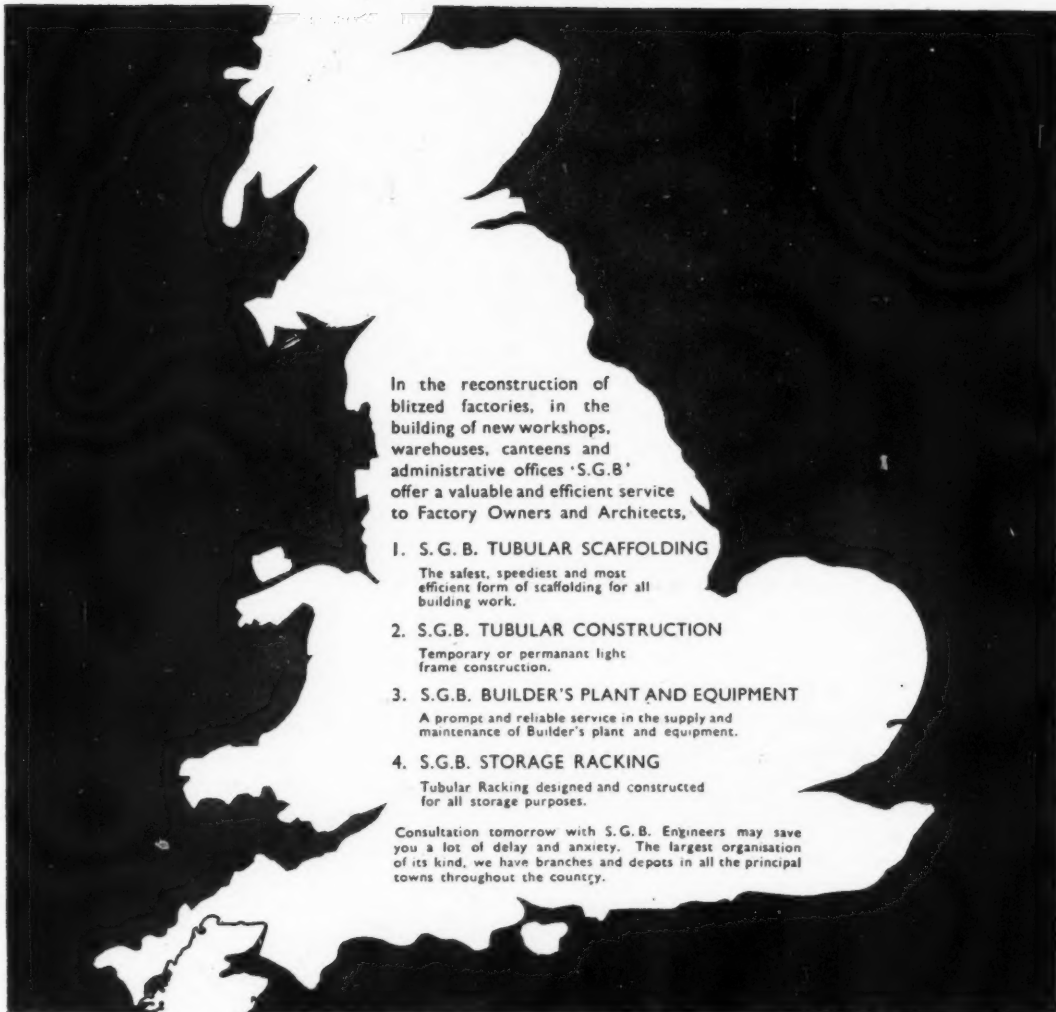
In future, to avoid the index becoming unwieldy over a period of years, indexes will in all probability be related to a 5 or 10 year cycle.

The *Architects' Journal* will at any time be happy to assist readers in any problems arising out of the collection and classification of Information Centre items, or answer enquiries relating to the source of items or provide information as to where copies of publications or periodicals may be seen or obtained.

The classification headings which have been selected are printed below in bold type, followed by some indication of the subjects covered by these necessarily brief titles.

CLASSIFICATION FOR INFORMATION CENTRE

- | | |
|--|--|
| <p>1 SOCIOLOGY
Human needs, family structure, population statistics, social relationships</p> <p>2 PLANNING : GENERAL
History and evolution, legislation, administration survey technique, comprehensive publications . . .</p> <p>3 PLANNING : REGIONAL & NATIONAL
Re-planning and new planning, surveys, planning schemes</p> <p>4 PLANNING : URBAN & RURAL
Re-planning and new planning, surveys, planning schemes, site planning, zoning</p> <p>5 PLANNING : PUBLIC UTILITIES
Transport, power, water supply, main drainage, retail and other distributive services</p> <p>6 PLANNING : SOCIAL & RECREATIONAL
Health, education and other community services, recreation, preservation of amenities</p> <p>7 PRACTICE
Professional practice, office management and organization, model making, draughtsmanship</p> <p>8 SURVEYING & SPECIFICATION
Land surveying, quantity surveying, estimating costs, specification notes</p> <p>9 DESIGN : GENERAL
Architectural design generally, design data, comprehensive publications</p> <p>10 DESIGN : BUILDING TYPES
Administrative, industrial, domestic, commercial . . .</p> <p>11 MATERIALS : GENERAL
Comprehensive publications, comparative data, legislation (This section includes products)</p> <p>12 MATERIALS : METAL
(Including products)</p> <p>13 MATERIALS : TIMBER
(Including products)</p> <p>14 MATERIALS : CONCRETE
(Including products and allied products)</p> | <p>15 MATERIALS : APPLIED FINISHES & TREATMENTS
Paints, stains, plasters and renderings</p> <p>16 MATERIALS : MISCELLANEOUS
Glass, bitumen, plastics, fibreboards, plaster, stone . .</p> <p>17 CONSTRUCTION : GENERAL
Comprehensive publications, general data, legislation</p> <p>18 CONSTRUCTION : THEORY
Statics, principles of design, general design data . . .</p> <p>19 CONSTRUCTION : DETAILS
Foundations, floors, walls, roofs</p> <p>20 CONSTRUCTION : COMPLETE STRUCTURES
Buildings, bridges, reservoirs</p> <p>21 CONSTRUCTION : MISCELLANEOUS
Demolition, shoring and underpinning, contractors' work</p> <p>22 SOUND INSULATION & ACOUSTICS
Physiological data, general design</p> <p>23 HEATING & VENTILATION
Physiological data, services, fittings and equipment . .</p> <p>24 LIGHTING
Physiological data, natural and artificial, fittings and equipment</p> <p>25 WATER SUPPLY & SANITATION
Fittings and equipment, plumbing and water heating, drainage, minor sewage disposal, hygiene</p> <p>26 SERVICES & EQUIPMENT : MISCELLANEOUS
Cooking, lifts, escalators, telephones</p> <p>27 FURNITURE & FITTINGS
Furniture, soft furnishings and fittings such as bolts, curtain rails</p> <p>28 MISCELLANEOUS
Aesthetics, sculpture, painting and allied arts</p> |
|--|--|



In the reconstruction of blitzed factories, in the building of new workshops, warehouses, canteens and administrative offices 'S.G.B.' offer a valuable and efficient service to Factory Owners and Architects,

1. S.G.B. TUBULAR SCAFFOLDING

The safest, speediest and most efficient form of scaffolding for all building work.

2. S.G.B. TUBULAR CONSTRUCTION

Temporary or permanent light frame construction.

3. S.G.B. BUILDER'S PLANT AND EQUIPMENT

A prompt and reliable service in the supply and maintenance of Builder's plant and equipment.

4. S.G.B. STORAGE RACKING

Tubular Racking designed and constructed for all storage purposes.

Consultation tomorrow with S.G.B. Engineers may save you a lot of delay and anxiety. The largest organisation of its kind, we have branches and depots in all the principal towns throughout the country.



S.G.B.

SCAFFOLDING (GREAT BRITAIN) LIMITED

Registered Office & Works:
PLOUGH LANE
LONDON S.W.17
Telephone: WIMBLEDON 6201/5

Factory:
SAUNDERTON, BUCKINGHAMSHIRE
Tel: PRINCES RISBORO 480/4

BRANCHES AT:— ABERDEEN • BRIGHTON • BIRMINGHAM • BRISTOL • CARDIFF • DUNDEE
EDINBURGH • EXETER • GLASGOW • HIGH WYCOMBE • HULL • LEEDS • LIVERPOOL • LONDON
MANCHESTER • NOTTINGHAM • NEWCASTLE • PLYMOUTH • PORTSMOUTH • SOUTHAMPTON

"English Electric"

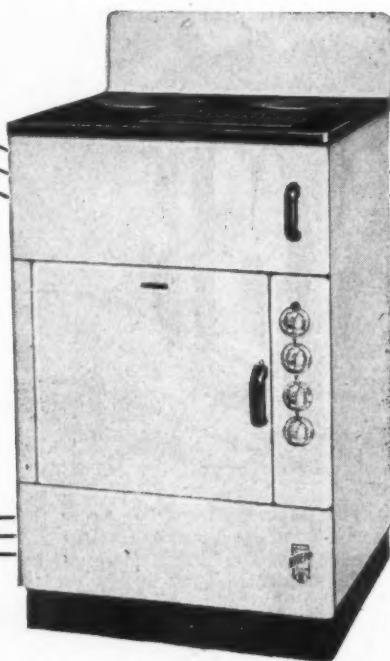
Domestic Appliances

UPON the architect and builder there frequently devolves the responsibility of specifying electrical household equipment . . . indeed, in many instances it is essential that the correct choice be made before kitchen planning can start.

Three things are vital . . . the equipment must be of a design able to "fit in" with other apparatus — that it has a pleasing appearance and lasting finish — and that it is completely reliable.

"English Electric" domestic electrical appliances embody all these features in design and operation.

It is in your interest to discuss your problems with an "English Electric" Development Engineer.



**The ENGLISH
ELECTRIC Co. Ltd**

Domestic Appliances Dept.
Queen's House, Kingsway
W.C.2

The function of this feature is to supply a digest of, and commentary on, current information of interest to architects as recorded in technical publications and statements of every kind throughout the world. Items are prepared by specialists of the highest authority who are not on the permanent staff of the Journal, and views expressed are disinterested and objective. The Editors welcome information on all developments from any source.

INFORMATION CENTRE

3.1 planning: regional and national

SUFFOLK PLANNING SURVEY

Suffolk Planning Survey. (ARCHITECTS' JOURNAL, *Planner's Scrapbook*, October 10, 1946, p. 264.)

Short review of recently published *Suffolk Planning Survey*. T. B. OXENBURY. (W. S. Cowell, Ltd., 1946. 12s. 6d.)

Survey prepared as necessary preliminary to area planning schemes and as companion to *Interim Report* (see A.J., April 25, 1946). Suffolk's physical planning background presented in form of coloured maps accompanied by short descriptions explaining relation of information to work of replanning. Following aspects covered: geology (solid and drift); contour; catchment areas and drainage; climate; population (distribution and trend); agriculture (arable and grassland, and livestock); industry (rural and urban); road traffic; rail communications and sea ports; public services; education (school attendance); recreation centres; and topography.

8.1 surveying and specifications

SPECIFICATIONS AND QUANTITIES FOR ENGINEERS

A Manual of Specifications and Quantities for Civil Engineers. A. JOHNSON, M.Sc. (Eng.), A.M.INST.C.E., and W. H. KING, B.Sc. (Eng.), B.A. (Admin.), A.M.INST.C.E. (English Universities Press, Ltd. 25s. 0d.)

Deals with civil engineering contracts, specifications and quantities. Written primarily for university students and candidates preparing for the examinations of the *Institution of Civil Engineers*, the *Institution of Sanitary Engineers*, and the *Institution of Municipal and County Engineers*. Covers contracts, relationship of employer with engineer and contractor, specifications, methods of measurement, abstracting and billing. Numerous illustrations.

There are already many reference books upon the *RIBA Form of Building Contract* and upon quantities for building contracts, as prepared by chartered quantity surveyors, but

students of civil engineering are not so well supplied and the appearance of this book should be welcomed.

The opening chapters are upon contractual relationships, and the contracts between the employer and the engineer and contractor respectively. The clauses are explained and the *Form of Contract of the Association of Consulting Engineers* is given in detail. As Mr. Johnson is a Barrister-at-Law it is not surprising to find that this section of the book is not only an excellent guide for students but also a valuable reference book on contractual liabilities and procedure.

The next five chapters are devoted to specifications. Full descriptions are given of the qualities of workmanship and materials that should be insisted upon by an engineer and the reader's attention is directed to other clauses that may or may not be required, according to the nature of the job. Reference is made to BSS where they exist and a full list of applicable BS Specifications is given at the end of each trade.

Bills of quantities are dealt with next. Procedure and the methods of measurement are fully explained and reference is made to the mathematical problems frequently encountered by engineers, such as the use of the prismoidal formula.

Further chapters deal with abstracting and billing and there is a useful appendix. The book is well illustrated and separate detail drawings are attached in a folder so that the student can have these in front of him when studying.

This is a first class book which will undoubtedly be of great value to the type of student for whom it is written. It should also be useful as a reference book and should help architects, surveyors and builders to understand the engineer's particular problems and methods of procedure.

13.1 materials: timber

TIMBER PRESERVATION

Timber Preservation. TDA RED BOOKLET SERIES. (Timber Development Association. Free.

Concise information on theory and practice of wood preservation. Causes of deterioration in timber. Principles of preservation. Classification of types of preservative. Preparation of timber for treatment. Methods of Application. Properties and uses of treated timber. Appendices covering permeability of timbers to preservatives, and names of proprietary preservatives. Bibliography. Illustrated. A valuable guide.

This publication discusses in a straightforward manner the necessity for treating timber, the properties of various types of preservative and the advantages and disadvantages of different methods of application.

Items which are of particular help to architects include:—

1. *Causes of Deterioration.* A distinction is made between fungal decay (dry rot) and insect attack which can be arrested by preservatives, and weathering which is not normally checked by fungicidal and insecticidal preservatives.
2. *Conditions favourable to decay.* Special reference to dampness, the effect of cracks in treated timber, the action of paint as opposed to a true preservative.
3. *The requirements of preservatives.* Methods of testing them and classification of the three main categories.
 - (1) Tar Oil.
 - (2) Water solvent.
 - (3) Organic solvent.

Characteristics of each of these main categories are listed, and fairly detailed notes of the properties and uses of particular kinds of preservative within each category are given.

4. *Methods of Application.* Descriptions of non-pressure methods, including brushing

and spraying, dipping, steeping, open tank (hot and cold bath), butt tank, diffusion processes and treatment of standing trees: pressure processes, including the *Full Cell* and *Empty Cell*, *Rueping* and *Lowry* processes, together with a number of other special methods including the *Boulton* process for treating unseasoned timber. The information gives a guide as to the suitability of each treatment for various symptoms.

5. *The significance of sap stain and its prevention.* The relative harmlessness of sap stain is mentioned, but methods are suggested for avoiding its appearance.
6. *Factors affecting the penetration of preservatives.* Density, direction of grain, etc.: also properties of timber once it has been treated, including the question of painting.
7. *Appendices 1 and 2.* Notes on the permeability of timber to preservatives, together with a classification of timbers in order of their permeability. Some proprietary preservatives listed in the three main categories given above.
8. *Short bibliography.*

The publication of concise information on this subject is timely in view of the widespread damage which has occurred in bombed buildings as a result of dry rot. Stringent treatment is required to arrest further spread of decay. In addition, the necessity for suitable treatment of timber in contact with solid ground-floor construction cannot be too much emphasized.

The booklet, while not claiming to be exhaustive, gives reliable guidance as to when and how to treat timber.

It should be noted that the *recognition* of different types of decay is not discussed in this booklet, since the subject is covered in another booklet in the same series: *Timber Pests—their Origin, Prevention and Cure*.

15.1 materials: applied finishes and treatments

CALCIUM SULPHATE PLASTERING

Calcium Sulphate Plastering. B.S. Code of Practice. General Series Code 2.23 *Draft for Comment.* 2nd proof. (British Standard Institution, 1946. 2s.)

Calcium sulphate plasters for internal plastering. Use in backing and finishing coats, including finishing coats on cement or cement-lime backings. Quality of materials. Combination of backing and finishing coats. Number of coats required. Types of finish. Corrosive effect on metals. Detailed recommendations as to methods of application, etc., for various backgrounds. Classification of proprietary plasters. Reference to Codes 2.2, *Internal Plastering*, and 2.21, *Preparation of Surfaces to Receive Plaster*, necessary. Valuable information not readily available elsewhere.

This Code gives much needed information on the types of calcium sulphate plaster (referred to, in accordance with B.S. 1191, as gypsum and anhydride building plasters) now available; including information on their characteristics and behaviour when used by themselves and when gauged with lime. It is probably not sufficiently recognized that with the plasters now on the market exact specifications are necessary to ensure that a proper choice of plaster is made to suit particular conditions, and that the technique of application and subsequent decoration is appropriate. Manufacturers' recommendations if carefully followed, may be relied upon for the particular product to which they refer, but the architect and builder should have, in addition, a more general knowledge of the complexities of plasters and plastering in order to satisfy himself that suitable materials are chosen and that the plasterer is using them in the correct manner. Read in conjunction with Codes 2.2 and 2.21 mentioned above, this code may be recommended as a valuable introduction to



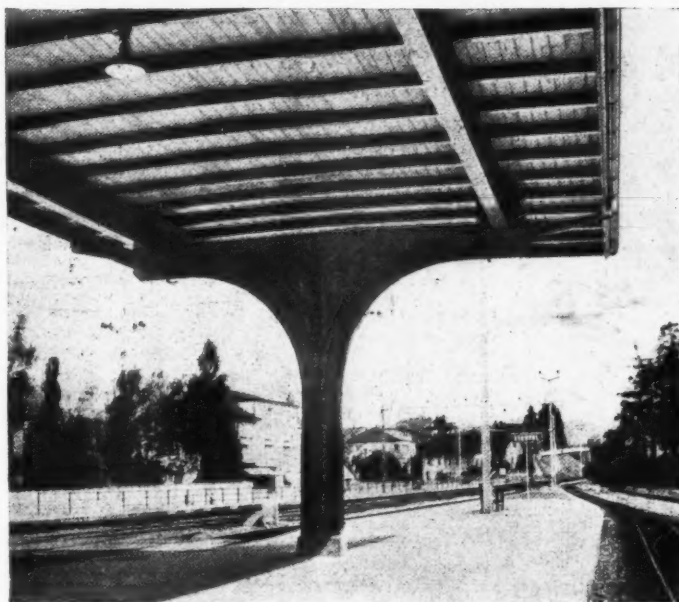
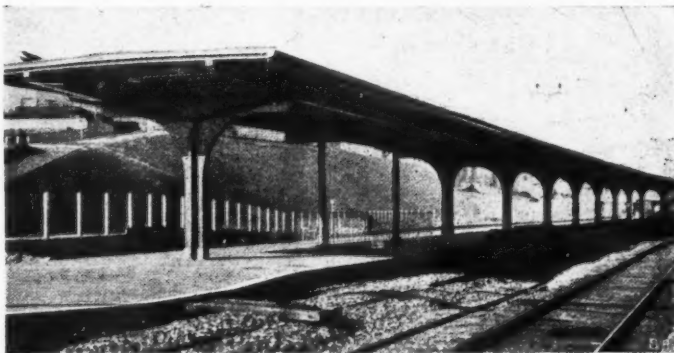
Bath

**CABINET MAKERS
AND ARTCRAFT LTD**

CONTRACTORS FOR MODERN INTERIORS
FURNISHINGS FOR SHIPS, HOTELS, PUBLIC BUILDINGS, OFFICES

LOWER BRISTOL ROAD, BATH • LONDON SHOWROOMS • 1, GRAFTON ST. W.1.

Two views of
Swiss laminated
timber roofs.
See 19-2.



calcium sulphate plastering. It is concise enough to serve as a useful reference and has, in addition, a classified list of proprietary plasters. It is unfortunate that so much cross reference with the other codes mentioned is necessary.

19.1 construction: details

RAT-TRAP-BOND WALLS

Rat-Trap-Bond Brickwork. SIDNEY J. HUNT. (*The National House Builder and Building Digest*, November, 1946, pp. 21.27.)

An officially recommended method of economizing in bricks.

The author claims substantial economy of bricks, mortar, labour, transport and building time by the use of *rat-trap-bond*. This type of bond is not new, but economy in the use of bricks has hitherto been discouraged by ample supply and low cost. *Rat-trap-bond* is effected by laying the bricks on edge, and consists of two stretchers laid approximately 3 in. apart (thereby creating a cavity) with a header bonded between each pair of stretchers. Each alternate course is staggered to provide a bonding header both below and above each pair of stretchers. The effect is a wall having a continuous cavity from top to bottom, but unlike the 11 in. cavity wall, the headers bridge the cavity.

The article contains constructional details, data on savings as against orthodox bond and suggestions for estimating materials required and labour cost.

Calculations based on post-war designs show the saving in bricks as between 15 and 20 per cent.

According to a report by the Director of Building Research, BRS, there is no reason to doubt that a brick on edge wall with through headers would be sufficiently strong for the usual type of two-storey house. It is considered that from the point of view of moisture penetration the wall will be intermediate in value between a 9 in. solid brick wall and a properly constructed 11 in. cavity wall built of the same bricks. It appears probable that the same applies to thermal insulation. Regarding resistance to air-borne sound, a 9-in. *rat-trap-bond* wall may be slightly inferior to a 9-in. solid brick wall.

It should be borne in mind that measured on the standards recently established for house construction, even an 11 in. external cavity wall, without additional thermal insulation, is inadequate and so is the 9 in. solid brick wall as party wall from the point of view of sound insulation. Apart from the question of sound proofing, a *rat-trap-bond* wall as a party wall would not comply with the Model Building Bye-laws. A further disadvantage of *rat-trap-bond* is its appearance, which is perhaps not so pleasing as the orthodox English or Flemish bonds. It would therefore be necessary to render or rough-cast external walls built in *rat-trap-bond*. In view of these facts it seems to be doubtful whether the recommendation is really justified.

19.2 construction: details

LAMINATED TIMBER ROOFS

Neuzeitliche Holzkonstruktionen bei den Schweizerischen Bundesbahnen. (*Modern Tim-*

ber Structures of the Swiss Federal Railways.) O. WICHSER. (*Schweizerische Bauzeitung*, Nos. 2 to 4, January, 1946.)

Description of roofs to platforms and bridges over a double track railway in glued laminated timber erected in 1942 to 1944.

The shortage of steel in Switzerland during the war necessitated the use of glued laminated timber in structures which under normal conditions would have been built in steel or reinforced concrete. Elaborate tests have proved the reliability of the proposed form of construction for the bents, provided that the material is carefully selected and the manufacture properly supervised. Two arrangements of roofs over platforms were investigated, one with ridge and drainage to both edges and one with an inward slope of the roof and gutter along the centre line. The first arrangement requires two purlins, the second four. It was found that the first arrangement was cheaper and also preferable regarding the rigidity of the purlins in view of the large spacings between the bents (up to 42 ft.).

The article contains details of construction and information on quantities and cost. Three road bridges in glued laminated timber are also described. Experience so far has shown results to be satisfactory.

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

QUESTIONS AND ANSWERS

2878 BOARD ROOM FURNITURE

Q We have recently been requested by a firm of manufacturers, for whom we have prepared designs for a new Board Room, to obtain suitable furniture, i.e., Board Table and Chairs to match the proposed bookshelves, etc., which will line the walls.

We believe that under the existing furniture control it is not possible for makers to execute furniture to architects' designs; we should be glad if you would confirm the position in this respect.

A Under certain circumstances a Licence is granted by the Board of Trade for manufacturers to execute furniture to Architect's designs.

The circumstances under which a Licence would be granted might be where a firm had lost its furniture during the blitz, or due to the expansion of a firm as a result of post-war work, etc.

To obtain this Licence it is necessary to place an order for the furniture required either direct to a manufacturer or to a retail shop, and they make the application to the Board of Trade stating why such furniture is necessary. Such applications should be made to:—

The Board of Trade, Furniture Section,
Neville House, S.W.1.

It will be appreciated that any Licence granted under these circumstances will only provide a minimum amount of timber from which the furniture can be made.

MANY ARCHITECTS WHO ARE NOW RETURNING

to practice from their wartime jobs are anxious to obtain the latest information regarding a number of building products and services. We print the form below in response to a number of requests . . . it will save you time and trouble.

All you have to do is to fill in the names of the manufacturers in whose products you are interested and post the form to "The Architects' Journal"—we will do the rest.

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

.....

Please ask the manufacturers to send further particulars to:—

NAME

ADDRESS

.....

A.J. 2.1.47

Announcements

Messrs. Llewellyn Smith & Waters (A. Llewellyn Smith, M.B.E., F.R.I.B.A. and A. B. Waters, M.B.E., G.M., F.R.I.B.A.) have removed from 17, Bedford Square, W.C.1, to 103, Old Brompton Road, South Kensington, S.W.7. (Tel.: Kensington 8641 and 6428), where they will be pleased to receive trade catalogues, etc.

Mr. P. M. Barnes, of The Villas, London Road, Stoke-on-Trent, has been appointed to the Colonial Service as an Architect in the Public Works Department, Malaya. Born at Sheffield, he studied at Sheffield University, was elected an ARIBA in 1935, and has held architectural appointments with the London, Midland and Scottish Railway, the Admiralty, and at Stoke-on-Trent.

Mr. G. P. Laidlaw, O.B.E., M.A., B.Sc., of Paisley, has been appointed Chairman of the Scottish Housing Advisory Committee by the Secretary of State for Scotland, and Councillor T. Paterson of Ayr has been appointed Vice-Chairman. Mr. Laidlaw was formerly Vice-Chairman of the Committee, and succeeds Dr. James Welsh, who was formerly Lord Provost of Glasgow. Mr. Laidlaw was Chairman of the Sub-Committee on the Distribution of New Houses in Scotland, and the Report of this Sub-Committee was published in 1944. Mr. Paterson was Chairman of the Sub-Committee, whose Report on Housing Management in Scotland was published a few weeks ago. Mr. Charles Brownlie, Scottish Regional Secretary of the National Federation of Building Trades Operatives, has been appointed to fill a vacancy on the Committee.

Mr. P. B. Nash, A.R.I.B.A., has been released from the Services and would be glad to receive trade catalogues, information sheets, and other data, at 10, Cedar Mount, Huddersfield.

Caxton Floors, Ltd., have moved to new offices at 45, Bedford Row, London, W.C.1. Telephones: Chancery 7322-3-4-5.

We have received from Messrs. Robert Jenkins & Co., Ltd., of Rotherham, a copy of their first post-war catalogue. The declaration of war found the works fully engaged in making chemical plant of many kinds (mild steel: lead-lined, metal-sprayed, rubber-lined, etc.); petrol and oil storage tanks up to 12,500 gallons capacity; galvanized tanks and cylinders and general welded engineering work, domestic boilers, etc. As the war progressed, the type of work varied to meet urgent National requirements, and the passing years saw:—Bailey-Bridge sections, balloon barrage winding drums, rocket-firing turrets; plant for ordnance factories; vessels for flame-throwers; drums for depth-charges; prefabricated sections of tug-boats and tankers, submarine rudders, hydroplanes and compensating tanks. Special charge-cases for midget submarines and numerous other welded fabricated parts required for making war. The VE. and VJ. days brought an end of war requirements, and the works have now smoothly changed over to peace-time products. A large portion of the orders call for all classes of vessels required for food processing requiring the highest degree of workmanship and finish. To meet the heavy demand for stainless steel, a special shop is now being erected to allow the company to give the best possible service. The catalogue illustrates the wide scope and general variety of work produced in the factory.

The Architectural Forum of America, once again available to readers in this country, has returned to its pre-war size and format. Annual subscriptions can now be accepted at 50s. per annum prepaid, through Messrs. Stobart and Son, Ltd., 9, Victoria Street, London, S.W.1.



This door stows in a horizontal position and is a one-piece construction either wood panels and glass or all metal. There are no floor tracks to clog with dirt and it is wind and weather-proof. Back bumpers can be within $\frac{1}{2}$ " of the door and yet the door will clear any car body. "Weltilt" doors are balanced to a nicety and only require finger-light effort to open and close. Send for latest catalogue showing Weltilt doors suitable for single openings up to 80 square feet.



WELTILT

WELROLL
WELRUN
WELWAY

Overhead (folding) doors
Track brackets and hangers
Sideways sliding doors

WELSLIDE
FLEXIFOLD
WELWARD

Sideways Multileaf doors
Interior concertina fold doors
Fireproof doors

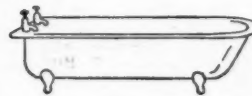
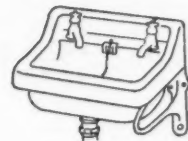
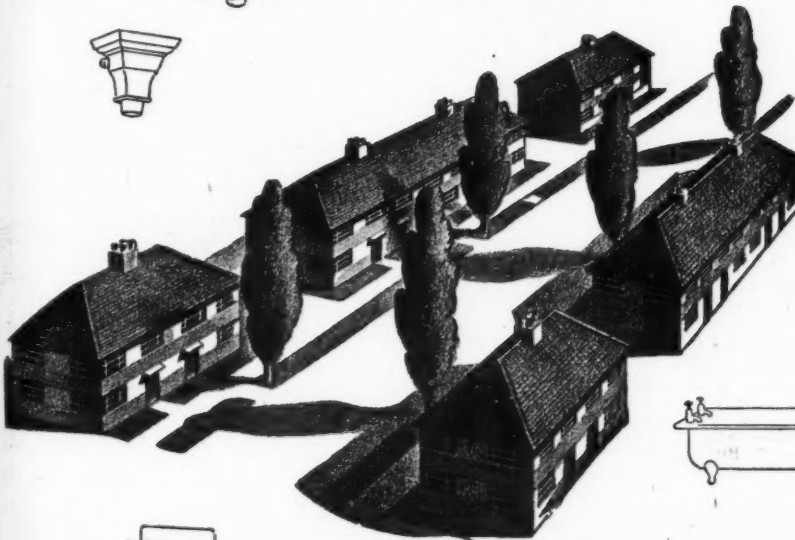
OTHER  PRODUCTS

WESTLAND ENGINEERS LIMITED · YEOVIL · ENGLAND

MODERN HOUSES MUST HAVE



CAST IRON



QUALITIES

Cast iron is everywhere accepted as the right and reliable material for down-pipes, gutters, stoves, fireplaces and many other parts, structural and accessory, which go into the building of the modern house. Few other materials have established themselves with such certainty. Cast iron has been a building proposition for 150 years — it is a better proposition than ever to-day.

Issued by the British Ironfounders' Association, 145 ST. VINCENT STREET, GLASGOW, C.2

FACTS ABOUT THE BUILDING USES OF CAST IRON

The British Cast Iron Research Association has a Building Uses Department which is available for dealing with enquiries from architects and builders about cast iron.

Mr. Derek L. Bridgwater, F.R.I.B.A., is Consultant to the Department.

Enquiries should be addressed to THE BUILDING USES DEPARTMENT,
BRITISH CAST IRON RESEARCH ASSOCIATION, ALVECHURCH, BIRMINGHAM



"IN MY TIME"

quoth

King Merodach-nadin-akhi

Before Babylon tottered to a fall, there laboured men who knew so much about building that even to-day evidence of their work can be seen in excavations dating back over 2,000 years! In their dampcourses, for instance, the builders of Babylon used bitumens which through all the centuries have retained their original structure and are, indeed, virtually indestructible.

To-day in Britain, more and more Architects and Builders are wisely specifying Astos—a scientific compound of bitumen and asbestos. Impervious to damp, Astos is easy to transport, quick and easy to lay and thus reduces construction costs.

ASTOS

100% MINERAL DAMPCOURSE

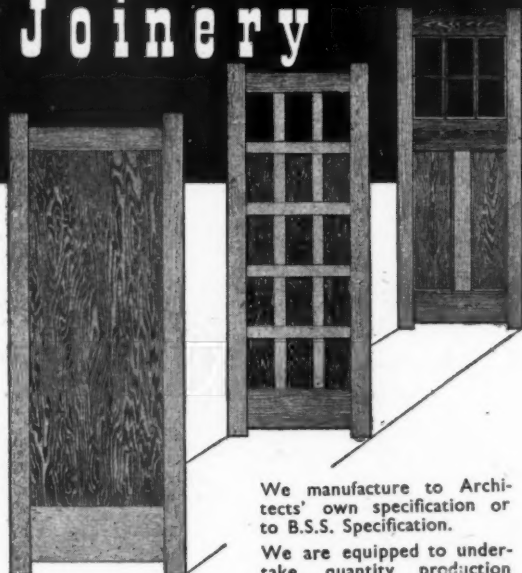
THE RUBEROID CO. LTD.,

2, Commonwealth House, New Oxford St., London, W.C.1

Supplied in rolls of 24 lineal feet and in all wall widths up to 36 inches. Supplies are subject to Ministry of Works regulations for material exceeding 15 inches in width.

More than conforms with the requirements of British Standard Specification No. 743/1941.

Manufactured Joinery



We manufacture to Architects' own specification or to B.S.S. Specification.

We are equipped to undertake quantity production joinery contracts for the Building and Woodworking Trades.



Certification Trade Mark

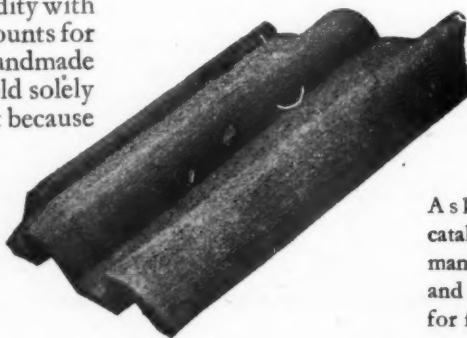


CHESHIRE WOODCRAFT LIMITED.
PEEL STREET SAWMILLS · MACCLESFIELD

"REYNARDO"

The Roof Tile that will not blow off

Its distinctive shape, plus the rapidity with which it can be fixed securely accounts for the popularity of the Reynardo Handmade Roof Tile. Millions have been sold solely on 'merit'. One advantage is that because of the efficacy of the interlock and the fact that each tile is held on three sides, it cannot be dislodged by wind. A 'quality' tile, but not expensive.



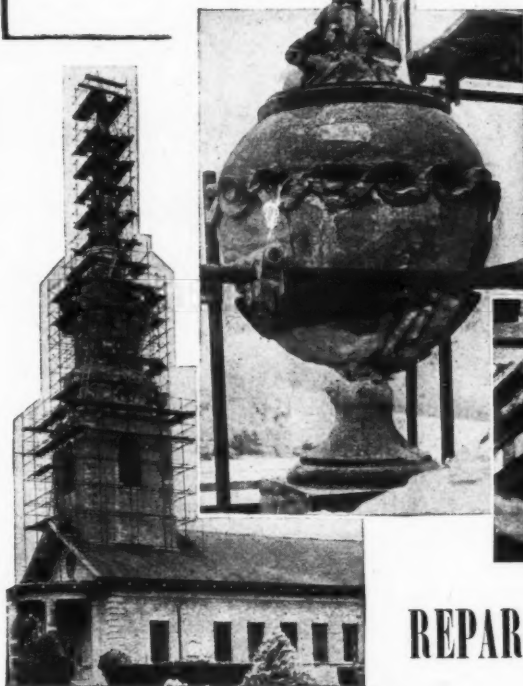
REYNARDO
ROOF TILE

Ask for illustrated catalogue showing the many patterns we make and giving useful data for fixing.

COLTHURST · SYMONS & Co. Ltd.

Patent Tile Works · Bridgwater · Somerset

Putting Back the Past



... Restoration under difficult conditions at Mereworth

The hand of time had indeed touched the unique Mereworth Church in Kent, as the typical examples of erosion in the photographs show. But not beyond repair. Such difficult restoration work is not new to this Company, "Reparations" are proud of their record in this highly specialised field.

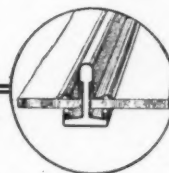


Enquiries will receive immediate attention. Please write.

REPARATIONS & STEAM BRUSH CO. LTD.

129-131 GREAT SUFFOLK STREET, S.E.1. TELEPHONE: HOP 2615
Scientific R.S.2

Made with care



It takes quite a deal of care to place a steel bar inside a flawless lead skin. First the lead coat, previously extruded, is drawn over the steel core, it then passes through the dies shown that gently squeeze the lead and steel together to form a glove-like fit.

Helliwell craftsmen, long skilled in the art, take a pride in this work that is pleasant to see and is one reason why you can always rely on Helliwell Patent Glazing.

Write for Information Sheet giving details of Helliwell Patent Glazing systems.

specified with confidence
HELLIWELL
patent glazing

HELLIWELL & CO. LTD., Brighouse, Yorkshire and 68 Victoria Street, London, S.W.1
Birmingham - Bristol - Manchester - Sheffield - Hull - Glasgow - Aberdeen - Dublin

G.3

AIR CONDITIONING'S

First Name -

Carrier

Stainless Steel METAL WORK

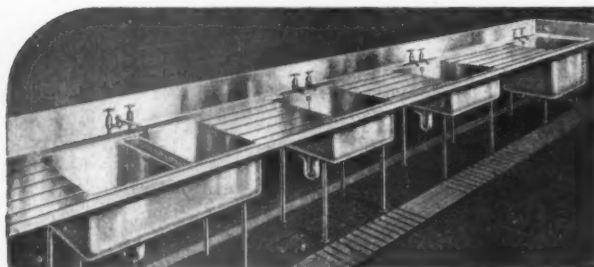


Illustration shows a range of Stainless Steel Sinks installed in a famous club

We are Specialists in

STAINLESS STEEL METAL WORK

FOR

Institute, Hospital, Hotel, Ship and Domestic Use

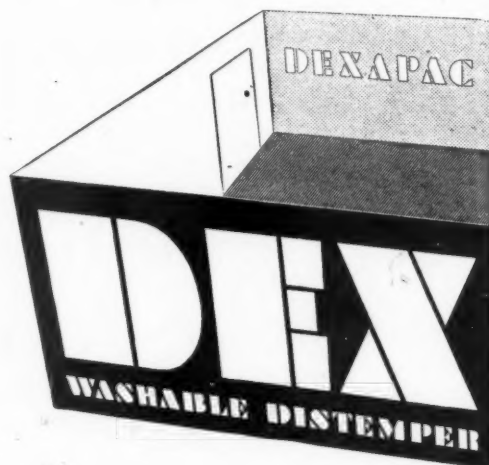
**STAINLESS STEEL SINKS, SINK UNITS,
SINK RANGES, TABLE TOPS, SHELVINGS,
TANKS, PIPING, ETC.**

Can be made to suit special requirements

Write for Catalogue to

Associated Metal Works

(GLASGOW) LTD.
30 ST. ANDREW'S SQUARE, GLASGOW, C.I.



Owing to the shortage of suitable raw materials, we find that we are unable to meet the enormous demands for our "DEXAPAC" oil bound water paint without reducing the quality. We have, therefore, introduced our "DEX" Washable Distemper for interior use made by the same patented process. This is a first class product, suitable for houses and public buildings, but does not require such a high proportion of the raw materials that are in short supply.

ALLIED PAINTS & CHEMICALS LTD., TYSELEY, BIRMINGHAM

- NON SLIP "QUARTZITE" FLOOR TILES
- NON SLIP "CORNOLITH" PAVING
- CAST STONE FACINGS
- "CORNOLITH" COLUMNS
- "CORNOLITH" GLAZED PANELLING FOR WASH ROOMS & KITCHENS
- "TERRAZZO" COUNTER TOPS

... PRODUCTS OF

We are in a position to accept limited orders for our products and can assure our clients that the high standard of quality which we have maintained in the past will be adhered to in the future.

Johnston Brothers
(CONTRACTORS) LTD.

CORNOLITH—THERE IS NO SUBSTITUTE.

JOHNSTON BROTHERS (CONTRACTORS) LTD., DAWLEY, SALOP. LONDON: MINORIE, E.C.3

VERSIL glass silk

VERSIL glass silk provides efficient thermal insulation in a multitude of ways, indoors or outdoors, high or low temperatures, in boiler houses, factories, public halls, flats or office blocks. Its efficiency is uncommonly high and it is widely used for boilers, piping and structural insulations.



Versil rigid sections for hot or cold piping: made with elbows, bends and tees to match. They are fitted easily with metal clip bands and normally last the lifetime of the pipe. Full information from VERSIL LTD., RAYNER MILLS, LIVERSEDGE, YORKS.



all-purpose INSULATION

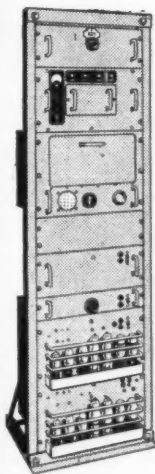
CFW

xliii



GRAND HOTEL, BRIGHTON

... equipped with
A.T.M. Sound Distribution and
Amplifying Equipment



Utilised for Government purposes during the war, the Grand Hotel, Brighton, re-opens its doors to its normal peace-time clientele who find the previously existing amenities extended to include an A.T.M. Sound Distribution System for paging and staff locating and the relaying of speeches, original and recorded music, radio broadcast programmes, etc. The facilities provided are radio, with a choice of up to six pre-set programmes, gramophone, playing eight twelve-inch or ten-inch mixed records and three independent microphone circuits electrically interlocked according to priority.

A.T.M. Sound Distribution Systems are available on rental terms including full periodic maintenance. No capital outlay is involved. Write or phone the nearest branch for all details.

AUTOMATIC TELEPHONE & ELECTRIC CO. LTD.

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

TEmple Bar 4506

Main Branches: Glasgow, Manchester, Birmingham, Leeds, Sheffield & Bristol

STROWGER WORKS  LIVERPOOL, 7



ATTO73-AVI

FOR YOUR POST-WAR RECONSTRUCTION

FREDERICK RESTALL L^{TD}.
GT. HAMPTON STREET
BIRMINGHAM, 18.

★ FLUSH DOORS OF ALL TYPES WILL AGAIN BE
OUR SPECIALITY AS PRE-WAR.

TEL. : NORTHERN 2252

SELF-ADHESIVE TAPE

ENQUIRIES
INVITED

Protects the edges of baths,
basins and other prefabricated
house components in transit
from factory to job. Easily
removable. No deposit left
on delicate surfaces.



SAMUEL JONES & CO. LTD

16-17 NEW BRIDGE STREET, E.C.4. PHONE: CENTRAL 6500



CLASSIFIED ADVERTISEMENTS

Advertisements should be addressed to the Advt. Manager, "The Architects' Journal." War Address: 45 The Avenue, Cheam, Surrey, and should reach there by first post on Friday morning for inclusion in the following Thursday's paper.

Replies to Box Numbers should be addressed care of "The Architects' Journal." War Address: 45 The Avenue, Cheam, Surrey.

Public and Official Announcements

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

THE INCORPORATED ASSOCIATION OF ARCHITECTS AND SURVEYORS maintains a register of qualified architects and surveyors (including assistants) requiring posts, and invites applications from public authorities and private practitioners having staff vacancies. ADDRESS: 75, Eaton Place, London, S.W.1. TEL. SLOANE 5615. 991

LONDON COUNTY COUNCIL.

Applications are invited for the following positions:—

(1) QUANTITY SURVEYORS AND ASSISTANTS (SENIOR AND JUNIOR). Required for:

(a) "Taking-off" quantities, measuring, and adjusting variations under building contracts and preparing estimates.

(b) Preparing estimates and measuring repairs and minor works under schedule of prices (experience of London County Council, War Department or Office of Works Schedules).

(c) Working up, etc., in connection with domestic buildings and general working up (Junior).

(d) Measurement of roads and sewers and housing work on cottage estates, preparation of interim and final bills on Schedules.

(2) ARCHITECTS, BUILDING SURVEYORS, TECHNICAL ASSISTANTS (ARCHITECTURAL), AND JUNIOR DRAWING OFFICE ASSISTANTS. Required for:

(a) Work in connection with the design and development of housing schemes for cottage estates and block dwellings (experience in domestic architecture preferred).

(b) Similar work in connection with schools and hospitals.

(c) The preparation of estimates and specifications for works of cleaning and painting, repairs and minor alterations at schools and hospitals.

(d) Assistants to district surveyors. A knowledge of the London Building Acts and by-laws is necessary for these positions.

(e) Junior drawing office assistants for general drawing office work. Should be able to finish plans from rough drawings, take dimensions and make sketches. Pay, according to age and experience, up to 65s. a week, plus cost-of-living addition.

(3) HEATING ENGINEERS AND HEATING AND VENTILATING ASSISTANTS. Good technical education required. Applicants must be experienced in the design of, and preparation of drawings, specifications and estimates for modern hot water heating, ventilating and hot water supply schemes.

Except as otherwise shown, salaries for the above positions will be determined by qualifications and experience up to a maximum of £420 a year, together with cost-of-living additions up to £90 a year, according to basic salary. Salary up to £500 for certain positions of heating engineer and building surveyor. Successful candidates will be engaged on a temporary basis, but will be eligible for appointment, according to merits, for permanent appointment on the occurrence of vacancies. Temporary staff are required to contribute to the Council's Superannuation and Provident Fund.

Ex-Service candidates with experience prior to their war service will be specially considered.

Application forms may be obtained from the Clerk of the Council, County Hall, Westminster Bridge, London, S.E.1, enclosing stamped addressed foolscap envelope.

Canvassing disqualifies. 947

LONDON COUNTY COUNCIL.

CLERKS OF WORKS.

Applications are invited for positions of Clerks of Works (Class II), in the Architect's Department, to supervise constructional, maintenance, and repair works at the Council's schools, hospitals, and other buildings. There may also be shortly a few Class I positions. Rates of pay (according to qualifications and experience) are: Class I, £360-£400 a year (basic), plus cost-of-living addition, at present £75-£90 a year; Class II, up to 135s. a week, plus cost-of-living addition, at present, of 30s. a week.

Successful candidates, under 55 years of age, will be subject to the Council's Superannuation and Provident Fund, but will be temporary in the first instance.

Other things being equal, preference will be given to persons registered under the Disabled Persons' (Employment) Act, 1944, and ex-Service men will also receive special consideration.

Applications (enclosing stamped addressed envelope) to be made to the Architect to the Council, County Hall, Westminster Bridge, S.E.1, for form of application.

Canvassing disqualifies. 955

CITY AND COUNTY OF THE CITY OF EXETER.

APPOINTMENT OF ASSISTANT QUANTITY SURVEYORS.

Applications are invited for the appointment of Assistant Quantity Surveyors, on the permanent staff of the City Architect's Department.

Candidates must be suitably qualified, and experienced in all classes of quantity surveying work, and should be able to undertake all stages of the work for the preparation of bills of quantities, preliminary estimates, the preparation and settlement of final accounts, site measurements, and the preparation of interim and final certificates.

The salary will be in accordance with Grade V of the A.P.T. Scale of Salaries, i.e., £460 per annum, rising by two annual increments of £15 and one of £20 to a maximum of £510.

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

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

Applications, stating age, qualifications, previous and present appointments, with salaries, and full details of experience, and date when available, together with copies of three recent testimonials, should be sent to H. B. Rowe, A.R.I.B.A., A.M.I.Struct.E., City Architect, 2, Southernhay West, Exeter, not later than 12 noon on the 10th January, 1947.

C. J. NEWMAN,

Town Clerk.

Exeter.

11th December, 1946.

595

LONDON COUNTY COUNCIL.

VACANCIES FOR PLANNING STAFF IN THE ARCHITECT'S DEPARTMENT FOR WORK ON THE COUNTY OF LONDON PLAN.

Applications are invited for a number of positions in the following grades:—

PLANNING OFFICER (Grade III). Up to £500 a year (basic).

TECHNICAL ASSISTANT. Up to £420 a year (basic).

Commencing rate of pay will be according to qualifications and experience. Cost-of-living addition, at present £78 to £90 a year (men), and £63 to £84 (women), are payable in addition.

There will be opportunities for competing, on merit, in due course for permanent appointment and for positions in the higher grades on the occurrence of vacancies. Successful candidates will be subject to the Council's Superannuation and Provident Fund.

The planning work involved includes assistance in the detailed development of Reconstruction Area schemes, and the preparation of revised zoning plans.

A knowledge of current town planning legislation is desirable in all cases, and candidates for Grade III positions should possess architectural or surveying or town planning qualifications.

Other things being equal, preference will be given to candidates registered under the Disabled Persons' (Employment) Act, 1944, and ex-Service men and women will also receive special consideration.

Application should be made to the Architect to the Council, County Hall, Westminster Bridge, S.E.1, for form of application (enclosing stamped addressed envelope), returnable not later than ten days from this date.

Canvassing disqualifies. 983

COUNTY BOROUGH OF GREAT YARMOUTH.

BOROUGH ENGINEER'S DEPARTMENT. APPOINTMENT OF GENERAL ARCHITECTURAL ASSISTANT.

Applications are invited for the appointment, in the Borough Engineer's Department, of one General Architectural Assistant (permanent), at a salary in accordance with A.P.T. Grade III, of the National Conditions of Service, commencing at £390 per annum, rising to £435 per annum, plus cost-of-living bonus, at present £59 16s.

Applicants should be Associates of the Royal Institute of British Architects, and must have had experience in design and construction, particularly in relation to housing, schools, and public buildings.

Applications stating age, qualifications, and experience, together with copies of three recent testimonials, should be enclosed in an envelope endorsed "General Architectural Assistant," and must reach the undersigned not later than noon on Friday, the 17th January, 1947.

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

Canvassing, directly or indirectly, will be deemed a disqualification, and candidates must disclose in writing whether, to their knowledge, they are related to any member or holder of any senior office under the Council. Candidates who fail to do so will be disqualified, and if appointed will be liable to dismissal without notice.

FARRA CONWAY,

Town Clerk.

Town Hall, Great Yarmouth.

639

LONDON COUNTY COUNCIL.

Required at Brixton School of Building, Ferndale Road, S.W.4, to commence as soon as possible, full-time STUDIO MASTER IN ARCHITECTURAL DESIGN, in the Senior School. The appointment will be temporary in the first instance, but may later be made permanent. Applicants must be members of the Royal Institute of British Architects, and should possess the Degree or Diploma of a recognized school of architecture, and have interest and ability in architectural design and draughtsmanship. Members of the staff are normally afforded reasonable opportunities for practice and research. Burnham Scale salary, £300×£15 to £525 (male), plus London allowance (minimum £36) a year, and additions for training and qualifications as applicable. Commencing salary according to teaching and industrial experience. Other things being equal, preference will be given to registered disabled persons. Application forms from the Principal at the School (stamped addressed foolscap envelope necessary). H.M. Forces personnel abroad should apply by letter. 596

COUNTY BOROUGH OF EAST HAM. APPOINTMENT OF JUNIOR ESTIMATOR—BOROUGH ENGINEER'S DEPARTMENT.

Applications are invited from qualified persons for the temporary appointment of Junior Estimator, in the Borough Engineer and Surveyor's Department.

Candidates must be competent to take off quantities and prepare estimates in respect of housing and other types of building work. The salary will be in accordance with Grade IV of the National Salary Scales, viz., £420 by £15 to £465 per annum, plus London allowance (£20 p.a.) and war bonus (at present £59 16s. p.a.).

The appointment will be subject to the provisions of the Local Government Superannuation Act, 1937, and to the Council's conditions of service for temporary official staff in force from time to time.

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

Applications, on the form provided, must be delivered to the Town Clerk, together with copies of three recent testimonials, not later than Friday, the 17th January, 1947.

Canvassing in any form will disqualify.

(Signed) H. A. EDWARDS,

Town Clerk.

Town Hall, East Ham, E.6.

27th December, 1946.

592

BUCKS COUNTY COUNCIL.

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

(1) THREE ASSISTANT QUANTITY SURVEYORS.

Two, qualified as Members of the Royal Institute of Chartered Surveyors, and who are fully experienced quantity surveyors, at a salary on the National Scale for Grade VII and VIII, £575-£700, plus bonus (now £51 19s.), and

One, capable of preparing bills of quantities and specifications for minor works, and an experienced "worker up," capable of abstracting and billing dimensions in all trades, at a salary on the National Scale for Grades IV and V, £420-£510, plus bonus as before.

The commencing salary in each case will be in accordance with qualifications and experience.

(2) ONE ASSISTANT ARCHITECT, male or female, fully qualified, and preferably having particular knowledge in the design and/or construction of schools, police, or public health works. Salary on National Scale for Grade VI, £535-£600, plus bonus as above (now £48 5s. for females).

(3) ONE ARCHITECTURAL ASSISTANT, male or female, recently qualified or having general experience in school, police, or public health works. Salary on the National Scale for Grade III, £390-£435, plus bonus as above.

(4) TWO JUNIOR ARCHITECTURAL DRAUGHTSMEN, male or female, for general drawing office work. Previous architectural experience not essential. Salary on the National Scale for general division, £265-£300 (males), £52-£240 (females), plus bonus, according to age and sex.

The appointments are permanent and subject to:—

(a) The National Scheme of Conditions of Service.

(b) The Local Government Superannuation Act.

(c) The successful candidate passing a medical examination.

Details of these appointments and forms of application may be obtained from F. A. C. Maunders, R.S., Dip.Arch., F.R.I.B.A., A.M.T.P.I., County Architect, County Offices, Aylesbury, to whom application must be delivered not later than Monday, 27th January, 1947. 629

AUCKLAND UNIVERSITY COLLEGE, NEW ZEALAND.

Applications are invited for appointment to the CHAIR OF DESIGN, in the School of Architecture. Salary £1,200 per annum (N.Z.). The successful candidate will be expected to take up his duties in May, 1947, or as soon thereafter as possible. Appointment is for five years in the first instance. Further particulars may be obtained from the Secretary, Universities Bureau of the British Empire, 24, Gordon Square, London, W.C.1. Closing date for receipt of applications is 28th February, 1947. 624

**CITY OF PORTSMOUTH.
CITY PLANNING OFFICER'S DEPARTMENT.**
Applications are invited for the following appointments, in the Department of the City Planning Officer:—

(a) SENIOR PLANNING ASSISTANT (I) Grade VIII.

Applicants should be Members of the Royal Institute of British Architects, Royal Institution of Chartered Surveyors or Institute of Civil Engineers and/or of the Town Planning Institute, and be thoroughly conversant with modern planning technique and experienced in the preparation and administration of statutory planning and urban improvement schemes.

The salary is Grade VIII of the National Scale of Salaries, viz., £525-£700 per annum.

(b) PLANNING ASSISTANTS (2), Grade V; (4) Grade III.

Applicants must have a knowledge of the practice and technique of planning under the current legislation, and be competent draughtsmen. The salary, in the case of two of the posts, is Grade V of the National Scale of Salaries, namely, £460-£510 per annum, and in the case of the remaining four posts the salary is Grade III of the National Scale, namely £390-£435 per annum. Preference will be given to holders of appropriate professional qualifications.

The appointments will, in every case, be subject to the provisions of the Local Government Superannuation Act, 1937, and the successful applicants will be required to pass a medical examination. All appointments are subject to the National Scheme of Conditions of Service. All salaries are supplemented by cost-of-living bonus at the present time. Applications, stating age, qualifications, experience, together with the names of three responsible persons to whom reference may be made, must be delivered to the undersigned, clearly marked "City Planning Appointment," not later than the 20th January, 1947.

Canvassing will disqualify.

V. BLANCHARD,
Town Clerk.

City Council Chambers, 1, Clarence Parade, Southsea.
17th December, 1946. 636

**METROPOLITAN BOROUGH OF
HAMMERSMITH.
APPOINTMENT OF ARCHITECTURAL
ASSISTANT.**

Applications are invited for the appointment of ARCHITECTURAL ASSISTANT (Grade "H"), in the Borough Engineer and Surveyor's Department; commencing salary £450 per annum, rising by annual increments of £20 to £550 per annum, plus bonus (at present £1 3s. per week).

Candidates should have had experience in the preparation of designs, working and detailed drawings for public buildings and Municipal Housing Schemes and flats. Preference will be given to candidates who are qualified Architects. The appointment is a permanent one, and the successful candidate will be required to pass a medical examination and to contribute to the Council's Superannuation Scheme.

Forms of application which may be obtained from the undersigned, must be returned not later than two weeks from the publication of this advertisement.

W. H. WARHURST,
Town Clerk.

Town Hall, Hammersmith, W.6. 637

HORNCHURCH URBAN DISTRICT COUNCIL.
Applications are invited for the following appointments:—

(a) One Grade II TOWN PLANNING ASSISTANT.

Applicants should preferably have passed the Interim Examination of the Town Planning Institute, possess a good knowledge of planning practice, be able to make surveys, and be good map draughtsmen and colourists. Salary: Grade II, A.P.T. Division, National Scheme (£360 to £405 per annum), plus cost-of-living bonus (£59 16s. per annum).

(b) One Grade I TOWN PLANNING ASSISTANT.

Applicants should possess a good knowledge of planning practice, be able to make surveys, and be good map draughtsmen and colourists. Salary: Grade I, A.P.T. Division, National Scheme (£330 to £375 per annum), plus cost-of-living bonus (£59 16s. per annum).

(c) One JUNIOR ARCHITECTURAL ASSISTANT.

Applicants should have some knowledge and experience of work in an Architect's department or office, and have had preliminary training in the preparation of plans and tracings, etc. Salary: General Division, National Scheme (£65 to £300 per annum), plus cost-of-living bonus (according to age).

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

Applications, stating age, qualifications and experience, and accompanied by copies of three recent testimonials, must be delivered to the undersigned in envelopes appropriately endorsed, not later than Monday, 20th January, 1947.

Canvassing, directly or indirectly, will disqualify.

P. L. COX,
Clerk of the Council.

Council Offices, Billet Lane, Hornchurch. 626

**COUNTY BOROUGH OF BURNLEY.
BOROUGH ENGINEER AND SURVEYOR'S
DEPARTMENT.**

Applications are invited for the following positions:—

(1) SENIOR ARCHITECTURAL ASSISTANT (Grade V), £460-510, plus bonus, at present £59 16s. per annum. Applicants should have had experience in the design of educational buildings, and preference will be given to Associates of the Royal Institution of British Architects.

(2) ARCHITECTURAL ASSISTANT (Grade IV), £420-£465, plus bonus, at present £59 16s. per annum. Applicants should preferably have had experience in either housing or educational works. Previous service with a Local Authority would be regarded as an advantage, and preference will be given to Members of the Royal Institution of British Architects.

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

Forms of application may be obtained from the Borough Engineer and Surveyor, Town Hall, Burnley, to whom applications should be returned in the envelope provided, not later than noon on Wednesday, the 8th January, 1947.

C. V. THORNLEY,
Town Clerk.

Town Hall, Burnley.
14th December, 1946. 619

COUNTY BOROUGH OF BIRKENHEAD.

Applications are invited for the following appointments from candidates having the necessary qualifications and experience. Members of H.M. Forces will be eligible to apply.

(a) SENIOR TOWN PLANNING ASSISTANT. Salary to commence at £460 per annum, rising to £510 per annum, in accordance with Grade V of the National Scale of Salaries, plus bonus, at present £59 16s. per annum.

Applicants must have had considerable experience in Town Planning Schemes, and dealing with Interim Development applications. Preference will be given to candidates who hold the qualification of A.M.P.T.I.

(b) SENIOR ARCHITECTURAL ASSISTANT. Salary to commence at £420 per annum, rising to £465 per annum in accordance with Grade IV of the National Scale of Salaries, plus bonus, at present £59 16s. per annum.

Applicants must have had considerable experience in the design and construction of buildings for Local Authorities, and should be A.R.I.B.A. or equivalent.

(c) ARCHITECTURAL ASSISTANTS (five vacancies). Salary to commence at £330 per annum, rising to £375 per annum in accordance with Grade I of the National Scale of Salaries, plus bonus, at present £59 16s. per annum.

Applicants must have had experience in the design and construction of buildings for Local Authorities, and have completed recognized training as architects.

The posts are subject to Local Government Superannuation Act, 1937, and the persons appointed will be required to contribute the appropriate percentage of their salaries to the Corporation Superannuation Scheme.

The appointments are subject to one month's notice on either side, and the successful candidates will be required to pass a medical examination.

Applications must be submitted in accordance with the particulars to be obtained from the Borough Engineer and Surveyor, Town Hall, Birkenhead, together with copies of three recent testimonials. They should be enclosed in a plain envelope, endorsed in accordance with the post for which application is made, and delivered to me not later than Wednesday, 15th January, 1947.

E. W. TAME,
Town Clerk.

Town Hall, Birkenhead. 617

**NANTWICH URBAN DISTRICT COUNCIL.
ENGINEER AND SURVEYOR'S DEPARTMENT.**

APPOINTMENT OF TEMPORARY JUNIOR ARCHITECTURAL ASSISTANT.

Applications are invited for the post of Temporary Junior Architectural Assistant, in the Engineer and Surveyor's Department, at a salary corresponding to National Joint Council, Grade A.P.T. I (£300-£375), plus £59 16s. bonus.

It is anticipated that the appointment will be for at least three years.

Applicants must have served articles with an Architect, and had a good general training, including the preparation of 1/8th scale plans and working drawings, with some knowledge of specifications.

Applications, on forms to be obtained from Mr. E. H. Bailey, F.S.I., M.Inst.M. & Cy.E., Dip.T.P. Engineer and Surveyor, Brookfield, Nantwich, accompanied by two recent testimonials, to reach the undersigned not later than first post, 9th January, 1947, endorsed "Junior Architectural Assistant."

D. TUDOR EVANS,
Clerk of the Council.

17th December, 1946. 612

**GLAMORGAN COUNTY COUNCIL.
APPOINTMENTS OF ARCHITECTURAL
STAFF.**

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

(a) ASSISTANT ARCHITECT (Grade VI), £535-£600.

(b) ASSISTANT ARCHITECTS (Grade V), £460-£510.

(c) ASSISTANT ARCHITECTS (Grade IV), £420-£465.

(d) ASSISTANT ARCHITECTS (Grade III), £390-£435.

(e) ASSISTANT ARCHITECTS (Grade II), £360-£405.

(f) ASSISTANT ARCHITECTS (Grade I), £330-£375.

(g) SENIOR QUANTITY SURVEYOR (Grade VI), £535-£600.

(h) ASSISTANT QUANTITY SURVEYOR (Grade V), £460-£510.

(i) ASSISTANT QUANTITY SURVEYOR (Grade IV), £420-£465.

(j) HEATING AND MECHANICAL ENGINEER (Grade IV), £420-£465.

(k) HEATING AND MECHANICAL ENGINEER (Grade I), £330-£375.

The salary scales are those of the A.P. & T. Division of the National Scheme of Conditions of Service. In addition a cost-of-living bonus, at present £59 19s. 3d. per annum, is paid.

Candidates for Architectural appointments must be Registered Architects and Associates of the Royal Institution of British Architects, those for appointment as Quantity Surveyors must be Corporate Members of the Royal Institution of Chartered Surveyors, qualified in the Quantities Sub-Division, and those for appointment as Heating and Mechanical Engineers must be Associate Members of the Institution of Heating and Ventilating Engineers.

Candidates for (a) and (b) and (c) should have had good training and suitable experience in the design and construction of modern buildings, particularly in the design of school buildings.

Candidates for (g) and (h) should be capable of undertaking all stages of the work for the preparation of specifications and bills of quantities, including preliminary estimates, preparation and statement of final accounts, site measurements, and the preparation of interim surveys, and should have had extensive experience in this work.

Candidates for (j) should be able to prepare schemes for and advise upon all matters relating to heating, hot water, electrical ventilation, and laundry installations and general plant.

The appointments will be subject to the National Scheme of Conditions of Service, to the staffing regulations of the County Council from time to time in force, to the provisions of the Local Government Superannuation Act, 1937, and to one calendar month's notice on either side. Successful candidates will be required to pass a medical examination.

Candidates must not be over 45 years of age, but this condition may be relaxed in the case of a person already in the service of the Authority or a specially suitable candidate employed by another Local Authority. In the case of ex-Service applicants, the age limit will be raised by the number of years served in H.M. Forces during the late war.

Applications are also invited for the following temporary appointments, required in connection with the preparation of survey work and preliminary plans in connection with the Education Development Plan.

ASSISTANT ARCHITECTS, at a salary of £8 8s. per week, plus cost-of-living bonus.

Candidates must be Registered Architects.

The appointments will be subject to the general regulations of the County Council with regard to conditions of service and to one week's notice on either side.

Applications for any of the above-mentioned appointments, on forms which may be obtained from the Glamorgan County Architect, County Hall, Cardiff, must be returned to him in sealed envelopes, appropriately endorsed, not later than the 11th January, 1947.

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

A. CLIFFORD WALTER,
Deputy Clerk of the County Council.
Glamorgan County Hall, Cardiff.
19th December, 1946. 635

BOROUGH OF DOVER.

TEMPORARY ARCHITECTURAL ASSISTANT.

Applications are invited for the above appointment, in the Borough Engineer's Department, at a basic salary of £390 per annum, rising by annual increments of £15 to a maximum of £435 per annum (National Scale—A.P.T., Grade III).

Applicants should possess recognized technical qualifications, and should have had considerable Local Government or other similar experience.

The appointment is terminable by one month's notice on either side.

Applications, stating age, details of qualifications and experience, together with copies of three recent testimonials, must be delivered to the Borough Engineer and Surveyor, Maison Dieu House, Dover, not later than the first post Monday, 13th January, 1947.

JAMES A. JOHNSON,
Town Clerk.

Brook House, Dover.
20th December, 1946. 623

**BOROUGH OF WILLESDEN.
APPOINTMENT OF ARCHITECTURAL AND
TOWN PLANNING ASSISTANTS.**

Applications are invited for the following appointments, on the temporary staff of the Borough Engineer and Surveyor's Dept., in connection with the preparation of Town Planning and Redevelopment Schemes:—

- (a) ONE FIRST-CLASS ARCHITECTURAL ASSISTANT.
(b) TWO SECOND-CLASS TOWN PLANNING ASSISTANTS.

Candidates for appointment (a) must be either an Associate of the Royal Institute of British Architects, Associate Members of the Town Planning Institute, or hold an equivalent qualification, and preferably have had an architectural training and experience in the preparation of redevelopment and town planning schemes.

The salary attached to this appointment will be Administrative, Professional and Technical (Grade V) of the National Whitley Council's Scale for the London area, namely £480, rising by two annual increments of £15 and one of £20 to a maximum of £530 per annum, plus the cost-of-living bonus, which at present is £59 16s. per annum.

Candidates for appointments (b) must be either an Associate of the Royal Institute of British Architects, Associate Member of the Town Planning Institute, Professional Associate of the Royal Institution of Chartered Surveyors, hold the Testamur of the Institution of Municipal and County Engineers, or an equivalent qualification, and preferably have had experience in the preparation of Town Planning Schemes. The salary attached to these appointments will be Administrative, Professional and Technical (Grade IV) of the National Whitley Council's Scale for the London area, namely £440, rising by annual increments of £15 to a maximum of £485 per annum, plus the cost-of-living bonus, which at present is £59 16s. per annum.

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

Applications, giving age, qualifications and experience, accompanied by copies of not more than three testimonials, should be addressed to the undersigned, endorsed "Architectural Assistant" or "Town Planning Assistant," not later than 10 a.m. on 1st February, 1947.

Canvassing, directly or indirectly will be deemed a disqualification.

W. T. PIRIE,
Town Clerk.

Town Hall, Dyne Road, Kilburn, N.W.7.
18th December, 1946. 534

**METROPOLITAN BOROUGH OF
PADDINGTON.
APPOINTMENT OF DIRECTOR OF
HOUSING.**

The Council invite applications for the permanent appointment of Director of Housing, at a commencing salary of £1,500 per annum, rising by two annual increments of £100 to £1,700 per annum, plus cost-of-living bonus.

The person appointed will be responsible for the direction of all new housing schemes undertaken by the Council, for which architects in private practice have been or may be retained, and such additional housing duties, including the management and maintenance of the Council's existing housing accommodation as the Council may from time to time determine. The Housing Department, if so decided by the Council, may be required to undertake the preparation of plans, specifications, etc., for some of the new housing schemes.

Applicants, who must not be over 50 years of age, must have had wide general experience in administration, and have considerable organizing ability; must possess practical experience and sufficient architectural knowledge to be capable of dealing with contractors and advising on contracts, and be able to direct and control the Council's Direct Labour (Housing) Department. Architectural qualifications, and experience in Local Authority housing, will be an advantage.

The successful candidate will be required to produce a certificate of birth; pass an examination by the Council's Medical Examiner; devote the whole of his time to the duties of his office, and not be directly or indirectly concerned in any business other than that of the Council without express permission in each case to be given by resolution of the Council. The appointment will be subject to the provisions of the Paddington Borough Council (Superannuation and Pensions) Acts.

Applications, stating (a) age, (b) war service, (c) professional and academic qualifications, (d) present appointment, (e) previous appointments, and (f) experience in administration and organization, and giving the names of three persons to whom reference may be made, should be sent in an envelope marked "Appointment of Director of Housing," so as to be received by the undersigned not later than Friday, 31st January, 1947.

Canvassing, either directly or indirectly, will disqualify.

W. H. BENTLEY,
Town Clerk.

Town Hall, Paddington, W.2.
1st January, 1947. 616

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

Applications are invited for the following appointments:—

EDUCATIONAL SECTION:
(a) ARCHITECTURAL ASSISTANT.

HOUSING SECTION:
(b) ARCHITECTURAL ASSISTANT.

CONSTRUCTION SECTION:
(c) ASSISTANT QUANTITY SURVEYOR.

The salary for post (a) is in accordance with National Joint Council Scale (Grade IV), £420 p.a., rising by three annual increments of £15 (subject to satisfactory service) to £465 p.a., plus £23 London weighting and cost-of-living bonus, at present £59 19s. 3d.

Applicants should have experience in the design and construction of schools.

The salary for post (b) is £375 p.a., rising by one annual increment of £25 (subject to approved service) to a maximum of £400 p.a., plus cost-of-living bonus, at present £59 19s. 3d.

Applicants should have had experience in housing work.

The salary for post (c) is £425 p.a., rising by one increment of £30 (subject to approved service) to a maximum of £455 p.a., plus cost-of-living bonus, at present £59 19s. 3d.

Applicants should be experienced in the preparation of estimates, settlement of contractors' accounts, and dealing with priority certificates for materials.

The Council have adopted the National Joint Council Scheme, and the salaries for posts (b) and (c) will shortly be graded in accordance therewith.

The appointments are whole time, terminable by one month's notice in writing on either side, and subject to the Local Government Superannuation Acts, 1937/39, and to the service regulations made by the Council from time to time.

Successful candidates will be required to pass a medical examination. Membership of the appropriate Trade Union is a condition of engagement.

Application forms can be obtained from Thomas E. North, F.R.I.B.A., Borough Architect and Planning Officer, 100, West Ham Lane, E.15, and applicants must state clearly the post for which they are applying.

Forms to be returned to the above not later than Friday, 10th January, 1947.

Canvassing members of the Council is prohibited, and will disqualify.

E. E. KING,
Town Clerk

Town Hall, West Ham, E.15. 613



Comfortable, smart, form-supporting seating, that will stack away into a small area when not in use.

The Modern Seating—durable, colourful and easy to maintain.

In short supply at present like all good things; as materials become available in sufficient quantity, Cox & Co., manufacturers and designers for 20 years, will expedite deliveries and create new designs to enrich their already wide range of Tubular Steel Furniture for all purposes.

Cox & Co

(WATFORD) LTD.

WATFORD BY-PASS, WATFORD, HERTS.

Phone: WATFORD 5631 (5 LINES)

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

Applications are invited for the under-mentioned appointments, on the permanent staff:—

Conditions of service and salaries are in accordance with the National Joint Council Scheme for Local Authorities, as adopted by the County Council.

(a) ASSISTANT ARCHITECT (Grade V).

(b) ASSISTANT ARCHITECTS (Grade IV).

Applicants should have had experience in the design and construction of modern buildings, and for appointment (a) must be fully qualified.

(c) ARCHITECTURAL ASSISTANTS (Grade III).

Applicants to have had good general architectural experience, and to be first-class draughtsmen.

(d) SENIOR QUANTITY SURVEYOR (Grade V).

Applicants should be fully qualified, and have had experience in taking off quantities for all trades, measuring up, and preparing final accounts.

(e) ASSISTANT QUANTITY SURVEYORS (Grade I).

Applicants should have had experience in assisting with taking off and measuring up.

In addition to the salaries payable under the respective Grades a cost-of-living bonus, at present £59 16s. per annum, is payable in each case.

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

Applications, stating age, present position and salary, qualifications and previous experience, accompanied by copies of three recent testimonials, should reach the undersigned not later than 8th January, 1947.

Envelopes and applications must be endorsed, stating clearly the vacancy for which the application is made.

F. HAMER CROSSLEY, Dipl. Arch.,
A.R.I.B.A.,
County Architect.

County Offices, Derby.

26th December, 1946.

637

Amended Advertisement.

BOROUGH OF ROYAL TUNBRIDGE WELLS.

Applications are invited for the following appointments, in the Borough Surveyor's Department, for the period of approximately three years, on the grades of the National Scheme indicated opposite each appointment, plus war bonus in each case at the rate from time to time in force:—

ONE ARCHITECTURAL ASSISTANT (Grade V), £460—£515.

ONE ARCHITECTURAL ASSISTANT (Grade IV), £430—£465.

ONE QUANTITY SURVEYING ARCHITECT (Grade V), £460—£515.

Successful candidates will be required to contribute under the Local Government Officers' Superannuation Act, 1937, and to pass a medical examination. Applicants should state, in addition to the usual particulars, whether to their knowledge they are related to any member or senior officer of the Council.

Applications, endorsed with the title of the post applied for, together with the names of not more than three persons to whom references can be made, should be delivered to Mr. H. P. Bishop, Borough Surveyor, Town Hall, Tunbridge Wells, not later than Saturday, 11th January, 1947.

JOHN WHITEHEAD,
Town Clerk.

Tunbridge Wells.

632

COUNTY BOROUGH OF DERBY.

BOROUGH ARCHITECT'S DEPARTMENT.

Applications are invited for the following appointment, on the permanent staff, in accordance with the National Scale of Salaries:—

ONE ASSISTANT ARCHITECT (Grade VI). Salary £535-£600 per annum, plus cost-of-living bonus, at present £59 16s. (male).

Applicants should be Associate R.I.B.A., with good experience of architectural work, especially in the design and construction of Schools and Education Buildings generally.

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

Applications should be tabulated, showing age, qualifications, present salary, previous experience, and date when available, accompanied by copies of three recent testimonials, and delivered to Thos. W. East, F.R.I.B.A., Borough Architect, The Council House, Corporation Street, Derby, to arrive not later than Tuesday, 14th January, 1947.

Canvassing, directly or indirectly, will be a disqualification.

C. ASHTON, M.A.,
Town Clerk.

Market Place, Derby.
12th December, 1946.

598

**CITY OF BIRMINGHAM EDUCATION
COMMITTEE.**

**BIRMINGHAM CENTRAL TECHNICAL
COLLEGE, SUFFOLK STREET, 1.
Principal: J. Wilson, B.Sc., B.Com., M.I.Mech.E.
DEPARTMENT OF BUILDING AND STRUCTURAL
ENGINEERING.**

Applications are invited for the full-time appointment as ASSISTANT TEACHER OF BUILDING CONSTRUCTION, and associated subjects. Salary will be in accordance with the new Burnham Technical Scale. Basic scale, £300—£515—£525. Additions to the scale may be given for academic or professional qualifications, and the commencing salary will also depend upon professional or industrial experience.

Applicants should possess one of the following qualifications, A. or L.R.I.B.A., A.M.I.Struct.E., A. or L.I.O.B., or Higher National Certificate or Diploma (Building).

Conditions of appointment and form of application may be obtained from the Principal on receipt of stamped, addressed, foolscap envelope. The last day for receipt of applications is 11th January, 1947.

E. L. RUSSELL,
Chief Education Officer.
590

Competition

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

**PETERBOROUGH JOINT EDUCATION
BOARD.**

**ARCHITECTURAL COMPETITION
FOR PROPOSED TECHNICAL COLLEGE,
PETERBOROUGH.**

(a) The Promoters invite Architects of British nationality to submit in open competition designs for the above new buildings, to be erected at Peterborough.

(b) Assessor: Mr. T. Cecil Howitt, D.S.O., F.R.I.B.A.

(c) Premiums: 1st, £500; 2nd, £250; 3rd, £150.

(d) Last date for questions: 28th February, 1947.

(e) Last date for submitting designs: 30th June, 1947.

(f) Conditions of the Competition may be obtained on application to the Chief Education Officer, Education Offices, Town Hall, Peterborough.

(g) Deposit £2 2s. (two pounds two shillings).

LESLIE TAIT,
Chief Education Officer.
566

Architectural Appointments Vacant

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

ARCHITECTURAL DRAUGHTSMAN required, Maidenhead; capable of working up from sketches, preparing details, surveys, etc. Send details of experience and salary required to Box 673.

HENRY C. SMART & PARTNERS, Architects, 120, Moorgate, E.C.2, require Assistant; working drawings, details, surveys, etc. Write, stating age, experience, and salary required. 913

3 VACANCIES occur for **DRAUGHTSMEN** in Southsea Branch Office of London Architects; **SURVEYORS** with first-class experience required for London Office. Full particulars of experience, with salary required, to Messrs. Nightingale & Ambrose, 27, John Adam Street, Adelphi, London, W.C.2. 549

JUNIOR DRAUGHTSMAN required in Maidenhead Architect's Office. Send particulars of experience and salary required to Box 672.

THE Architect's Dept. of large Industrial Co. have vacancy for experienced Assistant in London; knowledge of industrial design an advantage. Write Box 586.

SENIOR ASSISTANT, fully qualified, required at once by Architects in South Kensington; salary £10 to £12, according to ability. Box 610.

ARCHITECTURAL ASSISTANT wanted for S. Staffs. office; must be capable draughtsman, able to survey and take levels, and negotiate extras, etc.; mainly housing work. State experience and salary required to Box 620.

QUANTITY SURVEYORS are required by several Government Departments for temporary posts, at salaries varying from £300-£400 per annum; vacancies exist throughout the United Kingdom. Applicants should write, quoting J/QS, to the Ministry of Labour and National Service, Technical and Scientific Register, Room 268, York House, Kingsway, London, W.C.2. 614

ARCHITECTURAL ASSISTANTS are required throughout the United Kingdom, by several Government Departments, at salaries up to £550 per annum (including consolidated allowances), according to qualifications and experience; temporary posts. Applicants, who should have had five years' of training and experience, should write, quoting J/A.A. to the Ministry of Labour and National Service, Technical and Scientific Register, Room 267, York House, Kingsway, London, W.C.2. 615

QUANTITY SURVEYOR (Senior) required by Oil Company operating in Persian Gulf, in connection with a large construction project of about three years' duration, with possibilities of subsequent employment; candidates must be qualified quantity surveyors, with some costing and estimating experience; unmarried, or prepared to proceed unaccompanied, and preferably under 40; a substantial salary will be paid to a candidate of standing and experience. Reply, giving brief particulars of qualifications and experience, to Box 618.

REQUIRED by London Architects, carrying out housing, school and factory work:—(a) Assistant Architect; must be qualified and very experienced. (b) Junior Assistant, up to Inter. R.I.B.A. Standard and with London office experience. Applications, with full details of experience and salary required, to Box 621.

APPLICATIONS are invited by the Co-operative Wholesale Society, Ltd., for appointment of **STRUCTURAL ENGINEERING ASSISTANTS**, in their Manchester Architect's Department; applicants should have experience in the design and detailing of structural steel, reinforced concrete and foundation works; salary up to £500 per annum, according to qualifications, exclusive of cost-of-living bonus; successful candidates will be required to pass a medical examination for entry into compulsory superannuation scheme. Applications, stating age, qualifications and experience, to C.W.S. Ltd., Architect's Department, 1, Balloon Street, Manchester. 4. 620

JUNIOR ARCHITECTURAL ASSISTANT required immediately; progressive position in South London office; salary by arrangement. Box 605.

ARCHITECTURAL ASSISTANTS required; must be able to prepare working drawings; houses from sketch plans; salary according to experience. Saunders & Reiss-Smith, Architects, 70, Hill Park Crescent, Plymouth. 621

REQUIRED, by Main Line Railway Co. for work in London, **ASSISTANT ARCHITECTS**, **ARCHITECTURAL ASSISTANTS**, and **QUANTITY SURVEYING ASSISTANTS**; engagement on a temporary basis, at salaries up to £9 per week, plus war advance (at present 28s. per week), according to qualifications and experience. Applications, stating age, experience, etc., with copies of recent testimonials, to Box 625.

ARCHITECTS require Junior and Senior Assistants. Write T. Jackson & R. Edmonds, F.R.I.B.A., 65 New Street, Birmingham, 1, stating qualifications, experience, and salary. 626

Architectural Appointments Wanted

ARCHITECTURAL ASSISTANT requires part-time work; school trained; wide experience in general work, especially housing, layouts, etc.; also levels and surveys; resident in Bristol. Box 207.

ARCHITECTURAL DRAUGHTSMAN; experienced housing work, etc.; all work drawings; sketch plans; moderate salary. Box 208.

QUALIFIED ARCHITECTURAL ASSISTANT seeks post in London area to gain general experience. Box 209.

Other Appointments Vacant

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

CORRESPONDENCE CLERK to assist Sales Manager required by Group of Companies, with head office in Surbiton; man with initiative and ability to act on own responsibility; able to read drawings; knowledge of building trade an advantage. Write fully past experience. Box 638.

OLD-ESTABLISHED Engineering Firm in London requires **TECHNICAL ENGINEER**, to develop mechanical Air Filtration Components for Heavy Duty Internal Combustion Engines, Industrial Air Filtration Plants, etc.; candidates should have commercial entree to manufacturers; the post offers opportunity and progress to a suitable man with these qualifications; excellent remuneration and commission to person selected. Please apply, stating age, experience in detail, to Box 628.

Other Appointments Wanted

Four lines or under, 2s. 6d.; each additional line, 1s.

LAND SURVEYS for Housing Schemes and other projects carried out by expert, with own car and equipment. Box 829.

ENGINEER undertakes Sanitary Surveys and Prepares Designs for Water Services, Drainage and Disposal Systems for country house conversions, etc. Box 979.

For Sale

PRE-WAR Mahogany Drawing Desk, adjustable, with writing drawer and card index inside; reeded legs; price £50. Seen 142, Darnley Road, Gravesend, mornings and evenings. 609

Miscellaneous

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

A. J. BINNS, LTD., specialists in the supply and fixing of all types of fencing, tubular guard rail, factory partitions and gates. 99-107, St. Pauls Road, N.I. Canonbury 2061.

F. J. BAYNES, LTD., established over 100 years. Heating, Ventilating and Sanitary Engineers. 99/107, St. Paul's Road, N.I. Canonbury 2061-3.

"CAN I HELP YOU?" I have on my staff Architectural and Civil Engineering Draughtsmen, Building, Estimating, Land, Measuring and Quantity Surveyors. Write C. F. Rumble, 29/31, Whitehall, S.W.1. Tel.: Whitehall 8514.

SALES EXECUTIVE, with excellent references, keen to act as Selling Agent for specialist building products and equipment; unique Home Counties connection, educational authorities, and architects, and County and Municipal Authorities; London office and staff available; thorough and competent representation assured. Box 147.

WANTED—One set of "Arte Et Matiers Graphiques." Please reply to Box 5.

WANTED—Complete set of "Typography." Box 487.

"THE ARCHITECTURAL FORUM" of America has returned to its pre-war size and format. Annual subscriptions can now be accepted at 50s. per annum, prepaid, through Stobart & Son, Ltd., 9, Victoria Street, London, S.W.1 (ABBEY 2858). 744

PROF. CIVIL ENGINEER wishes Office Accommodation, 1 to 2 rooms; preferably if sub-let by architect or surveyor; advertiser also prepared to give professional assistance when required. Box 591.

CENTRAL HEATING OIL BURNERS.—Insist on the British-made Parwinc—no stoking, clean, trouble free; no waiting for coal or coke deliveries; no embargo now. Write at once to Parker, Winder & Achurch, Ltd., Makers, 80, Broad Street, Birmingham, 1.

WANTED.—Copies of "Specification," from 1937 inclusive onwards; good price given. Telephone SLOane 3535.

LEADS (Central Development Area, Business Zone).—Capital OFFICES and STORAGE Accommodation to let in buildings about to be rehabilitated, and in which it is proposed to form a concentration of firms engaged in the Building and Allied Trades and Professions. Particulars from Waite, Sons & Gill, Estate Agents, 87, Albion Street, Leeds, 1. 611

FURNISHED Apartment or Flatlet in London area urgently required by full-time Architectural Student (ex-Service); limited Government allowance necessitates moderate rental. Reply D. Robinson, 15, Kent Avenue, Leigh-on-Sea, Essex. 633

Educational Announcements

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

R.I.B.A. QUALIFYING EXAMINATIONS. Mr. C. W. Box, F.R.I.B.A., M.R.San.I. Courses of Correspondence and Personal to Studie, 115, Gower St., London, W.C.1. (Tel.: Euston 3906).

R.I.B.A. and T.P. INST. EXAMS. Private Courses of Tuition by correspondence arranged by Mr. L. Stuart Stanley, M.A. F.R.I.B.A., M.T.P.I. Tutor, 212, Euston Road, N.W.1. Tel.: EUS. 7750.

INDUSTRIAL ROOFING

Contractors

SPECIALISTS IN TROUGHING
DECKING & DOUBLE SHEETING

Distributors of all A.C. Products

RJ SYMONS LTD

STATION APPROACH HINCHLEY WOOD
ESHER SURREY EMERBROOK 8335

STEELWORK BY

R. W. SHARMAN LTD.

SWANWORKS, HANWORTH, MIDDX

'Phones: Feltham 3007. Sunbury 2367. 'Grams: "Sharmar," Feltham

CIRCUIT BREAKERS to control electric current of up to 4,000 amps or for

STARTERS for electric motors of up to 1,000 H.P.

Specify ELLISON

Made by GEORGE ELLISON Limited, Perry Barr, Birmingham, 22B

NEW FLOORS for OLD

Wood Floors Planed, Sanded,
Repaired and Treated.

FLOOR RENOVATIONS LTD.

26, LAUNSTON ROAD, E.B. Phone: AMH 1080
Sandpapering machines for hire.

CONSULT

Boulton & Paul Ltd.

NORWICH

FOR SPECIALIST DESIGN
MANUFACTURE & ERECTION
OF FENCING & GATES



Wm. OLIVER & SONS, Ltd.

(of Bunhill Row), 12/13 Bow Lane, E.C.4
City 3335

HOME GROWN { **HARDWOODS**
SOFTWOODS

Quota Merchants for
NATIONAL STOCK

DOORS
WINDOWS
STAIRS

SPECIALISING IN WOODWORK TO ARCHITECTS' DESIGNS

THE MIDLAND JOINERY WORKS LTD.

'PHONE: 3685 (3 lines)

BURTON - ON - TRENT.

GRAMS: MIDJOIN

"UNO"



STENCIL

"UNO" STENCILS

for Lettering
ENGINEERS' & ARCHITECTS' PLANS

A. WEST & PARTNERS, Ltd.

36, BROADWAY, WESTMINSTER, LONDON, S.W.1



"UNO"
WATER-PROOF
INK

AIRCON

Send for
catalogue

Specialists in the manufacture of grilles and registers of advanced design for planned air diffusion. Special models available for PREFABRICATED HOUSES.

AIR CONDITIONING & ENGINEERING LTD.
3 BAYLEY STREET, TOTTENHAM COURT ROAD, LONDON, W.C.1 TEL: MUSEUM 8744 (4 lines)



Alphabetical Index to Advertisers

	PAGE		PAGE		PAGE
Air Conditioning & Engineering, Ltd. ...	xlix	Ewart & Son, Ltd.	—	North British Rubber Co., Ltd.	PAGE
Allied Paints & Chemicals, Ltd.	xlii	Farmer, S. W., & Son, Ltd.	—	Oliver, Wm., & Sons, Ltd.	xlix
Aluminium Union, Ltd.	—	Federation of Coated Macadam Industries	—	Paragon Glazing Co., Ltd.	—
Anderson, C. F., & Sons, Ltd.	—	Fenning & Co., Ltd.	—	Park Foundry (Belper), Ltd.	xxxix
Associated Metal Works (Glasgow), Ltd.	xlii	Ferguson, Edwards & Co. (London), Ltd.	—	Parnall, George, & Co., Ltd.	—
Austin-Hall Group of Companies	xvii	Ferodo, Ltd.	—	Patchett & Co., Ltd.	—
Automatic Telephone & Electric Co., Ltd.	xliii	Floor Renovations, Ltd.	—	Pritchett & Gold and E.P.S. Co., Ltd.	—
Banister, Walton & Co., Ltd.	xx	Freeman, Joseph, Sons & Co., Ltd.	xlix	Prodorite, Ltd.	—
Bath Cabinet Makers & Artcrafts, Ltd.	xxxvii	Fyvie Gate Co., Ltd.	—	Range Boilers, Ltd.	xxiv
Beetle Bond, Ltd.	xxv	Gascoigne, The Geo. H., Co., Ltd.	—	Reparations & Steam Brush Co., Ltd.	xi
Belling & Co., Ltd.	—	Gent & Co., Ltd.	xviii	Restall, Fredk., Ltd.	xli
Birmabright, Ltd.	xxi	Gillett & Johnstone, Ltd.	—	Rolyat Tank Co., Ltd.	xxii
Blundell, Spence & Co., Ltd.	xviii	Griffiths Bros. & Co., London, Ltd.	—	Ruberoid Co., Ltd.	xi
Bolton Gate Co., Ltd.	—	Gyproc Products, Ltd.	ix	Sanders, Wm., & Co. (Wedgebury), Ltd.	—
Booth, John, & Sons (Bolton), Ltd.	xlii	Hammond & Champness, Ltd.	—	Saunders & Taylor, Ltd.	—
Boulton & Paul, Ltd.	xlix	Harvey, G. A., & Co. (London), Ltd.	iii	Scaffolding (Great Britain), Ltd.	xxxv
Braithwaite & Co., Engineers, Ltd.	xi	Hellwell & Co., Ltd.	xii	Secomastic, Ltd.	—
Briggs, William, & Sons, Ltd.	—	Henderson, P. C., Ltd.	xlviii	Semtex, Ltd.	—
British Cast Iron Research Assoc.	xxxix	Holloway, W. F., & Brother, Ltd.	—	Shaffer, James, Ltd.	xlii
British Gas Council	—	Hope, Henry, & Sons, Ltd.	xxxiv	Shanks & Co., Ltd.	—
British Electrical Development Assoc.	—	Horseley Bridge & Thomas Piggott, Ltd.	—	Sharman, R. W., Ltd.	xlix
British National Electric, Ltd.	—	Ideal Boilers & Radiators, Ltd.	xix	Smith, Henry (Constructional Engineers),	—
British Rubber Development Board.	—	Imperial Chemical Industries, Ltd.	—	Ltd.	—
British Tego Gluefilm, Ltd.	xxv	Industrial Engineering, Ltd.	—	Smith & Rodger, Ltd.	—
Broadcast Relay Service, Ltd.	—	International Correspondence Schools...	—	Smiths' Fireproof Floors Ltd.	—
Burgess Products, Ltd.	—	Jenkins, Robert, & Co., Ltd.	ii	Southern Lime Assoc., The	viii
Carlisle Electrical Manufacturing Co.,	—	Jenson & Nicholson, Ltd.	—	Spooner's	—
Ltd.	iii	Johnston Bros. (Contractors), Ltd.	xlii	Sundeala Board Co., Ltd.	xxviii
Carlton Metal Moulding Co., Ltd.	—	Jones, Samuel, & Co., Ltd.	xliii	Sutcliffe, Speakman & Co., Ltd.	—
Carrier Engineering Co., Ltd.	xlii	Key Engineering Co., Ltd.	—	Symons, R. J., Ltd.	xlix
Cellon, Ltd.	x	Kieft, Cyril, & Co., Ltd.	i	Tentest Fibre Board Co., Ltd.	—
Cement Marketing Co., Ltd.	xxvi	Laing, John, & Son, Ltd.	—	Thermovent Heater (E. K. Cole), Ltd.	—
Chance Bros., Ltd.	—	Lead Industries Development Council...	—	Thompson, Beacon Windows, Ltd., John	v
Checol Processes, Ltd.	—	Leatherfor, Ltd.	—	Thornborough & Son (Manchester), Ltd.	—
Cheshire Woodcraft, Ltd.	xi	Limmer & Trinidad Lake Asphalt Co.	—	Tretol, Ltd.	xli
Clarke & Vigilant Sprinklers, Ltd.	—	London Brick Co., Ltd.	xiv	Troughton & Young (Lighting), Ltd.	—
Colthurst Symons & Co., Ltd.	xi	Lowe, J. & H. (Cranes), Ltd.	—	Tudor Accumulator Co., Ltd.	—
Colt Ventilation, Ltd.	—	Mackay Agencies, Ltd.	—	Turner's Asbestos Cement Co., Ltd.	—
Courtney, Pope, Ltd.	—	Main, R. & A., Ltd.	—	Twistell Reinforcement, Ltd.	—
Cox & Co. (Watford), Ltd.	xlvii	Mallinson, William, & Sons, Ltd.	—	United Steel Companies, Ltd.	—
Crittall Manufacturing Co., Ltd.	—	McArd, Robert, & Co., Ltd.	xxix	United Strip & Bar Mills	vii
Crittall, Richard, & Co., Ltd.	—	McCarthy, M., & Sons, Ltd.	—	Universal Asbestos Co., Ltd.	—
Croft Granite, Brick & Concrete Co., Ltd.	xxviii	Metallic Seamless Tube Co., Ltd.	—	Vent-Axia, Ltd.	—
Davidson, C. & Sons, Ltd.	xxiii	Midland Electric Manufacturing Co., Ltd.	—	Versil, Ltd.	xlii
Denny, Mott & Dickson, Ltd.	—	Midland Industries, Ltd.	—	Vulcan Products, Ltd.	—
Dowsett Engineering Construction, Ltd.	—	Midland Joinery Works, Ltd.	xlix	Walsall Conduits, Ltd.	xxx
Dreadnought Fireproof Doors (1930), Ltd.	—	Miles Martin Pen Co., Ltd.	—	Wareite, Ltd.	—
Dunlop Rubber Co., Ltd.	—	Mills Scaffold Co., Ltd.	iii	Ware, W. C., & Sons, Ltd.	—
Durafencing, Ltd.	—	Milners Safe Co., Ltd.	—	Walpamur Co., Ltd., The	iv
Edgar, Wm., & Son, Ltd.	xvi	Mint, Birmingham, Ltd., The	—	Wardle Engineering Co., Ltd.	—
Edmonds, A., & Co., Ltd.	—	Mitchell Construction Co., The	viii	Warwick Rim & Sectioning Co., Ltd. ...	xxxi
Electroway Heaters, Ltd.	—	Moler Products, Ltd.	—	West, A., & Partners, Ltd.	xxxvii
Ellison, George, Ltd.	xlix	Morris, M. A., Ltd.	xxxii	Westland Engineers, Ltd.	—
English Electric Co., Ltd.	xxxvi	Newalls Insulation Co., Ltd.	xxvii	Wimpey, George, & Co., Ltd.	—
English Joinery Manufacturers Assoc.	—	Nobles & Hoare, Ltd.	xv	Winget, Ltd.	—

For Appointments (Wanted or Vacant), Competitions Open, Drawings, Tracings, etc., Educational, Legal Notices, Miscellaneous Property and Land Sales, see pages xlv, xlii, xlvii, xlviii, and xlix.

INDIVIDUALITY—EVERY LOCK DIFFERS

LOCKS FOR EVERY PURPOSE

The lock that DEADLOCKS—the 'K' LOCK—is truly burglar-proof... Absolute individuality of each key, undrillable key-plate of hardened steel, and a simple positive half-turn action which locks the door against both entry and exit make it, without doubt, the safest lock to fit.



CYRIL KIEFT & CO LTD

LOCKS



IT
LATCHES
SLAM LOCKS
DEAD LOCKS
AND IS
CYLINDER LOCK
GUARDED

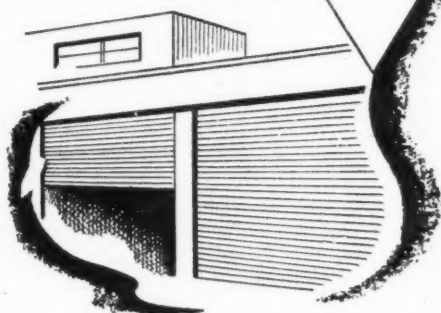
DRILL & PICK PROOF
RIM OR MORTISE
UNLIKE OTHER LOCKS
EXCEPT IN
PRICE & INSTALLATION

BRIDGEND, SOUTH WALES.

'Phone: BRIDGEND. 950.

PAGE
xlix
xxxii
xxiv
xli
xlii
xxii
xi
xxxv
vi
xxxi
xlix
ii
ii
viii
ii
xxviii
xlix
v
ii
xii
vii
xliii
xxx
ii
iv
xli
xlii
xxxviii

REVOLVING SHUTTERS



OFFER MANY ADVANTAGES

No matter how large or how small the opening, THORNBOROUGH Revolving Shutters offer many advantages over hinged doors. They give trouble free service for long periods, cut down loading time, save space and labour. Models are available for operation by pole, handle, or electricity.

We are specialists also in the manufacture of
HAND LIFTS AND SLIDING PARTITIONS

THORNBOROUGH & SON (MANCHESTER) LTD.

59 CHAPEL STREET

MANCHESTER, 1

Tel. : ARDwick 3948.

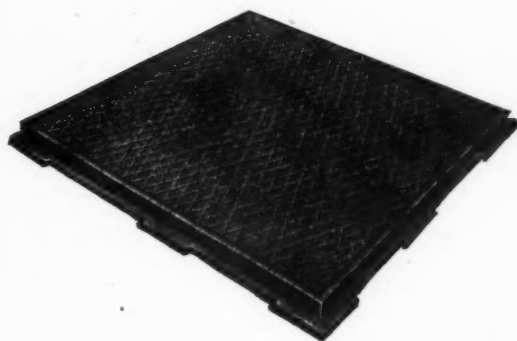
'Grams : Thornborough, Ancoats, Manchester

London : Tudor Works, N.W.10.

'Phone : Willesden 6478

T./S.B.3

GROUND MANHOLE COVERS



**UNBREAKABLE STEEL
CHEQUER PLATE**

Robert Jenkins & Co. Ltd.

IVANHOE WORKS
ESTD 1856 **ROTHERHAM**

Henry Smith

(CONSTRUCTIONAL ENGINEERS LTD.)



One of our recent contracts

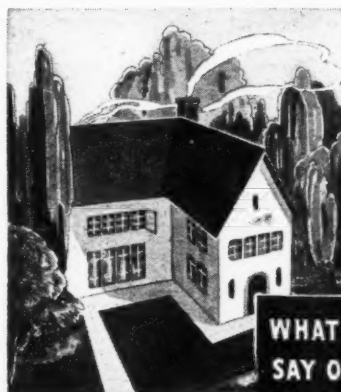
Specialists in

**STEEL FRAMED
INDUSTRIAL BUILDINGS
ROOFING GIRDERS
STANCHIONS—RIVETTED
AND WELDED
FABRICATED STEELWORK**

Contractors to
Admiralty,
War Office,
Air Ministry,
Ministry of Works,
Ministry of Supply.

Enquiries also invited for Light Forgings, Side-tipping Wagons, Mine Cars, Profile Cutting of Steel Plates, Builders' Ladder Irons, etc.

COBDEN STREET · PENDLETON
SALFORD 6, LANCs. Phone. PENDleton 2801-2



**WHAT WILL THE OWNER
SAY OF YOU A YEAR
FROM NOW ?**

After a year of all sorts of weather will he feel that your workmanship left much to be desired ? For he'll surely blame you first and inferior materials last. So protect your reputation by using only Smith & Rodger Protective Paints and Varnishes. Products include "Vitamel" Hard Gloss Paint, "VITACHARM" Flat paint for both undercoating and finishing, "Waldura" Washable Water Paint, "Vitamatt" Flat Finishing Paint.

Certain of our goods are still restricted and this advertisement is intended to keep our name before our customers during a period when many items are still scarce or unobtainable.

**SMITH &
RODGER**
PAINTS · ·
VARNISHES

SMITH & RODGER LTD., ELLIOT STREET, GLASGOW.
Telephone : CITY 6341-2. Telegrams : "SMITH RODGER," Glasgow.

MILLS SCAFFOLD CO. LTD
LONDON & BRANCHES

THE HALLMARK

ON STEEL SCAFFOLDING

MILLS

MILLS SCAFFOLD CO. LTD., Head Office: TRUSSLEY WORKS, HAMMERSMITH GROVE, LONDON, W.6. Tel.: RIVerside 5024/9

