

THE ARCHITECTS' JOURNAL



standard contents

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

NEWS and COMMENT

Diary

News

Architects' Commonplace Book

Astragal's Notes and Topics

Letters

Societies and Institutions

TECHNICAL SECTION

Information Sheets

Information Centre

Current Technique

Questions and Answers

Prices

The Industry

PHYSICAL PLANNING SUPPLEMENT

CURRENT BUILDINGS

HOUSING STATISTICS

Architectural Appointments
Wanted and Vacant

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

IEE	Institution of Electrical Engineers.	Savoy Place, W.C.2.	Temple Bar 7676
IES	Illuminating Engineering Society.	32, Victoria Street, S.W.1.	Abbey 5215
IGE	Institution of Gas Engineers.	1, Grosvenor Place, S.W.1.	Sloane 8606
IHVE	Institution of Heating and Ventilating Engineers.	75, Eaton Place, S.W.1.	Sloane 3158
IIBD	Incorporated Institute of British Decorators.	Drayton House, Gordon Street, W.C.1.	Euston 2450
ILA	Institute of Landscape Architects.	12, Gower Street, W.C.1.	Museum 1783
I of Arb.	Institute of Arbitrators, 35/37, Hastings House,	10, Norfolk Street, Strand, W.C.2.	Temple Bar 4071
IOB	Institute of Builders.	48, Bedford Square, W.C.1.	Museum 7197
IR	Institute of Refrigeration.	Empire House, St. Martin's-le-Grand, E.C.1.	Monarch 7391
IRA	Institute of Registered Architects.	47, Victoria Street, S.W.1.	Abbey 6172
ISE	Institution of Structural Engineers.	11, Upper Belgrave Street, S.W.1.	Sloane 7128-29
LIDC	Lead Industries Development Council.	Eagle House, Jermyn Street, S.W.1.	Whitehall 7264
LMBA	London Master Builders' Association.	47, Bedford Square, W.C.1.	Museum 3891
MARS	MARS Group (English Branch of CIAM).	34, Gordon Square, W.C.1.	Euston 2158-9
MOA	Ministry of Agriculture and Fisheries.	55, Whitehall, S.W.1.	Whitehall 3400
MOE	Ministry of Education.	Belgrave Square, S.W.1.	Sloane 4522
MOH	Ministry of Health.	Whitehall, S.W.1.	Whitehall 4300
MOLNS	Ministry of Labour and National Service.	St. James's Square, S.W.1.	Whitehall 6200
MOS	Ministry of Supply.	Shell Mex House, Victoria Embankment, W.C.	Gerrard 6933
MOT	Ministry of Transport.	Berkeley Square House, Berkeley Square, W.1.	Abbey 7711
MOTCP	Ministry of Town and Country Planning.	32-33, St. James's Square, S.W.1.	Whitehall 8411
MOW	Ministry of Works.	Lambeth Bridge House, S.E.1.	Reliance 7611
NAMMC	Natural Asphalte Mine-Owners and Manufacturers Council.	94, Petty France, S.W.1.	Abbey 1010
NAS	National Association of Shopfitters.	9, Victoria Street, S.W.1.	Abbey 5277/8
NBR	National Buildings Record.	37, Onslow Gardens, S.W.7.	Kensington 8161
NCBMP	National Council of Building Material Producers.	2, Caxton Street, S.W.1.	Abbey 5111
NFBTE	National Federation of Building Trades Employers.	82, New Cavendish Street, W.1.	Langham 4041
NFBTO	National Federation of Building Trades Operatives, Federal House,	Cedars Road, Clapham, S.W.4.	Macaulay 4451
NFHS	National Federation of Housing Societies.	13, Suffolk St., S.W.1.	Whitehall 2881/2/3
NHBRC	National House Builders Registration Council.	82, New Cavendish Street, W.1.	Langham 4041
NPL	National Physical Laboratory.	Head Office, Teddington.	Molesley 1380
NSAS	National Smoke Abatement Society.	Chandos House, Buckingham Gate, S.W.1.	Abbey 1359
NT	National Trust for Places of Historic Interest or Natural Beauty.	42, Queen Anne's Gate, S.W.1.	Whitehall 0211/2
PEP	Political and Economic Planning.	16, Queen Anne's Gate, S.W.1.	Whitehall 7245
PWB	Post War Building, Directorate of.	Ministry of Works, Lambeth Bridge House, S.E.1.	Reliance 7611
RCA	Reinforced Concrete Association.	94, Petty France, S.W.1.	Whitehall 9936
RIAS	Royal Incorporation of Architects in Scotland.	15, Rutland Square, Edinburgh.	Edinburgh 20396
RIBA	Royal Institute of British Architects.	66, Portland Place, W.1.	Welbeck 5721
RICS	Royal Institution of Chartered Surveyors.	12, Great George St., S.W.1.	Whitehall 5322
RFAC	Royal Fine Art Commission.	22A, Queen Anne's Gate, S.W.1.	Whitehall 3935
RS	Royal Society.	Burlington House, Piccadilly, W.1.	Regent 3335
RSA	Royal Society of Arts.	6, John Adam Street, W.C.2.	Temple Bar 8274
RST	Royal Sanitary Institute.	90, Buckingham Palace Road, S.W.1.	Sloane 5134
RIB	Rural Industries Bureau.	35, Camp Road, Wimbledon, S.W.19.	Wimbledon 5101
SBPM	Society of British Paint Manufacturers.	20, Piccadilly, London, W.1.	Regent 6347
SCR	Society for Cultural Relations with the USSR.	98, Gower Street, W.C.1.	Euston 6272/3
SE	Society of Engineers.	17, Victoria Street, Westminster, S.W.1.	Abbey 7244
SFMA	School Furniture Manufacturers' Association.	13, New Square, Lincoln's Inn, W.C.	Chancery 5313
SIA	Structural Insulation Association.	14, Moorgate, London, E.C.2.	Central 4444
SIA	Society of Industrial Artists.	Room 243, Empire House, St. Martin's-le-Grand, E.C.1.	Metropolitan 8344
SNHTPC	Scottish National Housing & Town Planning Council.	Hon. sec., Robert Pollock, Town Clerk, Rutherglen.	
SPAB	Society for the Protection of Ancient Buildings.	55, Great Ormond Street, W.C.1.	Holborn 2646
TCPA	Town and Country Planning Association.	28, King Street, Covent Garden, W.C.2.	Temple Bar 5006
TDA	Timber Development Association.	75, Cannon Street, E.C.4.	City 6146 (3 lines)
TPI	Town Planning Institute.	18, Ashley Place, S.W.1.	Victoria 8815
TTF	Timber Trades Federation.	81, Cannon Street, E.C.4.	City 1476
WDC	War Damage Commission.	Devonshire House, Mayfair Place, Piccadilly, W.1.	Mayfair 8866
WEDA	Welfare Equipment Development Association.	61, St. Paul's Churchyard, E.C.4.	City 4263/4
ZDA	Zinc Development Association.	Lincoln House, Turl Street, Oxford.	Oxford 47988

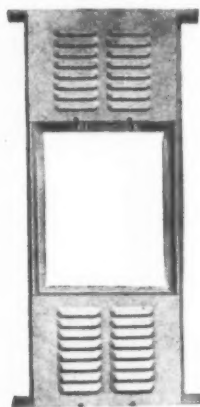
No. 2805]

[Vol. 108

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

Price 9d.

Registered as a Newspaper



TYPE MAS

GREENWOOD'S "PERMAVENT" ALL STEEL LARDER LIGHTS

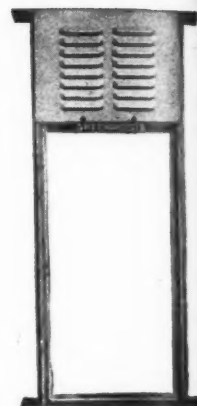
LIGHT AND PERMANENT VENTILATION COMBINED

STEEL FRAMED WINDOWS ADMIT DAYLIGHT.
VENTILATION VIA WEATHER RESISTING
MULTI-LOUVRED PANELS BACKED BY
DETACHABLE INSECT-PROOF SCREENS.
IMMENSELY STRONG AND DURABLE.
MADE IN TWO TYPES AND FOUR SIZES.
DELIVERED READY FOR BUILDING IN.
FOR HOUSING, AND OTHER BUILDINGS.

GREENWOOD'S AND AIRVAC
VENTILATING COMPANY LTD.

BEACON HOUSE · KINGSWAY · LONDON · W.C.2

TELEPHONE: CHANCERY 8135-6-7



TYPE MBS

"P.L.C." SLIDE RULES
Manufacturers of
HIGH GRADE DRAWING and SURVEYING INSTRUMENTS
SLIDE RULES, DRAWING MATERIALS
DRAWING OFFICE STATIONERY
A. G. THORNTON LTD
Drawing Instrument Specialists
41 GARTSIDE ST MANCHESTER 3

**STEEL FRAMED
BUILDINGS**
AND ALL TYPES OF
RIVETED & WELDED
STRUCTURAL WORK

BONE, CONNELL & CO. LTD.
NETHERTON WORKS, WISHAW, LANARKSHIRE.
TELEPHONE: WISHAW 543-4 · TELEGRAMS: "STRUCTURAL WISHAW"

Glasgow Office: 219, St. Vincent St., Glasgow, C2. Phone: Central 8111.
London Office: 529, Grand Buildings, Trafalgar Square, London.
Phone: Whitehall 4272.

'VICTOR' DOOR SPRINGS

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

ROBERT ADAMS
(VICTOR) LTD
139 Staines Road Hounslow

If you intend to Specify Sash Windows, avoid future Cord troubles by ordering . . .

"EVERLASTO"
BRITAIN'S SUPER SASH CORD

- * Weatherproofed by special process at no extra cost
- * Non Stretch
- * Rot Proof
- * Long Life
- * Durable
- * Low Cost

Sash Cords do not break—they rot. Stop the Rot—fit "EVERLASTO"

Specified by Housing Directors, Architects, and Builders

Waterproof and Rot Proof
SASH CORD

Also Ideal for Colour Poles, Aerial Poles, Inside Clothes Airer Rails, etc.

Made in all lengths
Write for details

JAMES LEVER & SONS LTD
Everlasto Cordage Works · Delph St. Bolton

C



Co
be

- The
bl
sto
- Co
sel
- Lig
of
- No

For

COME RAIN..COME SHINE



House at Crown Lane, East Burnham, Bucks, roofed with Colt Shingles.

Architects : Tubbs, Duncan & Osburn, AAA.R.I.B.A.

Colt Shingles prove Britain's best All-Weather Roofing

- The form and nature of the shingles combine to provide a close and completely stormproof weather shield.
- Colt Shingles are only the finest carefully selected material.
- Light weight permits considerable savings of structural timber.
- No maintenance costs.
- Colt Shingles are licensed additionally to maximum timber allowance.
- Immediate delivery from stock.
- Expert advice and fixing service always available.
- Concise details on waterproof qualities, weight, insulation, etc., on request to:

W. H. COLT (LONDON) LTD., SURBITON, SURREY

Telephone : Elmbridge 6511 (4 lines)

COLT *Canadian Cedar Wood* **SHINGLES**
(CEDAR WOOD TILES)

For all DOMESTIC, AGRICULTURAL, and INDUSTRIAL BUILDINGS

**AGRICULTURAL
BUILDINGS**

DWELLINGS

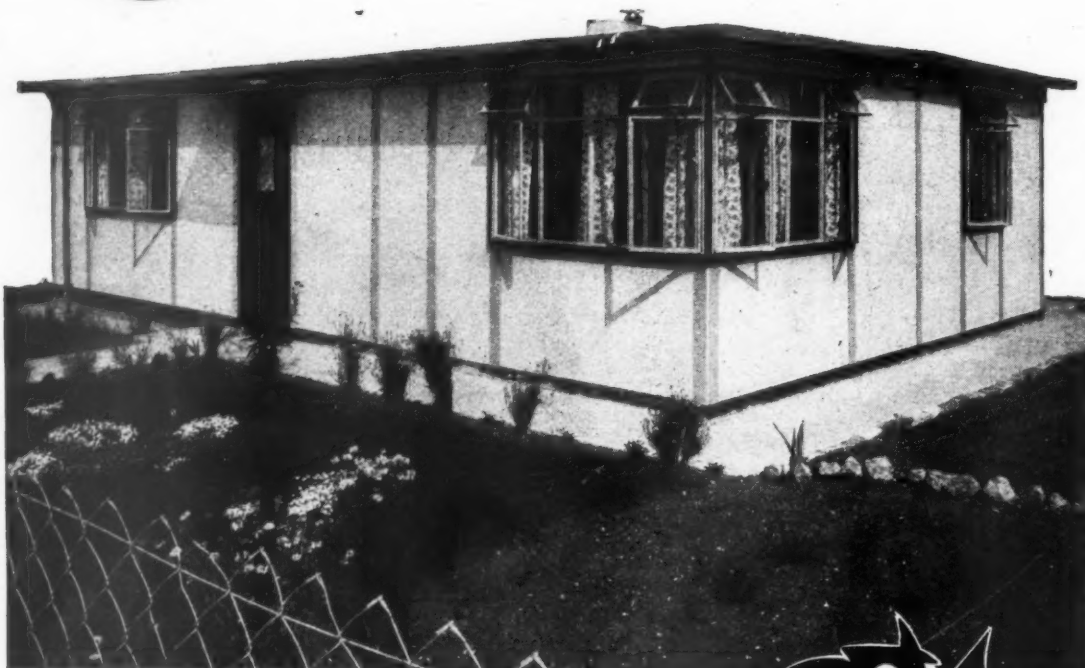
SCHOOLS

**COUNCIL
HOUSES**

CHURCHES

JONWINDOWS

AVAILABLE FOR IMMEDIATE DELIVERY



*Metal Windows
for the post-war
Housing Campaign*



JOHN WILLIAMS & SONS (Cardiff) LTD.

East Moors Road • Cardiff

TELEPHONE CARDIFF 2501

London: Bank Chambers, Finsbury Park, N.4.

TELEGRAMS "METAL" CARDIFF

Telephone: Archway 2294

Telegrams: Dissolving, London
122318

2 HEADS are better than 1

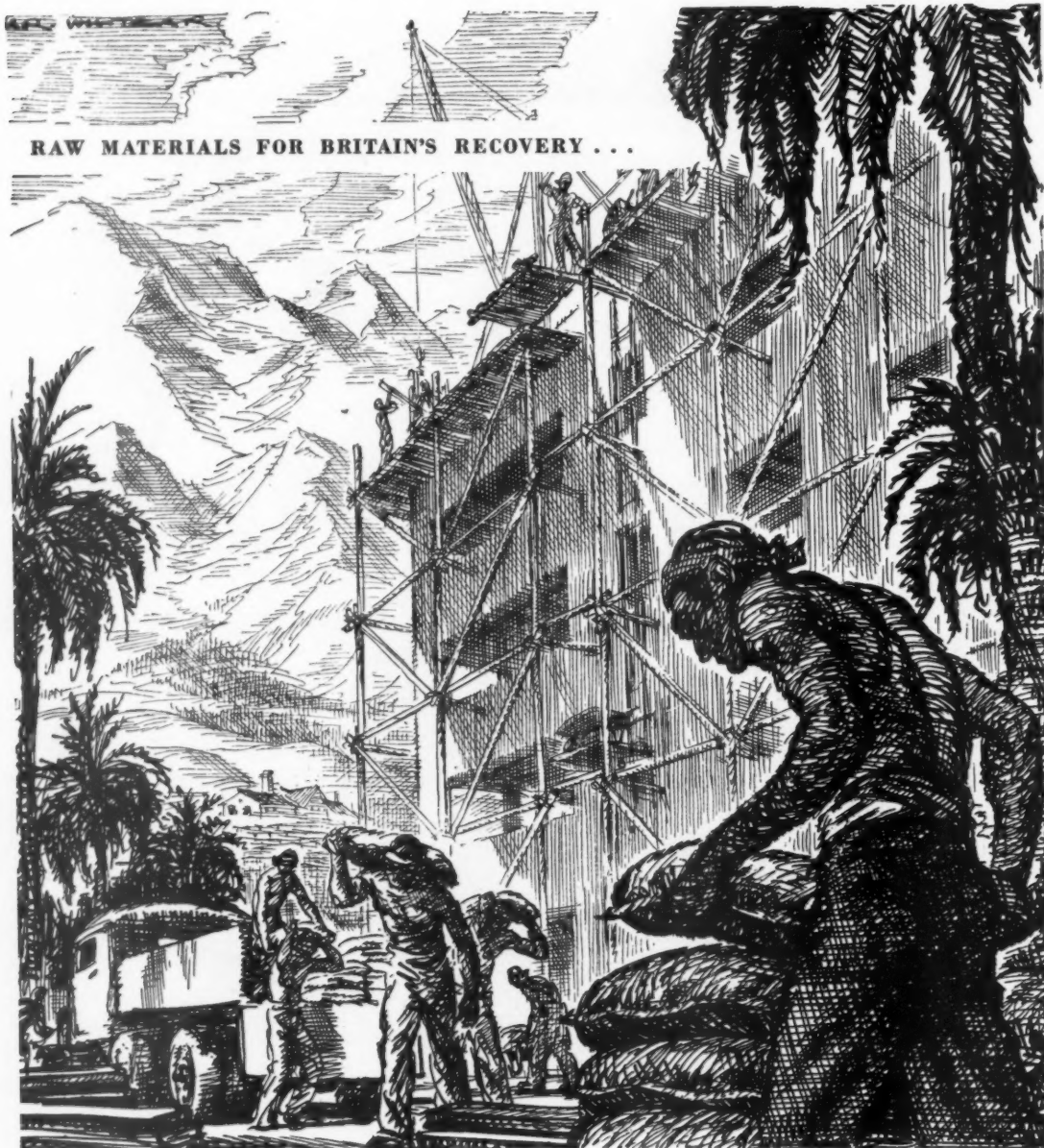


A doctor calls for a second opinion, not because he doubts his own diagnosis but because he wants to confirm it. A patient's life may be at stake. Electrical engineers preparing specifications for expensive battery installations frequently consult us for similar reasons. The difference between the doctors and ourselves is that we make no charge for the consultation. It is a part

Batteries and Control Panels for Emergency Lighting

of the Pritchett and Gold service which, for over 60 years, has provided three-fold security for Architects: 1. Technical advice and specifications. 2. Equipment and Installation. 3. Regular inspection, maintenance and replating.

PRITCHETT & GOLD and E.P.S. CO LTD
50 GROSVENOR GARDENS LONDON SW1



B.C.11

CEMENT FOR FOREIGN CURRENCY

British cement, known throughout the world for its consistent high quality, is being used abroad for the construction of refrigeration plants, canning factories, grain silos, etc. Its shipment is thus not only obtaining for Britain valuable foreign currency, but is helping to accelerate the supply of essential goods.

THE CEMENT MARKETING COMPANY LIMITED

192 ASHLEY GARDENS, LONDON, S.W.1

A substantial contribution to Britain's hard currency requirements is being made by the export of cement from the Blue Circle Cement Organization.





BRITAIN CAN MAKE THEM

Better!

★ THAT'S WHY THERE'S A UNIVERSAL PREFERENCE FOR

SUNDEALA

The Pioneer all-British

BUILDING BOARDS

for exterior and interior use

SCIENTIFICALLY WATERPROOFED

SUNDEALA BOARD CO. LTD. ALDWYCH HOUSE, LONDON, W.C.2

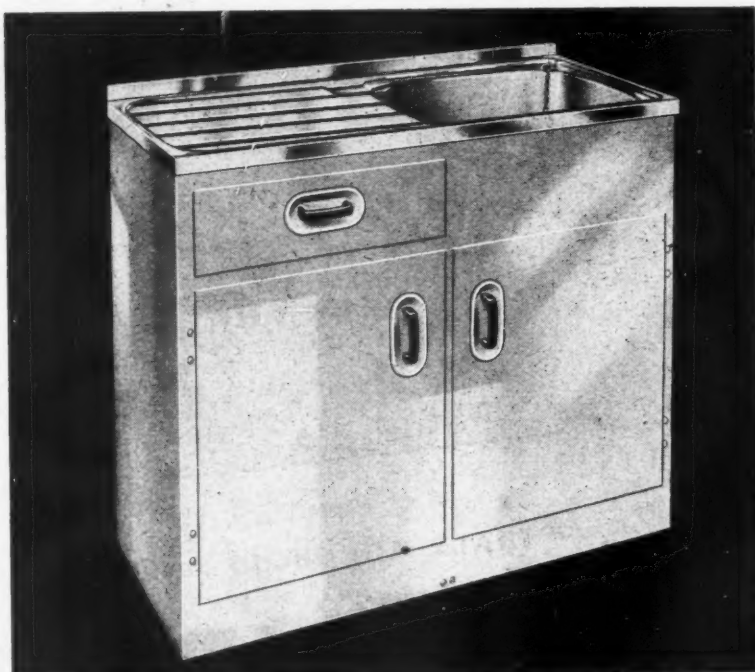
Tel: CHAncery 8159

Works: Sunbury-on-Thames, Middx.

Members of Building Board Manufacturers Association

Rustproof Sink Unit

IN STAINLESS STEEL and ALUMINIUM



A single drainer unit fitted with stainless steel sink and drainer mounted on aluminium cabinet,

the No. 44 is the latest addition to C.S.A.'s large range of completely rustproof kitchen furnishings. Backless and without a toe recess, it is designed for taps to be fitted on the wall and can be supplied in silvasheen, cream, pastel green or blue. Overall dimensions 3 ft. 6 in. × 3 ft. × 1 ft. 6 in.

Retail Selling price £24. NO PURCHASE TAX.

Details of the complete range of C.S.A. Kitchen Furnishings can be had on request from C.S.A. Sales Organisation:—W.T. Scutt, 172, Edmund Street, Birmingham, 3. Tel: CEN 6357

A PRODUCT OF



INDUSTRIES LTD

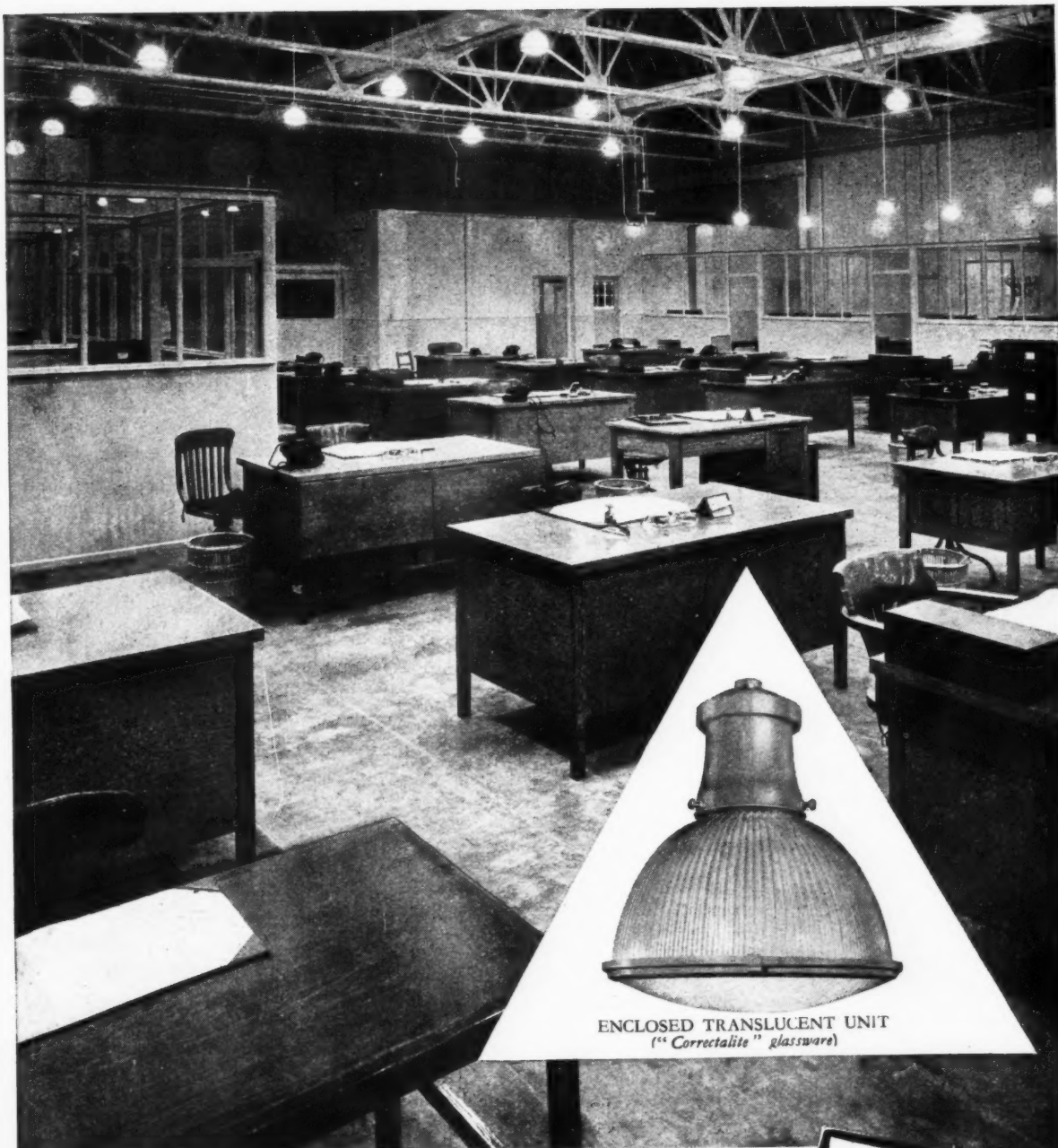
Designers and Manufacturers of Kitchen Cabinets, Wall Cupboards, Broom Cupboards, Dressers, Single and Double Drainer Sink Units, Wash Hand Basins, Bathroom Wall Units, Splash Backs, etc.

PHONE
WARWICK 500 & 501

WARWICK

GRAMS
CONSCREW WARWICK

L.G.B.



ENCLOSED TRANSLUCENT UNIT
(“Correctalite” glassware)

Photo by courtesy of Messrs. Mars Limited, Slough, Bucks

Specialists
in Lighting
Research
and
Application
since 1896

HOLOPHANE

LIMITED

ELVERTON STREET, LONDON, S.W.1. *Victoria 8062 (4 lines)*



SAFE STAIRS—essential in public places, valuable everywhere—need neither look dull nor lose their safety with wear.

In Ferodo Stairtreads, each part is important. The aluminium nosing is not there merely for its looks: it contributes to safety by giving each step a gleaming outline.

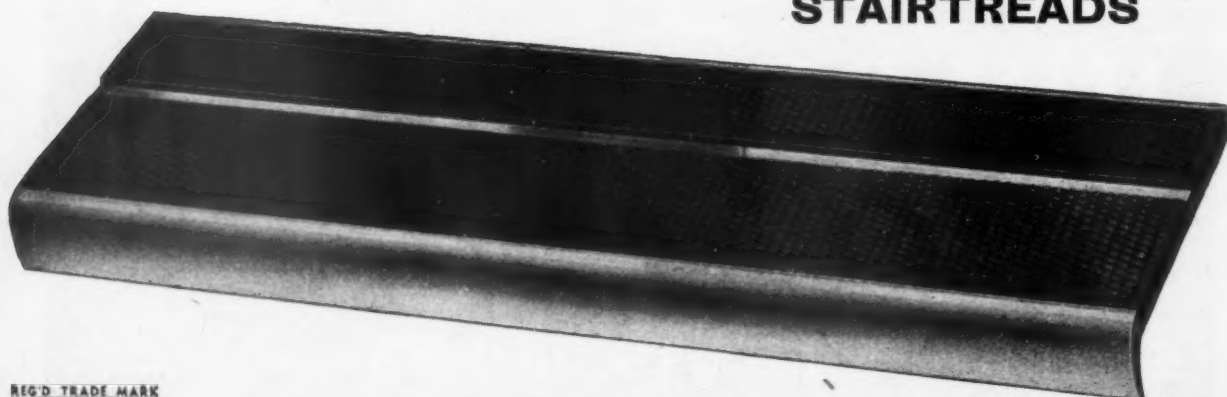
And the inlaid Ferodo fabric, non-slip through and through, seems to absorb endless wear without itself wearing appreciably. It gives a safe, friendly tread, even to wet shoes.

Ferodo Stairtreads are made in single and double channel types. Instead of Ferodo fabric, the inlaid strips may be of Ferodo composition, giving a non-slip surface in red, white, or grey.

Easily fitted, easily cleaned, and needing no other maintenance, Ferodo Stairtreads are being installed in many new and existing public buildings, stores, offices, etc. The various models, including a plain steel-backed industrial type, are described and illustrated in our Catalogue No. 732KK, gladly sent on request.

FERODO

STAIRTREADS



FERODO LIMITED, CHAPEL-EN-LE-FRITH

A Member of the Turner & Newall Organization





- fifty years' bad weather

IF SUCH a gloomy forecast should ever happen to come true, it would have no effect on a canopy cast in Noral alloy.

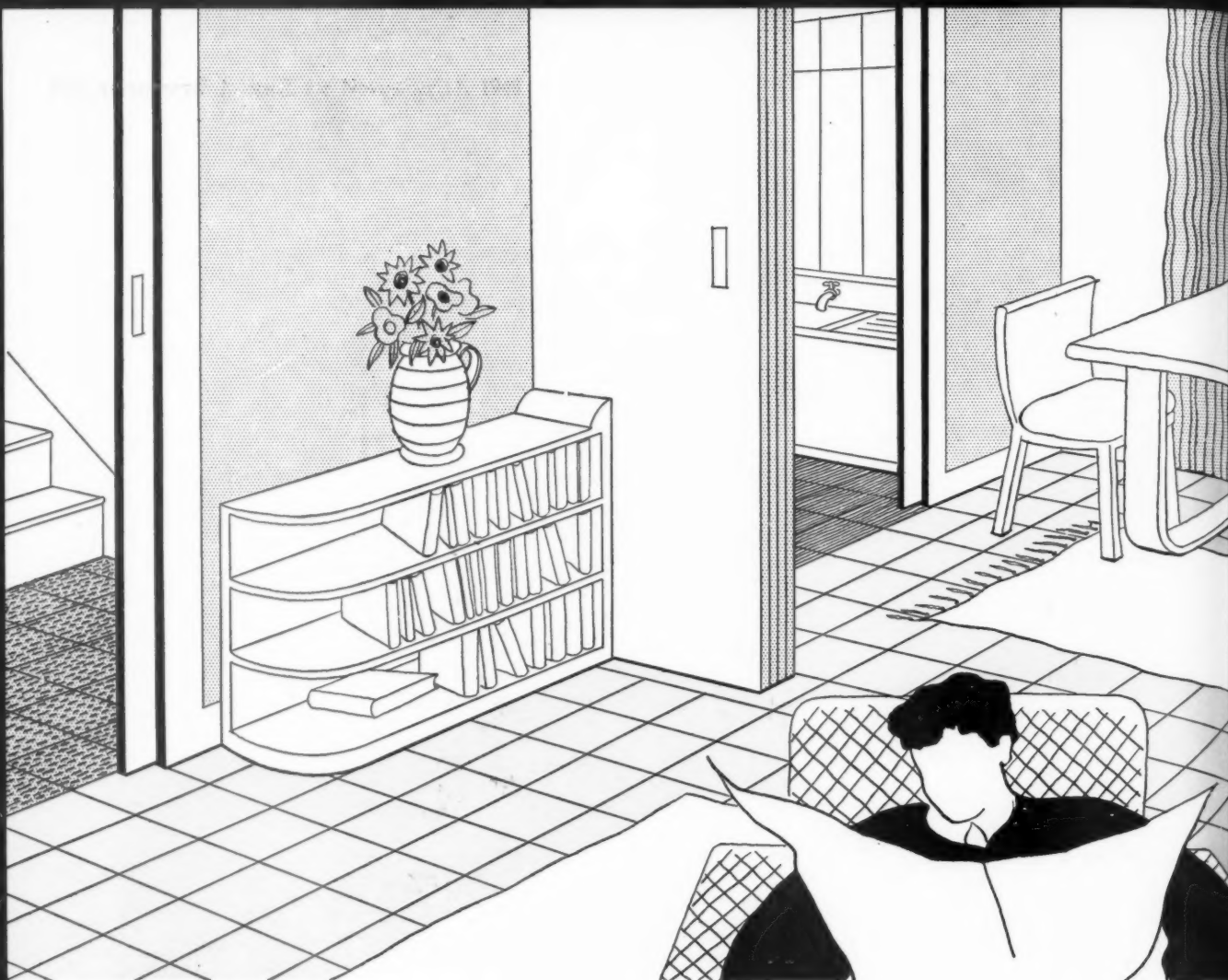
Its natural appearance is pleasing, it resists corrosion and does not rust, and it requires no protective coating. For special colour effects paint is easily applied and lasts longer than on most other materials.

Such a canopy is exceptionally light for its size and imposes little strain on the structure to which it is fixed. Yet it is extremely strong.

Architects are invited to write to us for further information.

Northern Aluminium COMPANY LIMITED

Technical Development Division: BANBURY · OXON Sales Offices: LONDON · BIRMINGHAM · MANCHESTER · BRISTOL · NEWCASTLE-ON-TYNE · LEEDS



and now.. **MARLEY FLOOR TILES**

*Colourful • Silent • Resilient • Durable
Hygienic • Waterproof • Easily laid*

AN INEXPENSIVE SOLUTION OF THE FLOORING PROBLEM

FOR DOMESTIC HOUSING AND FLATS • SCHOOLS AND HOSPITALS • HOTELS
RESTAURANTS • CANTEENS & HOSTELS • MUNICIPAL BUILDINGS • OFFICES

MARLEY FLOOR TILES can be supplied immediately in any quantity
and in a wide range of colours.

THE MARLEY FLOOR TILE COMPANY LTD. STANBRIDGE ROAD, LEIGHTON BUZZARD.

Supplied and fixed by THE MARLEY TILE COMPANY LTD., LONDON RD., RIVERHEAD, SEVENOAKS, KENT. *Sevenoaks 2251-6*



5

y

6

2

Spa
Arco
true
conc

S

E.
Te



Architects: ARCON

Spacious elegance is the keynote of this new Bond Street shop designed by Arcon for Messrs. Russell & Bromley. An unusual interior such as this is a true test of the craftsmans ability to interpret faithfully the Architects original conception. This intelligent co-operation is apparent wherever there are

SHOPS BY POLLARDS

E. POLLARD & COMPANY LTD 159 ST. JOHN STREET, LONDON, E.C.1
Telephone: CLerkenwell 6701 • Showrooms: 299 Oxford Street, W.1



In this respect orchids may be compared with human beings: they both thrive in a light, warm, draught-proof atmosphere. EJMA Standard Wood Casement Windows conform to these essential requirements. They are pleasing and varied in design and weather-proof, draught-proof and dust-proof to a high degree. Moreover their quality is guaranteed. EJMA Windows may be specified with confidence.

EJMA THE GUARANTEE
OF JOINERY
EXCELLENCE
CERTIFICATION TRADE MARK

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

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

FROM BALHAM



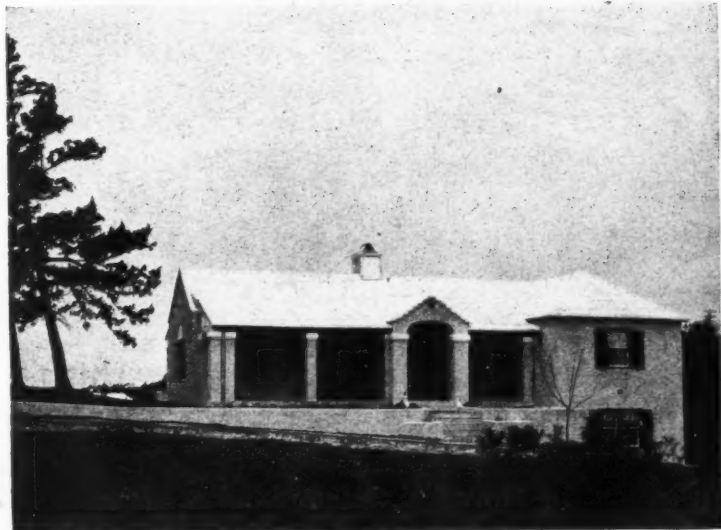
Watneys Bottling Stores, Balham, Decorated with Cementone No. 9

TO

BERMUDA

In the Arctic circle, or the
Tropics, in Europe, or in Asia,
In North America or South
America—You will find a
CEMENTONE Job.

The results obtained with
Cementone decorative and
protective products in these
varying climatic conditions
is your safety margin and
provides proof that



Private Residence, Fairylands, Bermuda. Decorated with Cementone No. 9

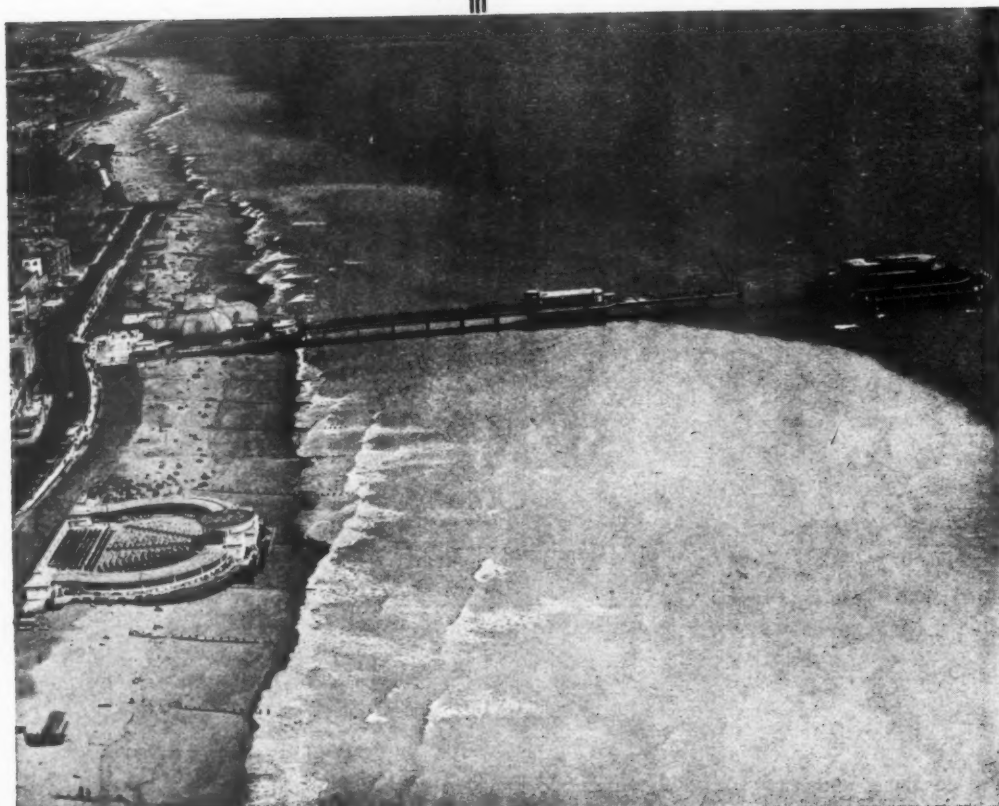
**YOU CAN
DEPEND ON**

Cementone

JOSEPH FREEMAN SONS & CO. LTD., CEMENTONE WORKS, LONDON, S.W.18. Bat. 2432



ZINC ROOFING BY BRABY



Pier Pavilion & Bandstand, Worthing

CRATFSMEN IN ZINC ROOFING FOR OVER A CENTURY

Brochure on request

FRED^K BRABY & CO. LTD.

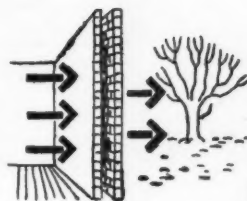
LONDON	-	-	-	Fitzroy Works, 352-364 Euston Road, N.W.1
GLASGOW	-	-	-	Ida & Victoria Works, Deptford, S.E.8
LIVERPOOL	-	-	-	Eclipse Works, Petershill Road, Glasgow, N.
BRISTOL	-	-	-	Havelock Works, Aintree, Liverpool, 10
EXPORT	-	-	-	Ashton Gate Works, Bristol, 3
				110 Cannon Street, London, E.C.4

'Phone	Euston 3456
'Phone	Tideway 1234
'Phone	Springburn 5151
'Phone	Aintree 1721
'Phone	Bristol 64041
'Phone	Mansion House 6034

Also at FALKIRK, BELFAST and PLYMOUTH

NO
coupons needed
here!

Lighting a fire on a cold winter's day in a house which has no safeguard against heat-loss is rather like rambling in a snowstorm with no better protection than a bathing costume and a



bottle of brandy. The warmth escapes right, left and centre until the scuttle is empty—or the bottle.

'Fibreglass' makes the warmest suit of underclothes any house ever wore—warm in winter, cool in summer and sound-proof all the year round. 'Fibreglass' insulation of walls, roof and ground floor will reduce avoidable heat-loss by an average 65%. If no more than the roofs of the 300,000 houses in Birmingham were 'Fibreglass' protected, we should be better off by 390,000 tons of coal a year.

What's even more surprising, you can get the stuff! We offer quick delivery of 'Fibreglass' for structural insulation.

FIBREGLOSS

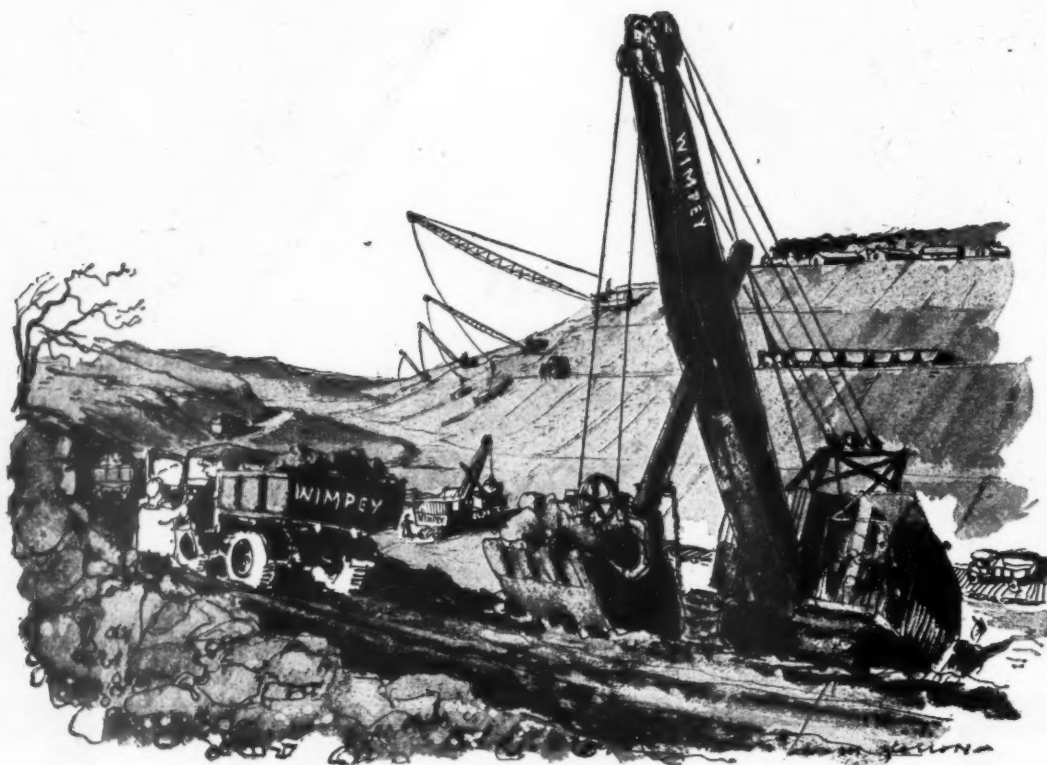
TRADE MARK

FIBREGLOSS is pure glass—in fibre form. It's the world's best all-round insulating material—strong, light, resilient, easy to apply, fire-proof, rot-proof, offers no sustenance to vermin and is everlasting.

FIBREGLOSS LTD., Ravenhead, St. Helens, Lancs. Glasgow Office: 136 Renfield Street. London Office: 10 Princes Street, Westminster, S.W.1.

WIMPEYS AT WORK

Eight tons a minute



This is a typical Wimpey excavator. One of the latest types, moving speedily about the site under its own power, moving easily from job to job, often working day and night and averaging a hundred hours a week—it can excavate eight tons a minute.

WE USE a large number of these excavators, not only for shifting soil but for excavating in hard earth and rock for the thousands of tons of coal which we uncover every week by open-cast methods. Like all Wimpey plant, our excavators are serviced daily, and overhauled at intervals at one of the national network of Wimpey service stations.

Wimpey's immense pool of mobile modern plant helps to explain Wimpey's efficiency, economy and speed. All Wimpey's huge central resources—plant, transport, key manpower, laboratory work—are 'on tap' for any Wimpey job, large or small, anywhere in

Britain. All these resources are at the command of Wimpey's seven British regional offices: at Birmingham, Cardiff, Manchester, Newcastle, Nottingham, Edinburgh and Glasgow. Wimpeys also have large foreign depots at Cairo, Baghdad and Singapore.

WIMPEY

Contractors since 1880—and now busy in the export market as well as at home

GEORGE WIMPEY AND COMPANY LIMITED, TILEHOUSE LANE, DENHAM, MIDDLESEX

M.3

FENNING

Craftsmen in

MARBLE

GRANITE &

TERRAZZO

FULHAM 6142-3

PALACE WHARF, RAINVILLE ROAD,
HAMMERSMITH, LONDON, W.6

G. JACKSON & SONS LTD.

FIBROUS PLASTER

INTERIOR WOODWORK

COMPOSITION & CARTON-PIERRE

MODELLING & CARVING

PAINTING & HERALDRY

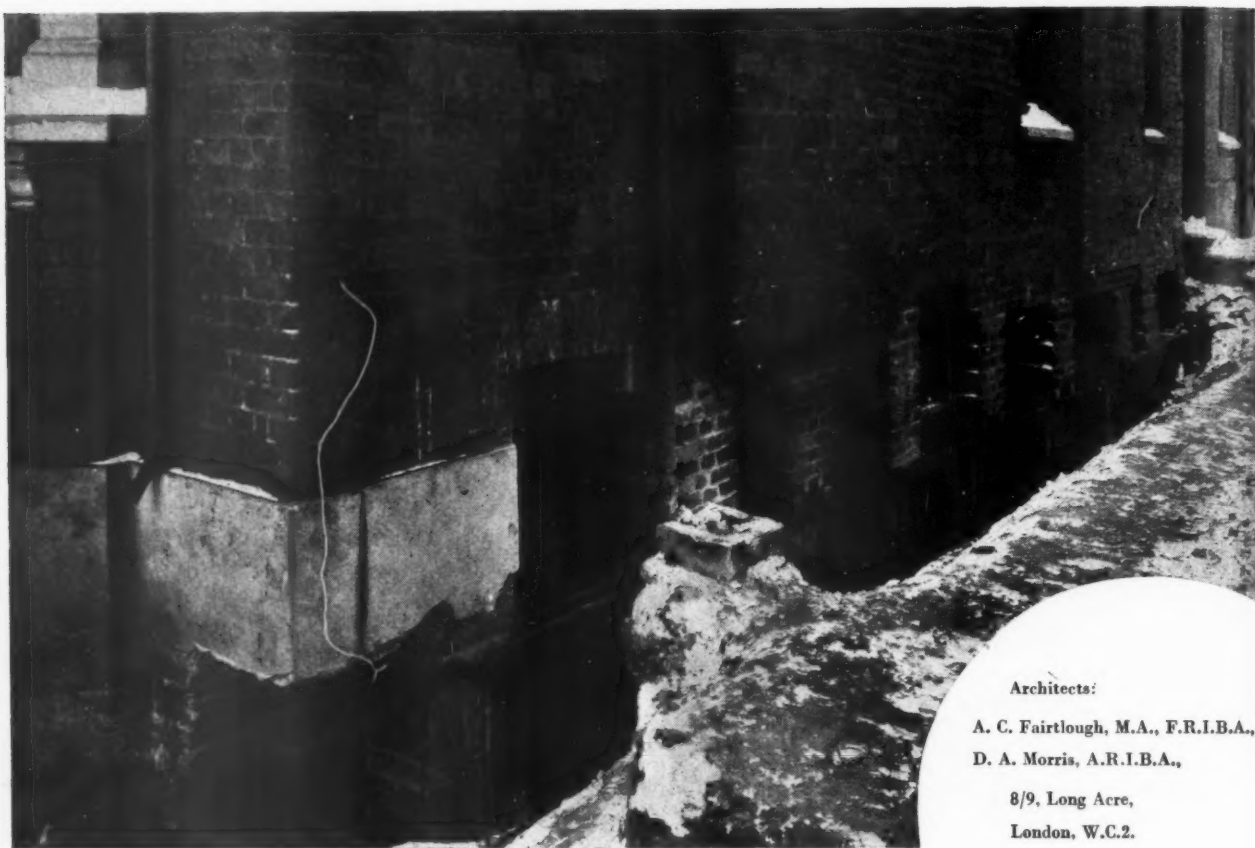
SCAGLIOLA

By the old Italian process of
BELLMAN, IVEY, CARTER & CO.

RATHBONE WORKS, RAINVILLE RD., HAMMERSMITH, W.6

Phone: FULHAM 6616-7-8

Telegrams: "SYMARECTA" HAMMER LONDON



Architects:

A. C. Fairtlough, M.A., F.R.I.B.A.,

D. A. Morris, A.R.I.B.A.,

8/9, Long Acre,

London, W.C.2.

This new method of **UNDERPINNING**

- OVER 90 ft. OF 18 in. WALL AND ALL THE LOADING IS BEING SUPPORTED ON THIS JOB WITH PYNFORD BEAM STOOING IN SAFETY.
- PYNFORD BEAMS MAY BE LARGE OR SMALL.
- PYNFORD BEAMS MAY BE USED AT ANY LEVEL.
- PYNFORD BEAMS MAKE POSSIBLE CONTINUOUS UNDERPINNING.
- WITH PYNFORD BEAMS, NOT 5 ft. BUT 500 ft. AT ONCE IF DESIRED.

PYNFORD LIMITED

UNDERPINNING SPECIALISTS AND CIVIL ENGINEERS

74, LANCASTER RD., STROUD GREEN, N.4

Telephone: ARCHWAY 2372

SISALKRAFT for FLOOR CONSTRUCTION



THE supreme building paper. Reinforced,
waterproof, pliable and clean. Of proven
dependability in its many applications. Restricted
in supply but ample in performance.
Technical information on request.

SISALKRAFT
TRADE MARK

Sole Distributors
for British Sisalkraft Ltd.

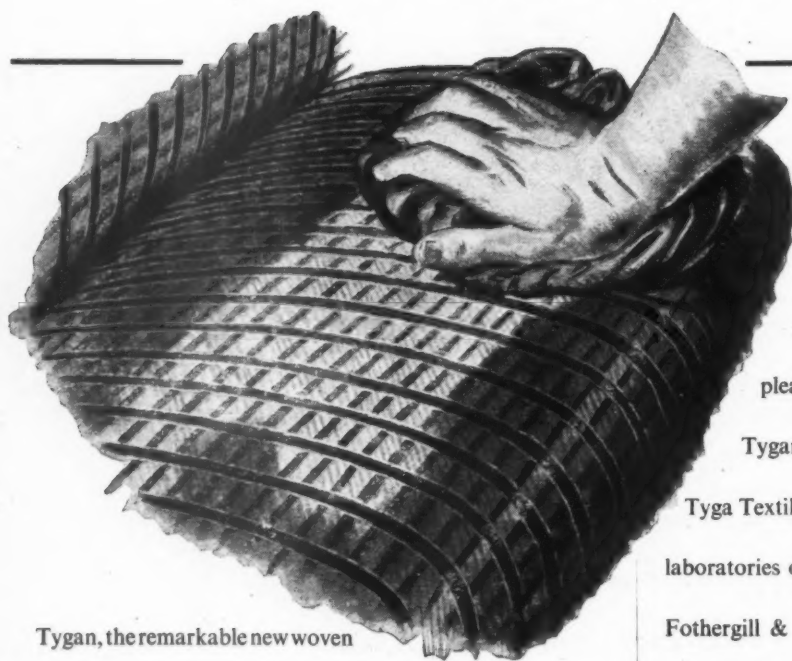
J.H.SANKEY & SON.LTD

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

TELEPHONE: HOLBORN 6949 (20 lines) TELEGRAMS: BRICKWORK, ESTRAND, LONDON

Tygan

CAN BE CLEANED WITH A DAMP CLOTH



Tygan, the remarkable new woven upholstery fabric, can be cleaned down as easily as an enamel top table. Water does not harm it in any way and a wipe with a damp cloth will keep it spick and span. Because it is so easily cleaned it promotes hygiene and greatly simplifies the work of cleaners.

Tygan has outstanding resilience, toughness and abrasion resistance and is a wise choice wherever wear is exceptionally heavy. It is fast to light, is mothproof and will not mould or

rot. It has a negligible water absorption and is therefore never damp. Tygan upholsters well and will shortly be available in a wide range of pleasing colours and designs.

Tygan undergoes the same rigorous testings as other

Tyga Textiles in the laboratories of Fothergill & Harvey Ltd. This

is an assurance of the consistent high quality

and serviceability of Tygan, which conforms in every respect to the highest standards of Lancashire woven productions.



Tygan is woven exclusively by Fothergill & Harvey Ltd. from BEXAN, a new synthetic yarn developed by B.X. Plastics Ltd.



Write for illustrated folder including patterns, quoting reference BA9 to FOTHERGILL & HARVEY LTD.,
Thirty seven Peter Street, Manchester, 2.

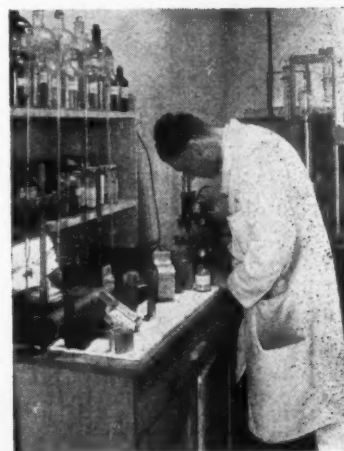


Fine Factory Facilities . . .

As shown by the above picture, Geo. W. King have a fine modern factory in the new satellite town of Stevenage. The buildings cover an area of over 127,000 sq. ft. and surrounding land of 75 acres has been acquired for future development. Up-to-the-minute methods and organisation ensure efficient and economical production which is reflected in the quality of King products. Picture on right shows a corner of the Research Laboratory and below is a section of the extensive Drawing Office.

and...
**Accurate
 Research**
plus a...

Team of Skilled Engineers



*make
 this
 fine* **KING** Product

The above facilities, plus many years' practical experience of building and allied industries, help to make King Sliding Door Gear the best of its kind. Enquiries are invited for the new "HOMESTIC" Sliding Door Gear of light alloy; eminently suitable for interior doors in dwelling houses, flats etc. Write for fully illustrated booklets and price list.

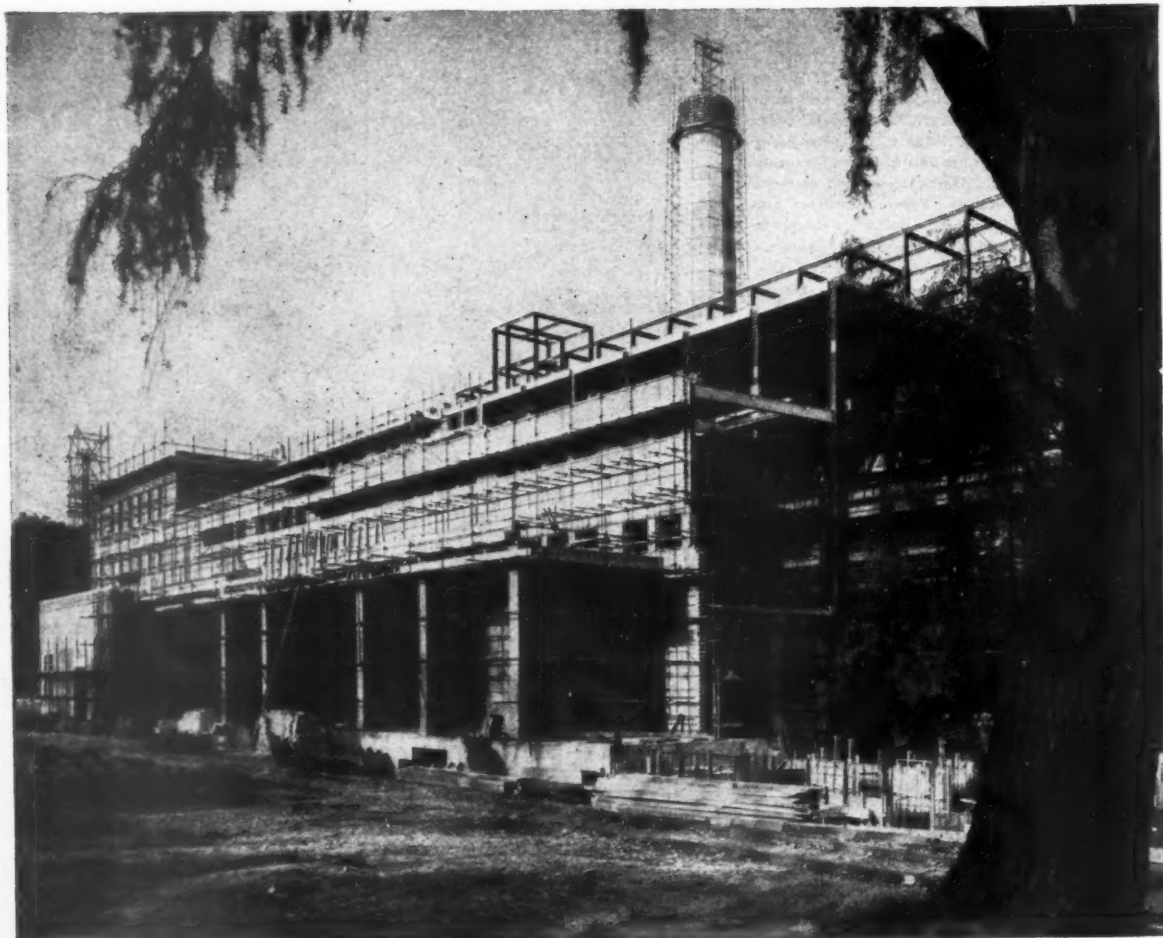


GEO. W. KING LTD. D.G.B. WORKS, HITCHIN, HERTS

★
|

Siegwart Precast Roofs offer great advantages in Power Station work where high roofs are the rule and shuttering is usually out of question

|



New Power Station,
Kingston-upon-Thames.
Consulting Engineers,
Preece, Cardew & Rider.
Consulting Civil Engineers
Coode, Vaughan-Lee,
Frank & Gwyther.

SIEGWART

PRECAST FLOORS

SIEGWART FLOOR CO. LTD.

GABLE HOUSE, 40 HIGH STREET, RICKMANSWORTH, HERTS

Telephone: Rickmansworth 2268

Branch Offices at Birmingham, Manchester and Glasgow. Works at Croxley Green, Enderby near Leicester, and Paisley

S 16/48

SERVICE in GLASS by CLARK-EATON



INFORMATION on the various types of Glass manufactured, and their applications, is available in convenient form in the Clark-Eaton Information Booklet. The purpose of this announcement is to outline Clark-Eaton service in the fashioning, processing and delivery, and/or fixing of Glass in its cut and finished form. This service may be summarised as follows:—



I. SUPPLY OF GLASS

All standard types for various building trade and other applications are cut to requisite sizes and shapes, and delivered to site, including: PLATE, SHEET, FIGURED ROLLED, CATHEDRAL, CAST, WIRED CAST, WIRED PLATE, REEDED, PRISMATIC, HEAT-RESISTING SHEET, "VITROLITE," MARMORITE, POT OPAL, "ARMOURPLATE," ANTIQUES, ROSETINT PLATE, INSULIGHT HOLLOW GLASS BLOCKS, "PLYGLASS," SLATES and TILES.

II. GLAZING

- (a) **For Shopfitting:** PLATE GLASS WINDOWS (extra large sizes a speciality), BENDS, BARLESS MITRED FRONTS, WINDOW ENCLOSURES, SHOWCASES, DOORS, TRANSOMS, FACIAS, STALLBOARDS, PILASTERS, etc.
- (b) **For Housing:** Contracts undertaken for TEMPORARY or PERMANENT HOUSING, FLATS, CONVERSIONS, WAR DAMAGE REPAIRS.
- (c) **For Commercial and other Buildings:** Windows, Roofs and Skylights in BANKS, OFFICES, FACTORIES, SCHOOLS, HOSPITALS, POWER STATIONS, POST OFFICES, etc.

III. WALL AND CEILING FACING IN GLASS

Complete installations in $\frac{5}{8}$ in. "Vitrolite," an opaque material with a brilliant fire-finished surface. Colours at present available: Black, White, Green, Green Agate, Primrose. Extensively used for FOOD FACTORIES, MILK DEPOTS, BREWERIES, CAFES, CLOAKROOMS, BATHROOMS.

"Vitrolite" can be used for CEILINGS, and there is also available for this purpose 21 oz. Pot Opal Sheet.

Black Marmorite, $\frac{1}{4}$ - $\frac{3}{4}$ in., $\frac{1}{2}$ in., and $\frac{3}{4}$ in., is suitable for PILASTERS, STALLRISERS, BAR-FRONTS, COUNTER TOPS, etc.

IV. INSULIGHT HOLLOW GLASS BLOCK INSTALLATIONS

Complete planning and fixing of this modern form of construction is undertaken. Glass blocks are suitable for PARTITIONS IN OFFICES OR INDUSTRIAL BUILDINGS, STAIRCASE AND CORRIDOR TREATMENTS, SECTIONS OF WALLS OF DAIRIES, HOSPITALS, SCHOOLS, STORES AND PRIVATE HOUSES.

High insulating value for temperature and sound. Good light transmission and fire-resisting properties.

V. GLASS PROCESSING ("Work-on Glass")

The following processes are carried out: BEVELLING, EDGE-POLISHING, BRILLIANT CUTTING, DRILLING, SILVERING, ACID EMBOSHING, SANDBLASTING, WRITING, PAINTING AND FIRING.

These processes are used to shape, to decorate, to obscure, to facilitate fixing and to produce:—

Manufactured Products—such as MIRRORS, DECORATIVE PANELS, SHELVES, SPLASHBACKS, TABLE TOPS, SHOP FITTINGS, FACIAS, SIGNS; also BANK, PUBLIC HOUSE AND OTHER WINDOWS.

VI. STAINED GLASS, LEADED LIGHTS AND COPPERLIGHTS

(a) Designs submitted for STAINED GLASS FOR CHURCH AND HERALDIC WORK. Skilled Artists on permanent staff. Every operation, including firing of colours, is completed in Clark-Eaton workshops.

(b) LEADED LIGHTS FOR DOMESTIC AND SHOP WORK can be promptly supplied.

(c) COPPERLIGHTS, Decorative or Plain to L.C.C. Fire-Resisting Specification, are manufactured in newly installed up-to-date plant.

VII. VENTILATION THROUGH GLASS

For ventilation of glass-enclosed premises, three patterns of adjustable Glass Ventilator are manufactured: CIRCULAR HIT-OR-MISS TYPE (revolving disc) with either round or pear-shaped holes; CIRCULAR SWING TYPE (bronze frame, central pivot); LOUVRE TYPE.

VIII. TECHNICAL SERVICE

(a) **Specialist Representatives**, well versed in the technicalities of glass and its applications, are always available for consultation. In view of constantly changing conditions it is advisable to discuss requirements as they arise. Clark-Eaton will always be pleased to report on the current position.

(b) **Literature.** For fuller information and data on types, applications and treatments of glass, please send for Information Booklet.

JAMES CLARK & EATON LTD.

(Amalgamating James Clark & Son, Ltd., and Eaton, Parr & Gibson Ltd.)

SCORESBY HOUSE, GLASSHILL STREET, BLACKFRIARS, LONDON, S.E.1

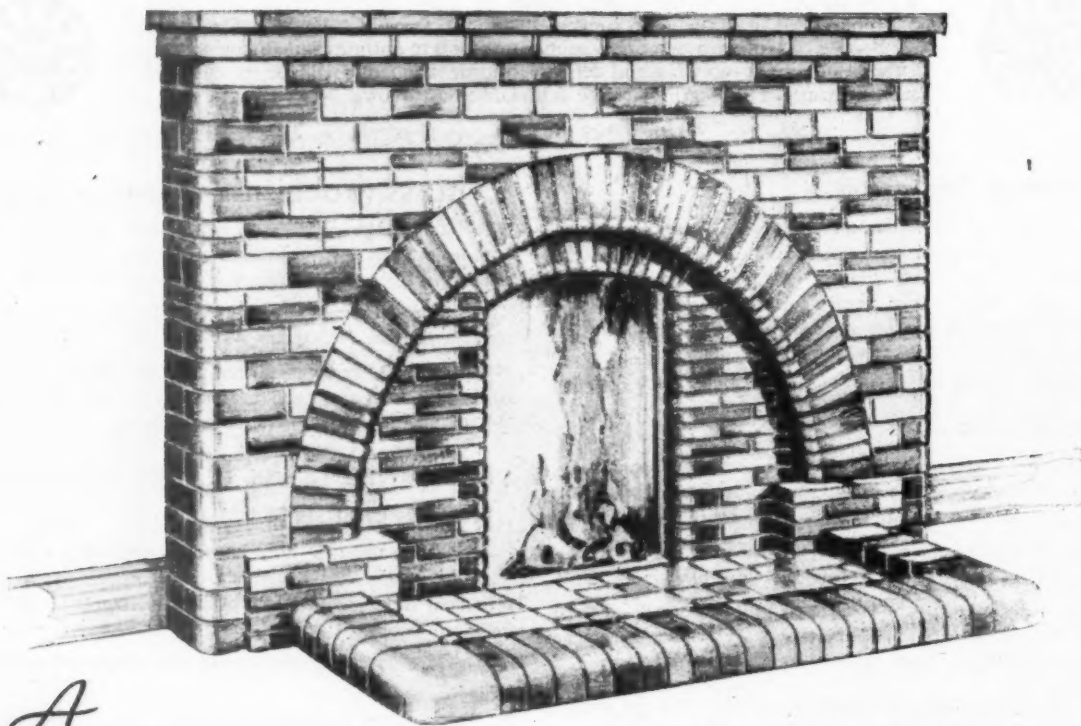
Phone: WATERloo 4611 (15 lines)

CANTERBURY: Orchard Street. Telephone: 2407

EASTBOURNE: Waterworks Road. Telephone: 3980 (2 lines)

BOURNEMOUTH: Kemp Road, Winton. Telephone: Winton 280 (2 lines) READING: Basingstoke Road. Telephone: 81681 (2 lines)

Purpose-made fireplaces



A
WHEATLY
 BRICK FIREPLACE

THE NEWCASTLE FIREPLACE

A full range of Wheatly Fireplace briquettes is now available from stock. These multicoloured sandfaced briquettes simplify the construction of purpose-made fireplaces to architects designs.




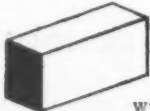

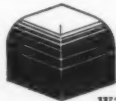
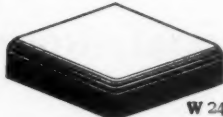
Stock designs are also available both slabbed and for assembly on the site.

WHEATLY & COMPANY LIMITED

SPRINGFIELD TILERIES · TRENT VALE · STOKE-ON-TRENT

Telephone: Newcastle (Staffs) 66251

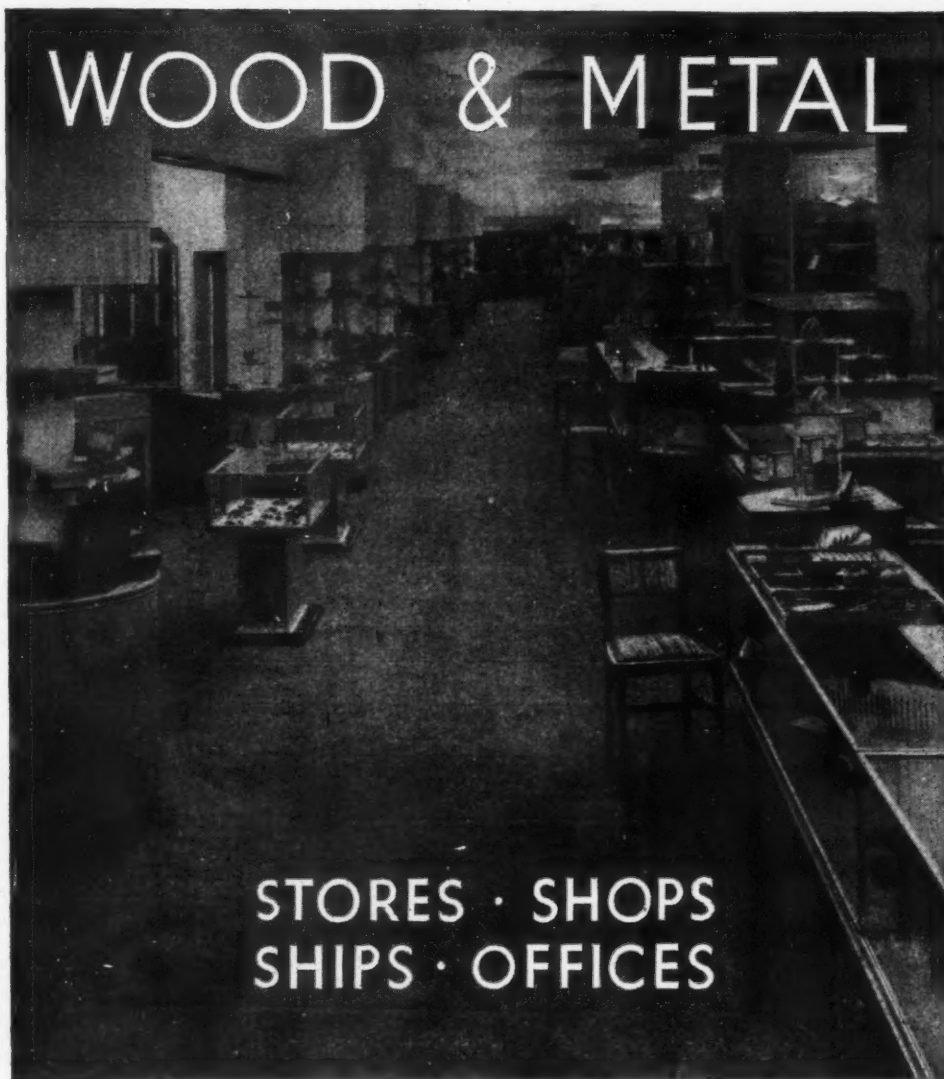
See our exhibits at the Building Centre, 9 Conduit Street, London, W.1. A copy of our recently issued list of features will gladly be sent on request

<p><i>A few of the Multi-coloured Sandfaced Briquette Patterns.</i></p>	 <p>W42</p>	 <p>W26</p>	 <p>W31</p>
 <p>W3</p>	 <p>W7</p>	 <p>W32</p>	 <p>W24</p>

MANUFACTURERS ALSO OF SINGLE LAP ROOFING TILES, RIDGE TILES (BLUE AND RED) AND FLOOR QUARRIES

Craftsmen in

WOOD & METAL



STORES · SHOPS
SHIPS · OFFICES

GEORGE PARNALL

AND COMPANY LIMITED

4 BEDFORD SQUARE, LONDON, W.C.1

INDUSTRIAL MAINTENANCE



If all else fails . . .

The Architect finds that TRETOL CHLORINATED RUBBER PAINT provides the necessary protection against acids, alkalis chemical fumes and sea-water attack. Available in attractive colours.

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

Tel.: Speedwell 4621 (5 lines)

TRETOL
**CHLORINATED
RUBBER PAINT**



VULCANITE ROOFING

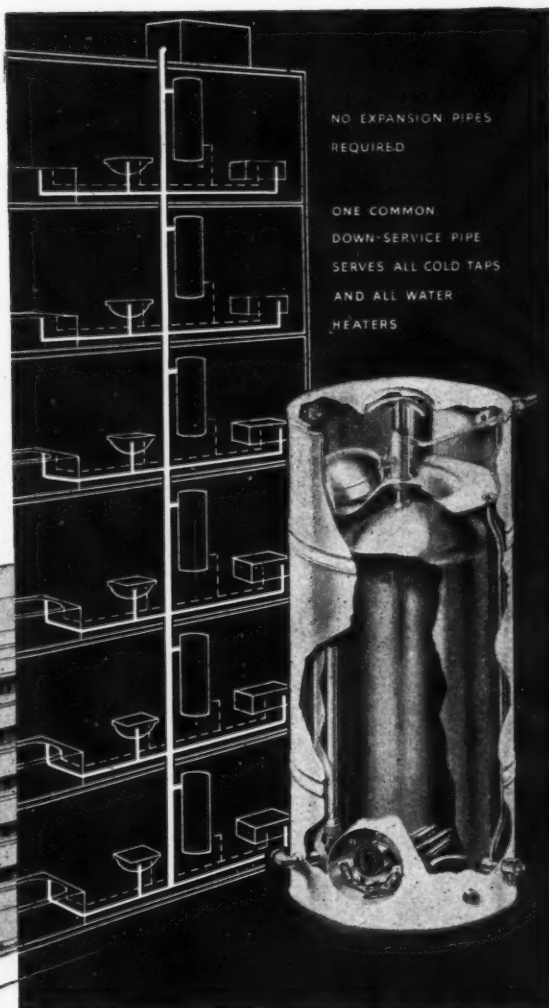
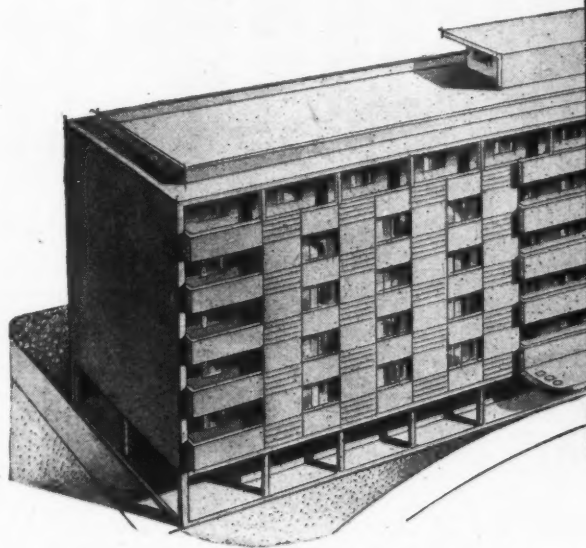
for
**EVERY TYPE
of ROOF . . .**

Original patentees of Bituminous built up roofs

VULCANITE
TRIDENT WORKS · WIGAN *Ltd*
GLASGOW · LONDON · BELFAST

These new hot water systems

*eliminate expansion pipes
and separate down-service pipes*



TO SIMPLIFY building plans and save material, Sadia engineers have designed two new water heaters especially for use in blocks of flats. One is all-electric, the other is coal-electric. In each type, the cold water is supplied to the storage heater from a self-contained ball-valve tank which is built into the unit itself.

This tank is supplied direct from the common down-service pipe which feeds the cold water taps.

As the illustration shows, this system does not require separate expansion pipes from each flat to the roof tank; furthermore, one common down-service pipe can be arranged to serve all the cold water taps in the block and the feed to the water-heaters can also be taken from this common service pipe.

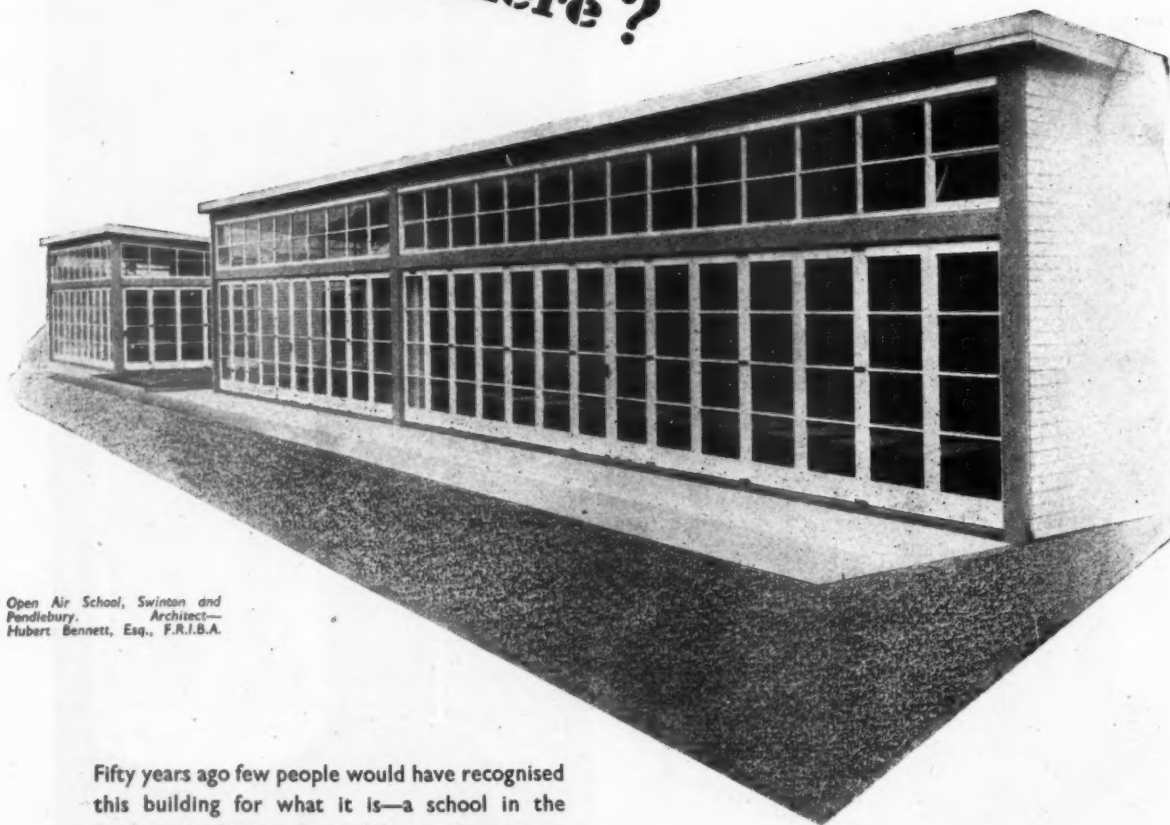
The ease and simplicity of installation and the immense savings in materials and labour will readily be appreciated by architects. Full details of both all-electric and coal-electric models will gladly be sent on request.

SADIA

HOT WATER BY
ELECTRICITY

Please write for fully descriptive leaflets to: AIDAS ELECTRIC LTD · SADIA WORKS · ROWDELL ROAD · NORTHOLT · MIDDLESEX

What goes on here ?



Open Air School, Swinton and
Pendlebury. Architect—
Hubert Bennett, Esq., F.R.I.B.A.

Fifty years ago few people would have recognised this building for what it is—a school in the modern tradition of simplicity and generous lighting. While appearance may change, certain factors remain constant, for after half a century of progress Ruberoid is more firmly established than ever as the name for 'reliable roofing'.

RUBEROID ROOFING



Contract Departments located in London, Birmingham, Manchester, Newcastle, Edinburgh, Glasgow, and Belfast, undertake the supply and fixing of Ruberoid Roofing on any scale, large or small, anywhere in the British Isles. Estimates free on receipt of particulars.

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

R.2

THE RUBEROID CO. LIMITED, 1, COMMONWEALTH HOUSE, 1-19 NEW OXFORD STREET, LONDON, W.C.1.

Ascot Town Plan Summaries

**Ascot have now
summarised
19 Town and Regional
Planning Reports
and have distributed
7,500 copies of each**

*The Ascot Town Plan Summaries
provide in concise form for the busy professional
man a comprehensive guide to the
reconstruction of the major towns of England.
That more than 7,500 copies have
already been distributed is an
indication of their popularity. In accordance
with Ascot policy for many years, we
shall be pleased to send copies of these and
subsequent summaries to all those
applying on professional or official notepaper.*

- No. 2a. GREATER LONDON
- " 2b. COUNTY OF LONDON
- " 2d. THE CITY OF LONDON
- " 3a. MANCHESTER AND DISTRICT
- " 3b. CITY OF MANCHESTER
- " 4. CITY OF NORWICH
- " 5. EXETER PHOENIX
- " 6. PLYMOUTH
- " 7. NEWCASTLE-UPON-TYNE
- " 8. COUNTY BOROUGH OF MIDDLESBROUGH
- " 9. DUBLIN
- " 10. MERSEYSIDE
- " 11. GLOUCESTERSHIRE
- " 12. BELFAST
- " 13. DURHAM
- " 14. KNUTSFORD
- " 15. EAST SUSSEX
- " 16. KINGSTON-UPON-HULL
- " 21. PRESTON



THE Masticon PROCESS

FOR THE MAINTENANCE, REPAIR, RECONSTRUCTION, AND WATERPROOFING OF INDUSTRIAL ROOFS

A waterproofing Compound, black in colour, made with a base of Canadian asbestos fibre. When laid approximately $\frac{1}{4}$ in. thick—it provides a durable and thoroughly waterproof covering to any type of roof surface. MASTICON remains permanently keyed to any roof surface, is unaffected by atmospheric conditions and is the ideal waterproofing material since it remains pliable and does not become brittle and break away.

MASTICON is manufactured in many grades e.g. :—

BEDDING MASTICON for bedding in roofing glass.

GLAZING MASTICON for top pointing all types of glazing bars.

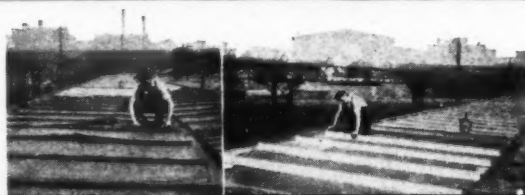
STANDARD MASTICON for covering defective slates, diamond asbestos tiles and treating seams, laps and bolt heads on corrugated iron and asbestos.

ASPHALTIC MASTICON for covering all types of flat roofs and gutters. This is a special consistency to allow of normal light foot traffic.

MASTICON EMULSION for defective felt roofing.

FLEXOLAC (MASTICON in liquid form) for the protective treatment of corrugated iron surfaces and external metal structures.

We have our own permanent staff of skilled labour in your district to carry through any glazing or roofing contract.



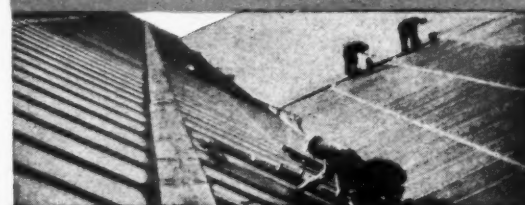
ZINC ROOFS AT KING'S CROSS, LONDON



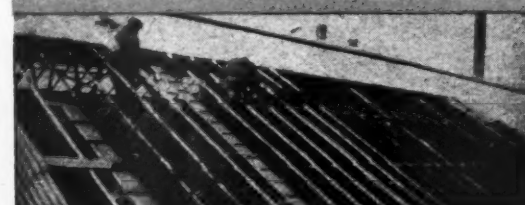
DIAMOND ASBESTOS TILES



ASPHALT ROOFS



GLAZING AND CORRUGATED IRON ROOFS

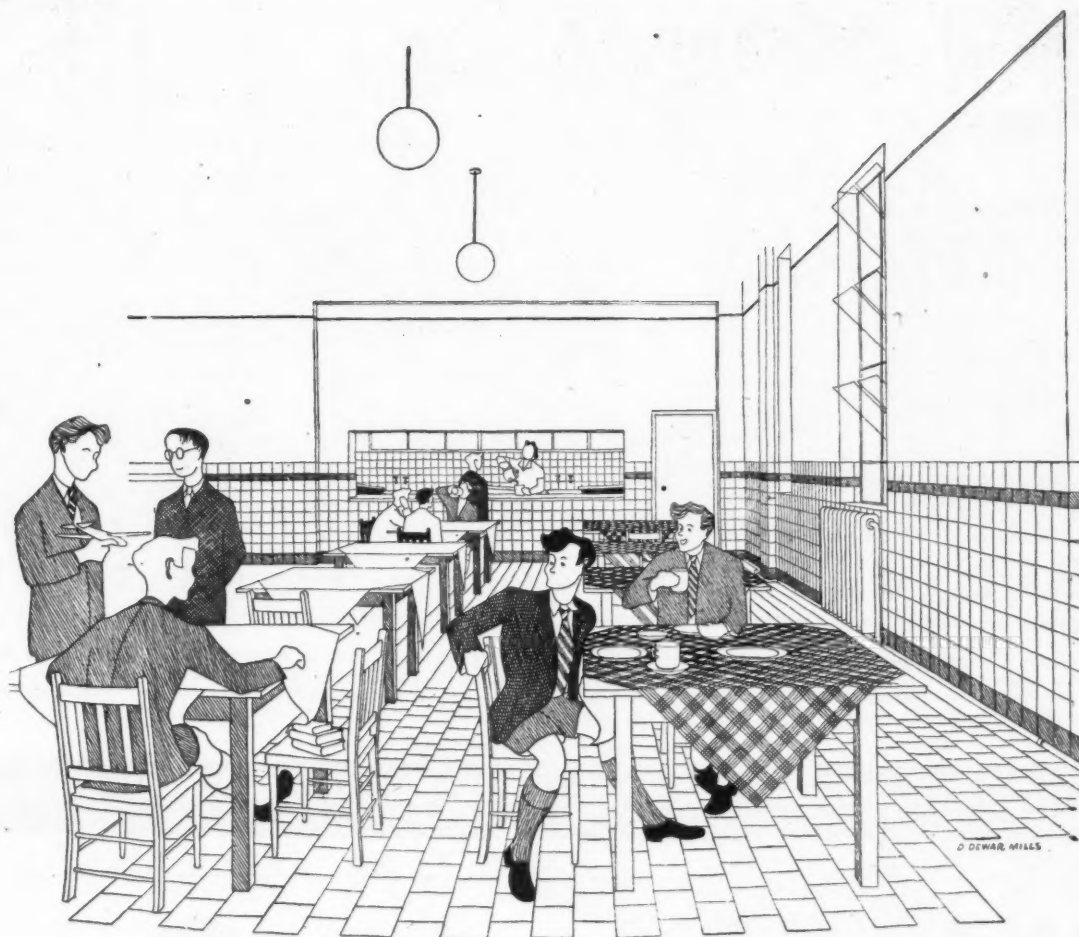


GENERAL RECONSTRUCTION

INDUSTRIAL ENGINEERING LTD.

Head Offices : MELLIER HOUSE, ALBEMARLE ST., LONDON, W.1

Telephone : REgent 1411 (4 lines). Cables : Dustickon, Piccy, London



Architect : Gerald E. Burgess, Esq., F.R.I.B.A. Dartford. Contractors : Messrs. H. Friday & Sons, Erith.

Tiling for St. Vincents School, Dartford

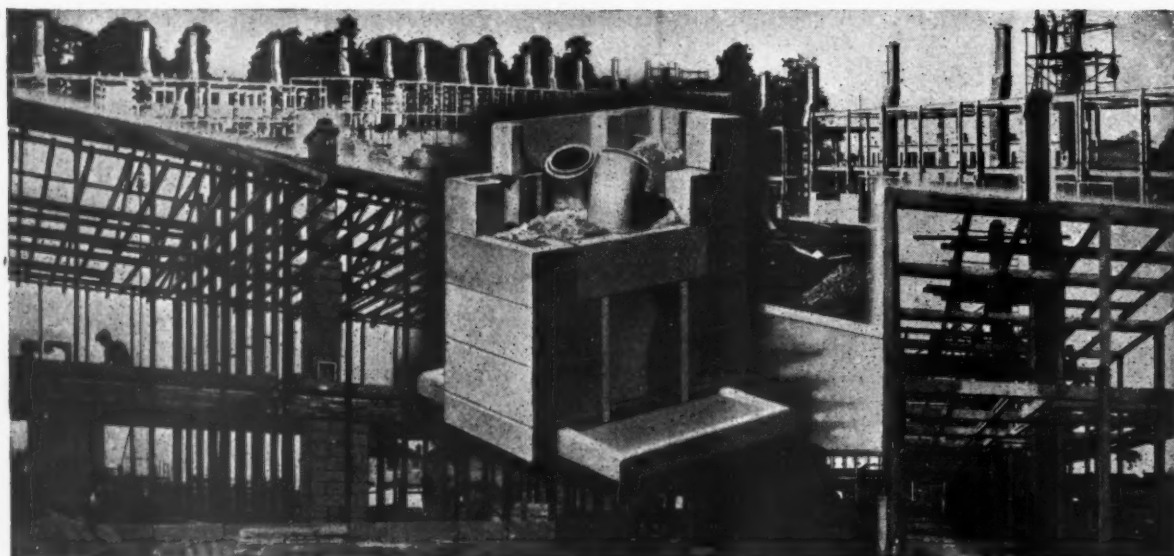
made and fixed by **CARTER**

Other current tiling contracts for SCHOOLS include:

*Junior School, Clevedon, Somerset
Bramcote Hill School, Nottingham
Arne-Stowborough School, Dorset
High School for Girls, Stamford
Junior School, Essenden, Herts
Junior School, Letchworth, Herts
The Herbert Carter School, Dorset
Beeston Rylands, School, Nottingham
School at Lyme Regis, Dorset*

*Bestwood School, Nottingham
The Prince Regent School, West Ham
Queensway School, Derby
Rykneld School, Derby
The New Modern Secondary School, Stevenage
Ulverscroft Road School, Coventry
Junior School, Solihull
Shebbear College, Nr. Bideford*

CARTER & CO. LIMITED · POOLE AND LONDON



TRUE FLUE the speedily erected FLUE

These photographs show a few of the building estates using the TRUE-FLUE system, which is a patented method of constructing domestic flues of correct design with the minimum of labour.

The chimney breasts may be constructed with the original form of concrete block which can be speedily erected independently of the remainder of the building structure; alternatively our system may be incorporated in the usual brick construction.

The Lintel and "gather-over" immediately above the fireplace are designed as one streamlined unit which eliminates the usual reinforced lintel or arch and ensures a trouble-free flue. This unit can be used with obvious advantages with any type of construction.

For full details write for our descriptive booklet

TRUE FLUE LTD., CONVECTOR HOUSE, ACACIA ROAD, ST. JOHN'S WOOD, N.W.8.
TELEPHONE: PRIMROSE 7161/2

WATCO Wood Floor Preserver makes Wood Floors last longer

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

strengthens the Floor checks Expansion and Contraction

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

saves Expense and Labour

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

Explanatory Price List post free on request



OTHER WATCO PRODUCTS

WATCO CONCRETE HARDENER

Renders concrete floors permanently 100% non-dusting.

WATCO TIMBER GUARD

For protection of building timbers against Wood Borers.

"GRANALA"

Cement waterproofer and hardener for mass concrete and cement rendering.

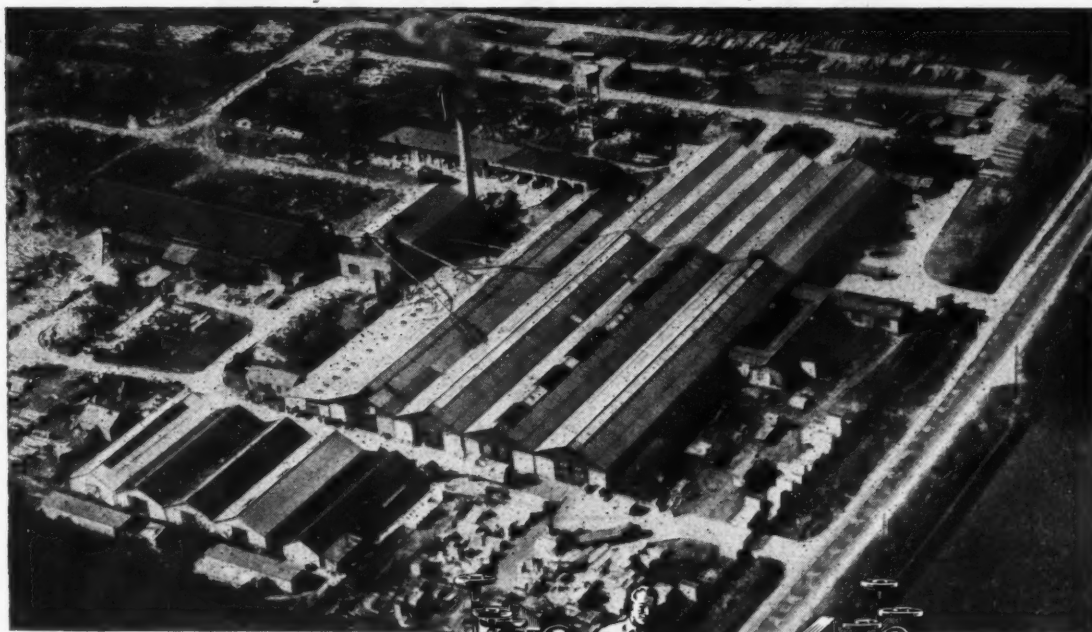
WATCO CONCRETE FLOOR PAINT

An economical and effective floor finish in a variety of colours.

WATCO TERRAZZO DRESSING

An effective stain preventive medium.

WATCO (SALES) LTD 56 BUCKINGHAM GATE SW1 Telephone: VICTORIA 0623



*Scotney production
resources and*

JOINERY for M.O.H TYPE HOUSES

Scotney's "Factory in the Fields" is one of the most highly mechanised Joinery Works in the Country. Here men and machines are geared to the exacting task of mass producing joinery for all types of Ministry of Health permanent prefabricated Houses. We are specialists in the manufacture of complete sets of joinery for the Airey type of Rural House and we can give you exceptionally keen quotations and very speedy delivery. Why not see how the Scotney Organization can save you time and money?



Let **SCOTNEY** *quote*



TOM M. SCOTNEY, LTD., LONDON ROAD, ST. IVES, HUNTS. TEL: ST. IVES 3168 (3 LINES)

DURABLE

ASPHALTIC

FLOORING, ROOFING & DAMPCOURSE WORK

TO ALL B.S.I. SPECIFICATIONS

HARDWEARING
—
ATTRACTIVE
—
SANITARY

SPECIFIED FOR ALL TYPES OF COMMERCIAL,
INDUSTRIAL, SCHOLASTIC AND
DOMESTIC PROJECTS

DUST
—
DAMP AND
VERMIN PROOF

CONTRACTORS TO THE AIR MINISTRY, ADMIRALTY, RAILWAY EXECUTIVE,
BUTLINS HOLIDAY CAMPS, L.C.C., ETC., AND OVER ONE HUNDRED
BOROUGH AND URBAN COUNCILS

KIMBERLEY HOUSE,
14/17 HOLBORN
VIADUCT,
LONDON E.C.1.

Durable Asphalt Co. Ltd.

PHONES:
CITY
1456/7, 4553 6271

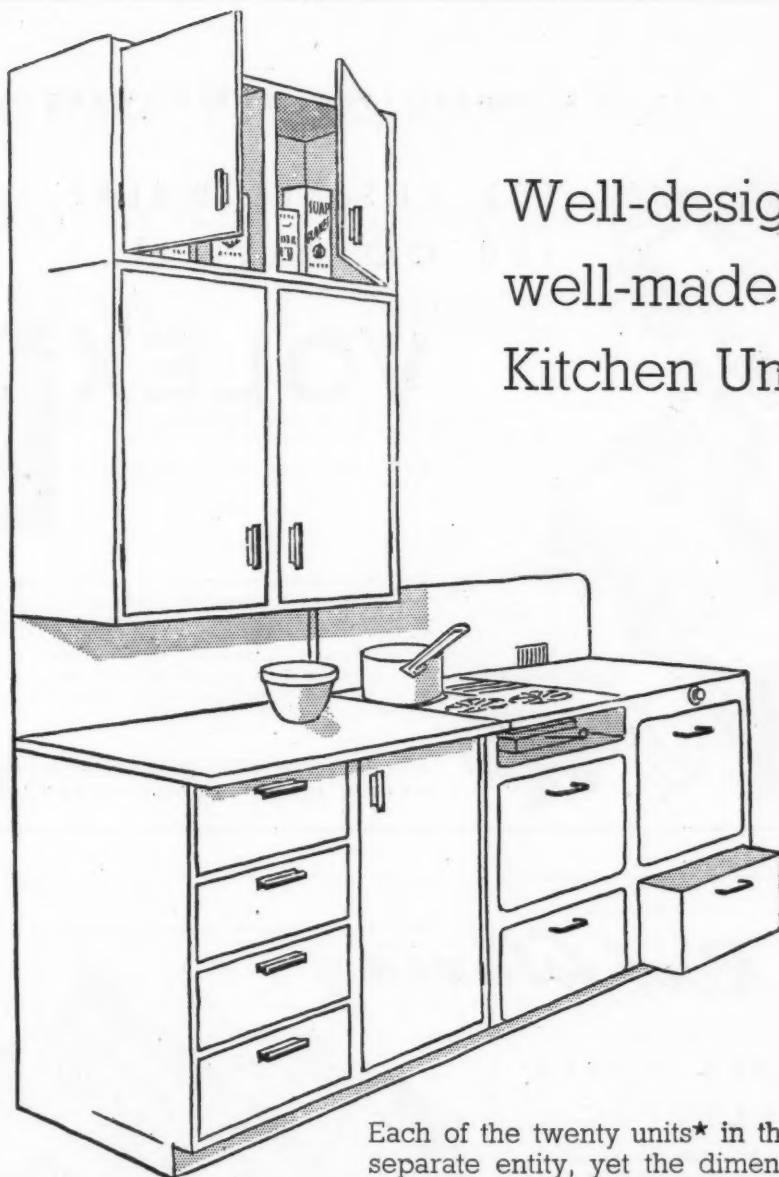
*Unobtrusive Protection
is Afforded by*

DREADNOUGHT FIREPROOF DOORS



*They suit All Styles
of Modern Interiors*

DREADNOUGHT FIREPROOF DOORS 1930 LTD. 26 VICTORIA ST. WESTMINSTER S.W.1.



Well-designed,
well-made
Kitchen Units

★
To supplement this range Sadds have designed a special sink unit to take a standard size stainless steel sink with single or double draining boards. Write for complete catalogue of kitchen units.

Each of the twenty units★ in the EJMA range is a separate entity, yet the dimensions are carefully related so that any number can be combined together in a limitless variety of ways to make the best use of the space available.

Made by precision methods from selected materials these units maintain the high standard of quality for which Sadd's joinery is well-known.

The selection illustrated is specified by the Ministry of Health for Airey Houses. Joinery and Kitchen Units for these houses are one of our specialities.

EJMA is the certification trade mark of the English Joinery Manufacturers Association.

JOHN SADD & SONS LTD.

STATION ROAD WHARF

MALDON

MALDON 131 (6 lines)

ESSEX

LONDON OFFICE: ALDWYCH HOUSE, W.C.2

CHAncery 7214



HOT AIR WHERE YOU DON'T WANT IT.

FOR HOT AIR WHERE
YOU DO WANT IT...

VOLEX

REGISTERED TRADE MARK

HOT AIR SYSTEM VENTILATES
AS IT HEATS



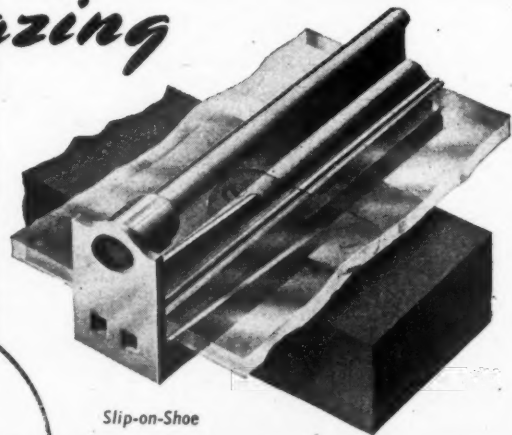
The ideal atmosphere in which to work or relax—an even temperature with draughtless ventilation—is assured by installing the VOLEX Warm Air Heating and Ventilating System. Summer and Winter, VOLEX provides a constant supply of fresh warm air wherever it is required. In factories and workshops, shops and offices, public buildings and the home, VOLEX is recognized as the most efficient modern system of heating and ventilation.

SOLE MAKERS: T. E. SALTER LTD., BLOOMFIELD
TIPTON, STAFFS. TELEPHONE: TIPTON 1657/1658

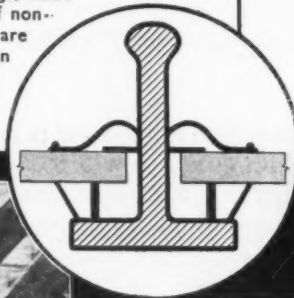
Patent Roof Glazing

DESIGNED AND FITTED
BY SPECIALISTS...

Durability is obviously an important requirement of patent glazing. "Standard" roofs erected 30/40 years ago still give good service. All shoes, stops and fixing plates for our lead-clothed bars are substantial one-piece brass or copper castings, fixed with stout bolts and screws of non-ferrous metal. Steel cores are sheathed in lead after bitumen treatment. Glass is bedded on twin supports and secured by double lead wings.



Slip-on-Shoe



'STANDARD'
Lead-clothed
BULB SECTION STEEL BAR

Full details on request.

THE
STANDARD PATENT GLAZING CO LTD

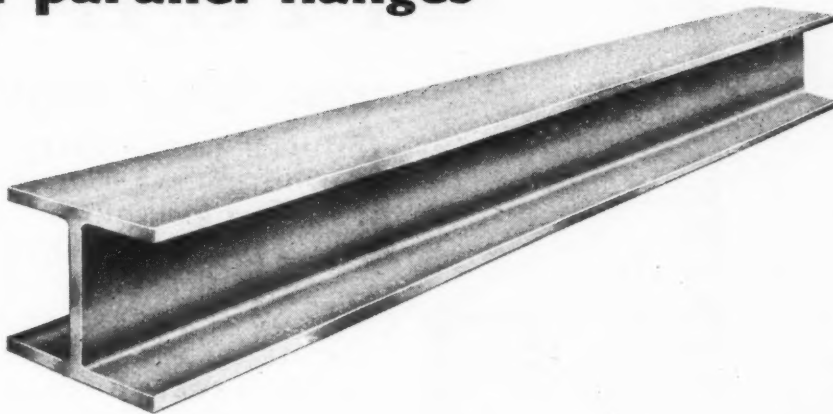
Phone DEWSBURY 1213-4 DEWSBURY & PROVINCIAL BRANCHES

Cargo Fleet Iron Co. Ltd.,

Sole British Manufacturers of

BROAD FLANGE BEAMS

with parallel flanges

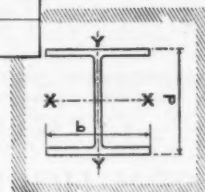


Broad Flange Beams British Rolled by Cargo Fleet can effect important economies in time, money and weight when used as Stanchions, Floor Girders, Crane Runways, etc. Are you taking full advantage of this recent development in British steelwork practice? Full details and advice gladly sent on request.

DIMENSIONS AND PROPERTIES												
Size d x b inches	Wt., Lbs. per Ft. -W-	Area in sq. ins.	Web Ratio Depth -W-	Thickness		Moment of Inertia - I		Modulus of Section - Z		Radius of Gyration - R.G.		Zxx Wt. (Lbs.) x Depth (ins.) x 1000
				Web	Flange	X-X	Y-Y	X-X	Y-Y	X-X	Y-Y	
6 x 6	25	7.35	19.35	.31	.46	47.24	16.76	15.75	5.59	2.53	1.51	105.0
7 x 7	34	10.00	20.00	.35	.55	88.15	31.48	25.19	9.00	2.97	1.77	105.8
8 x 8	45	13.23	20.50	.39	.64	152.76	55.02	38.19	13.75	3.39	2.04	106.0
10 x 10	62.63	18.42	23.25	.43	.72	338.97	119.94	67.79	23.98	4.79	2.54	108.2
12 x 12	82.55	24.28	25.53	.47	.79	652.00	228.00	108.60	38.00	5.18	3.07	109.6
14 x 12	100	29.41	25.45	.55	.92	1048.40	265.20	149.80	44.21	5.97	3.00	107.0
16 x 12	110	32.35	29.10	.55	1.00	1504.60	288.30	188.10	48.05	6.82	2.99	106.8
18 x 12	122	35.88	30.50	.59	1.08	2094.50	311.40	232.70	51.90	7.64	2.95	106.0
20 x 12	135	39.71	31.746	.63	1.16	2808.00	334.60	280.80	55.78	8.41	2.90	104.0
22 x 12	150	44.12	33.84	.65	1.28	3768.00	368.70	342.50	61.46	9.24	2.89	103.8
24 x 12	165	48.53	34.28	.70	1.36	4857.00	393.20	396.40	65.53	9.90	2.85	100.1

Cargo Fleet Iron Co. Ltd.

Steelmakers and Constructional Engineers, Middlesbrough, Stockton & London.





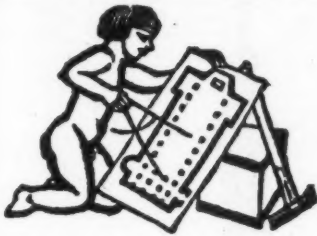
HOPE'S DOOR FRAMES

now being supplied to:

BIDDULPH URBAN DISTRICT COUNCIL
CARNFORTH URBAN DISTRICT COUNCIL
CITY OF BIRMINGHAM CORPORATION
BURNHAM-ON-CROUCH URBAN DISTRICT COUNCIL
THE BOROUGH OF CAMBRIDGE
CITY OF EXETER CORPORATION
CITY OF GLASGOW CORPORATION
CITY OF LIVERPOOL CORPORATION
CITY OF NEWCASTLE-UPON-TYNE CORPORATION
CITY OF PLYMOUTH CORPORATION
CITY OF YORK CORPORATION
COUNTY BOROUGH OF BARROW-IN-FURNESS
COUNTY BOROUGH OF WEST BROMWICH
COUNTY BOROUGH OF WEST HAM
COUNTY BOROUGH OF DERBY
ELHAM RURAL DISTRICT COUNCIL
HARROGATE CORPORATION
ISLE OF ELY COUNTY COUNCIL
KENT COUNTY COUNCIL
LLANDILO RURAL DISTRICT COUNCIL
MIDDLESEX COUNTY COUNCIL
NEWCASTLE-UNDER-LYME RURAL DISTRICT COUNCIL
NORTHAMPTON RURAL DISTRICT COUNCIL
STAFFORDSHIRE COUNTY COUNCIL
THINGOE RURAL DISTRICT COUNCIL
WEST LANCASHIRE RURAL DISTRICT COUNCIL
WILLENHALL URBAN DISTRICT COUNCIL

SEND FOR CATALOGUE NUMBER 231
HENRY HOPE & SONS LTD., SMETHWICK, BIRMINGHAM
AND 17 BERNERS STREET, LONDON, W.1

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



DIARY FOR NOVEMBER DECEMBER AND JANUARY

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

LONDON. *Danish Art Exhibition.* At the Victoria and Albert Museum, S.W.7. (Sponsor, Victoria and Albert Museum.) UNTIL JAN. 2

Exhibition: Design for a University Theatre. At the Arts Council, 4, St. James's Square, S.W.1. (Sponsor, A.C.G.B.) Nov. 12-24

Public Health and Municipal Engineering Congress and Exhibition. At Olympia. (Sponsor, Public Health Congress Council.) Nov. 15-20

Exhibition of Members' Sketches. At the AA, 34/6, Bedford Square, W.C.1. (Sponsor, AA.) UNTIL NOV. 19

International Housing Exhibition. At the Empire Hall, Olympia. UNTIL NOV. 18

Prof. S. J. Davies. *Heat Pumps and Thermal Compressors.* A series of four lectures at King's College, London. (Sponsor, King's College, London.) At 5.30 p.m. Nov. 11, 18, 25

A Series of Papers on Industrial Design. Nikolaus Pevsner. *Design in Relation to Industry through the Ages.* Nov. 24. M. Hartland Thomas. *Industrial Design and the Engineering Industries.* Dec. 15. Milner Gray. *The Industrial Designer and Consumer Goods.* Jan. 19. Gordon Russell. *The Industrial Designer's Responsibility.* Feb. 2. Robin Darwin. *The Training of the Industrial Designer.* Feb. 16. John Gloag. *British Industrial Design and World Markets.* March 2. At the RSA, John Adam Street, W.C.2. (Sponsor, RSA.) All meetings begin at 2.30 p.m.

Sir Malcolm Trustram Eve. *The Central Land Board's Policy.* At the ICE, Great George Street, S.W.1. (Sponsor, TCPA.) 6.15 p.m. Nov. 15

Hartlepool's Planning Exhibition. The Max Lock Group's planning proposals for Hartlepool. At the Planning Centre, 28, King Street, W.C.2. Nov. 15-30

Gilbert McAllister, M.P. *Gaps in the Planning Pattern.* At the Planning Centre, 28, King Street, W.C.2. (Sponsor, TCPA.) 6.15 p.m. Nov. 17

O. Bondy. *Welding in Constructional Engineering.* At the Polytechnic, Regent Street. (Sponsor, The Institute of Welding—North London Branch.) 7.30 p.m. Nov. 18

Course in Colour and Lighting in Factories and on Machines. At the RIBA, 66, Portland Place, W.1. (Sponsor, CID.) Nov. 24-26

R. Gordon Brown. *A New Form of Architectural Education.* At the AA, 34/6, Bedford Square, W.C.1. (Sponsor, AA.) 7.45 p.m. Nov. 24

PROVINCES. *Allied Ironfounders' Exhibition Train.* Schedule of its provincial tour: Hull, until Nov. 13, Hull (Paragon) Station, Milk Dock. Leeds, Nov. 15-20, Leeds City South Station, No. 14 Platform. Bradford, Nov. 22-27, Bradford (Forster Square) Station, No. 4 Platform. Middlesbrough, Nov. 29-Dec. 4, Middlesbrough Station, West End Dock. Newcastle-on-Tyne, Dec. 6-11, Newcastle-on-Tyne (Central) Station, West End Dock. Edinburgh, Dec. 13-18, Edinburgh (Waverley) Station, No. 5 Platform. Glasgow, Dec. 20-Jan. 1, Glasgow (St. Enoch) Station, No. 12 Platform.

COMPETITIONS

Layout of Southport Pleasureland. Premiums: £250, £100, and £75. Further information from Southport Publicity and Attractions Committee.

ENTRIES BY NOV. 30

N E W S

THURSDAY, November 11, 1948
No. 2805 VOL. 108

News	435
The Plan and the Public	436
This Week's Leading Article	437
Astragal's Notes and Topics	438
Rotterdam Building Centre	440
In Parliament	440
Housing in Paddington. Designed by Tecton	441
Housing for Mysore State, India. By Structural and Mechanical Development Engineers. Architectural Consultant: A. F. Hare	445
Exhibition Stand at Olympia. By Design Research Unit	448
Information Sheets :	

29.J3 Iron Fireman Stokers: Feeding sectional boilers up to 825,000 B.T.H. U/HR... .. .	To face page 448
43.E11 'Aluplex' Window type Package Kitchen and Sink Units... .. .	
Societies and Institutions	449
Technical Section :	
Information Centre	451
Prices. By Davis, Belfield and Everest, Chartered Quantity Surveyors	454

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

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

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

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



The plans for the Rotterdam Building Centre were illustrated in the JOURNAL earlier this year, and photographs of the progress of the work are on page 440 of this issue. The photograph above shows a party of visiting architects who recently inspected the work with Mr. F. R. Yerbury, Director of the London Building Centre. They are, left to right, Professor Frankse Hora (Brno), Dr. Cederström (Stockholm), Mr. J. A. Blydesteyn (Holland), Mr. J. Van Ettinger (Director of the Bouwcentrum), and Mr. F. R. Yerbury.



TRAFALGAR DAY 1948

Scene at the opening of the memorial fountains to,
and unveiling of the memorial bronze busts of,
Admirals of the Fleet Lord Jellicoe and Lord Beatty

by

H.R.H. the Duke of Gloucester

Architect: Sir Edwin Lutyens R.A.

Sculptors: Charles Wheeler, R.A.

William McMillan, R.A.

General Contractors to the Ministry of Works

HOLLOWAY BROTHERS
(LONDON) *Building and Civil Engineering Contractors* LIMITED

MILLBANK

WESTMINSTER

*(at whose 'Nine Elms Stone Masonry Works' the Portland Stone for the new inner basins
of the Fountains was prepared)*

From AN ARCHITECT'S Commonplace Book

BUILDING AND SCIENCE. [*From Man the Builder, by Richard Coppock and Harry Heumann (St. Botolph Publishing Co., Ltd.).*] To build is man's second oldest activity: after food, shelter takes precedence, for without shelter early man's precarious existence would either have ended or he might not have emerged as man. Building in its widest sense is any kind of construction devised for man's shelter—from the canoe to the corvette as well as from the crude mud hut to the modern mansion. Indeed, to build is man's second nature. Other animals, too, fashion their homes; their efforts, while fitting to the occasion, meet the purpose required, but do not go beyond necessary convenience. Since his emergence from the shelter of the natural cave, man with his own hands—reinforced later by more effective instruments—has devised means of protection, first in a crude, strictly utilitarian manner, and later he imbued his home with the sense of his own artistry. The temporary metal kennel or box of the 20th century need not be regarded as typical of the age. It is intended to serve a functional purpose, to represent a purely "scientific" approach to the problem of minimising the inconvenience of people whose workaday lives are spent at home.

★★★

A DEVELOPMENT PLAN FOR THE WEST MIDLANDS has now been drawn up.

The plan, which covers the areas of Warwickshire, Worcestershire and South Staffordshire is the work of Sir Patrick Abercrombie and Mr. Herbert Jackson. It has now been submitted to the various local authorities concerned for their comments. Unlike the Greater London Plan, the West Midlands Plan does not propose the creation of any new towns, but it does advocate the establishment of a green belt and considerable decentralization to areas from which daily travel to the main conurbation will be unlikely.

The population figures on which the plan is based have been calculated on the assumption that the population cannot be kept static. In recent years the population of the West Midlands has been steadily growing both as the result of natural increase and an influx from other parts of the country. It is pointed out that it will take four or five years before any effective measures can be taken to check or reverse the inward flow of people. So for purposes of calculation the plan relies upon the estimated population figures for 1962.

The plan discusses at some length the problem of acceptable densities of population. For open development a standard of 333 acres of residential area and 70 acres of open space, exclusive of school playing fields, for each 10,000 persons, is adopted. For central areas, the standard is 83 acres of residential area and 40 acres of open space for each 10,000 persons, again exclusive of school playing fields and factory sports grounds.

In making detailed proposals for the redistribution of population and industry, the plan advocates the decentralization of industry as far as possible along the lines that have been spontaneously followed in the past, and cites the move of the Cadbury factory to Bournville as an example of this. The effects of such decentralization upon the distribution of population are envisaged to include a decrease in the populations of Birmingham and Wolverhampton, and an increase for Bromsgrove and Rugby. The plan states that redevelopment without decentralization would mean accepting a "sub-standard and grossly extravagant solution, the only merit that might be seen in it being that one need not adopt a positive policy, and a certain amount of dislocation in the fairly near future could be deferred."

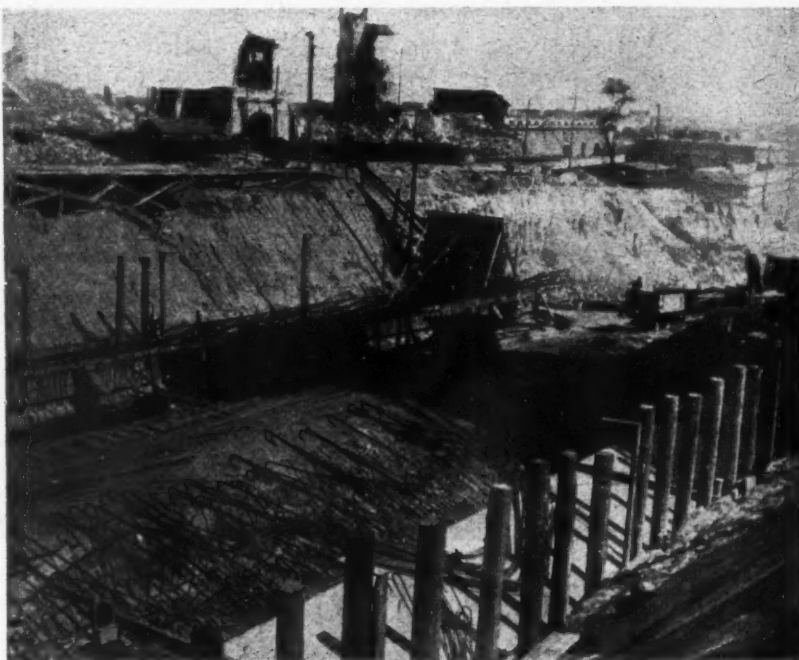
Improved communications by road and rail both to London and within the West Midlands area are proposed, together with a new principal regional airport at Hockley Heath.

A certain degree of preferential treatment

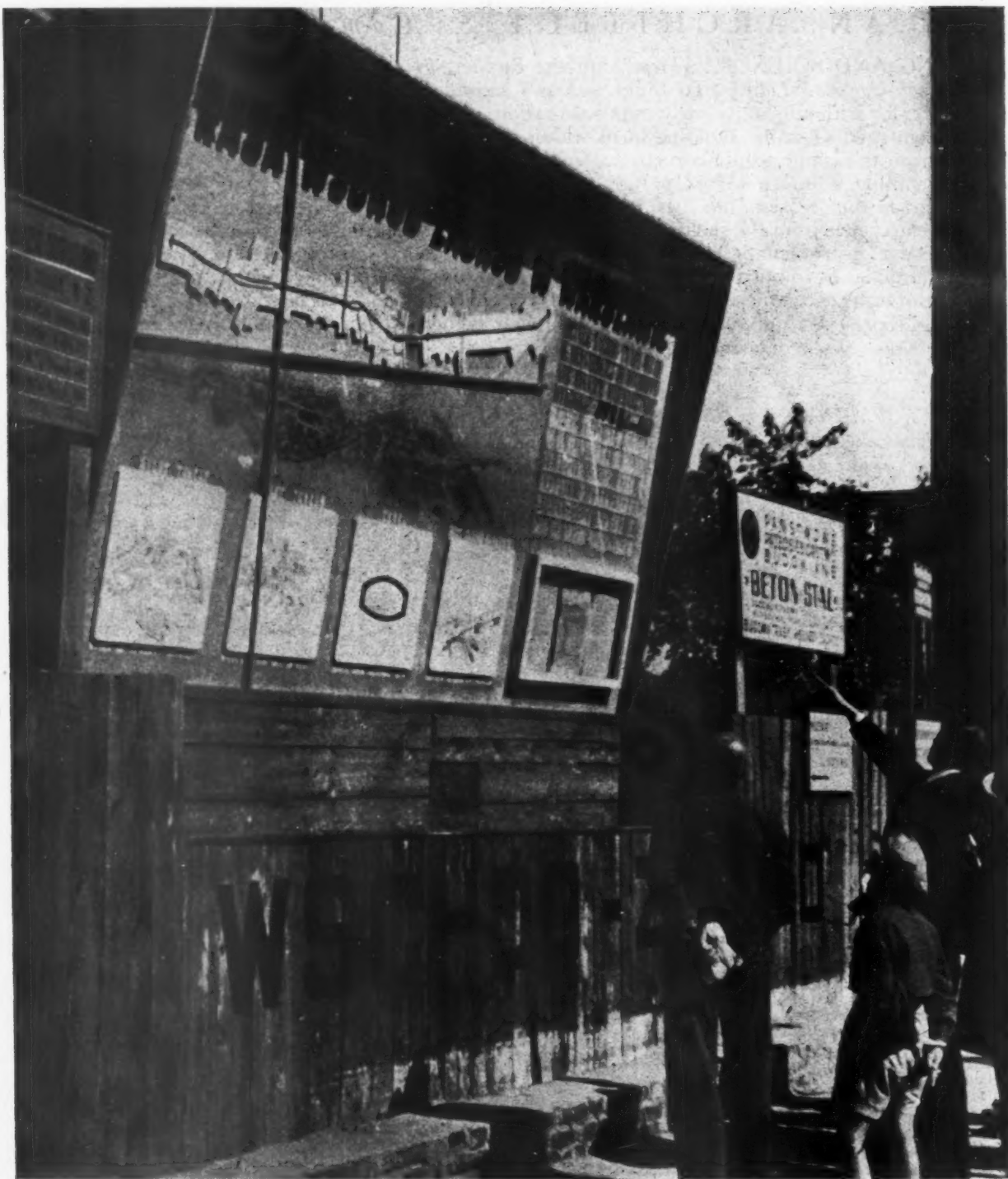
for the Black Country is recommended, of which one form would be to allow the district to be slightly ahead of other areas in the construction of better residential districts. As the plan says, "one cannot think of the other towns resenting this small amount of favouritism."

The Minister of Health has made two new appointments to his CENTRAL HOUSING ADVISORY COMMITTEE.

They are: Mr. J. W. Laing, a director of John Laing & Son, Ltd., building and engineering contractors, and Mr. P. L. Leigh-Breese, F.I.H.S.G., Secretary of the Guinness Trust. They replace Sir George Burt and Sir David Smith, whose terms of office have expired. The following members have been re-appointed for a further term of three years: The Dowager Marchioness of Reading, G.B.E.; Sir Harold Bellman, M.B.E., J.P.; Miss Jennie Lee, M.P.; Mrs. B. Wilson, J.P.; Mr. Henry Brooke; Mr. W. R. Allerton; Mr. C. W. Gibson, M.P.; Mr. Hugh Molson, M.P.; Mr. Colin Campbell, O.B.E.; Mr. S. G. Dilnot, Alderman; The Rev. Charles Jenkinson; Mr. R. Coppock, C.B.E.; Mr. L. De Soissons, O.B.E., A.R.A., F.R.I.B.A., M.T.P.I., and Mr. C. Douglas Calverley.



Work in progress on Warsaw's new tunnel, which is to provide an east-west traffic artery passing under the reconstructed Old Town and crossing the Vistula by a new bridge now being built on the foundations of one of the bridges destroyed during the war. The tunnel proper (as distinct from its road approaches) is 200 metres long and will take five lines of traffic. Work on the site was only begun last February, but it is expected that the reinforced concrete structural shell will be completed next month. The interior work can then continue sheltered from the winter weather, though the new bridge must be finished before the ice on the river begins to move in February. See also page 436 of this issue.



The Plan and the Public

Successful planning depends on the public knowing and understanding what is being done on its behalf. We have seen, at Stevenage and elsewhere, what happens when the public is kept in the dark and therefore comes to regard planning as something imposed by officials from outside, instead of an enterprise in which everyone can share. In Poland they have not made the same mistake. The plans for the rebuilding of Warsaw, for example, have been constantly kept before the public by means of a weekly periodical and in other ways. The

photograph above shows an information display that stands permanently alongside the site of the new east-west tunnel which is being constructed beneath the Old Town to improve the city's communications. It is the most ambitious of the various town-planning projects that form part of Warsaw's reconstruction programme (see also page 435). The maps explain the project in detail, and the people of Warsaw—and especially the men working on the tunnel—follow with interest the progress notices that are pinned up in the frame in the bottom right-hand corner.

★
A plea for HIGHER HOUSING SUBSIDIES for local authorities has been made at a meeting of the Convention of Burghs in Edinburgh.

The meeting decided to remit the matter to the Housing Committee for consideration and report. Provost Daniel Morris, Greenock, who raised the subject, said that Greenock had consulted the other burghs on the matter, and so far only two had failed to support them. He maintained that the Secretary of State should be asked to review the subsidies in the light of rising building costs. In Greenock they found it impracticable to charge an economic rental when four-apartment houses were now costing £1,886 each. Even if they doubled the rent from £26 to £52 they would still have a deficit of 10s. 4d.

Provost Charles Minihan, Port Glasgow, said that the Convention had been dealing with this matter for some time, trying to get some understanding on costs, and at the present time the financial officers of the Convention were meeting the officers of the Department of Health to see if agreement on costs could be reached.

"Places like Greenock, Gourock, and Port Glasgow," he said, "are paying more than £1,800 for four-apartment houses, and I would like to assure the Provost of Greenock that I will not rest until something is done to permit of reasonable rents being charged. The subsidies are far too low for the present high costs."

A start has been made on the buildings of NUFFIELD COLLEGE, OXFORD.

The new building, designed by Harrison, Barnes & Hubbard, is in the Cotswold Gothic style, and is to be built of Clipsham stone. Only a small part of the whole design is to be built at this stage. This building ultimately will be the warden's house. Because of the present state of the site it has been decided to start with this and to use it temporarily to house the college, and not as a residence, and to complete the college by stages. The site, presented by Lord Nuffield in 1937, faces the castle mound and fronts New Road.

NEWS IN BRIEF

Mr. Donald G. Walton, senior architect in the Ministry of Health, has been appointed architect to the Welsh Regional Hospital Board and will take up the appointment shortly. His new address will be: The Temple of Peace and Health, Cathay Park, Cardiff.

A proposal has been made to restore the old windmill at Milton Regis, long known as a Kentish landmark. The cost of restoration is estimated at £1,200.

A limited number of copies of the LMBA Handbook are now available. They can be had on application to the Secretary, London Master Builders' Association, 47, Bedford Square, W.C.1, price 12s. 6d. net.

Structural and Mechanical Development Engineers, Ltd., Slough, have signed a 12-year contract with the Government of India for Alcrete prefabricated houses. SMD (a subsidiary of Almin, Ltd., Farnham Royal), will supervise the erection of factories in India and supply the fabricated aluminium components. Each factory will produce 5,500 houses per year. They are similar to the houses for Mysore State illustrated in this issue of the JOURNAL.

THE ARCHITECT AND THE PLANNING ACT

THERE are, presumably, few architects who would prefer to be lawyers; those who hankered after the law in their youth chose that profession in the first place. But there must be many architects in private practice today who are being driven to the conclusion that their clients think them also to be lawyers.

The Town and Country Planning Act, 1947, has imposed an additional burden on those whose profession it is to deal with land in any way. The burden is not totally unwelcome. In the Act lies Britain's best hope of orderly progress towards a state in which the best use is made of every natural resource. None the less, the architectural profession faces the fact that it has a great deal of what is fresh to learn, and few men have found learning wholly agreeable. The client will expect his architect to know his way about the Act, and the client will be right.

One of the first problems the architect in private practice must tackle is the problem of "change of use." It is fundamental to his job, for most architectural projects will involve some change in the use, as defined by the Act, of the land or buildings to which they are intended to apply. The architect must know as much of the technique of planning control as he does of building construction. An ill-considered plan may impose on his client a burden which knowledge and foresight could have avoided. A different approach to a building problem may dispose of likely planning objections before they arise.

On October 28 the JOURNAL's Technical Section contained a number of hypothetical questions on the interpretation of the Act, with special regard to change of use. These were dealt with by a legal expert, whose answers have apparently proved helpful to readers. A further series of questions and answers on the subject of development charges and claims under the Act will be printed next week, and others will follow. At this stage, interpretation of the Act is bound to be largely an individual matter. But, whether any one answer is confirmed or not, as the law eventually becomes clarified, they will all serve the purpose of promoting thought and discussion on matters about which a great deal of thought and discussion are still needed.

Planning must be a matter of co-operation between planner and planned—otherwise it will fail in the long run. The planning authorities have no monopoly of either wisdom or experience and the best of them recognize that with complete willingness. An architect who grasps the fact that what are difficulties to him may also be difficulties to the men in the planning authorities' office is not only going to save himself a great deal of trouble and earn himself a handsome measure of goodwill in official quarters, equally, he will help both the planning authority in its early approaches to its problems,

and, consequently, other members of his own and kindred professions who have to deal with that particular authority thereafter. The greatest disservice the architectural profession could do to the success of this great new Act would be to allow it to be regarded by themselves and their clients as merely another series of obstacles to be overcome.

On all grounds we commend a study of the Act as it will work in practice. It is not that the architect must turn himself into a lawyer, any more than a working knowledge of human physiology turns a man into a doctor. But it is just as important to know when not to send for the doctor as it is to know when he is really required. A little knowledge is only dangerous to the man who lacks the perspective necessary to apply it. And what architect fails to understand the uses and abuses of perspective?



The Architects' Journal

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

Phone: Whitehall 0611

N O T E S &

T O P I C S

SCHOOLS WITHOUT TEARS

The average school building today has about as much æsthetic appeal as a rather expensive battery of chicken houses. This is not entirely the fault of the architect. The physical difficulty of juggling with lighting and circulation requirements and the nearly impossible task of procuring the most desirable materials, good craftsmanship and an economical structure are factors that make the ordinary architect reach for the book of ready-made answers. This all too human reaction is very understandable, but, of course, fatal to both forward-looking educationalists and what little is left of the art of architecture.

I am, therefore, surprised to see in the recently published MOE report on

school construction* that the very eminent men who took part in the report fell for the fatal kindness of "telling you how to do it." It is easy to criticize, and the committee may well point out that it was their task to suggest the answers to school building problems. However, my point (and the admirable foreword to the report seems to confirm this) is that this type of official committee should confine itself to setting the standards to be achieved, indicating the latest trends in educational requirements, and, lastly, listing the various methods, so far discovered, of achieving those ends. Never should a committee recommend its favourite form of construction, which

*Report of the Technical Working Party on School Construction. HMSO 1s.

is what this one does when it suggests that in school planning a common dimension in one direction is preferable to a common dimension in two directions (or grid planning).

*

There is a great deal to be said for bay unit planning, but does the committee *want* to see the same type of school throughout the length and breadth of England? The same, that is, except for officially recommended sculpture in stone or carved brick on "entrance features" and "main towers," with local materials, trees and shrubs.

*

At the risk of stating the obvious I think the whole question of school buildings could do with a fresh airing. For instance, should schools be permanent? Fifty years from now will the old mixed-infant have a reminiscent tear in his eye when he sees the breeze block wall and rusty steel frames of his school days? Will fresh technical requirements make all these schools out of date in twenty years time? And lastly, is there any need for hundreds of yards of warmed corridors? Provided changes from classroom block to workshop block only occur once or twice a day cannot the child, like many pampered public schoolboys, scamper across in the open air? There is more in these questions than meets the eye. I assure you.



American fashions in British cars. The front of the new Morris Oxford 13.5 h.p. saloon car on view at the Motor Show at Earls Court. See Astragal's note.



The bust of Grey Wornum executed by Charles Wheeler and presented to the RIBA by Edward Maufe was unveiled by Michael Waterhouse, the President, on Tuesday.

MORE RESTRICTIONS GO

In factories, warehouses, schools, universities and other educational buildings, offices with floor areas of over 10,000 square feet, and farm buildings (but not farm houses), we can now spend up to £1,000 without a licence. Although I mildly resent being able to spend so much more on housing my cow Blossom than I can on myself, this seems a sensible relaxation, for £100 goes no distance at all on a building of any size, and most factory maintenance staffs must have been quietly breaking the letter of the law a good deal of the time. At the same time the WBA priority scheme goes, though we still have to apply for steel and timber as before.

So the practice of architecture has now become a little simpler, but only a little. It doesn't, for instance, anywhere remotely compensate for the T & CP Act forms, which seem nowadays to be everyone's major headache.

BORAX IN BRITAIN

Pushing my way through the car-starved multitudes, I, too, have been to Earls Court to see what I almost certainly can't have for the next few years.

In many ways a disappointing visit; far too many British manufacturers—I suppose in an attempt to catch the export market—have tried to ape the American flying meringue school of design, admittedly with a little more restraint, but with some rather unhappy results. Perhaps the medium power cars *must* go mildly American if they are to compete overseas, but I have a suspicion that quite often British cars sell abroad because they *don't* look American at all.

But I'm glad to see that most of our high quality cars still retain a fairly familiar shape, though a mild rot has set in here and there in some of the special bodywork. Incidentally, the Americans seem to be finding that the full width body (be it dynaflored or futuramic) has some snags in use. In the old days an argument with a bus might mean a crumpled wing or a running board minus trim; now it means almost a new body side, and repair costs jump accordingly.

THE LAST OF TECTON

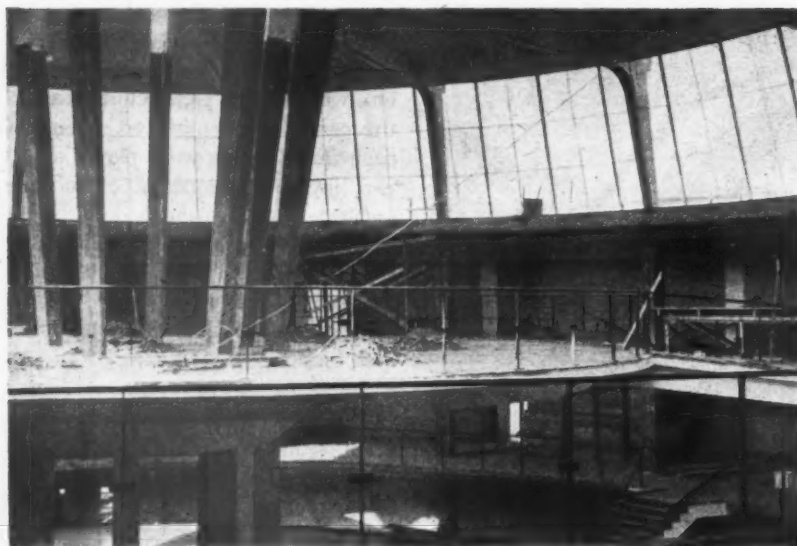
The news that the Tecton partnership is to be dissolved, following Lubetkin's

appointment as planner and chief architect to the new town of Peterlee, will cause many people to feel that another link with modern architecture's formative period has been broken. From the beginning Tecton's work played a key part in the development of modern architecture in England; indeed, in the eyes of many people—especially people abroad—it was modern architecture in England. Tecton's influence on the younger generation, in particular, has been incalculable.

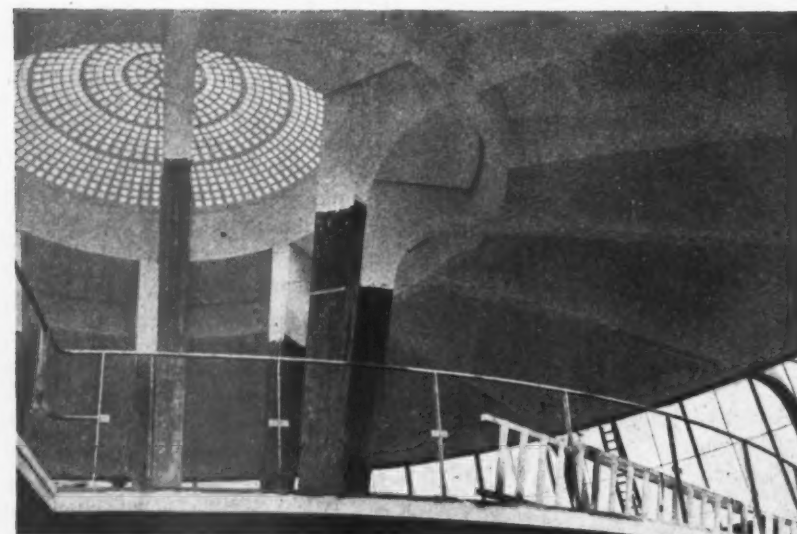
What made the firm's work so significant, I think, is that Tecton never stood still. They were not content with being among the pioneers of modern building in this country; their work was always moving forward and their buildings stand as landmarks because they illustrate the successive stages of the present generation's search for maturity of style. I suppose this stylistic development is best seen in their flats—in the difference between Highpoint I and Highpoint II, between the latter and the Rosebery Avenue flats now nearing completion for the Finsbury Council, and between these and the Paddington scheme illustrated, I understand, in this issue. Tecton's other great contribution, to my mind, is that the firm's success pioneered the idea of group practice, which has since taken such promising root.

Though the name of Tecton is to go out of use, the plans of the various people who earned for the firm its unique position give us plenty more architecture to look forward to. There are at present four partners: Lubetkin, Skinner and Drake of the original group of seven who started the firm twenty years ago, and Denys Lasdun who became a partner after the war. Lubetkin in future will be spending most of his time in the north—where his work at Peterlee can be counted on to give the fresh stimulus it needs to the whole New Town's programme—but he will also carry on, in association with Skinner, the various projects that Tecton have in hand for Finsbury Borough Council. Lasdun will take over the Paddington project illustrated here, developing it in conjunction with the Borough's Housing Department. Drake will continue to work on the Paddington scheme in association with Lasdun.

ASTRAGAL



The proposals for the new Building Centre in Rotterdam were illustrated in the JOURNAL for February 12, when the design was still only a project. Since then considerable progress has been made as the photographs on this page show. Owing to the nature of the site, the Centre is built on a foundation of 1,750 concrete piles, which are constructed and driven at a cost of about £50 each. The London and Rotterdam Building Centres will be closely linked.



ROTTERDAM'S BUILDING CENTRE

In Parliament

A vigorous attack on the housing policy of the Minister of Health, Mr. Aneurin Bevan, was launched by an Opposition front bench spokesman during the closing stages of the debate on the Government's legislative programme for the new session of Parliament.

Mr. R. S. Hudson (Con.—Southport) protested that Mr. Bevan had been going about the country saying that he had now built 750,000 separate houses and broken the back of the housing problem. "I wonder how many people listening to those speeches and reading the figure of 750,000 appreciate what that figure consists of," Mr. Hudson declared. "I wonder how many realise that of the total, 30,000 were requisitioned houses, 130,000 were houses damaged during the war and since repaired, 100,000 were created by sub-dividing existing houses, and 25,000 consist of temporary huts in Service camps. Of the balance, 155,000 are temporary houses whose life is only 10 years—houses which the Minister of Health before he took office used to jeer at and call steel boxes."

Amid considerable interruption from the Labour benches, Mr. Hudson went on: "I say that far from having broken the back of the housing problem he has not yet built enough houses since he took office to take care of the ordinary wastage of houses through the process of their having reached the end of their natural, useful life."

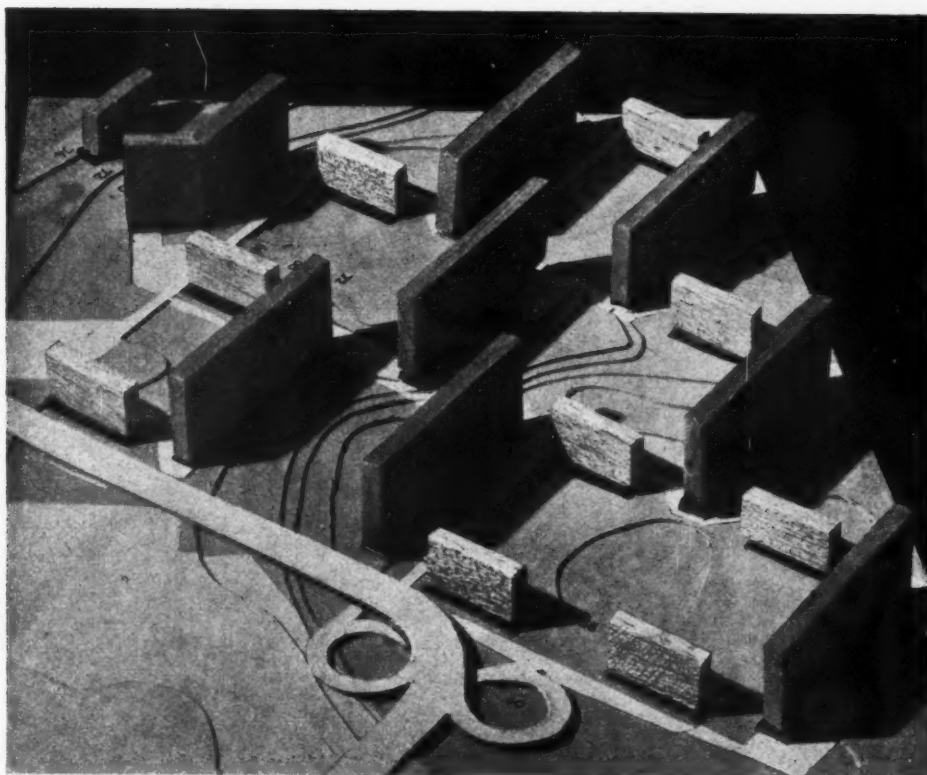
"In the course of achieving this miserable target, the Minister has completely disorganised the industry and enormously inflated the cost of houses, and, if anyone has any doubt on the subject, I recommend him to read the Report of the Girtwood Committee on the costs of housing which was appointed by the Minister himself. The Minister attacks the building industry and the men engaged in it for low productivity, whereas the Girtwood Committee proves overwhelmingly, from the evidence put before it, that the real fault was with the Minister and his administration."

"It was the case that materials and men were distributed over too wide an area, which resulted in building taking too long and costs being much too high."

Finally, Mr. Hudson contended that the quickest way to reorganize the building industry, to get cheaper houses and to save manpower, would be for the Prime Minister, if he had the courage, to dismiss the present Minister of Health.

Mr. Bevan did not take part in the debate, and Mr. Hugh Dalton, Chancellor of the Duchy of Lancaster, made no reference to housing when he replied on behalf of the Government, but a Labour back bencher put up a spirited defence of the Health Minister. Mr. Michael Foot (Lab.—Devonport) said it was disreputable that the Opposition should try to pretend that the housing programme had collapsed when, in fact, this country had a better housing record than any other in the world. He recalled that when the soldiers were going into battle during the war, Mr. Churchill was making promises to them. He had said that Lord Portal at the Ministry of Works was working wonders and was going to produce 500,000 steel houses. Only two of them were ever built. "When a Tory Minister produces 500,000 houses on paper, that is working wonders, but when a Labour Minister produces 800,000 houses in fact, we are told that it is a housing programme that has collapsed," Mr. Foot remarked. "That is the kind of patriotism we have had during the past three years from Members opposite."

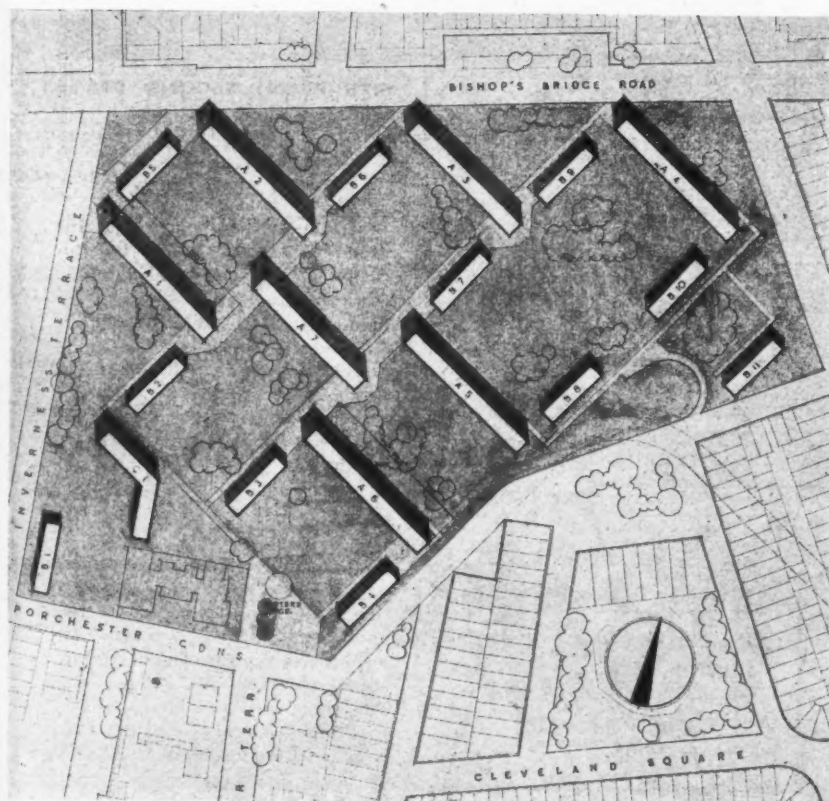
In reply to Lord John Hope (Con.—Midlothian and Peebles, N.), who raised the question of compensation for railings removed during the war, Mr. Key said that in April this year he decided that the extension of the time for claims should end on June 1, 1948. There could be no question of a revision of the basis of compensation.



Right, a model viewed from the east, showing the first stage in the redevelopment of the area.

HOUSING IN PADDINGTON

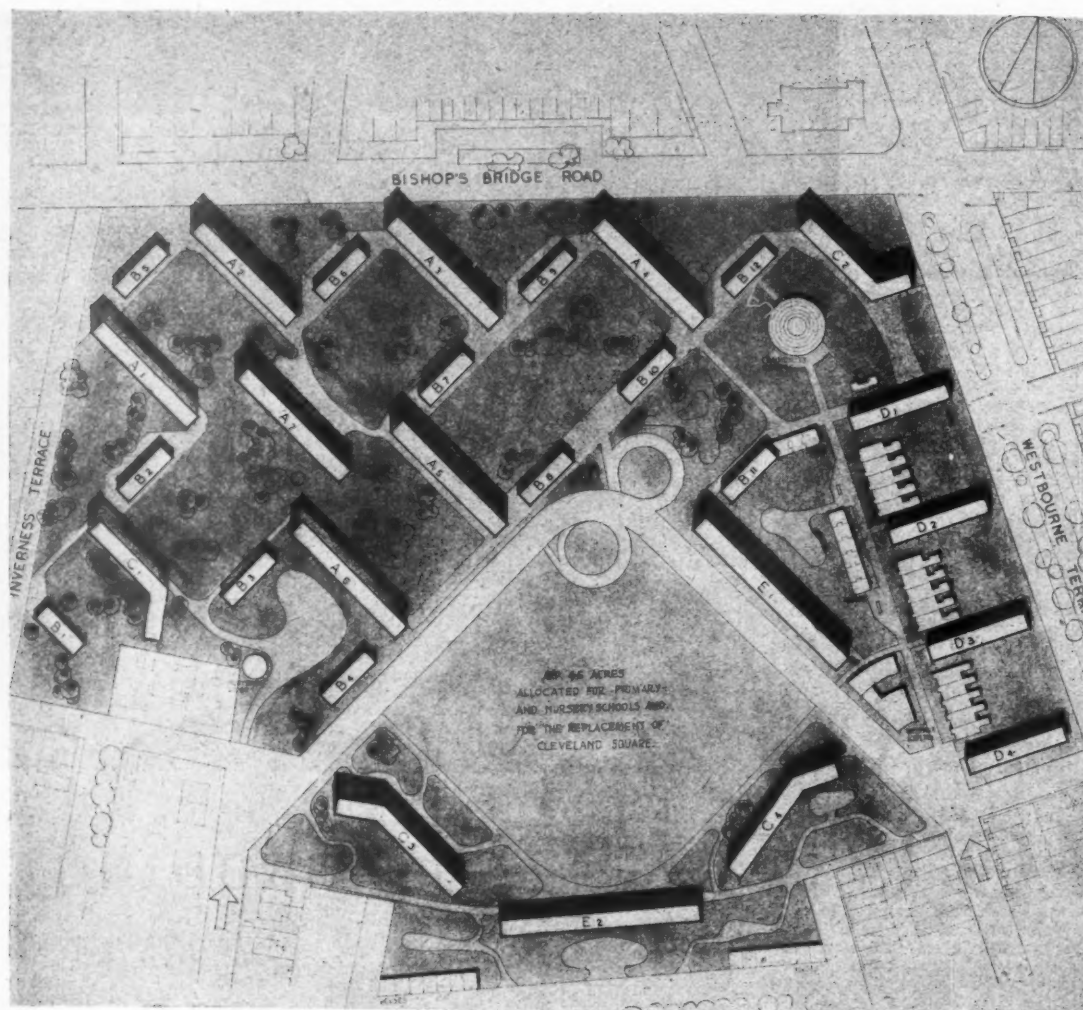
*DESIGNED
BY TECTON*



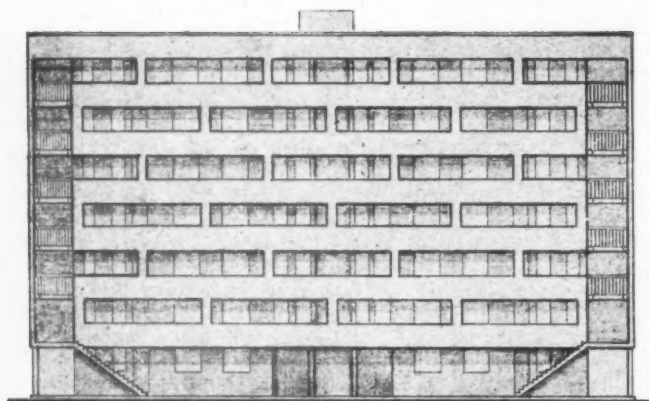
SITE PLAN: FIRST STAGE

GENERAL.—The Paddington Borough Council is to redevelop at high density an area of 37.5 acres bounded on the north by Bishop's Bridge Road, on the east by Westbourne Terrace, on the west by Inverness Terrace, and on the south by a rather broken line running through a number of streets. The operation is to be carried out in two parts, the immediate stage comprising about 930 dwellings, and the future development about another 940.

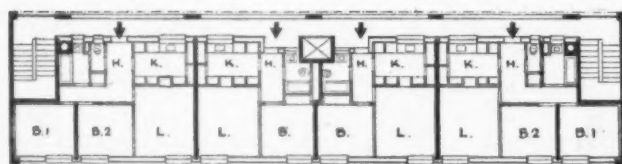
SITE.—The blocks are placed at an angle to Bishop's Bridge Road and to Westbourne Terrace, so that the ten-storey height of the main blocks does not cramp the proportion of the streets. At right-angles to the ten-storey blocks are smaller seven-storey blocks. It is proposed that an internal roadway linking the existing Porchester Terrace and Gloucester Terrace should service the estate near the



SITE PLAN: SECOND STAGE



EAST ELEVATION: BLOCKS B1-B11 (Scale: $\frac{1}{4}'' = 1'0''$)



PLAN OF BLOCK B: FIRST, THIRD & FIFTH FLOORS

central point. The levels of the ground make it possible for this roadway to be partly elevated so that communication between the main part of the scheme and the school site (see site plan-second stage), and with the outlying blocks south of the school site, can be arranged underneath it. The extent of war damage determines which part of the site shall be developed immediately.

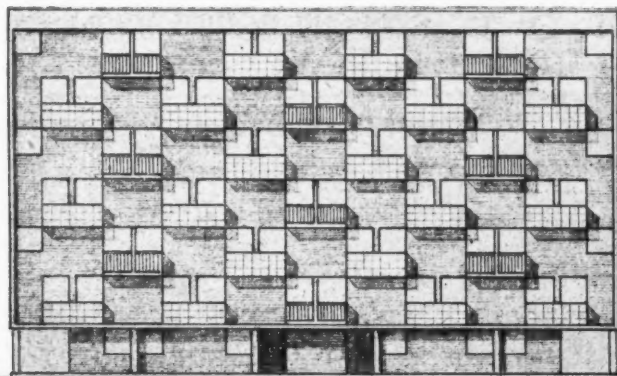
PLAN.—Although for reasons of economy all the blocks are designed with gallery access, no habitable rooms face on to access galleries and the majority of the rooms have a southerly aspect. The maximum standardisation of rooms was attempted with special emphasis on bathrooms, kitchens and entrance halls (with meter cupboards, etc.).

HOUSING IN PADDINGTON:

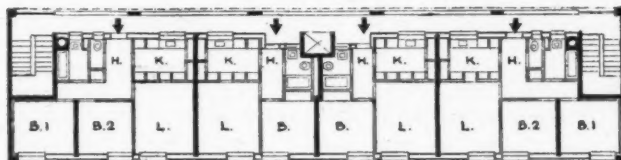
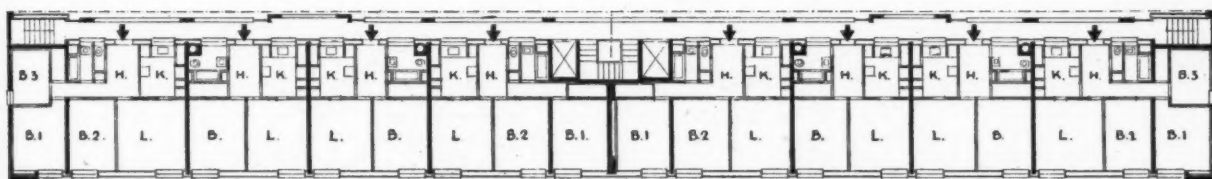
CONSTRUCTION. — The construction throughout consists of reinforced concrete cross walls supporting reinforced concrete slabs without any beams or stanchions and is similar to the system employed on the same architects' Rosebery Avenue and Busaco Street schemes at Finsbury. The walls are so arranged on plan as to take the greatest advantage of the continuity of the slabs, the moments being reduced at the ends and in the centre, where there is an expansion joint, by the introduction of smaller spans.

ELEVATIONAL TREATMENT.

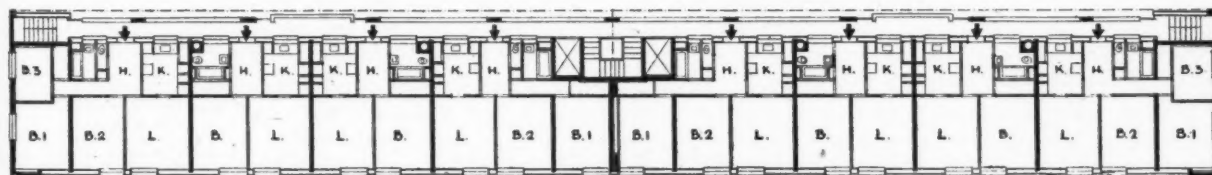
—In order to get away from the monotony of horizontal bands of gallery balustrades, a system of vertical supports to the galleries is introduced. These are designed, by an alternation of their position on successive floors, to give a sense of



WEST ELEVATION : BLOCKS B1 — B11

[Scale: $\frac{1}{16}$ " = 1'0".]PLAN OF BLOCK B :
SECOND, FOURTH AND SIXTH FLOORS.

PLAN OF BLOCK A : SECOND, FOURTH, SIXTH AND EIGHTH FLOORS.



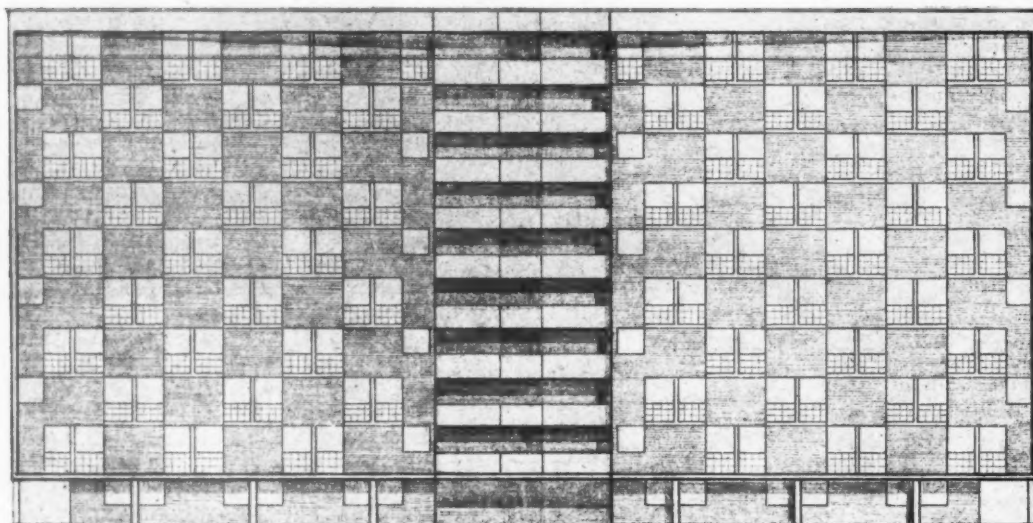
PLAN OF BLOCK A : FIRST, THIRD, FIFTH, SEVENTH AND NINTH FLOORS.

BELOW : REAR ELEVATION : BLOCKS A1 — A7.

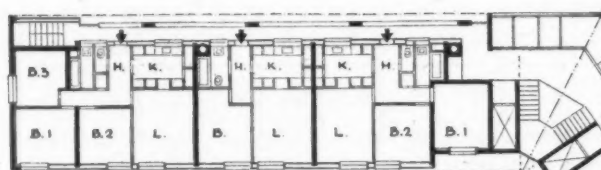


D E S I G N E D B Y T E C H N I C I A N S

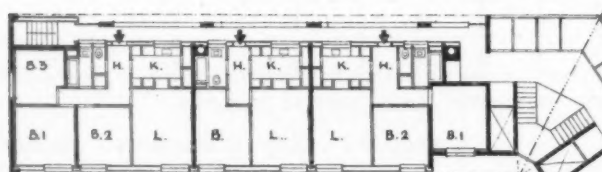
HOUSING IN PADDINGTON:



SOUTH ELEVATION: BLOCK C I (Scale: $\frac{1}{4}$ "=1'0")



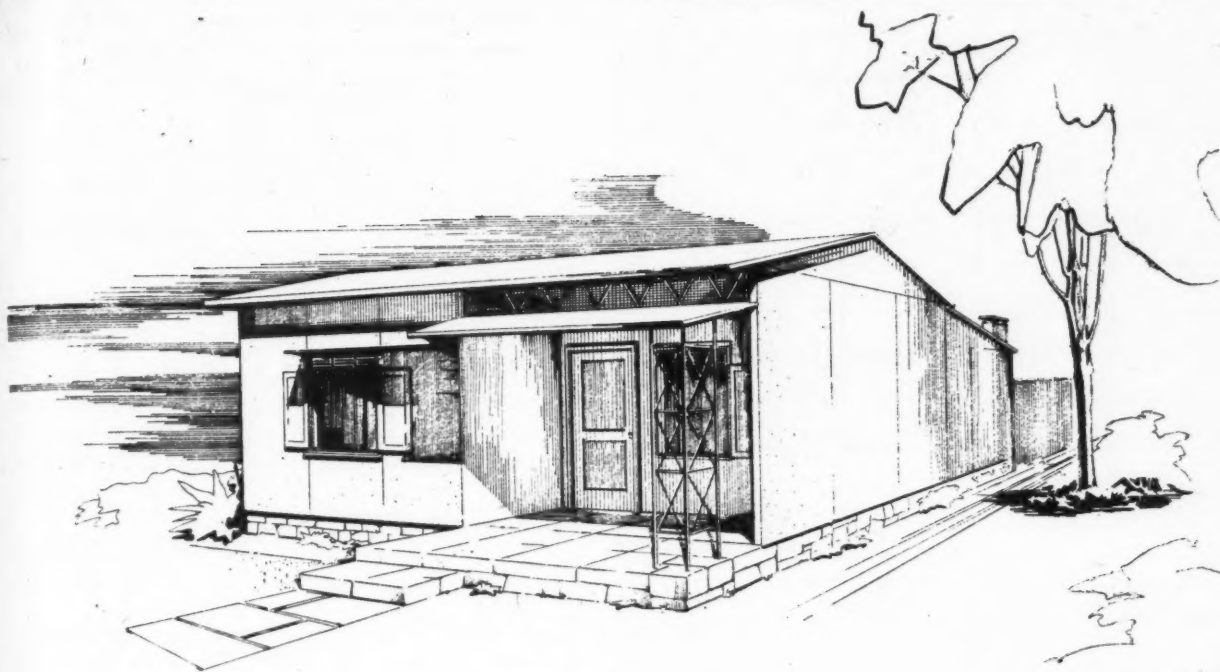
PLAN OF BLOCK C:
SECOND, FOURTH, SIXTH
AND EIGHTH FLOORS



PLAN OF BLOCK C:
FIRST, THIRD, FIFTH
SEVENTH AND NINTH FLOORS

scale and composition. Although the plans of the flats on successive floors are identical, the windows of adjoining rooms are grouped together differently on alternate floors so as to present a coupled effect on elevation. These openings introduce an alternating rhythm which reduces the scale of the blocks.

D E S I G N E D B Y T E C T O N



The Alcrete house.

HOUSING FOR MYSORE STATE, INDIA

BY STRUCTURAL & MECHANICAL DEVELOPMENT ENGINEERS
ARCHITECTURAL CONSULTANT: A. F. HARE

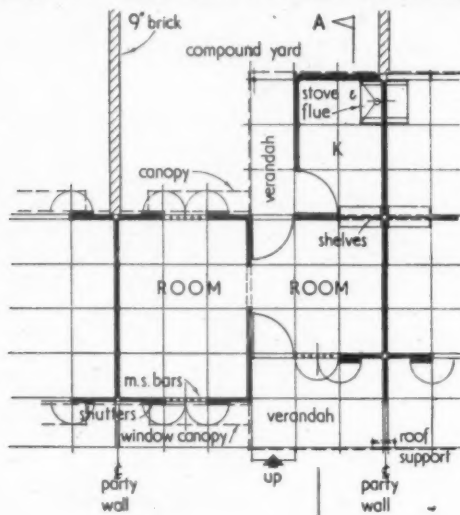
GENERAL.—This design is the outcome of an attempt to provide accommodation, at a cost comparable with existing methods, for the extremely poor labouring class in India, utilising recent advances in prefabrication.

TRADITIONAL HOUSING.—Before any designs were made, a thorough investigation of present housing methods in Mysore was undertaken. Most of the labouring class housing is of the type shown on this page; under rural condi-

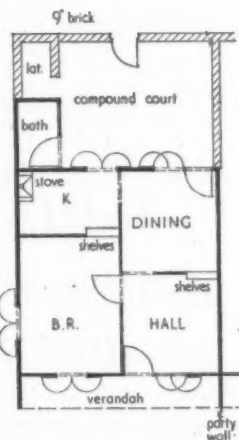
tions these are just tolerable for the extremely poor people who own them, but in urban areas these shacks form the worst type of slum. Land values and services are very high in cost, leading to high densities and very poor conditions. An unskilled worker will earn about £3 a month, and will pay a rent of between four to six shillings. The class of dwellings investigated are all "family" dwellings; a family consists generally of three generations from grandparents to grandchildren, who occupy these one, two or three-room dwellings. The photograph, left, shows the poorer type of dwellings occupied by these families, they are mostly built on municipal land, which they occupy without paying ground rent; they are built by the tenants with mud walls and thatched roofs; and are closely huddled together with no services or amenities of any kind. The age of the huts shown varies from two to ten years. This type is also sometimes built by private landowners, of equally poor quality and rented out. The very poorest family would occupy under 100 sq. ft. per family, but fortunately the number of families at

Below, native housing.

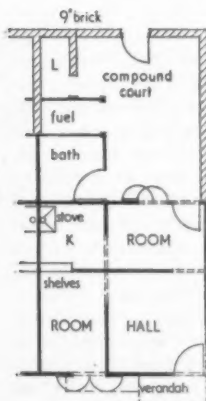




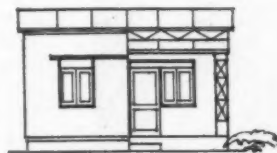
PLAN : TYPE I
[Scale: $\frac{1}{8}" = 1'0"$]



PLAN : TYPE 2



PLAN : TYPE 3



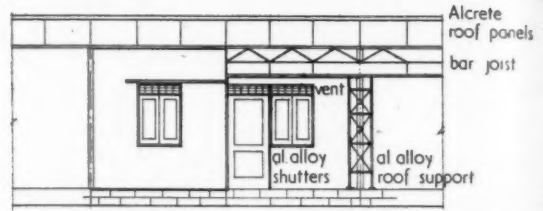
SINGLE HOUSE



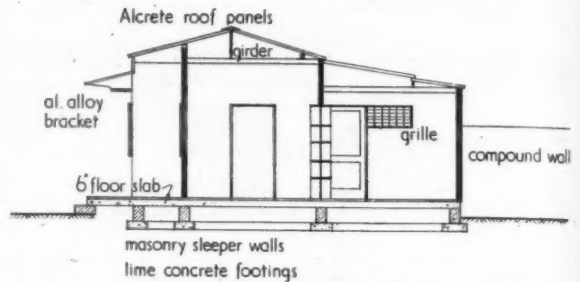
SEMI-DETACHED HOUSES



TERRACE HOUSES



ELEVATION : TYPE I



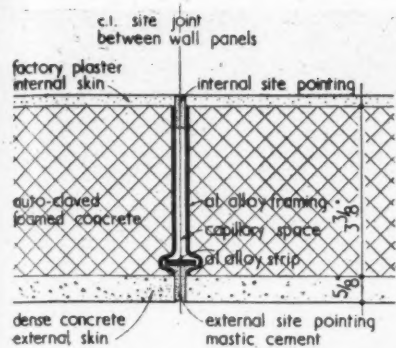
SECTION A-A : TYPE I

this standard is very small. The next standard, classed as poor, occupies between 100 and 300 sq. ft. per family—for the whole State the largest number of families are of this standard. The next standard occupies between 300 and 500 ft. super. per family and is known as the lower middle class. The minimum Alcrete House gives a net internal floor area of 267 sq. ft. with two covered verandahs, a covered-in bathroom, and an open type latrine.

In Mysore there is not only the current shortage of building materials and labour which is prevalent in so many countries, but also it has not been the custom to provide housing for coolie classes. It has only been of recent years that municipalities and industries have commenced upon such

schemes. The quantities required are vast relative to the population and compared with European shortages.

Mass prefabrication for this type of dwelling does possess very great advantages, particularly in comparison with prefabrication for the more involved and highly developed type of dwelling for the European. With the low labour costs in India relative to the UK, the use of plant and equipment on building sites is often not an economical proposition owing to the high cost of the plant; it can only be an economical proposition when mass production is used. However, bearing in mind the cost of local materials, this proposed system of construction shows a saving of from 5 to 10 per cent. over traditional houses.



DETAIL OF PANEL JOINT

CONSTRUCTION.—The module of 3 ft. 2 in. for this scheme is based upon the adaptation of conventional window and door sizes to a standard panel. It is intended that the standard panel frame will be the same for a wall panel, door panel, or window panel, and therefore will not need additional internal framing within the panel to take windows and doors, etc.

The main living rooms must be of minimum 10 ft. height, but with kitchens and bathrooms this could be lower and therefore a lean-to to the main structure was proposed. A standard roof span of 12 ft. 8 in., or 4 modules, is adopted, which can be supplied in any multiple of module length.

The foamed concrete is fully auto-claved, which gives a much higher strength for a similar density and, therefore, similar insulation value, as the ordinary kiln-cured foamed concrete. The internal plaster skin is sprayed on in the factory and not cast. The light aluminium frame to panels acts as a mould for casting the panel, as a jointing member and also protects the edges during the transport and handling, but the strength of the panel is provided by the reinforced foamed concrete and not the aluminium frame, which is of very light gauge.

The roof panels, which are made of module width to span from eaves to ridge with half panels for lean-to and verandah, are constructed of aluminium sheet externally, lined internally with locally-produced plywood.

The high reflectivity of aluminium sheet provides excellent insulation to solar heat at high external temperatures, but for situations other than Bangalore where very extreme temperature changes are found, a layer of glass silk would be provided between the plywood and aluminium external sheet.

The first attempt at municipal housing: one-room tenements with common latrines and washing place for 10 to 12 families. The accommodation is inadequate, and workers have filled in the gaps between houses with rough lean-to's.



The second stage in workers housing, with two rooms, and a latrine per house, one water tap to four or five houses.



Housing similar to that above with the refinement of a verandah.



Recent Mysore Government Quarters, comprising two rooms, kitchen, bathing place, enclosed yard and latrine. It is too expensive to solve the problem.



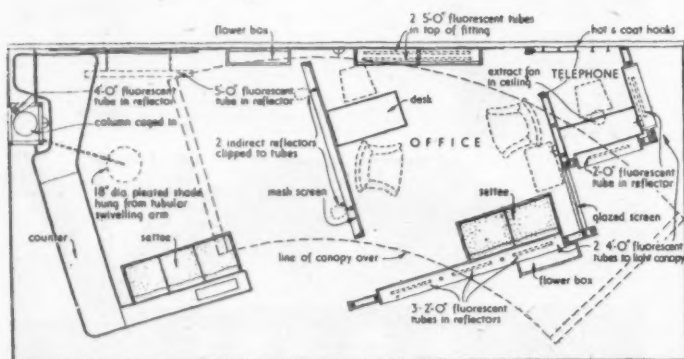
HOUSING FOR MYSORE STATE



The trade counter.

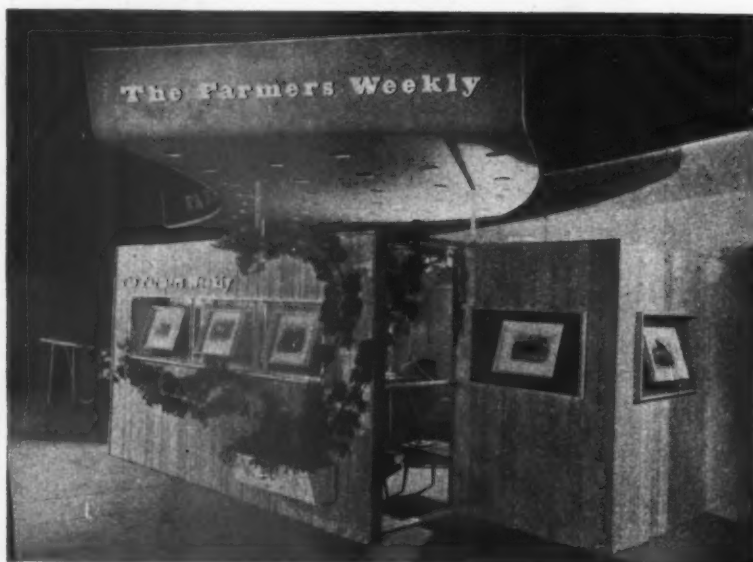
EXHIBITION STAND AT OLYMPIA

BY DESIGN RESEARCH UNIT



PLAN (Scale : $\frac{1}{4}" = 1'0"$)

Below, the pinewood screen round the office.



DESIGNER : ALEXANDER
GIBSON; CONSULTANT:
MISHA BLACK

This stand was designed to present a periodical, the *Farmers Weekly*, at the Dairy Show, Olympia. It is divided into two parts by a mesh screen. One half of the stand is the trade and inquiry counter, the other an office. This is screened from the public by a pinewood screen, the surface of which has been sand blasted. In the wood screens are a series of recesses which contain 18th and 19th century prints of cattle. The back of the recesses is either flinted glass or coloured deep red. The pine walls have a grey coping and white flower boxes and window frames. The internal faces of the screen are painted a deep red. The back wall of the stand is white, on which is a yellow panel with black and white woodcuts by Bewick of cattle, and blue lettering.

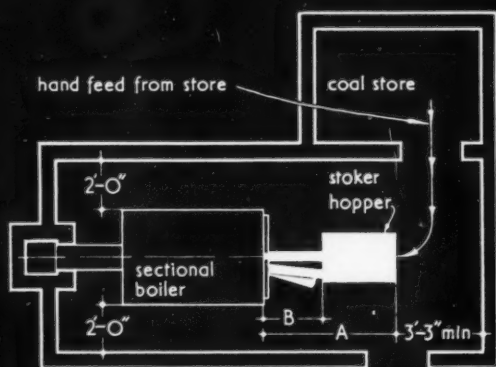
A fibrous plaster canopy covers part of the stand and supports the title in cut-out letters coloured yellow with blue edges. The canopy is coloured pale blue with white edges. The typography is by Austin Frazer.

The general contractors were F. W. Clifford, Ltd.

SPACE HEATING | MECHANICAL STOKERS

29.J3

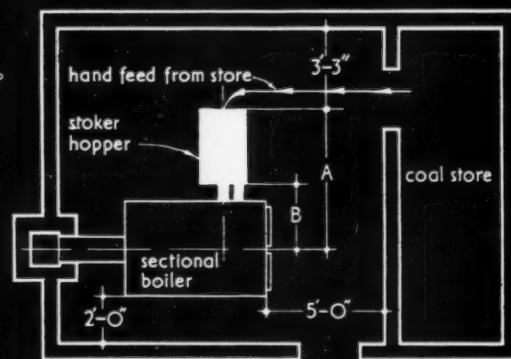
The Architects' Journal Library of Information Sheets 117. Editor: Cotterell Butler, A.R.I.B.A.



boiler rating B.th.u./hr.	long model	A	B
200000	R	5'-6"	2'-4"
325000	4OA	5'-6 $\frac{3}{4}$ "	2'-4 $\frac{3}{4}$ "
410000	4OB	5'-6 $\frac{3}{4}$ "	2'-4 $\frac{3}{4}$ "
625000	6OA	5'-6 $\frac{3}{4}$ "	2'-4 $\frac{3}{4}$ "
825000	9OB	5'-9"	2'-7"

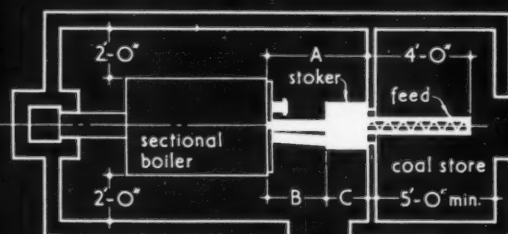
note: lengths of drive
may be increased -
first increment 1'-9 $\frac{1}{2}$ "
thereafter in increments
of 1'-0"

FRONT FIRED TYPE.
HOPPER FEED MODELS.



boiler rating B.th.u./hr.	short model	A	B	long model	A	B
200000	R	5'-9"	2'-7 $\frac{1}{2}$ "	R	7'-3"	4'-1 $\frac{1}{2}$ "
325000	4OA	5'-9 $\frac{3}{4}$ "	2'-7 $\frac{1}{2}$ "	4OA	7'-3 $\frac{3}{4}$ "	4'-1 $\frac{1}{2}$ "
410000	4OB	5'-9 $\frac{3}{4}$ "	2'-7 $\frac{1}{2}$ "	4OB	7'-3 $\frac{3}{4}$ "	4'-1 $\frac{1}{2}$ "
625000	6OA	5'-9 $\frac{3}{4}$ "	2'-7 $\frac{1}{2}$ "	6OA	7'-3 $\frac{3}{4}$ "	4'-1 $\frac{1}{2}$ "
825000	9OB	6'-0 $\frac{1}{4}$ "	2'-10"	9OB	7'-6 $\frac{1}{4}$ "	4'-4"

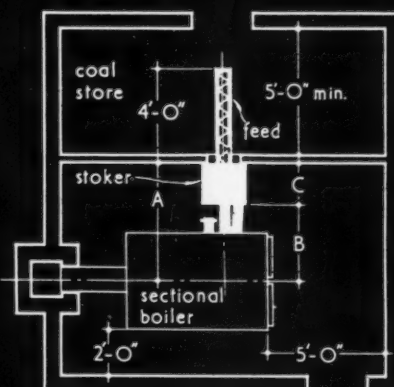
SIDE FIRED TYPE.



boiler rating B.th.u./hr.	model	A	B	C
184000	RL20	4'-3"	2'-6"	1'-9"
264000	RL30	4'-3"	2'-6"	1'-9"
360000	RL40	4'-3"	2'-6"	1'-9"
536000	RL60	4'-3"	2'-6"	1'-9"
625000	RL60A	4'-3"	2'-6"	1'-9"

note: lengths
of drive may
be increased
in increments
of 1'-0"

FRONT FIRED TYPE.
CHAIN DRIVE FROM STORE MODELS.



boiler rating B.th.u./hr.	model	A	B	C
184000	RL20	5'-0"	3'-3"	1'-9"
264000	RL30	5'-0"	3'-3"	1'-9"
360000	RL40	5'-0"	3'-3"	1'-9"
536000	RL60	5'-0"	3'-3"	1'-9"
625000	RL60A	5'-0"	3'-3"	1'-9"

SIDE FIRED TYPE.

29.J3 IRON FIREMAN STOKERS: FEEDING SECTIONAL BOILERS UP TO 825,000 B.T.H.U HR.

This Sheet gives layout dimensions for Iron Fireman stokers feeding sectional boilers of capacities up to 825,000 B.th.u./hr. For full details of the operation and general design of the stokers see Sheet 29.J1. Layout dimensions for sectional boilers above 825,000 B.th.u./hr., vertical boilers of all sizes and flue type boilers are given on Sheets 29.J4, 29.J5 and 29.J6 respectively.

Applications

The size of stoker described on this Sheet is suitable for use with boilers for domestic central heating, small factories, garages, churches, etc.

Baby model 90,000 B.th.u./hr. : This minimum size model has been developed for use with domestic hot water boilers or small central heating boilers, thus enabling one type of fuel to be used for both heating and hot water services.

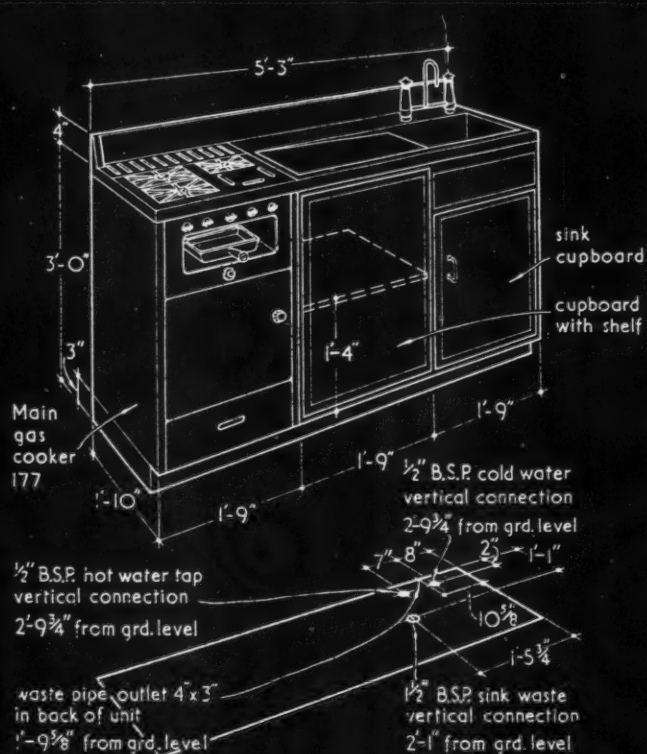
Compiled from information supplied by :

Ashwell & Nesbit Ltd.

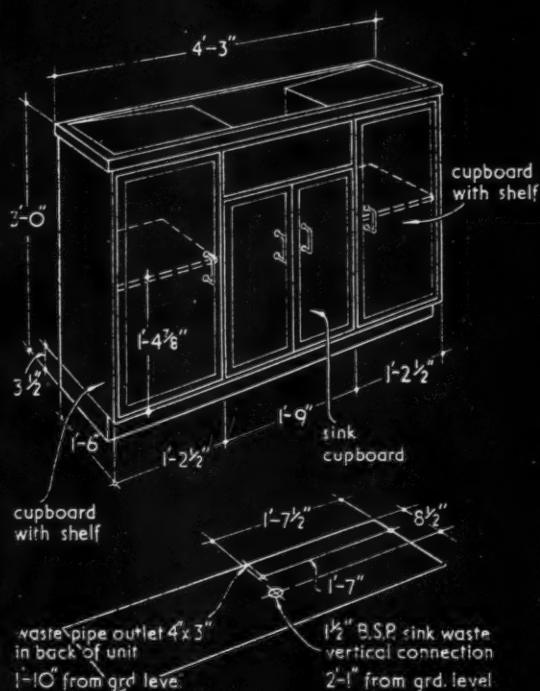
- Head Office : Barkby Road, Leicester.
Telephone : Leicester 27151.
- London Office : 12, Great James Street, W.C.1.
Telephone : Holborn 9105.
- Glasgow Office : 103, Douglas Street, Glasgow, C.2.
Telephone : Central 1703.
- Leeds Office : 32, Headingley Lane, Leeds, 6.
Telephone : Leeds 54655.
- Birmingham Office : 12, Whittall Street, Birmingham.
Telephone : Colmore 4047/8.
- Manchester Office : 184, Oxford Street, Manchester, 13.
Telephone : Ardwick 1361/2.

SPECIALISED FITTINGS | KITCHEN UNITS

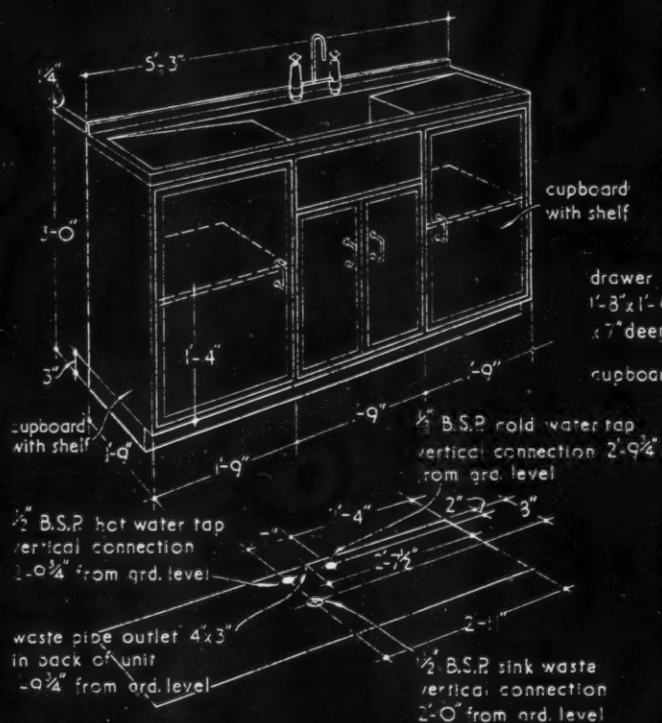
The Architects' Journal Library of Information Sheets 118. Editor: Cotterell Butler, A.R.I.B.A.



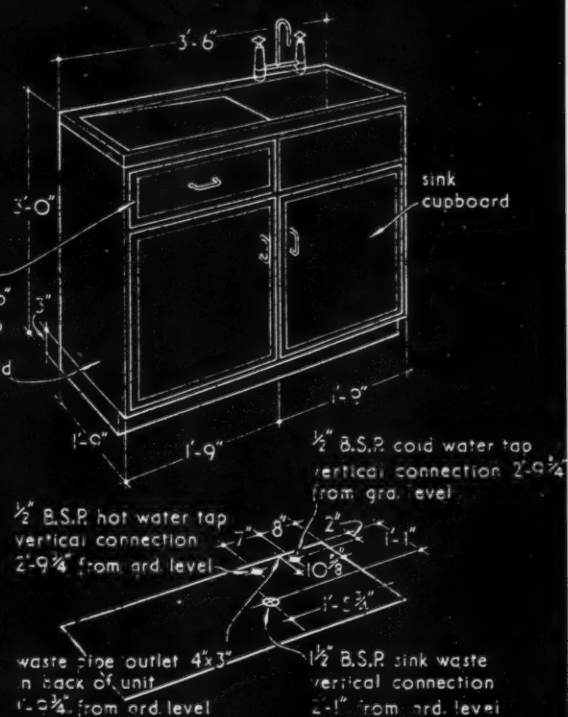
WINDOW TYPE PACKAGE KITCHEN PKW 155.



SINK UNIT KU 122.



SINK UNIT KU 48.



SINK UNIT KU 154.

43.E11 ·ALUPLEX· WINDOW TYPE PACKAGE KITCHEN AND SINK UNITS

This Sheet describes the Aluplex window type package kitchen and three types of sink unit. The window type package kitchen comprises a gas cooker, sink, draining board and cupboards. A full-height package kitchen is also available containing a refrigerator. This is described on Sheet 43.E10. The sink units are of varying sizes and comprise a sink, draining board and cupboards. Unit KU154 also contains a drawer.

Construction generally

The main frame is of sheet steel and steel tube. The cupboards are of Aluplex—two aluminium sheets with an insulating material between—fitted to a solid drawn extruded aluminium frame. Splash-backs and shelves are of sheet aluminium.

Gas Cooker—for Unit PKW 155

Type: Main 177.

Hot-plate: The surround is of cast iron vitreous enamelled. There are three boiling burners—high-speed, medium and simmering—and a grill.

Oven: Inside dimensions are 1 ft. 4 in. by 1 ft. 4 in. by 11½ in. deep.

Taps: These are of the spring-loaded safety type and can only be turned by pressing inwards first.

Thermostat: The cooker is fitted with a Mainstat oven-heat control.

Finish: Cream and green vitreous enamel.

A governor of 100 cu. ft. capacity must be fitted between the gas supply and the cooker.

Sink and Draining Boards

These are of stainless steel and integral with each other.

Bowl sizes are as follows:—

Unit KU148—1 ft. 6 in. by 1 ft. 3 in. by 8 in. deep.

Other units—1 ft. 6 in. by 1 ft. 1½ in. by 7 in. deep.

All bowls taper slightly to the waste outlet.

Cupboards

These are fitted with shelves where shown.

Handles: These are of polished aluminium.

Catches: These are spring type.

Finish: Cream and green stove enamel.

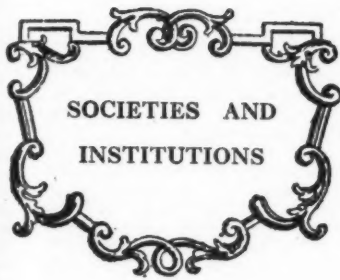
Finish generally

The general finish of all units is cream and green enamel.

Compiled from information supplied by:

Trup Industries, Ltd.

Address: 6, Upper Brook Street, London, W.1.
Telephone: Mayfair 8121.



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

GEFFRYE MUSEUM

H. S. Goodhart - Rendel

October 19. At the Geffrye Museum, Shoreditch. THE ENGLISH HOME IN THE 19TH CENTURY. Mr. F. R. Yerbury was in the chair. The first half only of Mr. Goodhart-Rendel's paper is given in this issue of the JOURNAL; the second half will appear next week.

H. S. Goodhart-Rendel:

I have not had the advantage of hearing the lecture already given in this series, so that I can only guess at the background from which my nineteenth-century puppets will seem to emerge. The nearest plane in that background must, I think, be rich in gilding and ornament, a setting for banquets and minuets. Although it is untrue to call the arts of the eighteenth century those only of an aristocracy, the aristocracy in that age set the fashions that all followed who could. Lords Burlington and Pembroke studied and imitated Palladio, and the cornices, windows, and doorways in every town and large village became Palladian also, at many removes. In simple habitations where fashion was inoperative old ways of building and furnishing persisted, but, on the slightest increase of fortune their owners would add to them neat and regular brick fronts, and buy some fashionable mahogany chairs for their parlours. There was no question in any mind as to what kind of thing was desirable. How much of that kind was thought appropriate would depend upon unchallenged distinctions in wealth and station. Undue display incurred ridicule, whether in the Duke of Chandos or in the farmer's wife. It was an age of conventional elegance, and also one of good sense.

Under George the Fourth, both as regent

and as king, elegance gave way to taste, to personal, and sometimes rather perverse choice. Palladio was ignominiously dethroned, and in the place of his aristocratic evangelists there arrived from all quarters an army of voluble connoisseurs, each with his own ideas—and often with his professional services—to sell. Display was no longer considered undue, wherever there might be wealth to procure it. And a great deal of wealth there was, widely distributed in new hands, in the hands of those whose prosperity had outrun their mental cultivation.

I have often said that in my opinion the arts of the Regency, in comparison with those which they succeeded, were, if not vulgar, a little *obvious*. Sprung from sensibility rather than from sense, their effects were aimed at the emotions rather than at the reason, and often can be acceptably felt, but less acceptably examined. In domestic architecture the Regency offered on the one hand Romance, with a very big R, and on the other emancipation from domestic discipline. The fashionable dandy and nymph (and I expect that most young men and women so dreamt of themselves) could be housed in a Gothic stronghold, in a Grecian temple, or in a villa of sunny Tuscany. If none of these pleased them they could love in a richly rustic cottage, smothered in season by woodbine and roses. And in all these they would no longer have to sit stiffly on upright chairs behind high silled small-paned windows, in rooms formally arranged. They would on the contrary lie back on sofas surrounded by what Miss Austen slyly calls "the proper air of confusion" . . . with "flower-stands and little tables placed in every direction." Through windows cut down to the ground, and filled with the largest panes obtainable, they could run in and out of the garden; a garden no longer rigidly hedged and bedded, but one full of winding paths leading coyly into confidential shrubberies.

REGENCY IDEALS

These ideals are no longer those of an aristocracy either of rank or of culture. They are those, in the main, of young people desiring freedom and infected with the Nature-worship of a sentimental age. They also, in their Regency expression, are the ideals of the "smart set" of that time, which, like all "smart sets" ever since, paid little heed either to breeding or intelligence. The equality that the French Revolution had preached turned the hopes of sanguine minds forward to an age in which everybody could be equally smart, fortunately not to one in which they could be equally shabby. Grandeur was old-fashioned and could be left without envy to those whose high position made it inescapable. What the young of the upper and middle classes wished for in their surroundings was a combination of comfort, neatness, and fashion, flavoured by some romantic allusion to the architecture of the past, whether to the feudal or to the classically antique.

Sentimentality was smart, or fashionable, if we prefer a word that its votaries would have recognized; and, since sentimentality includes easy generosity, the sentimentalists occupied themselves much with the country labourer's physical and moral improvement. These were the Wordsworthian days in which the poor, and preferably aged, labourer became to all men of feeling a subject of respectful regard. It was supposed that during his long degradation under the Whig plutocracy of the preceding century he had communed more closely with Nature than had his oppressors, and the supposition was probably true. Poets would hang upon his words, and professors of domestic economy rush at him with scientific instructions as to how he could improve and enjoy the Eden that was his rightful heritage. In harmony with this mood, young squires, on their succession, would furbish up their old cottages and

build passionately picturesque new ones, not, as their fathers might have done, in order to improve the view from their mansions, but in order to foster peasant virtue. Where the peasant's gratitude exceeded his bewilderment, the enterprise may have been successful.

CASTLES, VILLAS AND COTTAGES

The "castles" built in England during the first quarter of the nineteenth century are very numerous, and during the same period many older houses were encased in new castellated exteriors. Of these, Mulgrave Castle in Yorkshire, castellated by William Atkinson, and Hawarden Castle in Wales, castellated by Thomas Cundy, are characteristic specimens. Sometimes the baronial make-up was allowed to seep into the interior—it does so at Mulgrave, sometimes it stops at the windows as at Hawarden where everything indoors remains pseudo-classical. The most famous domestic imitation of a Grecian temple is William Wilkins' The Grange in Hampshire, but a more pleasing if less whole-hearted example can be seen in Trelissick, in Cornwall, designed by Peter Frederick Robinson. Miniature imitations of both of these kinds of building used to be common enough in old-fashioned suburbs of large towns, although as town absorbs suburb, they are fast disappearing.

Tuscan villas, already popular in France, were inaugurated here by Nash in his Cronkhill, illustrated by Mr. Summerson in his biography of that architect. This was in the year 1804, but they had to wait a quarter of a century before they became widely imitated. Nash also supplies us, in his delightful Blaise Hamlet, with sentimental cottages of the prettiest; cottages in which traditional ways of country building are only slightly romanticized. Or should one say "systematized," as James Malton had tried to do some years before, when in a valuable essay he attempted "to perpetuate on Principle, that peculiar mode of Building, which was originally the effect of Chance"? No, I do not think one should say "systematized": Nash and his friends were too much men of taste for that. He, or perhaps sometimes his associate Repton, had exceptional sensibility; but his contemporaries mostly ignored rustic ways of building in their pursuit of a more artificially rustic effect. In John Buanorotti Papworth's book entitled *Rural Residences* there occurs a design for a "cottage orné" adopted to receive trained foliage which, I suspect, must have been thought to display almost everything that feeling young hearts could desire. It is defective in having no conservatory, but, to quote the words of its author, allows "so extensive an application of plants that the lower apartments of the garden front might be completely embowered." It "admits a great variety of rural embellishments that may be blended with its more polished features without impropriety, provided the arrangement displays the interferences of taste." It provides three sitting-rooms and five bedrooms, accompanied by every requisite convenience.

TOWN AND COUNTRY

Cottages not ornés, cottages to be occupied not by the gentry but by cottagers, were interfered with by taste likewise, but were a little less exuberant in vegetation. No climbing vegetation at all seems to be expected in the very typical double cottages figured in R. Luger's *Country Gentleman's Architect*, a book published in the year 1815. Otherwise this pair would be both pictorially pretty and very comfortable according to the ideas of its time. Indeed, in the first quarter of the nineteenth century, the agricultural population was provided with a great number of pleasant, healthy, little homes, although, as always,

not with enough. What the town and industrial population was provided with was, alas! still regarded as nobody's business. Regarded as nobody's business by the idealists, that is to say; but regarded very much as their proper business by the building speculators, who—always busy in some way since the great fire of London—leapt into quite extraordinary activity after the battle of Waterloo. For such builders there was thereafter hardly a pause, whether for the little men who ran up rows of what were then classed as "fourth-rate houses"—to be named Somebody's "Rents" or for the grand providers of first-rate letting houses in Clifton or Cheltenham. Houses intended to be hired by persons unknown seldom can have the architectural qualities implied by the word *home* in the title of this lecture, and since, with so much material something must be omitted I propose to say little about them. The external beauties of many of them are well known; the internal beauties seldom go much further than neatness and elegance in the chimney-pieces and finishings of the rooms.

Regency furniture is a subject too large for any mention here beyond a cursory one. In detail the absorption of French Empire classicism made an enormous difference in the style of cabinet making (you can see this by comparing Sheraton's two books), but in general the sorts of tables and chairs remain unchanged from those made in the preceding period. The actual pieces were arranged much less formally than before, and were supplemented by those popular novelties, sofas and flower stands. Looking-glasses increased in number and in size, and became the indispensable complements of chimney-pieces, which, in order to accommodate them were made lower than had been usual. Fitted carpets superseded rugs, all floor boards in houses of the better class being entirely hidden from view.

THE NEW INDUSTRIALISTS

The second quarter of the nineteenth century leads us from the fading out of Georgianism to the Great Exhibition. In the facts of social history the rising influence of enriched commercial people can be traced continuously from a much earlier date, but I think that it was somewhere between the years 1825 and 1850 that those people conquered and led captive the artists of the nation. To win their approval the Royal Academy turned its back upon scholarship and acquired those peculiar if national standards of taste that it has ever since preserved.

In the design of great houses the castle and the temple models gave way to that of the "old English mansion," all gables and chimneys, with a tower or two perhaps, but without any suggestion of fortification. Smaller houses generally aspired to the same character, although in houses great and small eighteenth-century types, usually Grecianized in detail, had not yet become altogether obsolete. Great houses built by the princes of the market resembled those built by established grandees as exactly as might have been expected. Grandeur, accepted habitually by those already powerful, became an object of eager ambition to those whose power was new. The Tuscan villa flourished rankly, although in a form not always easily recognizable. At Walton-on-Thames a villa of magnificent dimensions, which if not specifically Tuscan, was completely Italian, was built for Lord Tankerville by young Charles Barry. Later in the century its architectural style was to receive the highest of sanctions in the eyes of many by its adoption for the royal villa at Osborne.

In every kind of housebuilding the activities of the Regency were continued and reinforced, though with significant changes of sentiment and of style. Cottages ornés lost caste, and, bereft of honeysuckles and roses,

trooped in a chain-gang of unhappy couples into the outskirts of new industrial towns. Squires built improved cottages in greater numbers, but in a far less idyllic mood. Town speculators continued to speculate, perhaps not with more cynicism, but with less check upon the quality of their production from the less cultivated public for whom they increasingly came to cater.

An art historian must never forget that for distances less than one hundred years his critical vision is likely to be out of focus. The outlines of early Victorian achievement are just beginning to clear, and those who, like myself, have long felt tenderly toward the period must be no less prepared to review it than must those who have made it the theme of mockery. So, with strong predilections for it, I feel bound to confess its loss of Regency virtues and its lack of strong compensating merits. Great artists worked in its idiom and produced some great art, but the idiom in itself was too confused and lawless to have the power of keeping mediocre artists within the bounds of respectability. And, as in all periods of swollen production, mediocre artists were in the majority. The old ideas of neatness and of fashion were broken, fragments of them flying all over the place in the form of shininess, novelty, and cheap ostentation. The idea of comfort too often was misdirected into the pursuit of elaboration and futile ingenuity. And, above all, sentimentality, which in Regency days at its worst was merely silly, became a force that at its very best could only be excused as infantile.

THE PRINCE CONSORT

The level of craftsmanship was still high; the new machinery, clanking and whirring night and day, had not yet been taught to scamp its work for its owner's profit. A countless number of new consumers was fed every moment with articles for which it had both the desire and the money to pay. The desire for them was constantly whetted by an increase in the articles themselves, not of usefulness, but of ornament. Now, nothing is more natural to man than a love of ornament, and nothing can lead him better toward the mental and moral improvement that comes with the power of aesthetic discrimination. But, if the ornament be aesthetically worthless, it will lead him nowhere, and very likely in the end make him sick. Unfortunately, in the rush of mid-Victorian money-making the traditional principles of ornamentation had been mislaid and nobody knew quite where to find them. The race of learned and noble patrons was extinct; the Regency fashionables had been exiled by outraged, and possibly envious, Virtue; the Royal Academy was concentrating its energies upon painting narrative pictures for the masses, and there was really nobody but Prince Albert to turn to.

This virtuous and benevolent man was as sure as a serious German could be that all ornament was desirable that could confer upon the deserving lower orders a sense of prosperity and if possible convey to them a moral message. The noblest Beauty was that which, while ministering to material well-being also brought refinement to the mind. High art would do this most effectively, by "high art" being understood that which included representations of the human figure. Mere floral ornament, however, was not to be despised, and if a cast-iron door-scraper could not always display Tritons and Nereids, it could always at least be garlanded with ferns and convolvulus. The prince's great exhibition in Hyde Park has been too often described for any description of it to be necessary here. The only jarring note, in its concert of profuse naturalistic ornament was the Mediæval Court, containing church furniture arranged by Pugin; and in this court were contained the exhibits that of everything shown in the huge building were, perhaps, the most significant aesthetically.

GOthic REVIVALISM

In one kind of furniture, in one kind of decoration, and above all in one kind of architecture, both ecclesiastical and domestic, there had been at work throughout the 1840's a new influence of the greatest importance. At first sight it appeared, as genuine artistic reforms generally do appear—to be essentially reactionary. It appeared, indeed, as a revival of mediæval design and craftsmanship, as a rejection of most of what was being loudly trumpeted as modern improvement, as a plunge—perhaps—from rational daylight into monkish obscurity. It was, in fact, an attempt at the recovery of first principles in arts in which principles of any kind had almost faded from view. In its application to ecclesiastical uses the movement acquired its greatest momentum, its warmest adherence and its most deeply suspected reputation. It was regarded by the many as a manifesto of Puseyism, as in much of its production it certainly was. But in parsonages and school-houses and occasionally in houses having no ecclesiastical connection whatever, it was breaking new architectural ground, or at any rate turning up ground that had long lain fallow. It was, indeed, to re-quote and adapt James Malton's words, "perpetuating on Principle what had lately been the 'effect of Chance.'"

The "old English mansions" that were being built by rich Early Victorians were often Gothic enough in the forms of their details, but the adaptation of these details to modern shapes and masses was guided solely by their architects' preconceptions of the picturesque. To Pugin, father of the new movement, the contrived picturesque was anathema. It was certain, in one way or another to violate his "two great rules for design: first, that there should be no features about a building which are not necessary for convenience, construction, or propriety; second, that all ornament should consist of enrichment of the essential construction of the building." Houses built by Pugin and his disciples are therefore easily distinguishable from those built by Gothicists outside his fold. They are Gothic inside as well as out, and are planned with no regard to bilateral symmetry on the one hand nor to scenic irregularity on the other. They are faced seldom with ashlar masonry and never with any superficial imitation of it; walling of brick, flint, or rough stone being normally preferred as more natural and less pretentious. Those that are not parsonages, convents, or houses for schoolmasters look to us rather as if they were. Not very many were built before the year 1850, but enough to lay the foundations for an enormous output of them later in the century.

The Puginists were in earnest, and were employed by earnest people who, for the most part, made some effort to decorate and furnish their houses in accordance with their architecture. The ordinary householder of the time, however, whether gentle or simple, left the greatest as well as the least matters of house equipment to his wife. To have shown any strong interest in them himself would have been thought to be disagreeably effeminate. His wife, in turn, chose tables and chairs, papers and materials, as she chose her gowns and bonnets, from the limited collections put forward as truly fashionable in the shops with which she dealt. Fashion ruled, as it had during the Regency; but now the fashions were dictated not by the purchasers but by the trade. Dictated not only to the indiscriminating middle class from which by now far the greater number of purchasers were drawn. Dictated also to those the beauty of whose inherited treasures should have taught to judge for themselves. There is something very discouraging to contemplate in the failure of the Victorian aristocracy to resist the fierce commercialisation in their time of arts and crafts that their ancestors had proudly protected.

of
of
es-
the
m-
as
ear
ed,
and
hat
m-
om
It
of
of
its
ve-
its
sus-
the
in
But
cca-
ical
new
ning
was,
on's
had

were
were
their
tails
ided
ions
the
sque
way
ules
no
not
or
ould
con-
t by
asily
by
are
are
teral
cenic
aced
with
g of
nally
eten-
con-
ok to
many
ough
out-

were
the
e and
their
er of
mple,
atters
have
mslf
eably
tables
she
the
truly
n she
g the
e dic-
trade.
nating
ar the
rawn.
whose
ht to
ething
n the
resist
me of
s had

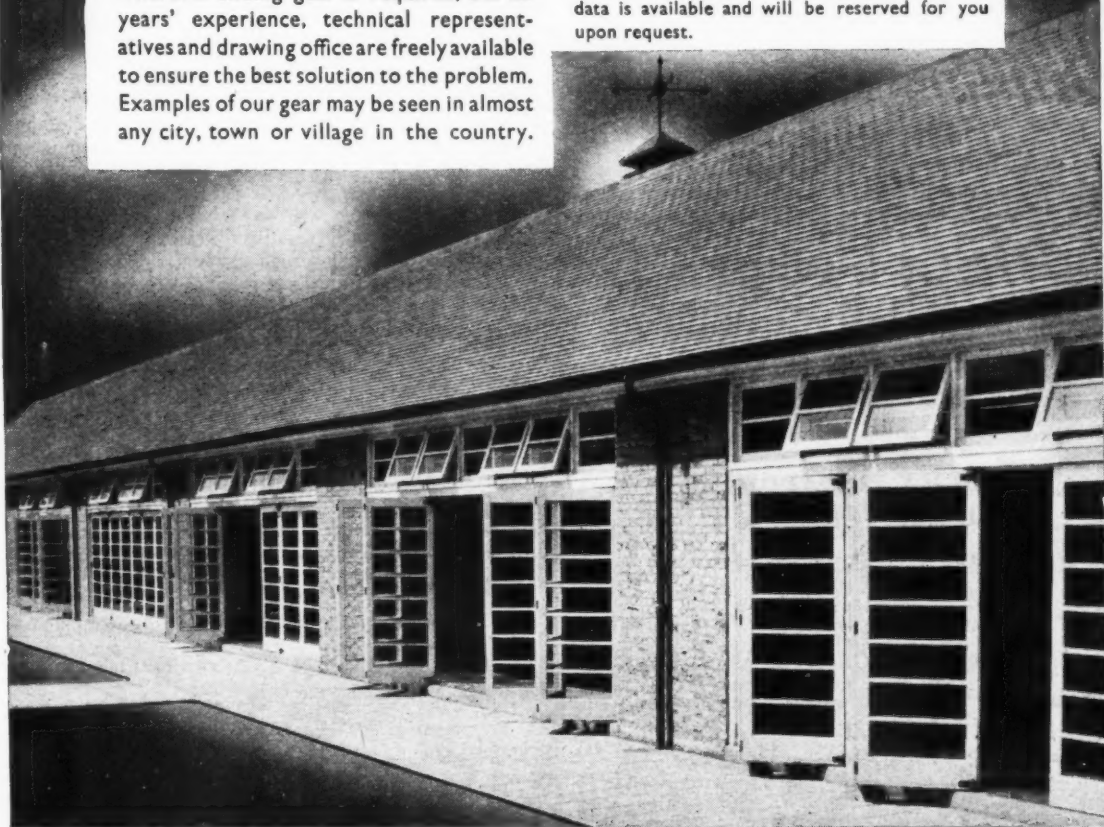
...and for any
DOOR, PARTITION or WINDOW
that S·L·I·D·E·S—

Henderson

SLIDING DOOR GEAR

Schools, hospitals, factories, garages . . . wherever sliding gear is required, our 25 years' experience, technical representatives and drawing office are freely available to ensure the best solution to the problem. Examples of our gear may be seen in almost any city, town or village in the country.

New Information Volume No. 48, with diagrams, photographs and complete specification data is available and will be reserved for you upon request.



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

No. 3 of a Series by Semtex Limited.

THE ECONOMICS OF THE FLOOR SURFACE



THERE may be a temptation in these days of restricted supply to accept a product just because it is readily available and initially cheap enough to comply with the immediate need for economy.

The fact is too often overlooked that some kinds of material, initially cheap to install, prove very costly in terms of the poor service they give and the high maintenance cost their use involves—costs not only incurred in repairs, but in waste of time and energy in attempting to keep them clean and attractive.

Semtex Limited have invested heavily in capital equipment and research, to perfect flooring materials that will give exceptionally good service at reasonable cost throughout the years.

An example of Semtex research is the Semastic Decorative Tile—an all-British equivalent of a flooring material that has proved outstandingly successful over a period of years in the U.S.A.

INITIAL COST

The installation cost of Semastic Decorative Tiles is comparable with that of any floor of similar appearance and wearing qualities. Installation is rapid and simple; the floor is ready for traffic almost immediately.

MAINTENANCE COST

Very little expenditure of time and labour is necessary to keep Semastic Decorative Tiles clean and attractive. As with all floors, regular polishing will enhance the appearance, but in general, light sweeping or mopping is all that is required.

RENEWAL COST

A floor in Semastic Decorative Tiles can be repaired very easily and cheaply following accidental damage or excessive wear. A tile or a number of tiles may be uplifted without difficulty and replaced without affecting others in the immediate vicinity—the new tiles quickly blend with the rest of the floor.

Semtex specialists will be pleased to advise and co-operate in all your flooring plans.

SEMTEX LIMITED (A DUNLOP COMPANY)

Branches at: ABERDEEN · BELFAST · BIRMINGHAM
BRISTOL · CARDIFF · GLASGOW · HULL · LEEDS
LIVERPOOL · LONDON · MANCHESTER · NEWCASTLE
SOUTHAMPTON · STRATFORD, E.15 · READING, BERKS

Semtex Departments of Dunlop Overseas Companies operate in Sweden, Denmark, Holland, Belgium, France, South Africa, India and Australia; Shipping Services A/S Oslo, represent Semtex Limited in Norway.

SEMTEX LIMITED 185-187-189 FINCHLEY ROAD, LONDON, N.W.3

Telephone : Maida Vale 6070.

Telegrams : Semtex, Haver, London.

Contracting work with Semastic Decorative Tiles is also undertaken by the following Approved Contractors :

J. A. Hewetson & Co., Ltd., HULL.

Hollis Bros. & Co., Ltd., LONDON, HULL and LEICESTER.

Horsley Smith & Co. (Hayes), Ltd., HAYES, Middx.

The Limmer & Trinidad Lake Asphalt Co., Ltd., LONDON and branches throughout the U.K.

The Penmaenmawr & Trinidad Lake Asphalt Co., Ltd., LIVERPOOL.

The Western Trinidad Lake Asphalt Co., Ltd., CARDIFF.

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

TECHNICAL SECTION

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

INFORMATION CENTRE

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

2.61 planning: general

MAP NOTATION, USA

Mapping for Planning. A Procedural Guide for the Classification and Mapping of Land Uses and Related Technical Studies. E. B. Wilkens. (Public Administration Service, Chicago, USA, 1948, \$1.50.)

Excellent American publication suggesting consistent technique for mapping basic land use planning data. Application of colours and classification symbols. Comprehensive list of abbreviations of classifications of land uses.

It is stated in a foreword that the procedure explained in this manual is based on material contained in *Suggested Symbols for Plans, Maps and Charts* published some years back by the U.S. National Resources Committee. The object of the present document is to achieve some uniformity of practice in the presentation of land use maps by classifying each land use under a specific functional category which in turn is indicated on the map according to a prepared colour schedule. The various functional categories are divided into the two main groups of *Residential Land Uses* and *Business, Commercial and Industrial Uses*. Each of these two groups is divided into a number of major sub-division aspects which carry certain classification symbols and are accompanied by a full explanation as to the exact coverage of the various land use categories. In addition, a most comprehensive alphabetical list of land uses is provided each entry showing the appropriate classification symbol. Colour schedules for the visual presentation of the various land use categories are set out together with recommendations as to drawing technique and photographic map reproduction.

Apart from the suggested land use categories the manual also gives classifications and colour schedules for mapping the following data: land and improvement values, the number of square feet per family, the age of buildings, and the tax delinquency of real property.

The English counterpart to this rather more detailed American document is the MOTCP Circular No. 29: *Notation for Survey Maps* (see 2.19:9.10.47). In regard to the listing of land uses, reference should also be made to the MOTCP Handbook on *The Redevelopment of Central Areas*, appendices (1) and (2), which define groups of building uses and give an alphabetical index to the building use groups to which common types of buildings belong (see 2.30:1.4.48).

2.62 planning: general

WATER SUPPLY

Wireless—Waterless—Warnings. M. H. Finch (Water & Water Engineering, Oct., 1948).

Varying demand for water. Short peak periods due to effect of radio audience variation. Interesting as example of what can be learnt from statistics.

This article while of no direct use to architects is interesting both as an example of what can be learned from carefully compiled statistics and as a warning about jumping to conclusions unless all evidence is available. The author shows, by means of chart recordings how the mains pressure of a town's water supply varies quite rapidly from time to time. The interesting thing is the unexpectedness of some of the causes of those variations. Some charts show the effect of people going to shelter in air raids, or of fires, when the demand by fire services are large, but a group of charts show how a rapid change in demand for water arises from large numbers of people beginning or ending a session of listening to the wireless. The popularity of such programmes as *Itma* or *Have a Go* are faithfully recorded on the water pressure chart!

8.10 surveying and specification

CURRENT PRICES: BOOK

Spon's Architects' and Builders' Pocket Price Book, 1948. Davis, Belfield and Everest, Editors. (E. & F. N. Spon Limited, 1948, 15s.)

74th edition of most useful annual reference book under new editorship, rearranged and, except for section dealing with constants of labour, entirely revised. Current prices compiled at the end of 1947 and based on modern building technique instead of war-time conversion tables in conjunction with pre-war prices and methods.

Compared with previous editions the new arrangement of the various sections enables a much more straightforward use to be made of the book as a handy reference, because the subject matter has been approached from a more logical point of view. Thus the first section entitled *Estimat-*

ing, covers prices for measured work, preceded only by the data upon which these prices are based, such as rates of wages and working rules, market prices of materials, and constants of labour and material, the latter being the only subject not having been revised. The second section entitled *Approximate Estimating*, follows naturally, as in many cases the prices are based directly on the prices of measured work in the preceding section. The third and last section covers daywork, prime cost contracts and fees for professional services restricted to architects, quantity surveyors, and district surveyors. Standard price lists are contained in appendices, followed by a *Stop Press* section dated May, 1948. Methods for dealing with price fluctuations are given at the end of the *Approximate Estimating* section.

Altogether this new edition represents a great improvement, not only from the point of view of rearrangement, but mainly in that it is the first comprehensive post-war attempt to provide current prices based on up-to-date building technique.

16.37 materials: miscellaneous

COATED MACADAM

Coated Macadam. (Federation of Coated Macadam Industries, 1948.)

Record of a series of lectures on Macadam road surfaces under the auspices of Federation of Coated Macadam Industries dealing with:—The use and abuse of coated Macadam. The value of mobile testing laboratory in the production of coated Macadam. The production and development of cold asphalt. Bituminous road construction in America. The design and construction of Modern coating plants. The correct use of Barber-Greene Olding finisher and the production and use of blast furnace slag. pp. 101. Illustrated.

A useful document for anyone concerned with the design or maintenance of roads.

16.38 materials: miscellaneous

GLASS

The Place of Glass in Building. 3rd Edition. Editor, John Gloag. (George Allen & Unwin, 122 pp. 10s. 6d.)

Revised and enlarged edition. Additional material includes brief discussions on armourplate, on the strength of glass in building generally, on glass for special purposes, on mirrors and on the surface treatment of glass.

Little additional technical or reference matter.

THE LIBRARY OF INFORMATION SHEETS



43.E10 REFERENCE BACK

Readers are asked to note the following revision and to amend their copy of the Information Sheet in question:

The unit is now fitted with Supataps model VT/LX ½ in. B.S.P. instead of those shown.



STEEL
CONSTRUCTION
RIVETED OR
WELDED

LONDON NORWICH · BIRMINGHAM

YOU WOULDN'T LIKE HIS JOB

We'll bet you wouldn't—even if you do have a good head for heights, steady nerves and complete self-confidence. Have you got the muscles of a weight-lifter too? Well even that's not enough! You need the trained skill of a Boulton & Paul erector. Every man you see on our jobs is a B & P man.

DESIGN · FABRICATION · ERECTION

CBC638

17.40 construction: general
PRESTRESSED CONCRETE

The Development of Prestressed Concrete. P. W. Abeles. (In 10 parts in Civil Engineering and Public Works Review, Jan. to Oct., 1948.)

Comprehensive study covering the whole ground of theory as well as practical applications of prestressed concrete.

The series of articles gives a full account of the history of prestressed concrete, the various systems of prestressing and methods of tensioning. It contains new formulae for analysis and design which are simple and can easily be understood. A number of numerical examples is given to illustrate the method of design. The author also reports on several groups of tests carried out in this country and abroad. These tests have contributed to a great extent to our knowledge of the essential features of prestressed concrete which are entirely different from those of ordinary reinforced concrete. Of particular interest is the comparison of what is called "full" and "partial" prestressing, a matter that caused much controversy in the technical press a few years ago.

Various practical applications of "pre-tensioning" and "post-tensioning" are described in detail, and many suggestions by the author are included. Among other examples, the strengthening of a church tower in Staffordshire shows the possibilities that prestressing offers to the architect in overcoming problems of special difficulty.

The last part is a summary with conclusions regarding the advantages of prestressed concrete.

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

ENQUIRY FORM

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

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

Please ask manufacturers to send further particulars to:—

NAME.....

ADDRESS.....

A.J. 11.11.48

For those who wish to acquire a thorough knowledge of the present state of development of prestressed concrete this series of articles is the best source of information. A good up-to-date bibliography is included.

17.41 construction: general
CONCRETE REINFORCEMENT

Bending Dimensions of Bars for Concrete Reinforcement. BS. 1478:1948. (British Standards Institution. 2s.)

Dimensioning and bending of bars for concrete reinforcement.

The object of this standard is to secure uniformity of practice in the dimensioning and bending of bars for concrete reinforcement. Tables indicate the method of measuring the dimensions showing the position of bends on a bar. Bending tolerances and the minimum hook and bend allowances are also specified.

17.42 construction: general
ALUMINIUM IN BUILDING

The Use of Aluminium Alloys in Building. Paper by E. T. Brimelow read at the British Association meeting at Brighton on September 14, 1948. (The Builder, Sept. 24, 1948, pp. 365-8.)

Survey of the present-day use of aluminium in buildings.

The paper deals briefly with the historic development of the use of aluminium and contains data on output and physical properties, design considerations, examples of structural and non-structural applications. Questions of durability and fire resistance are also discussed and a comprehensive bibliography is added.

19.50 construction: details
RETAINING WALL

Retaining Wall Eliminates Underpinning. N. B. Green. (Eng. News-Record [USA] Sept. 2, 1948, pp. 74-5.)

Need for underpinning an adjoining structure obviated through the use of a retaining wall for a building recently erected in California.

A retaining wall constructed in short sections and cast directly against excavated earth face. Considerable saving against underpinning achieved.

20.98 construction: complete structures
34-STORY R. CONCRETE

World's Tallest Concrete Building. L. Campagna. (Eng. News-Record [USA], Sept. 2, 1948, pp. 72-3.)

Thirty-four storey reinforced concrete framed office building completed in June, 1946, at Sao Paulo.

The building, housing the main office of the Banco de Estado de Sao Paulo, is claimed to be the tallest reinforced concrete framed structure in the world. With an octagonal tower on top of the 34th storey it extends 507 ft. above the street. It has a total floor space of approximately 25,000 sq. yd. In plan, the shape is a trapezium, at the base 148 ft. long and only 41 ft. wide. Thus the building is exceptionally slender for its height. The structure consists principally of six reinforced concrete rigid frames. The horizontal members of the frames are not located at every floor. In the lower part of the building, wind girders are three to four storeys apart. In intermediate storeys the floor girders are not rigidly connected to the columns and do not participate in resisting horizontal forces. Design consideration was given to dynamic wind action.

The structure rests on a 10 ft. thick reinforced concrete raft carried on 20 in. dia. cast *in situ* concrete piles, reaching 60 ft. below street level. Exterior walls are brick faced.

20.99 construction: complete structures
PRESTRESSED RUNWAYS

Prestressed Concrete for Runways. (Eng. News-Record [USA], Sept. 16, 1948, pp. 104-5.)

Experimental concrete runway at Orly, 1,400 ft. long, 200 ft. wide, 6½ in. thick, prestressed by Freyssinet's method. Claimed to be safe for planes triple the weight of any yet built.

25.61 water supply and sanitation
SINK WASTE GRINDERS

Eliminating Waste Food Electrically—A Fact, Not a Fad. Morris M. Cohn (Plumbing & Heating Journal [USA], Sept., 1948).

General article on electric grinding unit for sink wastes. Examples illustrated. Effect on town sewage and septic tank disposal. 4 pp.

25.62 water supply and sanitation
GUTTERS AND R.W.Ps.

Cast Iron Rainwater Goods. BS 460 and 1205:1948. (British Standards Institution. 5s.)

Reissue of two standards in one publication. No changes from previous separate standards.

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

QUESTIONS AND ANSWERS**2966 TREE ROOTS**

Q I have been called in to deal with a case in which the flank wall of a house has developed a serious fracture running from top to bottom. I have inspected the property and find that two evergreen trees which were planted alongside the wall and only about 18 in. away, have now reached a considerable size, and on digging down I also find that the roots pass under the concrete foundation. It would appear that the crack has been caused by the trees. These trees are on my client's neighbour's land, who sub-let his house during the war, and the trees were planted by his tenant. I believe that the responsibility for repairing the damage rests with the owner of the ground on which the trees are planted. Is this so?

A In our opinion the liability for damage caused by roots of trees spreading from one owner's property to an adjoining owner's property would be upon the person who planted the trees. The matter is one for legal advice as to the steps to be taken. No easement can be acquired to the spreading of tree roots into an adjoining property, and they may be cut at the boundary of the properties.

PRICES

This regular feature, prepared by Davis, Belfield and Everest, Chartered Quantity Surveyors, summarises basic prices for materials and gives labour rates for the London District and Grade Classifications outside

London. In the past, prices for materials have been expressed as a percentage over pre-war rates. This practice is no longer being continued as it is felt that pricing by reference to pre-war standards can now be considered obsolete. Detail prices of materials are given quarterly.

BASIC MATERIALS		BASIC PRICES AND RATES OF WAGES 1948									
		Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.
Portland cement (6 tons and over)	per ton	60/6	60/6	60/6	60/6	60/6	60/6	60/6	60/6	60/6	60/6
Paper bags	"	11/-	11/-	11/-	11/-	11/-	11/-	11/-	11/-	11/-	11/-
2-in. unscreened ballast	per yd. cu.	14/5	14/5	14/5	14/5	14/5	14/5	14/5	14/5	14/5	14/5
Fletton bricks (at station)	per 1,000	73/-	73/-	73/-	73/-	73/-	73/-	73/-	73/-	73/-	73/-
Stoneware drain pipes (British standard, 2 tons and over)	Standard list +	42½%	42½%	42½%	42½%	42½%	42½%	42½%	42½%	42½%	42½%
Roofing tiles	per 1,000	90/-+	90/-+	90/-+	90/-+	90/-+	90/-+	90/-+	90/-+	90/-+	90/-+
Steel joists (basic sections ex mills)	per ton	100%	110%	110%	110%	110%	110%	110%	110%	110%	110%
Lime greystone	"	£17 8s.	£17 13s.	£17 13s.	£17 13s.	£17 13s.	£17 13s.	£17 13s.	£17 16s. 6d.	£17 16s. 6d.	£17 16s. 6d.
Sheet lead (5 cwt.-1 ton lots)	"	84/9	84/9	84/9	84/9	84/9	84/9	84/9	84/9	84/9	84/9
Iron rainwater goods and soil pipes	"	£107 10s.	£107 10s.	£107 10s.	£107 10s.	£107 10s.	£107 10s.	£107 10s.	£107 10s.	£107 10s.	£130 15s.
White lead paint	List 3100 AB+ per gallon	70%	70%	70%	70%	70%	70%	70%	70%	70%	70%
		43/3	43/3	42/9	42/9	42/9	42/9	42/9	42/3	42/3	42/3
RATES OF WAGES (LONDON)—											
Within 12 miles radius											
Craftsmen	per hour	2/10½	2/10½	2/10½	2/10½	2/10½	2/10½	2/11*	2/11	2/11	2/11
Labourers	"	2/3½	2/3½	2/3½	2/3½	2/3½	2/3½	2/4*	2/4	2/4	2/4
From 12 to 15 miles radius											
Craftsmen	"	2/10	2/10	2/10	2/10	2/10	2/10	2/10½*	2/10½	2/10½	2/10½
Labourers	"	2/3½	2/3½	2/3½	2/3½	2/3½	2/3½	2/3½*	2/3½	2/3½	2/3½

Prices of materials above include for delivery to site in the Central London Area, and the rate of wages are for London only.

Current rates of wages outside London are as follows: Liverpool and District, Craftsmen 2/11; Labourers 2/4.

GRADE CLASSIFICATIONS

	A	A¹	A²	A³
Craftsmen	2/9½	2/9	2/8½	2/8
Labourers	2/3	2/2½	2/2	2/1½

* This increase took effect from beginning of pay week next following July 11, 1948.

Davis
F.R.I.C.S., F.I.Art.

More than just a

PAINT
RIPOLIN



IT IS A SAFEGUARD AGAINST DEPRECIATION
Ripolin surfaces are renowned for their durability and enhance the value of any building. Ripolin provide a complete range of paints for interior and exterior use. Our advisory staff is available to architects for the preparation of specifications.

RIPOLIN LIMITED
9 DRURY LANE, LONDON W.C.2

LONDON • PARIS • AMSTERDAM • CLEVELAND • TORONTO • ZURICH • BILBAO



1348-1948
*For the Most Noble
Order of the Garter—*



TIMBER PROVIDES A FIT SETTING

Six hundred years of the most ancient of existing orders of chivalry are enshrined in the beauty and structure of St. George's Chapel, Windsor. The enduring strength of this historic edifice is as symbolic of the nation's fortitude as is the English Oak extensively used in its construction.

Today, architects and designers rely on Timber to create permanent beauty in modern building with the added advantage of a far wider selection of hardwoods and veneers including water-resistant plywoods, (flat, shaped or metal-faced) incorporating all the qualities inherent in modern scientific development.

WILLIAM MALLINSON & SONS LTD

TIMBER AND VENEER MERCHANTS AND PANEL MANUFACTURERS

130-150 HACKNEY ROAD • LONDON • E 2

TELEPHONES (Private Exchange)
SHOREDITCH 8888 (3 lines)
SHOREDITCH 8811 (5 lines)

TELEGRAMS & CABLES
'ALMONER'
LONDON

COMPLETE *Insulation* *and Waterproofing*

by using "ACE" reinforced
felt with "SLAGBESTOS"
mineral wool.

In these days of fuel shortage it is more than ever necessary to conserve as much heat as possible. The ideal method for houses is to underlay the tiles with "ACE" Reinforced Felt and to spread loose SLAGBESTOS between the ceiling joists. This will give you perfect roof insulation and a warm dry house.

SLAGBESTOS is completely fireproof, verminproof and does not disintegrate.

We are exhibiting at the Building Centre.

Slagbestos
PERFECTED MINERAL WOOL
AND "ACE" REINFORCED
BITUMINOUS ROOFING FELT

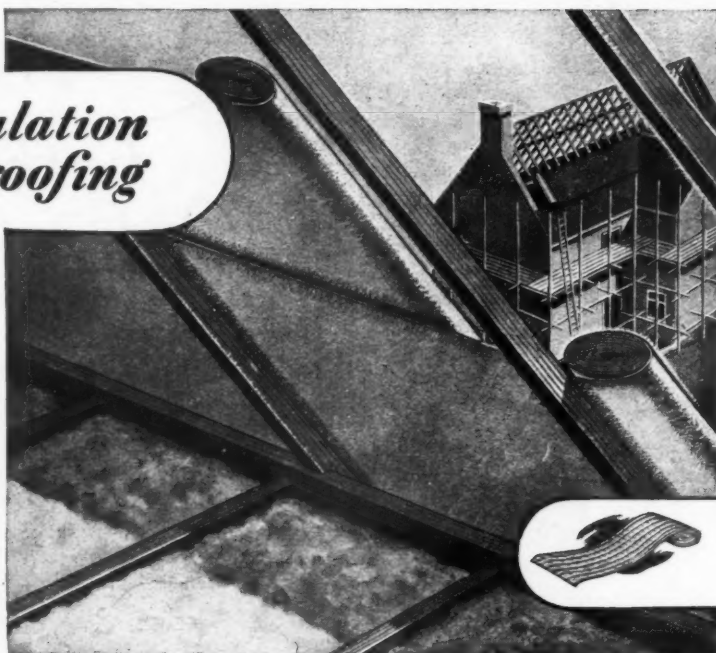


Illustration shows loose SLAGBESTOS between ceiling joists, and inset in blanket form. Full particulars, samples and prices of SLAGBESTOS and "ACE" will be sent to you on request.

F. McNEILL & CO. LTD.



10, LOWER GROSVENOR PLACE, LONDON, S.W.1
Phone: VICTORIA 6022. Grams: "Eyeball," London
Factories: London, Manchester and Glasgow

A moment of REFLECTION will tell you

... whether reproduction is all that it should be—life-like or defective.

When speech and music are to be amplified and distributed, quality is dependent upon circuit perfection and equipment design. A.T.M. organisation has gained a high reputation in the communications field and you can be assured of the best possible services whatever your needs—large or small.



ATM sound
amplification
and distribution

For complete sound installations for recorded music, radio programmes, announcements, etc., on rental terms apply to nearest branch.

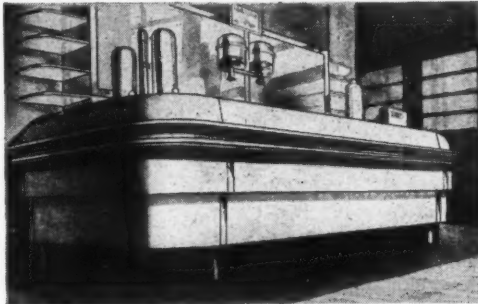
Write for booklet P101.

COMMUNICATION SYSTEMS LTD., Melbourne House, Aldwych, London, W.C.2. Telephone: Temple Bar 4506. Telegrams: Commsys, Estrand, London. Also at: Birmingham, Bristol, Glasgow, Leeds, Manchester, Newcastle, Sheffield, etc. Stronger Works, Liverpool, 7.

C.S.11213-AH14.

Service Counters

for
**CAFES, SNACK BARS
CANTEENS & RESTAURANTS**



Counters made by Henderson are ideal for small establishments because they are light, easily handled, and adaptable to any size or shape. Finished in stove enamel to match your colour scheme, stainless steel, and with counter tops of non-staining heat-proof plastic. No permits are required.

Henderson
THE HENDERSON SAFETY TANK CO. LTD

ELSTREE WAY, ELSTREE, HERTS - Phone: ELSTREE 1758 (3 lines)

Metal Work

IN STAINLESS STEEL,
MONEL METAL,
COPPER & STEEL



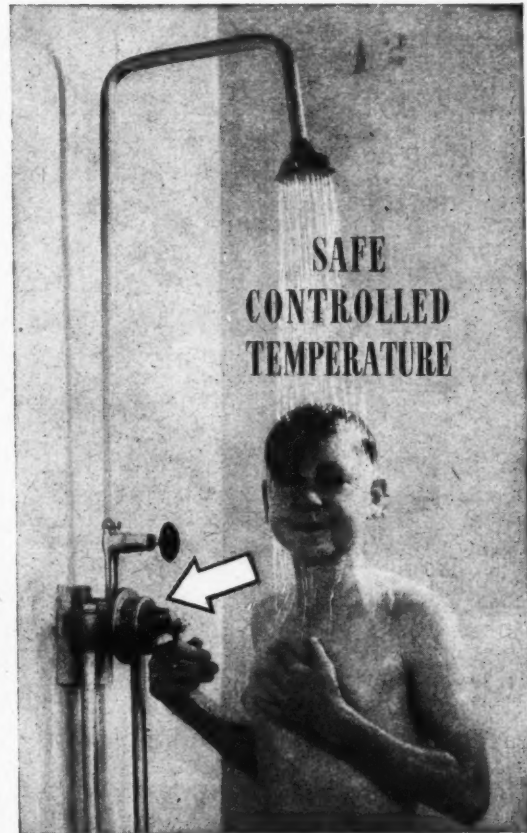
We are Specialists in
ALL TYPES & DESIGNS OF METAL WORK

For use in Institutes, Hospitals, Hotels,
Ships and in the home.

**SINKS, SINK UNITS, SINK RANGES, TABLE TOPS,
SHELVING, FRAMING, TANKS, Etc., Etc.**

This equipment is non-corrosive and hygienic
Catalogues post free from

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



THANKS TO *Leonard-Thermostatic* MIXING VALVES (PATENTED)

By means of a quick-acting thermostat the Leonard-Thermostatic Valve delivers warm water from hot and cold water and keeps it at a steady temperature no matter how the pressures fluctuate in the supplies. If too much cold comes, the thermostat cuts it down and opens up the hot. If too much hot, it cuts that down and opens up the cold. Whatever happens, the Valve will only deliver water at the temperature for which it has been set. Specify a Leonard for your next shower, wash-basin or wash fountain installations.

PLEASE WRITE FOR FULL PARTICULARS
QUOTING REF. 2/1879

WALKER, CROSWELLER & CO. LTD

WHADDON WORKS

CHELTENHAM, GLOS., ENGLAND

Ⓢ 6T.1879A



STRUCTURAL STEELWORK

No skeleton in our cupboard and no doubt about the framework of your building when the steel is erected by Thomas Blackburn's. Our long experience in all branches of structural steelwork is your safeguard—and is at your service always.

RAILINGS, GATES, METAL WINDOWS
WELDED VESSELS, RAINWATER GOODS

THOMAS BLACKBURN & SONS
LIMITED
INCORPORATING RUSSELL EDWARDS & CO. & STEVENSONS
PRESTON-LANCS

51

Emblem of Quality



ARMOUR BRAND

for

Protection

Durability

and Finish

Griffiths Bros. & Co

London Limited

PAINT, ENAMEL & VARNISH SPECIALISTS

MACKS ROAD, BERMONDSEY, SE16

TEL. BERMONDSEY 1151

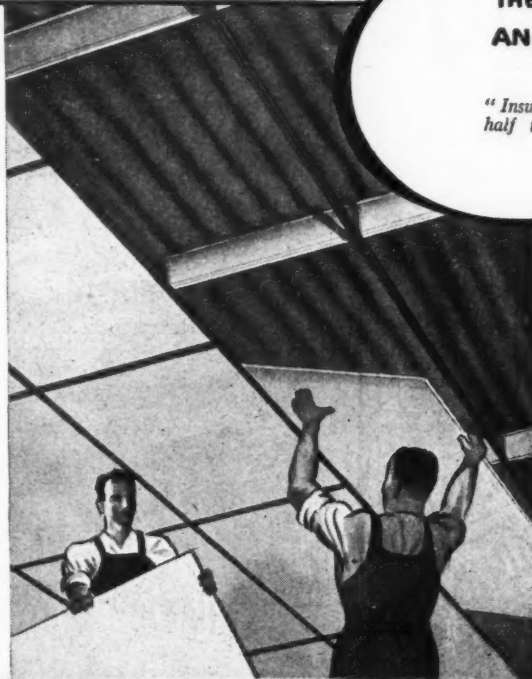
KEEP HEAT *INSIDE*

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

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

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

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



THE MINISTRY OF FUEL
AND POWER *Say...*

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

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

The importance of fuel costs and conservation, plus the comfort and well being of workers during winter months, is of a priority nature today—and many leading manufacturers (who of necessity during the war years and since have extended with un-insulated buildings) are alive to the fact, and suitable 'insulation' is now in progress.

The business of W. F. Hollway & Brother Ltd. is handling much of this work and invites those interested to contact them for details and estimates.

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



20%

increase in house space by installing a LOFT LADDER

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

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

Write for full particulars of construction, balancing units, finish, erection and prices of the various types.



LOFT LADDERS LTD

BROADWAY WORKS • BROMLEY • KENT
RAVENSBORNE 2624

INFORMATION SHEETS
free on request



PRE-CAST CONCRETE

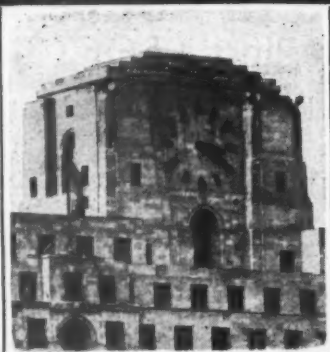


We are able to supply all kinds of pre-cast concrete products. As specialists in this field, our services are available for every type of work which calls for pre-cast concrete. Your requirements can be met by writing to—

'FORMACON' LTD

Specialists in pre-cast Concrete Products
The Trading Estate, Cowley Mill Road, Uxbridge, Middlesex
Tel: UXBRIDGE 2390

BELLS AND TOWER CLOCKS



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

TOWER CLOCKS

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

**RINGING PEALS, CHIMES
CARILLONS, SINGLE BELLS**

Please let us have your enquiries

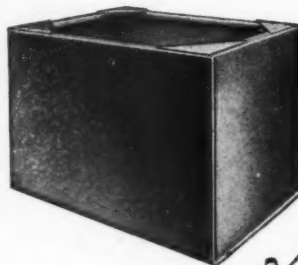
GILLETT & JOHNSTON LTD.

CROYDON, SURREY

Founders of Famous Bells

Tel: Thornton Heath 3221 (5 lines)

**JENKINS
GALVANIZED
ALL Welded TANKS.
CISTERNS & CYLINDERS**



Always Specify

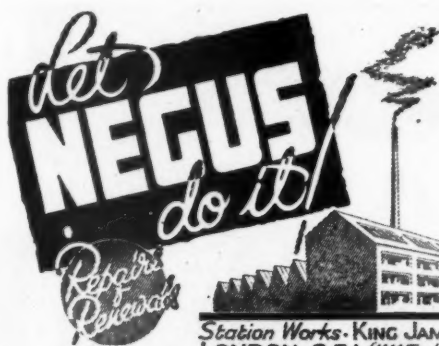
Jenkins

EXPORT ENQUIRIES INVITED

Robert Jenkins & Co Ltd.
ESTABLISHED 1855
ROTHERHAM

Telephone: 4201-6 (6 lines)

Hopwood



Station Works, KING JAMES ST.,
LONDON S.E.1 (WATERLOO 5474)



SILENCE
IS
GOLDEN

FIX

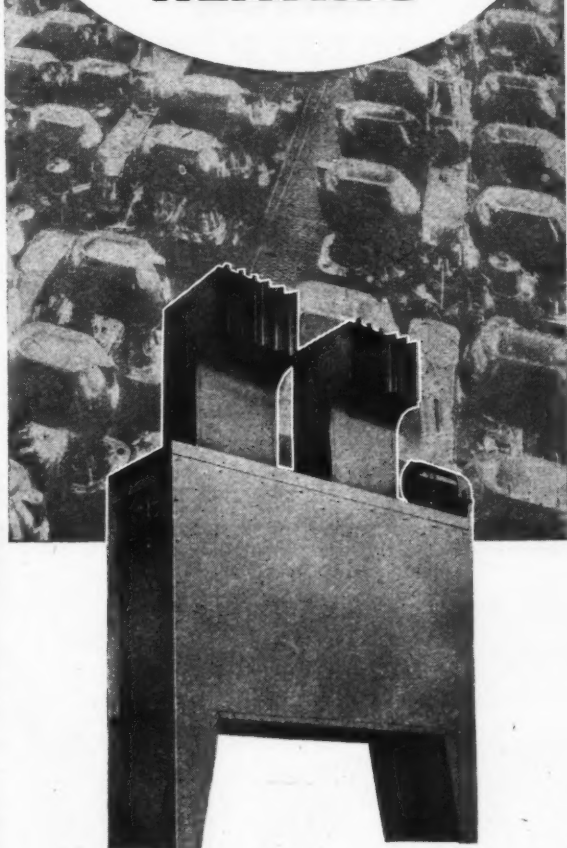
BALDWIN'S

Cast iron parliament hinges

Sole Manufacturers:

BALDWIN, SON & CO. LTD., STOURPORT-ON-SEVERN

FOR LARGE SPACE HEATING



IT'S "TORRIDAIRE"

This is a high velocity heater for large space heating, and is made in three types — floor model, wall model and ceiling model. For use on high or low pressure hot water and steam systems. Duties from 116,000 to 942,000 BTU per hour, 1575 to 16,500 C.F.M. with steam at 5 lbs. per sq. inch pressure and entering air at 70° F.

For further details please apply for Catalogue 137



BRITISH TRANE CO. LTD

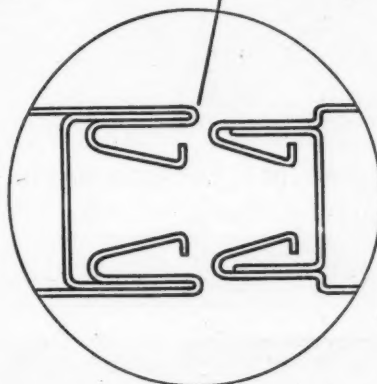
VECTAIR HOUSE, CLERKENWELL CLOSE, LONDON, E.C.1

*Phone: Clerkenwell 6864 & 3826. *Grams: Enatrane. Smith, London

Erected in 10 minutes . . .



Two girls who had never before seen SADCOLOK partitioning erected it themselves in under ten minutes.



The new patent lock joint that revolutionises partitioning . . .

Sadcolok partitioning is assembled on the Cecksen Lock joint principle which joins sheets of metal without bolts, nuts or welding, and there is no dirt or noise. The units are merely pushed together and require no skilled labour.

Note these other advantages:—

- 1 Suitable for interior or exterior use; for offices, works, complete structures, hotel conversions, etc.
- 2 Assembled without nuts, bolts, welding and can be built to any length, or height with a minimum of labour.
- 3 Can be erected and dismantled repeatedly without damage.
- 4 As the weight of the partitioning is only 14lbs. per foot run, loading on foundations, floors and walls, is kept to the absolute minimum.
- 5 Various forms of cladding can be used to suit requirements.
- 6 In durability, speed of erection and costs, there is no other form of partitioning to challenge it.
- 7 No permits are required and delivery is prompt.

SADCOLOK
TRADE MARK
PARTITIONING

Also for
Roofing,
Walling
etc.

SADCOLOK LTD., 220-222, Balham High Rd., London, S.W.12.

Sole Scottish Distributors: T. B. CAMPBELL & Sons Ltd., 29, Wellington St., Glasgow, G.2.

S.B. 170

INSULITE

the Wood-Fibre Insulating Board

More than 30 years
MANUFACTURING
EXPERIENCE
of
WOOD-FIBRE
INSULATING BOARD
and
HARDBOARD

INSULITE PRODUCTS CORPORATION LTD
10, HOBART PLACE, LONDON, S.W.1. SLOane 0428

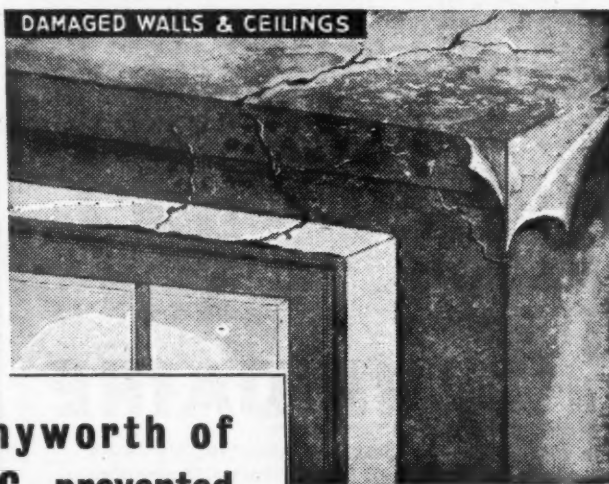
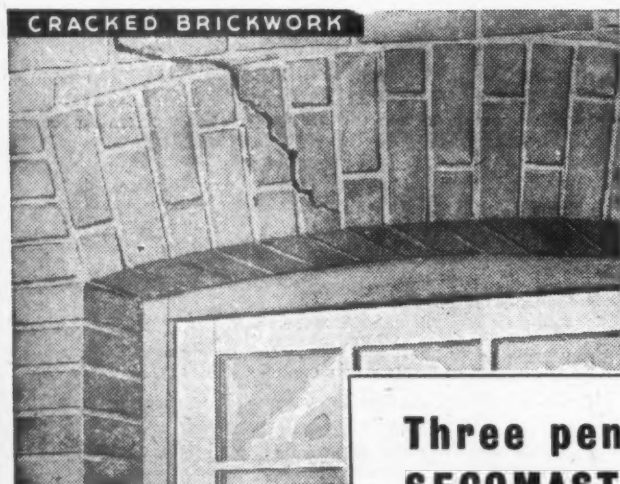


Worthy
OF ITS PLACE IN THE PLANS OF THE FUTURE

Functionally perfect and perfectly simple, the FORDHAM is still ahead of its time. The shell is a seamless steel pressing, unbreakable, frostproof and rustproof, yet so light in weight that installation requires minimum effort. Write to-day for full details.

The
Fordham
Seamless Steel FLUSHING CISTERN

FORDHAM PRESSINGS LIMITED, DUDLEY RD.
WOLVERHAMPTON PHONE: WOLVERHAMPTON 23861



Three pennyworth of
SECOMASTIC prevented
further deterioration

With SECOMASTIC it takes but a few minutes to make a lasting weatherproof seal that will take up expansion and contraction, remain flexible and never crack, crumble or fall out. There is nothing to equal SECOMASTIC for permanent repairs—seals window frames—corrugated roofs—fractured brickwork—precast concrete—renderings—rooflights—gutters—expansion joints—cracked tiles—sheds.



WRITE FOR
FURTHER
PARTICULARS
TO:-

SALES DEPT: 25, UPPER
BROOK STREET, PARK
LANE, LONDON, W.1.

A Specified Material

SECOMASTIC LTD., 25 UPPER BROOK STREET, PARK LANE, LONDON, W.1 • Tel.: MAYfair 9080

CLASSIFIED ADVERTISEMENTS

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

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

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

Public and Official Announcements

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

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

LONDON COUNTY COUNCIL.
HOUSING AND VALUATION DEPARTMENT.
ARCHITECTURAL ASSISTANTS. Applications are invited for positions of Architectural Assistant, at salaries of up to £880 a year. Commencing salaries will be determined according to qualifications and experience, and qualified candidates will be eligible for appointment to the permanent staff of the Department on the occurrence of vacancies. Engagement will involve Superannuation contributions at the rate of 6 per cent of salary.

Successful candidates will be required to undertake the design, layout, and preparation of working drawings for housing schemes (cottages and multi-storey flats), and will be employed in the Housing Architect's division.
Forms of application may be obtained from the Director of Housing, The County Hall, Westminster Bridge, S.E.1 (stamped addressed foolcap envelope required). Canvassing disqualifies. (870).

EAST KILBRIDE DEVELOPMENT CORPORATION (NEW TOWNS ACT, 1946).
APPOINTMENT OF ARCHITECTURAL AND PLANNING STAFF.

Applications are invited for planning and designing posts in connection with the early construction of the New Town at East Kilbride, Lanarkshire.

There are two senior positions covering the following aspects of the work:—(1) Planning, and (2) the design and layout of housing and public and other buildings. The architectural and planning staff is under the direction of the Chief Architect and Planning Officer, D. P. Reay, B.Arch., M.Sc., A.R.I.B.A., A.M.T.P.I.

The two posts are:—
£2,422/48 A: ASSISTANT CHIEF PLANNER.
£1,000 × £50—£1,250 p.a.
£1,700/48 A: ASSISTANT CHIEF ARCHITECT.
£1,000 × £50—£1,250 p.a.

Applications are also invited for the following posts:—

£1,033/48 A: SENIOR PLANNERS. £760 × £40—£1,000 p.a.
£1,024/48 A: SENIOR ARCHITECTS. £760 × £40—£1,000 p.a.

£1,021/48 A: LANDSCAPE ARCHITECT. £760 × £40—£1,000 p.a.

There is a superannuation scheme, and selected candidates will require to pass a medical examination. Applications, containing details of the candidate's age, qualifications and experience, together with the names of three referees, should be submitted in four copies to: The Technical and Scientific Register, Ministry of Labour and National Service, K. York House, Kingsway, London, W.C.2, not later than 30th November, 1948. Letters should state the title of the post applied for. There is no prescribed form of application. Canvassing, directly or indirectly, of the members of the Corporation will constitute an absolute disqualification. 677

REDFORDSHIRE COUNTY COUNCIL.

COUNTY ARCHITECT'S DEPARTMENT.
Vacancies on the permanent staff exist in the County Architect's Department for Assistant Architects as follows:—

(a) SENIOR ASSISTANT ARCHITECTS (A.P.T. VI). £305-£360.
(b) ASSISTANT ARCHITECTS (A.P.T. IV). £240-£300.

(c) JUNIOR ASSISTANT ARCHITECTS (A.P.T. I and II). £330-£435 and £290-£365.

Applicants should have had experience of the design and construction of County Buildings, and should be suitably qualified for the Grades for which they apply.

The Junior Grades offer good prospects for keen and hard working assistant architects.
The Council are unable to assist in providing housing accommodation, but are prepared to make an allowance of 75s. per week to married officers for each period as they have to maintain a family in another home.

All the above appointments are subject to the Local Government Superannuation Act, 1937, and to the National Joint Council Conditions of Service.

Application forms can be obtained from the County Architect, Shire Hall, Bedford, and should be returned to the undersigned not later than 28th November, 1948.

J. R. GRAHAM.

Clerk of the County Council.

Shire Hall, Bedford.
30th October, 1948.

744

SALOP COUNTY COUNCIL.
COUNTY ARCHITECT'S DEPARTMENT.

Applications are invited for the appointment of a SENIOR ASSISTANT ARCHITECT on A.P.T. Grade VI (£595 to £660 per annum).

Candidates must be Registered Architects and members of the R.I.B.A., and preference will be given to those who have had experience in the design and construction of schools. The successful applicant will be required to act as a Section Head, and some administrative ability will therefore be an advantage.

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

Application forms may be obtained from the County Architect, Mr. A. G. Chant, F.R.I.B.A., 5, Belmont, Shrewsbury, to whom they must be returned, accompanied by copies of not more than three recent testimonials, not later than Tuesday, 23rd November, 1948.

G. C. GODBER.

Clerk of the Council.

Shrewsbury.
October, 1948.

675

COUNTY OF LINCOLN—PARTS OF LINDSEY.
COUNTY ARCHITECT'S DEPARTMENT.

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

(a) SENIOR ASSISTANT ARCHITECT. Grade VII. £635 to £710.

(b) ASSISTANT ARCHITECTS (3 vacancies). Grades V and VI. £520 to £660.

(c) ASSISTANT ARCHITECTS (2 vacancies). Grade V. £520 to £570.

(d) ASSISTANT ARCHITECT. Grade IV. £480 to £575.

(e) SENIOR QUANTITY SURVEYOR. Grades VI and VII. £595 to £710.

(f) JUNIOR ENGINEERING DRAUGHTSMAN. Grade II. £420 to £465.

The scales are those of the A.P.T. Division of the National Scheme of Conditions of Service.

Candidates for appointments (a), (b), (c), and (d) must be Registered Architects, and preferably Associates of the R.I.B.A., and should have had good experience in the design and/or construction of modern buildings.

Candidates for (e) must be Chartered Quantity Surveyors, and should be capable of undertaking all stages of the work in the preparation of Specifications and Bills of Quantities, including preliminary estimates.

Candidates for (f) should be able to take off heat losses and prepare drawings of heating schemes from which tenders can be obtained.

The appointments are on the permanent staff of the County Council, and subject to the provisions of the Local Government Superannuation Act.

The successful candidates will be required to pass a medical examination, and all applicants must state whether to their knowledge they are related to Members or Senior Officers of the County Council.

Applications, stating age, qualifications, experience, and accompanied by copies of two recent testimonials, should be sent to A. R. Clark, A.R.I.B.A., A.M.T.P.I., County Architect, County Offices, Lincoln, not later than 22nd November, 1948. 687

SOMERSET COUNTY COUNCIL.
APPOINTMENT OF CHIEF QUANTITY SURVEYOR.

Applications are invited for the appointment of Chief Quantity Surveyor in the Architect's Department.

The appointment, which is subject to the Conditions of Service, and Scale of Salary of the National Joint Council, will be made within Grade VIII of the A.P. and T. Division (£685-£760 per annum); commencing salary according to experience. Candidates must have passed the Final examination of the Royal Institute of Chartered Surveyors (Quantities Section), and be fully experienced in the preparation of Bills of Quantities, Specifications and Estimates, and the settling up of Final Accounts. Candidates must particularly be experienced in the control and administration of a programme of building work being undertaken by the staff of the Quantity Surveying Section of the Department. Service with a Local Authority would be regarded as an advantage.

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

The County Council is unable to assist at the present in offering housing accommodation, but an allocation of a number of houses for 1949 has recently been received from the Ministry of Health for Staff housing purposes.

Applications, in sealed envelopes, endorsed "Chief Quantity Surveyor," stating age, qualifications and details of experience, and accompanied by copies of three testimonials, must be delivered to the undersigned on or before Thursday, the 18th November, 1948.

Canvassing will disqualify, and applicants must state any relationship to any member or senior official of the Council.

R. O. HARRIS, F.R.I.B.A.

County Architect.

Park Street, Taunton.
28th October, 1948.

716

BOROUGH OF SOUTHGATE.
BOROUGH ENGINEER AND SURVEYOR'S DEPARTMENT.
APPOINTMENT OF SENIOR ARCHITECTURAL ASSISTANT.

Applications are invited for the above-mentioned appointment in the Department of the Borough Engineer and Surveyor.

The salary will be Grade V (£520-£570) of the A.P.T. Division of the National Joint Council Scales, plus the appropriate London weighting.

Applicants must be Associate Members of the Royal Institute of British Architects or hold an equivalent qualification.

Forms of application may be obtained from the Borough Engineer and Surveyor, and should be returned to the undersigned not later than 9 a.m. on Monday, the 22nd November, 1948.

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

GORDON H. TAYLOR.

Town Clerk.
Town Hall, Palmers Green, London, N.13.

706

GLOUCESTERSHIRE COUNTY COUNCIL.
COUNTY ARCHITECT'S DEPARTMENT.

Applications are invited for the following appointments:—

(a) ASSISTANT ARCHITECTS.

Candidates should be qualified members of the R.I.B.A., with good general experience in design and construction of public buildings, including schools.

A.P. and T. Grade V, and eligible for promotion to A.P. and T. Grade VI, according to experience.

(b) ARCHITECTURAL ASSISTANTS.

Candidates should have passed the Intermediate examination of the R.I.B.A., with general experience in design and construction.

A.P. and T. Grade IV.

(c) JUNIOR ARCHITECTURAL ASSISTANTS.

Salary in accordance with experience. A.P. and T. Grades I, II or III.

Appointments will be subject to the Local Government Superannuation Act, 1937, and candidates, before appointment, will be required to pass a medical examination.

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

Applications, stating (1) name and address, (2) married or single, (3) age, (4) qualifications, (5) present position, salary and date of appointment, (6) previous positions with dates and salaries, (7) particulars of experience, and accompanied by copies of three recent testimonials, should be sent to S. E. Urwin, F.R.I.B.A., County Architect, Shire Hall, Gloucester, not later than Friday, the 19th November, 1948.

GUY H. DAVIS.

Clerk of the County Council.

26th October, 1948.

697

CUMBERLAND COUNTY COUNCIL.

Applications are invited for the appointment of a CLERK OF WORKS, to supervise the erection of a new Secondary School at Vigton.

The inclusive wage will be £9 9s. per week.

Applicants should have good practical knowledge of all trades and experience in the erection of steel-frame buildings, and should be able to measure up work.

The appointment will be temporary and subject to four weeks' notice on either side.

Applications, stating age, present employment, qualifications and experience, together with copies of three testimonials, should be delivered to John H. Haughan, F.R.I.B.A., County Architect, 15, Portland Square, Carlisle, not later than 22nd November, 1948.

G. N. C. SWIFT.

Clerk of the County Council.

October, 1948.

696

SKIPTON URBAN DISTRICT COUNCIL.

ARCHITECTURAL ASSISTANT.

Applications are invited for the above appointment, at a salary within Grade IV of the National Scales (£480-£525 per annum). The commencing salary of the successful candidate will be determined according to experience and qualifications.

Housing accommodation will be made available if required.

The appointment will not be made to the permanent staff, but it is anticipated that the Council's Housing Programme will continue for at least 5 years.

Applications, on forms to be obtained from the undersigned, and giving the names and addresses of three persons to whom reference may be made, should be sent, in an envelope endorsed "Architectural Assistant," so as to be received by the undersigned not later than Monday, 22nd November, 1948.

K. B. ROBINSON, R.Sc.(Eng.).

A.M.Inst.C.E.

Engineer and Surveyor.

Town Hall, Skipton.

29th October, 1948.

713

LONDON COUNTY COUNCIL.

Required at Hammersmith School of Building and Arts and Crafts, Lime Grove, W.12, in the Secondary (Technical) School of Building, to commence if possible on 10th January, 1949, a full-time TEACHER of Technical Subjects, mainly building construction and geometry. Applicants should possess an appropriate City and Guilds Full Technological Certificate or Higher National Certificate in Building or their equivalent; some experience of teaching students of 13 to 17 years of age desirable. An interest in general school activities will be expected. Burnham (primary and secondary) scale salary, plus London allowance. Application forms (stamped addressed foolcap envelope necessary) from the secretary at the school, returnable by 6th December, 1948.

(2143)

736

**LONDON COUNTY COUNCIL.
VACANCIES FOR QUANTITY SURVEYORS
AND ASSISTANTS IN ARCHITECT'S
DEPARTMENT.
SURVEYOR. Grade III. £550-£700 a year.**

TEMPORARY TECHNICAL ASSISTANT:
(a) £440-£520-£580 a year.
(b) Up to 167s. 6d. a week.
Commencing rates according to qualifications and experience.

Candidates for Grade III positions should be Associates of the Royal Institution of Chartered Surveyors, and be experienced in abstracting and billing, estimating, interim valuations for payments on account, measuring, adjusting and agreeing final accounts, "taking off," and the preparation of Bills of Quantities. Other candidates should also have a working knowledge of these matters.

Successful candidates will be superannuable, and will be considered for permanent appointment as vacancies arise.

Application forms from Architect (Q), County Hall, Westminster Bridge, S.E.1, enclosing stamped addressing foolscap envelope. Canvassing disqualified. (2091) 639

**EAST SUFFOLK COUNTY COUNCIL.
COUNTY ARCHITECT'S DEPARTMENT.**

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

(a) **GRADE A ASSISTANT ARCHITECTS.** A.P.T., Grades V and VI. Consolidated salary, £520-£660.

(b) **GRADE B ASSISTANT ARCHITECTS.** A.P.T., Grades III and IV. Consolidated salary, £450-£525.

The commencing salary in the grades will be fixed according to the qualifications and experience of the candidate.

Applicants for appointment (a) must be Registered Architects, and preferably Associates of the R.I.B.A. The work to be dealt with is that normally carried out by a Local Authority. Candidates must be quick and accurate draughtsmen, capable of carrying a job through in all its stages, and with a sound knowledge of design, building construction and specifications, and must have had at least five years' office experience, excluding articles, etc.

Applicants for appointment (b) must be Registered Architects, and preferably Members of the R.I.B.A. They must be quick and accurate draughtsmen, fully conversant with 1 in. scale, half inch and full size details for all types of buildings normally dealt with by a Local Authority, and have a good knowledge of design, construction and specifications.

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

Applications, stating age, qualifications, and full details of previous experience, accompanied by copies of three recent testimonials, should be sent to R. J. Symcox, F.R.I.B.A., County Architect, County Hall, Ipswich, not later than 20th November, 1948.

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

G. C. LIGHTFOOT,
Clerk of the Council.
County Hall, Ipswich. 717

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

Applications are invited for the following appointment on the permanent staff:—

QUANTITY SURVEYOR (FITTINGS). Grade VI. Salary £595-£660 per annum. Candidates should have experience in the preparation of Estimates, Specifications and Schedules for furniture and fittings of new Schools and County Buildings, and also Bills of Quantities for buildings of various types. Preference will be given to Associates of the Royal Institution of Chartered Surveyors.

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

Applications should be forwarded on the forms to be obtained from the County Architect, G. Noel Hill, F.R.I.B.A., M.T.P.I., County Offices, Preston, to whom they should be returned accompanied by copies of three recent testimonials, to arrive not later than Thursday, 25th November.

R. H. ADCOCK,
Clerk of the County Council.
County Offices, Preston. 735

BUSHEY URBAN DISTRICT COUNCIL.

TEMPORARY ARCHITECTURAL ASSISTANT. Applications are invited for the above appointment, at a salary of £600 per annum.

The appointment will be terminable by one month's notice on either side, but, subject to satisfactory service, may continue until the completion of work on the Council's proposed permanent housing scheme.

Candidates should be experienced in the preparation of layout and design plans, and specifications of housing estates. The person appointed will act under the direction of the Engineer and Surveyor.

Applications, giving age and full details of qualifications and experience, together with the names of two persons to whom reference can be made, should reach me by the 6th December, 1948.

S. F. A. CLARKE,
Clerk of the Council.
Council Offices, Rudolph Road, Bushey, Herts. 731
5th November, 1948.

**CITY OF PLYMOUTH.
CITY ARCHITECT'S DEPARTMENT.**

Applications are invited for the following appointments on the established staff, which are subject to the Local Government Superannuation Act, 1937, a satisfactory medical examination, and a month's notice on either side for termination.

(a) **FOUR SENIOR ASSISTANT ARCHITECTS.** A.P.T., Grade VI. Consolidated salary £595-£660.

(b) **TWO ASSISTANT ARCHITECTS.** A.P.T., Grade V. Consolidated salary £520-£570.

(c) **ONE ASSISTANT ARCHITECT.** A.P.T., Grade IV. Consolidated salary £450-£525.

(d) **ONE ASSISTANT ARCHITECT.** A.P.T., Grade III. Consolidated salary £450-£495.

This Department is normally responsible for the whole of the Corporation's Architectural Work, including Housing, Education and General Municipal Buildings, and offers considerable scope for candidates with initiative and energy.

Candidates for appointments (a) and (b) must be Registered Architects and Members of the R.I.B.A.

In the case of appointments (c) and (d), preference will be given to candidates who have passed at least the Intermediate examination of the R.I.B.A.

Candidates must not be over 40 years of age, but this condition may be relaxed in the case of a person up to 45 years of age employed by another Local Authority.

Applications, on forms obtainable from the undersigned, accompanied by copies of not more than three recent testimonials and/or names of persons to whom reference may be made, must be returned not later than Saturday, 20th November, 1948.

Housing accommodation will be made available to successful married applicants who require it.

M. G. CATCHPOLE, A.R.I.B.A.,
City Architect.
City Architect's Department,
Seymour Road, Plymouth. 730

**CUMBERLAND COUNTY COUNCIL.
PLANNING ASSISTANT.**

Applications are invited for the above appointment in the Department of the County Planning Officer. The commencing salary for this post will be within Grade VI of the National Scales (£595-£660 per annum). A car allowance will be paid in accordance with the Council's scale, subject to variation from time to time, but at present a standing charge of £50 per annum, plus a mileage allowance, and subsistence according to the National Charter scales. The appointment is subject to the Local Government Superannuation Act, 1937, and the successful candidate will be required to undergo a medical examination. The appointment will be terminable by one month's notice in writing on either side. Applicants must be Members or Associate Members of the Town Planning Institute and a qualification in Architecture or in Engineering will be an advantage. The commencing salary on the grade will be determined according to the successful candidate's previous experience. Applicants must be fully conversant with the Town and Country Planning Acts and Orders made thereunder, and be fully competent to carry out field work, plotting and the preparation of plans, and have had experience with a Planning Authority.

Application forms for this appointment are obtainable on request from the County Planning Officer, Citadel Chambers, Carlisle, to whom completed applications, accompanied by a copy of one testimonial and the names and addresses of two referees, and endorsed "Planning Assistant," should be forwarded, using the prescribed form, to arrive not later than first post on Monday, 22nd November, 1948.

G. N. C. SWIFT,
Clerk of the County Council.
The Courts, Carlisle. 725

CITY AND COUNTY OF THE CITY OF LINCOLN.

APPOINTMENT OF ARCHITECTURAL STAFF. Applications are invited for the following appointments on the permanent staff of the City Engineer and Surveyor:—

(a) **SENIOR ARCHITECTURAL ASSISTANT.** Grade V (1939-1970).

(b) **ARCHITECTURAL ASSISTANT.** Grade IV (£490-£525).

(c) **ARCHITECTURAL ASSISTANT.** Grade III (£450-£495).

The scales are those of the A.P. and T. Division of the National Scales of Salaries.

Candidates for appointment (a) should be Associate Members of the R.I.B.A., and have had experience in the design and construction of school buildings. Candidates for appointment (b) must be Registered Architects. Candidates for appointment (c) should have passed the Intermediate examination of the R.I.B.A.

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

Application forms may be obtained from A. Adkinson, A.M.I.C.E. City Engineer and Surveyor, Silver Street, Lincoln, and should be returned to him in envelopes endorsed "Architectural Appointment," so as to be received not later than the 20th November, 1948.

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

(Sgd.) J. H. SMITH,
Town Clerk.
Corporation Offices, Lincoln.
30th October, 1948. 719

**CRICKLADE AND WOOTTON BASSETT
RURAL DISTRICT COUNCIL.**

ARCHITECT AND SURVEYOR.

Applications are invited for the above appointment from persons possessing Local Government experience.

Candidates should be Members of the Royal Institute of British Architects, Corporate Members of the Institution of Civil Engineers, or possess equivalent qualifications.

There is a possibility of housing accommodation being available in the near future, if required.

The appointment will be subject to the provisions of the Local Government Officers' Superannuation Act, 1937.

Applications, stating salary required, age, qualifications, and details of present and past appointments, should reach the undersigned, together with copies of three recent testimonials, not later than 30th November, 1948, endorsed "Architect and Surveyor."

W. J. HOSIER,
Deputy Clerk of the Council.
Council Offices, Wootton Bassett, Wilts.
5th November, 1948. 712

KENT COUNTY COUNCIL.

Applications are invited for four appointments of ASSISTANT ARCHITECTS, each at a salary in accordance with A.P.T., Division, Grade V(a) (£520-£600 a year).

The posts are superannuable, and successful candidates will be required to pass a medical examination.

Candidates must be Members of the Royal Institute of British Architects, and have good general experience in modern building practice. Previous service with a Local Authority is not essential.

Forms of application may be obtained from the County Architect, Springfield, Maidstone, within 14 days of the date on which this advertisement appears.

W. L. PLATTS,
Clerk of the County Council.
County Hall, Maidstone.
November, 1948. 732

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

Applications are invited for the following appointments:—

ASSISTANT ARCHITECT (Grade VI). Commencing salary £595, rising by annual increments of £20/£25 to a maximum of £650, plus London allowance of £30.

Applicants must be Associate Members of the Royal Institute of British Architects, and should have had a good training and an adequate experience in the design and construction of modern buildings.

It is desirable that applications should be accompanied by a small sample of the applicant's work.

ASSISTANT QUANTITY SURVEYOR (Grade III).

Commencing salary £450, rising by annual increments of £15 to a maximum of £495 per annum, plus London allowance of £30.

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

Applications, stating age, qualifications and experience, and accompanied by copies of three recent testimonials, should be sent to the County Architect, Surrey County Council, County Hall, Kingston-upon-Thames, not later than the 20th November, 1948.

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

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

DUDLEY AUKLAND,
Clerk of the Council.
County Hall, Kingston-upon-Thames. 690

**BOROUGH OF WILLESDEN.
APPOINTMENT OF ARCHITECTURAL ASSISTANT.**

The Council invite applications for the appointment of SECOND-CLASS ARCHITECTURAL ASSISTANT, on the permanent staff of the Borough Engineer and Surveyor's Department.

The salary attaching to the post will be Administrative, Professional and Technical, Grade V, of the National Whitley Council's Scale for the London area, namely, £550 per annum by two annual increments of £15 and one of £20 to £600 per annum.

Candidates must be Associates of the Royal Institute of British Architects or hold an equivalent qualification, and preferably have general knowledge and experience of architectural work in the service of a Local Authority.

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

Applications, giving age, experience, etc., accompanied by copies of not more than three testimonials, should be addressed to the undersigned, endorsed "Architectural Assistant," not later than 10 a.m. on Monday, 22nd November, 1948.

It will be necessary for the successful candidate to provide his own housing accommodation as the Council is not in a position to assist.

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

(Sgd.) R. S. FORSTER,
Town Clerk.
Town Hall, Dyne Road, Kilburn, N.W.6.
28th October, 1948. 733

CITY AND COUNTY OF THE CITY OF EXETER.

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

(a) **PRINCIPAL ASSISTANT PLANNING ARCHITECT.** Salary A.P.T., Grade VII, i.e., £635 per annum to £710 per annum. Duties will include architectural and detailed planning work in connection with the reconstruction of the built-up central areas of the City. Candidates must be Associate Members of the Royal Institute of British Architects, competent in large-scale design and detailed construction, and experience in Town Planning will be an advantage.

(b) **SENIOR ASSISTANT ARCHITECTS.** Salary A.P.T., Grade V, i.e., £520 per annum to £570 per annum. Candidates must be Associate Members of the Royal Institute of British Architects.

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

Successful applicants will be required to pass a medical examination.

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

Applications, stating age, qualifications, previous and present appointments and salaries, details of experience, and the earliest possible date when available, together with copies of recent testimonials, should be sent to H. B. Ewens, F.R.I.B.A., A.M.I.Struct.E., City Architect, Southernhay West, Exeter, not later than the 27th November, 1948.

C. J. NEWMAN,
Town Clerk.

Exeter, 1st November, 1948. 748

GLAMORGAN COUNTY COUNCIL.

Applications are invited for the following appointments on the Temporary Clerical Staff of the Architect's Department:—

UNIT COSTING CLERKS.

Candidates will be required to hold the National Higher Certificate of Building or equivalent in experience, and also to be experienced in unit costing of substantial building works, analysed from time sheets, invoices, etc.

The salary scale for these appointments is the Higher Clerical Division of the National Scheme of Conditions of Service, i.e., £440-£485 p.a. 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.

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 for the above appointments, on forms which may be obtained from I. R. Gower, F.R.I.B.A., Glamorgan County Architect, County Hall, Cardiff, must be returned to him in sealed envelopes appropriately endorsed within 21 days of the appearance of this advertisement.

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

D. J. PARRY,
Clerk of the County Council.

Glamorgan County Hall, Cardiff, 1st November, 1948. 738

METROPOLITAN BOROUGH OF LEWISHAM. BOROUGH ARCHITECT'S DEPARTMENT.

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

(1) **ARCHITECTURAL ASSISTANT.** Class II. Salary scale A.P.T. Division, Grades IV and V (£490, rising to £570 per annum, plus London "weighting," varying between £10 and £30 per annum, according to age).

(2) **SURVEYING ASSISTANT.** Salary scale A.P.T. Division, Grade IV (£490, rising to £525 per annum, plus London "weighting," varying between £10 and £30 per annum, according to age).

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

Candidates for appointment (1) must have passed the Intermediate examination of the Royal Institute of British Architects or possess equivalent qualifications, and preference will be given to those applicants with experience in design and construction of housing estates and multi-storey flats.

Candidates for appointment (2) must be Associates of the Royal Institution of Chartered Surveyors or hold equivalent qualifications.

Forms of application may be obtained from me and should be returned, accompanied by copies of not more than three recent testimonials, addressed to me in an envelope endorsed with the name of the appointment applied for, so as to be received not later than Saturday, the 27th November, 1948.

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

ALAN MILNER SMITH,
Town Clerk.

Lewisham Town Hall, Catford, S.E.6. 746

NOTTINGHAMSHIRE COUNTY COUNCIL. APPOINTMENT OF AREA PLANNING OFFICER.

WEST NOTTINGHAMSHIRE PLANNING SUB-COMMITTEE.

Applications are invited for the above appointment, at a salary of £260 per annum, rising by annual increments of £20 to £360 per annum.

The Area Planning Office is situated at Mansfield. Applicants must be Corporate Members of the Town Planning Institute, and preference will be given to those who also hold recognized qualifications in Engineering, Architecture or Surveying. Experience in the preparation of Planning Schemes and of general administrative work with a Local Authority is necessary.

Further details and conditions of the appointment may be obtained from my office, and completed applications should be received by me not later than 30th November, 1948.

K. TWEEDALE MEABY,
Clerk of the County Council.

Shire Hall, Nottingham. 737

WOKING URBAN DISTRICT COUNCIL. APPOINTMENT OF SECOND ARCHITECTURAL ASSISTANT.

Applications are invited for the above permanent appointment, in the Engineer and Surveyor's Department, at a salary in accordance with A.P.T. Division, Grade III (£450-£495 per annum).

Candidates should have had good general training and experience, and have passed the Intermediate examination of the R.I.B.A. or other qualifying examination.

The appointment, which will be subject to the provisions of the Local Government Superannuation Act, 1937, and the passing of a medical examination, may be terminated by one month's written notice on either side. Housing accommodation will be available if necessary.

Form of application may be obtained from Mr. H. P. Tame, A.M.I.C.E., M.T.P.I., Registered Architect, Engineer and Surveyor, Council Offices, Woking, and should be returned endorsed "Second Architectural Assistant," together with copies of three recent testimonials, to the undersigned not later than Monday, 25th November, 1948.

F. H. SMITH,
Clerk to the Council.

Council Offices, Woking, 2nd November, 1948. 743

Amended Advertisement. PENARTH URBAN DISTRICT COUNCIL.

APPOINTMENT OF ARCHITECTURAL ASSISTANT.

Applications are invited for the permanent appointment of Architectural Assistant, at a salary in accordance with A.P.T. Grade VI (£595-£660) of the National Scale of Salaries.

Applicants should be Associates of the Royal Institute of British Architects or hold an equivalent qualification, and have had experience in the general architectural and housing work of a Local Authority, including the preparation of Working Drawings, Specifications and Quantities, and be not more than 45 years of age.

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

Housing accommodation will be provided, if required.

Applications, endorsed "Architectural Assistant," stating age, training, qualifications, present and previous appointments and experience, together with copies of not more than two recent testimonials, should reach the undersigned not later than the 3rd day of December, 1948.

Canvassing will disqualify.

Dated this 5th day of November, 1948.

P. METCALF,
Clerk of the Council.

Council Offices, "West House," Stanwell Road, Penarth. 742

NORTHWICH RURAL DISTRICT COUNCIL.

ARCHITECTURAL ASSISTANT.

The Council has received approval to their carrying out, within the next five years, a large Housing Programme, comprising the erection of at least 3,000 houses, and this involves work for Architectural and Technical Officers in the complete development of Estates. The under-mentioned appointment remains to be made, and applications are invited from persons who have suitable experience. Professional qualifications will be an additional advantage. The appointment, though temporary in nature, will continue for at least five years. The appointment will be subject to one month's notice on either side, and the person appointed will be required to submit for a medical examination in connection with the Council's Superannuation Scheme.

Grade V. Salary £520 × £15 × £15 × £20 to £570 per annum.

Applicants must have had considerable experience in architectural work in connection with Local Authorities' Housing Estates. Experience in Street and Sewer Works will be an advantage.

Applications, stating age and other particulars, qualifications and experience, and the names of two persons to whom reference may be made, must reach the undersigned not later than 22nd November, 1948.

Any further particulars which may be required may be obtained on application to the Council's Engineer and Surveyor at his office, Whitehall, Hartford, Northwich, Cheshire.

Housing accommodation will be available for the successful applicant if this is required.

W. F. CRAWFORD,
Clerk of the Council.

Whitehall, Hartford, Northwich, Cheshire. 734

FLINTSHIRE COUNTY COUNCIL. COUNTY PLANNING DEPARTMENT.

Applications are invited for the following appointments:—

PLANNING ASSISTANT (ARCHITECTURAL), at a salary in accordance with Grade A.P.T., V (£520, rising to £570 per annum, consolidated). Applicants should have had considerable experience, including the control of development, in the Planning Office of a local authority or joint planning committee, and particularly on the architectural side of planning. The possession of a recognized architectural qualification and Corporate Membership of the Town Planning Institute is desirable. A car is essential in connection with the appointment, for which an allowance will be made in accordance with the National Joint Council's scale.

PLANNING ASSISTANTS (two vacancies), at a salary in accordance with Grade A.P.T., II (£420, rising to £465 per annum, consolidated). Applicants should have had experience in the work of the Planning Office of a local authority or joint planning committee, including the preparation of planning schemes and the control of development. A car or motor cycle is desirable in connection with the appointments, for which an allowance will be made in accordance with the National Joint Council's scale.

All the appointments will be subject to (a) the National Scheme of Conditions of Service, as modified by the County Council; (b) the Local Government Superannuation Act, 1937, and (c) the passing satisfactorily of a medical examination. Applications will be considered from registered disabled persons.

Applications, on forms to be obtained from the undersigned, accompanied by copy of one recent testimonial and the names and addresses of two other persons to whom direct reference can be made, are to be submitted to me not later than the 6th December, 1948.

W. HUGH JONES,
Clerk of the County Council.

County Buildings, Mold, 4th November, 1948. 772

BOROUGH OF NEATH. BOROUGH ENGINEER'S DEPARTMENT.

Appointment of:—

(a) ARCHITECTURAL ASSISTANT.

(b) JUNIOR ENGINEERING ASSISTANT.

Applications are invited for the above permanent appointments in the Borough Engineer's Department.

Candidates for (a) should have experience in preparation of Plans, Specifications and Bills of Materials for Housing Schemes, including Roads and Sewers. The salary will be A.P.T., IV, £480 to £525, by three annual increments of £15.

Candidates for (b) should have a good general Municipal experience in Engineering Works. The salary will be A.P.T., I, £390 to £435, by three annual increments of £15.

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

The appointments may be terminated by one month's notice on either side.

Applications, stating age, qualifications, experience, and accompanied by copies of three recent testimonials, should be sent to the undersigned, together with the name of the appointment applied for, so as to be received not later than 30th November, 1948.

ALFRED E. I. CURTIS,
Town Clerk.

4th November, 1948. 763

CITY OF WAKEFIELD. CITY ENGINEER'S DEPARTMENT.

ARCHITECTURAL ASSISTANT (GRADE II).

Applications are invited for the appointment of an Architectural Assistant, at Grade A.P.T., II (£420-£465).

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

Candidates should state in writing whether to their knowledge they are related to any member or senior officer of the Council. Canvassing will be a disqualification.

Applications, endorsed "Architectural Assistant," stating age, qualifications, present and previous appointments and experience, accompanied by copies of two testimonials, should be sent to me not later than Saturday, the 27th November, 1948.

W. S. DES FORGES,
Town Clerk.

Town Hall, Wakefield, 3rd November, 1948. 759

WEST SUSSEX COUNTY COUNCIL. COUNTY ARCHITECT'S DEPARTMENT.

Applications are invited for the following appointments, at salaries in accordance with the National Scale of Salaries (bonus consolidated):—

(a) ASSISTANT MAINTENANCE SURVEYOR AND CLERK OF WORKS. A.P.T. Division, Grade I (salary £390 to £435 per annum).

(b) JUNIOR ASSISTANT ARCHITECT. A.P.T. Division, Grade I (salary £390 to £435 per annum).

(c) **JUNIOR DRAUGHTSMAN.** General Division (salary according to age—male, rising to £355 per annum at 32).

Further particulars should be obtained from F. R. Steele, F.R.I.B.A., F.R.I.C.S., M.T.P.I., County Architect, County Hall, Chichester, to whom detailed applications must be submitted not later than the 24th November, 1948.

T. C. HAYWARD,
Clerk of the County Council.

County Hall, Chichester, 2nd November, 1948. 761

CITY OF PETERBOROUGH.
CITY ENGINEER AND SURVEYOR'S
DEPARTMENT.

Applications are invited for the appointment of a QUANTITY SURVEYOR, in the Architectural Section of the City Engineer and Surveyor's Department, at a salary in accordance with Grade IV, A.P.T., i.e., £430, rising by annual increments to £525 per annum. Applicants must be capable of abstracting and billing, measuring up on site, and agreeing final accounts. Experience in Prime Cost Contracts will be an advantage. The City Council have adopted the National Scheme of Conditions of Service. The appointment is subject to the provisions of the Local Government Superannuation Act, 1937, and the successful applicant will be required to pass a medical examination. Applications, stating age, qualifications and experience, accompanied by copies of not more than three recent testimonials and suitably endorsed, must be delivered to the undersigned not later than 25th November, 1948. Applicants must disclose whether they are related to any Senior Official or Member of the Authority.

ARTHUR J. REEVES,
Town Clerk.

Town Hall, Peterborough.
October, 1948.

750

CITY OF WAKEFIELD.
CITY ENGINEER'S DEPARTMENT
CHIEF TOWN PLANNING ASSISTANT
(GRADE VII).

Applications are invited for the appointment of Chief Town Planning Assistant, at Grade A.P.T., VII. (£635-£710).

The successful applicant will be required to take charge of the Town Planning Section of the City Engineer's Department under the direction of the City Engineer, and applicants should hold a Town Planning qualification.

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

Candidates should state in writing whether to their knowledge they are related to any member or senior officer of the Council. Canvassing will be a disqualification.

Applications, endorsed "Chief Town Planning Assistant," stating age, qualifications, present and previous appointments and experience, should be accompanied by copies of two testimonials, and sent to me not later than Saturday, the 27th November, 1948.

The Council will give favourable consideration to the provision of housing accommodation.

W. S. DES FORGES,
Town Clerk.

Town Hall, Wakefield.
3rd November, 1948.

753

MIDDLESEX COUNTY COUNCIL.
COUNTY PLANNING DEPARTMENT.

Applications are invited for the following appointments:

(a) TWO AREA PLANNING OFFICERS (£850 x £50-£1100 p.a. inclusive). Special responsibilities for development control, survey and planning in the portion of the county allotted, and, on behalf of the County Planning Officer, responsible to the Area Planning Committee concerned; also required to work with the County Planning Officer in the planning of the county generally. Should be Members or Associate Members of Town Planning Institute, preferably with complementary qualifications, with good experience of Town Planning design and administration, and collaboration with borough and urban district councils.

(b) NINE PLANNING ASSISTANTS, Grade A.P.T., IV, rising to A.P.T., V (£480-£570 p.a., plus £20-£30 London weighting, according to age) required both in the Area Planning Sections and the Headquarters Section of the County Planning Department. Duties include preparation of maps, reports and plans, investigation of data, and work on development control. Should have Town Planning experience and have passed the Intermediate examination of the Town Planning Institute, but other appropriate examinations and qualifications considered.

Established, pensionable posts, subject to medical examination. Applications, stating age, experience, qualifications, with three recent testimonials, to the undersigned by the 19th December (quoting F.73, A.J.). Canvassing disqualifies.

C. W. RADCLIFFE,
Clerk of the County Council.

Middlesex Guildhall, S.W.1.

779

COUNTY BOROUGH OF SOUTHAMPTON.
APPOINTMENT OF DEPUTY BOROUGH
ARCHITECT.

Applications from qualified architects are invited for this appointment. The salary offered (inclusive of cost-of-living bonus) is £250 per annum, rising by annual increments of £50 each to £1,000 per annum. The appointment will be subject to three months' notice and to the Local Government Superannuation Act, 1937, and the successful candidate will be required to pass a medical examination.

Applications, stating age and qualifications and present salary, and giving full particulars of experience (including Town Planning experience), and of present and all previous appointments, together with copies of three recent testimonials, and the names and addresses of three responsible persons of standing to whom reference may be made, must be delivered to the undersigned in sealed envelopes, endorsed "Deputy Borough Architect," before 9th December, 1948. There is no prescribed form of application.

R. RONALD H. MEGGISON,
Town Clerk.

Town Clerk's Office, Civic Centre, Southampton.
5th November, 1948.

776

METROPOLITAN BOROUGH OF
SHOREDITCH.
BOROUGH ARCHITECT AND SURVEYOR'S
DEPARTMENT.

Applications are invited for the following appointments:

(1) ARCHITECTURAL ASSISTANT, Grade IV (£480-£525 per annum, plus London weighting).
(2) JUNIOR ARCHITECTURAL ASSISTANT, Grade I (£390-£435 per annum, plus London weighting).

Applicants for post (1) must have had previous Municipal experience, and will be required to undertake design, layout and preparation of working drawings for housing schemes, particularly flats.

For appointment (2) candidates must have had a good training in Architecture.

Preference will be given to candidates with professional qualifications.

The appointments will be subject to a medical examination, and the Council's Superannuation Scheme and general conditions of service.

Applications, endorsed "Architectural Assistant" or "Junior Architectural Assistant," as the case may be, stating age, training, qualifications and experience, and enclosing copies of two recent testimonials, should be delivered to the undersigned not later than 30th November, 1948.

CHARLES A. JAMES,
Town Clerk.

Town Hall, Old Street, E.C.1.
5th November, 1948.

787

CROWN AGENTS FOR THE COLONIES.

Applications from qualified candidates are invited for the following post:

ARCHITECTURAL DRAUGHTSMAN required by the Government of Kenya for four years in first instance. Commencing salary according to experience, in the scale £670 a year, rising to £840 a year. Free passages. Outfit allowance £24. Candidates should be accurate and rapid draughtsmen, with sound knowledge of building construction and with architect's office experience. Apply at once by letter, stating age, whether married or single and full particulars of qualifications and experience, and mentioning this notice, to the Crown Agents for the Colonies, 4, Millbank, London, S.W.1, quoting M/N/24272/3D on both letter and envelope.

786

CITY AND COUNTY OF NEWCASTLE-UPON-TYNE.

CITY ARCHITECT'S DEPARTMENT.

Applications are invited for the following appointments:

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

(b) SENIOR ASSISTANT ARCHITECTS. Salary £530 per annum, rising to £570 per annum (A.P.T., Grade V).

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

(d) ASSISTANT ARCHITECTS. Salary £450 per annum, rising to £495 per annum (A.P.T., Grade III).

(e) ARCHITECTURAL ASSISTANTS. Salary £420 per annum, rising to £465 per annum (A.P.T., Grade II).

(f) ONE QUANTITY SURVEYING ASSISTANT. Salary £450 per annum, rising to £495 per annum (A.P.T., Grade III).

Applicants for appointments (a) and (b) should be Associates of the Royal Institute of British Architects, and have had a thorough training in design and construction, preferably that of a School of Architecture, and must have had wide experience in the preparation of sketch plans, working drawings and details.

Applicants for appointments (c) and (d) should have passed the Intermediate examination of the Royal Institute of British Architects.

Applicants for appointment (f) must have had experience in the preparation of Bills of Materials, Specifications, Estimates, and the settlement of Final Accounts on all kinds of building contracts.

The appointments will be subject to the National Conditions of Service as adopted by the City Council; to the provision of the Local Government Superannuation Act, 1937, and will be subject to one month's notice on either side. The successful candidates will be required to pass a medical examination.

Applications, stating age, particulars of education and training, qualifications, experience, present and previous appointments, together with copies of two recent testimonials, and names and addresses of two persons to whom reference may be made, should be addressed to George Kenyon, City Architect, 18, Cloth Market, Newcastle-upon-Tyne, 1, to reach him not later than 30th November, 1948.

JOHN ATKINSON,
Town Clerk.

Town Hall, Newcastle-upon-Tyne, 1.
5th November, 1948.

785

EXHIBITIONS OFFICER.

The Scottish Committee of the Council of Industrial Design invite applications for the post of Exhibition Officer. Applications in writing, giving details of age, education, qualifications and posts held, should be sent to the Finance and Establishment Officer, Scottish Committee, Council of Industrial Design, 95, Bothwell Street, Glasgow, C.2. Essential qualifications are knowledge of architectural and display design and draughtsmanship; experience in contracting and costing. Knowledge of films and exhibition work abroad will be added qualifications. Starting salary £750 a year, or according to experience.

781

HERTFORDSHIRE COUNTY COUNCIL.
COUNTY ARCHITECT'S DEPARTMENT.

Applications are invited for the following appointments:

(a) CHIEF ASSISTANT ARCHITECTS. £750-£850, plus bonus.

(b) SENIOR ASSISTANT ARCHITECTS. Grade VII. £635-£710.

(c) SENIOR ASSISTANT ENGINEER. Grade VI. £595-£660.

(d) ASSISTANT ARCHITECTS. Grade V. £520-£570.

(e) ASSISTANT ENGINEER. Grade IV. £480-£525.

(f) ASSISTANT ARCHITECTS. Grade II. £420-£465.

(g) SENIOR QUANTITY SURVEYORS. Grade VI. £595-£660.

(h) ASSISTANT QUANTITY SURVEYORS. Grade V. £520-£570.

(i) ASSISTANT QUANTITY SURVEYORS. Grade IV. £480-£525.

(j) CHIEF ASSISTANT ARCHITECT, to supervise Area Building Surveyors. £700-£750, plus bonus.

Applicants for posts (c) and (e) should be Associate Members or Graduates respectively of the Institute of Heating and Ventilating Engineers.

Applicants need not have had previous Local Government experience.

Applications, stating which post is applied for, together with three references, should be addressed to the County Architect, County Hall, Hertford, to be received not later than the first post on Saturday, 27th November, 1948.

787

MONTGOMERYSHIRE COUNTY COUNCIL.
NEW SCHOOL AND HOUSING AT LAKE
VYRNWY.

Applications invited for temporary appointment of CLERK OF WORKS, to supervise the erection of the above-named school and housing, at a salary of £10 per week, plus travelling allowances on the County Scale. The duration of the work will be about eighteen months.

Applicants must have a thorough knowledge of the building trade, and be conversant with plans, specifications and bills of quantities, competent to set out work, including levelling, check and measure up variations, keep records, and write reports to the County Architect.

Applications, in candidates' own handwriting, stating age, qualifications, experience, previous appointments, and when able to take up duties, accompanied by copies of not more than two recent testimonials, in an envelope endorsed "Clerk of Works," must reach the undersigned not later than Monday, 22nd November, 1948. Canvassing disqualifies.

P. E. WHITE,
Clerk of the County Council.

County Offices, Welshpool, Mont.
5th November, 1948.

778

CITY OF SALFORD.

Applications are invited for the appointment of a JUNIOR ARCHITECTURAL ASSISTANT, in the City Engineer's Department, at a salary in accordance with the General Division of the National Scale of Salaries (male, £220 at 21 years of age, rising to £385 at 32 years of age; females, £178 at 21 years of age, rising to £308 at 32 years of age).

Applicants should be good draughtsmen, possess a sound knowledge of building construction, and be capable of preparing working drawings under supervision.

The appointment will be subject to:—
(1) The provisions of the Local Government Superannuation Act, 1937.

(2) The National Joint Council Scheme of Conditions of Service, as adopted by the Council.

(3) The passing of a medical examination.

Applications, giving details of age, training and experience, together with copies of two recent testimonials, should be forwarded in envelopes endorsed "Junior Architectural Assistant," addressed to the City Engineer, Town Hall, Salford, 3, so as to be received not later than first post on Monday, 29th November, 1948.

Applicants must disclose, in writing, whether or not they are related to any Member of the Council or Officer of the Authority.

H. H. TOMSON, Town Clerk.

788

The Imperial War Graves Commission invite applications to fill the following vacancies in the Quantity Surveyors' staff at their London Office.

QUANTITY SURVEYORS.

Candidates must be F.R.I.C.S. or A.R.I.C.S. (Qualities), and must have had pre-war professional experience in structures of a high architectural standard, and be capable of taking complete charge of an office. Commencing salary £750 per annum, with annual increments of £25 to a maximum of £1,000 per annum.

ASSISTANT QUANTITY SURVEYORS.

Candidates should be F.R.I.C.S. or A.R.I.C.S. (Qualities) or, in the case of those whose early experience has been with a Builder or Contractor (in addition to any whole time study in a recognized school) have passed a written examination in Quantity Surveying. All candidates should have professional experience on structures of important architectural value. Salary within scale £475-£25-£750 (men), £475-£20-£650 (women), entry at £475 at age 25 (less below that age), and up to £600 (men), £575 (women) at age 30 or over.

Applications should be addressed to Appointments Officer, Imperial War Graves Commission, Wooburn House, Wooburn Green, High Wycombe, Bucks.

762

COUNTY BOROUGH OF GREAT YARMOUTH. APPOINTMENT OF SENIOR TOWN PLANNING ASSISTANT.

Applications are invited for the appointment of a Senior Town Planning Assistant, at a salary in accordance with Grade V of the National Scheme of Conditions of Service.

Applicants, with experience in preparation and administration of planning and reconstruction schemes, must be Corporate Members of the Town Planning Institute.

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

Applications, endorsed "Senior Town Planning Assistant," with copies of three recent testimonials, must reach me not later than 16th November, 1948.

Canvassing will be deemed a disqualification, and candidates must disclose in writing any relationship to any member of, or the holder of, any senior office under the Council. Candidates failing to do so will be disqualified, and, if appointed, liable to dismissal without notice.

FARRA CONWAY.

Town Clerk.

Town Hall, Great Yarmouth.

1st November, 1948.

774

MARSHLAND RURAL DISTRICT COUNCIL. WISBECH RURAL DISTRICT COUNCIL. ARCHITECTURAL ASSISTANT.

Applications are invited for the joint appointment of Architectural Assistant to the two Councils, at a salary in accordance with Grade A.P.T. III, of the National Scheme of Conditions of Service (£450 to £495 per annum).

Applicants must be competent to assist the Architect in the preparation of house designs, working drawings, specifications and bills of quantities, and preference will be given to those who have had experience of Local Authorities' housing schemes.

Applications from ex-Service men, with the necessary experience will be welcomed, and such applicants should state the date they would be available to commence their duties.

The appointment will be subject to the provisions of the Local Government Superannuation Act, 1937, and to one month's notice on either side, and the person appointed will not be allowed to engage in private practice.

Applications, endorsed "Architectural Assistant," stating age, qualifications, details of experience, etc., together with particulars of two persons to whom reference may be made as to the applicant's capabilities, to be sent to the undersigned so as to be received not later than 1st post on the 15th November, 1948.

Canvassing will be a disqualification.

RONALD E. DIXON.

Clerk of the Councils.

Council Offices, Alexandra Road,

Wishob, Cambs.

29th October, 1948.

778

MINISTRY OF EDUCATION.

Applications are invited from men and women, between 23 and 40 years of age, who served in E.M. Forces or were employed in other work of national importance during the war, for admission to courses of training as Full-time Teachers of Building and Allied Subjects in Colleges of Further Education or in Secondary Technical Schools.

Applicants should have a University degree in Building or Allied Subjects, or qualifications in a profession associated with Building, or a Higher National Certificate in Building or for Craft Teaching, a Full Technological Certificate of the City and Guilds of London Institute in a Building Craft. In certain crafts a Final City and Guilds Certificate may be accepted.

Training will be given in the principles and practice of teaching and in the methods of teaching special subjects. The courses will be of 6-9 months' duration. There will be no fees, and students will be eligible for maintenance grants for the period of the course.

Application should be made on Form 203 R.E., which may be obtained from the Secretary (Teachers R.E.), Ministry of Education, 23, Belgrave Square, London, S.W.1.

Notes for Form 203 R.E. should be clearly marked "Technical."

777

BOROUGH OF WISBECH. BOROUGH ENGINEER AND SURVEYOR'S DEPARTMENT. APPOINTMENT OF ARCHITECTURAL ASSISTANT.

Applications are invited for the appointment of Architectural Assistant, Grade III, A.P.T. Division of the National Scale, £450 to £495. Applicants should have had general architectural experience. The appointment will be subject to the provisions of the Local Government and other Officers' Superannuation Act, 1937, and to the successful candidate passing a medical examination and to one calendar month's notice on either side.

The person appointed will be required to devote the whole of his time to the duties of the particular office.

Applications, suitably endorsed, stating age, qualifications and particulars of experience, with names of two persons to whom reference may be made, should be received by the undersigned not later than Monday, 22nd November 1948.

J. E. SIDDALL.

Town Clerk.

Town Hall, Wisbech, Cambs.

22nd November, 1948.

745

WEST SUFFOLK COUNTY COUNCIL.

COUNTY PLANNING DEPARTMENT.

Applications are invited for the appointment of ASSISTANT PLANNING OFFICER, in the above Department at Bury St. Edmunds, on A.P. and T. Grades VI-VII (£595-£710), position on combined scale according to qualifications and experience.

The Officer will be required to take charge of the West Suffolk Office under the direction of the County Planning Officer for the purposes of the survey and the development plan and the supervision of development control. He should have had wide experience in all aspects of Town and Country Planning, Development Control, and the preparation of factual surveys.

Applicants for the appointment should be either Members or Associate Members of the Town Planning Institute, and preference will be given to those possessing qualifications in either Engineering, Surveying or Architecture. The successful candidate will be required to provide a motor car, for which he will be paid a travelling allowance in accordance with the County Scale.

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

Applications in cwn handwriting, stating age, education, war service (if any), experience, present position and salary, together with the names of two referees, should be submitted as soon as possible.

L. G. H. MUNSEY.

Member of the County Council.

Shire Hall, Bury St. Edmunds.

1st November, 1948.

726

LONDON COUNTY COUNCIL.

QUANTITY SURVEYORS.

Vacancies exist for Quantity Surveyors in the Housing and Valuation Department, for work in connection with the development of cottage estates and the construction of multi-story dwellings, at salaries of up to £700 a year, the commencing salary in each case being determined according to qualifications and experience. Successful candidates will be required to contribute to the Council's Superannuation and Provident Fund, and will be eligible for appointment to the Council's permanent staff and for advancement on the occurrence of vacancies.

Duties will include—
(a) Measurement of work in construction of houses roads and sewers, preparation of interim and final bills; measurement and adjustment of subcontracts; preparation of cost statistics, estimates, etc.
(b) Management of housing contracts of considerable value; interim valuations for payments; measurement of variations and settlement of final accounts.

Forms of application may be obtained from the Director of Housing and Valuer, The County Hall, Westminster Bridge, S.E.1 (a stamped addressed foolscap envelope required), quoting Q.S.1.

Canvassing disqualifies. (2149)

752

WESTMINSTER CITY COUNCIL.

HOUSING DEPARTMENT.

FIRST ASSISTANT QUANTITY SURVEYOR (Permanent). Salary A.P.T. Grade VIa), of National Scales, viz., £550 to £610 per annum, plus weighting £20 or £30 per annum, according to age. Age limit 45 years. Superannuation Scheme. Canvassing disqualifies.

Applicants should have had a wide experience in the preparation of detailed approximate estimates, specifications, quantities, valuation for payments on account, and the measurement of variations and settlement of final accounts.

SECOND ARCHITECTURAL ASSISTANT (Permanent). Salary A.P.T. Grade IV, of National Scales, viz., £480 to £575 per annum; plus weighting of £20 or £30 per annum, according to age. Age limit 45 years. Superannuation Scheme. Canvassing disqualifies.

Applicants should be either Registered Architects or qualified in Building Surveying, with experience in adaptations and conversions, and competent to prepare plans, surveys and approximate estimates. A knowledge of structural design and London Building Act procedure is desirable.

Applications, marked "First Assistant Quantity Surveyor" or "Second Architectural Assistant," stating full name, address, age, examination qualifications present and past appointments, experience, whether related to any member or Chief Officer of the Council with copies of three recent testimonials (two in the case of the Grade IV appointment), must be received within 14 days of the appearance of this advertisement.

PARKER MORRIS.

Town Clerk.

Westminster City Hall, Charing Cross

Road London, W.C.2.

November, 1948.

747

RICKS COUNTY COUNCIL.

Applications are invited for the appointment of ASSISTANT QUANTITY SURVEYOR, A.P. and T. Grade VII, £635-£710 p.a., in the County Architect's Department.

Travelling and subsistence allowances will be paid in accordance with the National Scheme of Conditions of Service for the time being in force. The appointment is superannuable and subject to medical examination.

Further particulars and form of application may be obtained from the County Architect, County Office, Aylesbury, to whom applications must be delivered by 22nd November 1948.

GUY R. CROUCH.

Clerk of the County Council.

County Hall, Aylesbury.

November, 1948.

773

BOROUGH OF ILFORD, ESSEX.

APPOINTMENT OF ARCHITECTURAL ASSISTANT (TEMPORARY), GRADE IV.

Applications are invited for the following appointments on the staff of the Borough Engineer's Department:—

Architectural Assistant (Temporary). Salary in accordance with Grade IV of the National Scales of Salaries, viz., £480 to £525, plus £30 London weighting at age 25 or over.

Candidates should possess approved qualifications, and have general Architectural experience in Municipal buildings, particularly with regard to the preparation of contracts and working drawings.

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

Members of the staff are not permitted to engage in private practice as architects or surveyors, or in any other professional capacity.

Housing assistance cannot be given.

Forms of application may be obtained from the Borough Engineer, Town Hall, Ilford, and should be returned to the undersigned not later than 4th December, 1948.

K. F. B. NICHOLLS.

Town Clerk.

November, 1948.

777

CITY OF OXFORD. CITY ARCHITECT AND PLANNING OFFICER'S DEPARTMENT. CHIEF PLANNING ASSISTANT.

Applications are invited for the above appointment on the permanent staff in the City Architect and Planning Officer's Department, at a salary on Grade VII (A.P.T. Division) of the National Scales of Salaries, namely £635 per annum, rising by annual increments of £25, subject to satisfactory service, to £710 per annum.

Candidates must have passed the Final examination of the Town Planning Institute or held an alternative Town Planning qualification. Other qualifications in Surveying, Architecture or Engineering will be an advantage.

Applicants must possess a good general experience of Planning practice, have a sound knowledge of the Town and Country Planning Act, 1947, and be experienced in the statutory administration of Planning Development in all its aspects.

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

A car allowance will be payable to the successful applicant on the Council's scale.

Forms of application, and conditions of appointment, may be obtained from E. G. Chandler, A.R.I.B.A., A.M.T.P.I., City Architect and Planning Officer, Town Hall, Oxford, to whom applications should be addressed, endorsed "Chief Planning Assistant," on or before Monday, the 29th November, 1948.

HARRY PLOWMAN.

Town Clerk.

775

Tenders for Contracts

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

PEMBROKESHIRE COUNTY COUNCIL. HAVERFORDWEST MODERN SECONDARY SCHOOL (NEW).

Building Contractors desirous of Tendering for the Erection of the above School (approx. 5-Form Entry) are requested to submit their applications to Walter Barrett, M.B.E., A.R.I.B.A., County Architect, County Offices, Haverfordwest, Pembrokeshire.

General Conditions and Bills of Quantities will be supplied on receipt of £5 ss. deposit, returnable upon receipt of a bona-fide Tender or the return of the Bill. Drawings, etc., can be inspected at the office of the County Architect during the usual working hours.

No Tender will be considered unless submitted in the endorsed envelope provided for the purpose and the Council does not bind itself to accept the lowest or any tender received.

Contracts for the following works in connection with this Project have now been let:—

- (1) Steelwork;
 - (2) Preliminary Site Clearance;
 - (3) Provision of Works Service Road.
- Contractors will be required to provide proof that they are in a position to provide the necessary labour to carry out the works.

Last day for receipt of Tender is first post, Monday, December 6, 1948.

D. T. JONES.

Clerk to the Education Committee.

County Offices,

Haverfordwest, Pems.

30th October, 1948.

708

Architectural Appointments Vacant

4 lines or under, 3s.; each additional line, 1s. 6d.

ARCHITECTURAL ASSISTANTS required immediately; salary according to qualifications and experience. John A. Slater, F.A.R.I.B.A., 8, Lower Brook Street, Ipswich, 1919

JUNIOR ARCHITECTURAL ASSISTANT or DRAUGHTSMAN required immediately by firm of Croydon Architects. Write, stating age, experience, and salary required, to Box 665.

SENIOR ARCHITECTURAL ASSISTANTS are required to fill vacancies for permanent pensionable positions in the Head Office of the Premises Department, Ind. Coops & Allsopp, Ltd., Burton-on-Trent. Applicants should be either Associates of the Royal Institute of British Architects or trained at a recognized School of Architecture, but consideration will be given to students nearing the required standard for the Final examination; they should have a good general experience in design and construction, and be capable of taking charge of jobs from the initiation of sketch plans to completion of the work, including supervision of work on the site and of the juniors who will be allotted to them. Experience in the design, decoration and furnishing of licensed premises and Breweries would be an added asset, but is not insisted upon. They will also be required to pass a medical examination and to contribute to the generous Staff Superannuation Scheme in force.

The Department, already large, is expanding, and offers progressive and interesting work to a capable man, as eventually each successful applicant will be in charge of a self-contained team of his own, responsible for all building work in a definite area of Great Britain.

A five-day working week is in operation, and amenities offered include excellent canteen facilities and sports grounds.

Commencing salaries will be up to £500 p.a., plus cost-of-living bonus of £67 10s., according to qualifications and experience.

Particulars of training, experience, past and present appointments and qualifications, together with testimonials, and stating age, date available, and whether married or single, to be sent to the Manager, Premises Department, Ind. Coops & Allsopp, Ltd., 145, Station Street, Burton-on-Trent. While no housing accommodation can be immediately offered to successful applicants, the Company will assist as far as possible. 682

ARCHITECTURAL ASSISTANT required by North-East Coast Brewery; age 25 to 35; must have sound training and experience; knowledge of licensed work desirable, but not essential. Full particulars and salary required to Box 683.

VACANCY for experienced **ARCHITECT'S ASSISTANT**; preferably qualified; living accommodation available. Gitch, Saunders & Surridge, F.A.R.I.B.A., High Street, Kettering. Telephone 3165/6. 672

ARCHITECTURAL DRAUGHTSMAN required. Experienced in the preparation of Estate Layouts and knowledge of Town Planning Act essential. Box No. 442, c/o George Murray (Advertising) Ltd., 124, Strand, London, W.C.2. 720

JUNIOR ASSISTANT required in busy West End Office. Good prospects. Apply, stating age, experience and salary required, to J. Stanley Beard, Bennett & Partners, 101-3, Baker Street, W.1. 723

AN expanding Middle East Oil Company presently requires a **JUNIOR ASSISTANT ARCHITECT**, for work in the London office, to assist Architects in the Drawing Office in the preparation of sketch drawings, working drawings, and details for all architectural schemes; should have completed five years' article of apprenticeship with architectural firm of repute and position; at least Intermediate R.I.B.A. standard; knowledge of Middle East styles of architecture an advantage; age 20-30; salary £500-£600 starting. Write, giving brief details for application form, and quoting LO 126, to Box "Y.F." c/o J. W. Vickers & Co., Ltd., 7/8, Great Winchester Street, London, E.C.2. 729

AN expanding Middle East Oil Company presently requires a **SENIOR ARCHITECTURAL ASSISTANT**, for the London office, to be engaged in the preparation of sketch plans, working drawings and details for domestic, commercial, industrial, social and civic buildings usual to the development of Municipal Estates; at least 5 years' practical experience, if school trained A.R.I.B.A., or 15 years' experience design and working drawings with architects of standing; quick accurate draughtsmanship, with sound knowledge of construction, essential; age 30-45; salary at least £600 per annum, but according to age and experience. Write giving brief details for application form, and quoting LO 118, to Box "R.P." c/o J. W. Vickers & Co., Ltd., 7/8, Great Winchester Street, London, E.C.2. 740

AN expanding Middle East Oil Company presently requires an **ASSISTANT ARCHITECT**, in the London office, for the execution of sketch and working drawings connected with any architectural items required; should be up to senior architectural standard, A.R.I.B.A. preferable; not less than 7 years in drawing offices, engaged on housing schemes, public buildings, town planning, etc.; knowledge of Middle East architectural practice, climatic difficulties, materials, is an advantage; some knowledge of reinforced concrete and specialised construction, including the "Bellrock" system, desirable; age 25-40; salary £500-£750 per annum, according to age and experience. Write giving brief details for application form, and quoting LO 125, to Box "Z.K." c/o J. W. Vickers & Co., Ltd., 7/8, Great Winchester Street, London, E.C.2. 739

ARCHITECTURAL ASSISTANT required; good salary and bonus offered; state details. C. Roderave & Son, L.A.R.I.B.A., 6, The Quadrant, Coventry. 753

SENIOR AND JUNIOR ARCHITECTURAL ASSISTANTS required for General Architectural practice. Reply, giving experience and salary required, to J. W. Beaumont & Sons, 53, Spring Gardens, Manchester. 754

WANTED—CHIEF ASSISTANT, to manage, under Principal, medium sized office in the West Country; experienced man required, competent in design and in the preparation of specifications, estimates, etc.; must be able to organise, control, and supervise work in office and interview clients. State full particulars of training, experience, age, and salary required, to Box 750.

ARCHITECTURAL ASSISTANT required; experienced in Quantity Surveying and preparation of working drawings and sound knowledge of construction, surveying and levelling. Full particulars and salary required to J. M. Porter & Co., The Estate Office, Colwyn Bay. 749

JUNIOR ARCHITECTURAL ASSISTANT required by West End Architects, specializing in school design; good practical knowledge essential. Box 766.

FIRST-CLASS ARCHITECTURAL ASSISTANT required in busy West of England office; must be thoroughly conversant with the design and planning of large Office Buildings and Shopping Developments; housing accommodation may be arranged if required. Apply, stating details of experience, etc., and salary required, to Box 764.

FULLY QUALIFIED ARCHITECTURAL ASSISTANT required immediately; must be thoroughly experienced in preparation of Working Drawings and details of all types of Buildings, and conversant with site supervision; permanency; with good opportunity for advancement. Apply, stating details of experience, etc., and salary required, to Alec P. French, F.R.I.B.A., Halifax House, St. Augustine's Parade, Bristol. 765

CAPABLE ARCHITECTURAL ASSISTANT required immediately; experience of good quality building desirable; good salary and interesting work. Apply Lavender, Twentyman & Percy, 2, Waterloo Road, Wolverhampton. 769

ARCHITECTURAL ASSISTANT required for Architectural department of important business firm in Bristol; candidates to be capable designers and constructors, able to prepare finished schemes from sketches or verbal instructions, and should be Inter. R.I.B.A.; experience in factory work an advantage, but not essential; at present a 5-day week is in operation; commencing salary up to £400, according to experience. Box 780.

QUALIFIED and experienced **ASSISTANT** required immediately for busy general Architectural practice in the City of London. Write, giving age and full particulars and salary required. Box 782.

SENIOR ARCHITECTURAL ASSISTANT required; knowledge of general practice required, including industrial work, war damage, etc.; salary according to capabilities. Applications to Mackintosh, Beecroft & Partners, 11, Orchard Street, Bristol. 1. 783

FIRM of London Architects require **TWO ASSISTANTS** of R.I.B.A. Intermediate standard in Manchester office; excellent opportunities offered; salary by arrangement. Box 784.

Architectural Appointments Wanted

WELL-EDUCATED young Man (20), 4 years' experience as Draughtsman, recently in Royal Engineers, desires position in Kingston-on-Thames or Birmingham districts. Details from Box 198.

APPLICANT, with good experience and references, seeks employment as **CLERK OF WORKS** or supervising officer, with a progressive firm of Building Contractors or Interior Decorators. Box 201.

YOUNG ARCHITECT, interested in the development of modern humanist architecture, seeks position offering scope for experimental design and construction at home or abroad. Box 204.

STUDENT R.I.B.A. (28), studying for Final, 10 years' varied experience, used to taking charge from surveys and sketch schemes to completion, seeks progressive appointment; Southern or South-Western areas preferred. Box 205.

F. R.I.B.A., 20 years' wide experience, construction, strong in design, special war damage experience, seeks senior position in well-established firm, London area, view to Partnership.—Box 202.

CHARTERED ARCHITECT desires appointment with large Industrial or Commercial Firm requiring new buildings, extensions, alterations, plans, specifications, supervision of contracts; remuneration by retainer fee.—Box 203.

ARCHITECTURAL ASSISTANT for progressive post in London office; interested in contemporary design; 3 years' office experience, since Inter. R.I.B.A., in varied housing and factory, also exhibition and industrial design. Box 206.

ARCHITECTURAL DRAUGHTSMAN requires post in Architect's office; age 37; experience in housing (new and conversion); flats, factories, surveys, working drawings, details, etc. Box 207.

Services Offered

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

DRAUGHTSMANSHIP. Designing and Artistry. Fully qualified to the Architectural Bronze and Iron Trades, etc. Quick service. Moderate terms. Write to "New" Services, 85, Heath Street, Birmingham, 18. 1619

PART-TIME ASSISTANCE offered to Architects for building and land surveys, levelling, contouring, etc., for housing schemes, school sites, factory sites, etc.; own car and equipment. Box 543.

ARCHITECTURAL DRAUGHTSMAN available for part-time day work in Architect's or own office; any drawing, tracing, perspectives, etc., neatly and quickly carried out; specimens of work, if required. Box 751.

LET an experienced Technical Heating Draughtsman help you with your heating problems; free-lance A.M.I.H.V.E., prepared to take on the preparation of schemes and estimates; wide knowledge of all types of systems: steam, water, gas, compressed air, cooking, panel heating, ventilation. Box 756.

CHARTERED ARCHITECT, willing to prepare Bills of Quantities (4th S.M.), Specifications, Estimates, Working Drawings, or Perspectives at reasonable fees during the winter months. Box 755.

CHARTERED ARCHITECT, with own offices and staff, will be pleased to assist busy Architect on housing, industrial, and general work, on fee-sharing basis. Box 770.

ARCHITECT requires part-time work; Sketch Designs, Working Drawings, Perspectives. Write Colin Ransom, 16, The Crescent, Taunton, Somerset. 771

Practice for Sale

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

FOR SALE, Practice in Leicestershire; Housing and Factory work, old established.—For full particulars write Box 767.

Miscellaneous

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

A. J. BINNS, LTD., Specialists in the supply and fixing of all types of fencing, guard rail, factory partitions and gates. Harvest Works, 99, 107, St. Pauls Road, N.I. Canonbury 2051.

GEORGE HIGGINSON, LTD., Bickenhill, near Birmingham. Tel. Hampton-in-Arden 131. Specialist Contractors, Land Clearing, Earth Moving and Levelling. Scrapers and bulldozers with skilled men available for large or small contracts in any districts. 1480

£50 FOR ONE JOB! Architectural modelling pays! We supply Plan, Instructions, and sell your work. Addressed envelope, B.5. Biltex, 6, Silver Crescent, London, W.4. 542

RUBBER FLOORING, 1 in. thick, supplied and laid, 30s. per sq. yd.; 3/16th in., £2 per sq. yd.; 1 in., £2 10s. per sq. yd.; incl. F.T. Rubber cement sub-floors laid 7s. 6d. sq. yd.; estimates free. Tower Rubber Flooring Co., 242, Bethnal Green Road, E.2. BIS. 4213. 636

FOR Clear Delivery of the Spoken Word and Music in Public Buildings, Churches and Factories by the BSR Sound System, consult Commercial Amplifiers, Ltd., 420, Stratford Road, Birmingham. 11. VIC. 0015/6. 652

MODERN 1st Floor Offices, two large rooms, immediately available, to Let; Canterbury; furnished or unfurnished; telephone installed; suitable for Architect, Quantity Surveyor, or other professional user. Details from Johnson & Company, 33, West Street, Brighton, G281. 684

FLOORS OF DISTINCTION Laid: in wood, rubber, composition, cork, mosaic; existing floors repaired, resurfaced and polished; also panelling restored. Davis Floorings, Grove Hall Court, Hall Road, N.W.3. CUN. 3205/6 and 5616. 600

CENTRAL HEATING OIL BURNERS—Insist on the British-made Farwinge—no stoking, clean, trouble free; no waiting for coal or coke deliveries; no embargo now. Write at once to Parker, Winder & Church, Ltd., Makers, 58, Broad Street, Birmingham. 1. 690

PLANT FOR HIRE—We can supply Petrol and Electric Paint Spraying Compressors at £5 10s. per week, single gun machines, and £7 per week, double gun machine. Aerocrom, Ltd., 71, Lots Road, Chelsea, S.W.10. Flaxman 1423/4. 768

Educational Announcements

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

R. I.B.A. AND T.P.I. EXAMINATIONS—Mr. R. L. Stuart Stanley, M.A., F.R.I.B.A., Dist.T.P., M.T.P.I. Tutor in the Bartlett School of Architecture, London University, prepares candidates by correspondence tuition, 15, North Road, N.6. Tel.: Mount View 8104.

R I B A INTER, FINAL & SPECIAL FINAL.
 Postal Courses in all subjects of the examination syllabus (including Professional Practice) are conducted by
THE ELLIS SCHOOL OF BUILDING
 Principal: A. B. Waters, M.B.E., G.M., F.R.I.S.A.
 10, ALBANY HOUSE, WORCESTER.
 London Office: 103, Old Brompton Road, S.W.1.

TILYARD TILES LIMITED

WALL & FLOOR TILING
 TILED FIREPLACES
 APPROVED SPECIALISTS FOR
ARMSTRONG'S "ACCOTILE" FLOORING.
 182 EARL'S COURT ROAD, S.W.5
 Phone: Frobisher 3479-6762
SHOWROOMS: 1-5 CHILD'S PL. EARL'S COURT

STEELWORK BY
R.W. SHARMAN LTD.
 SWAN WORKS, HANWORTH, MIDDX.
 "Phones: Sunbury 3210, "Grams: "Sharmans, Sunbury"

SPECIFY ELLISON for
 HIGH VOLTAGE SWITCHGEAR,
 CIRCUIT BREAKERS of up to 4000 amps,
 and STARTERS for
 Electric Motors of up to 1000 H.P.
 Made by GEORGE ELLISON LIMITED, Perry Barr, Birmingham, 22B

Phone: PERIVALE 7251
 for reliable and prompt
 Electrical Installations



Specifications and complete schemes gladly submitted
SERVICE ELECTRIC CO. LTD
 WATER ROAD, ALPERTON, MIDDLESEX

BOOKS

A list of books on architecture, planning and building practice will be sent on application to the Manager :-

THE ARCHITECTURAL PRESS
 9, Queen Anne's Gate, Westminster.

INFORMATION SHEET

MAX HEAT TUBULAR HEATER

Wardle
 CATALOGUES ALSO AVAILABLE.

Obtainable from
 The Wardle Engineering Co., Ltd., Old Trafford, Manchester 16
 dr. WA.6

NAILABILITY— There is no such word

We had to invent it to express one of **DURAC'S** outstanding qualities—the ease with which it can be nailed without previous drilling.

DURAC asbestos board is easy to saw, a good insulator, takes paint and distemper well.

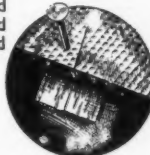
Standard Sizes: 8' x 2' 6"
 6' x 2' 6"

Thickness: 3/16"
 Weight: 1.9 lbs. per sq. ft.

LICENCE FREE

From timber and builders' merchants everywhere.
 Sole distributors: Denny Mott & Dickson Ltd.
 Adelaide House, London, E.C.4.

DURAC — the workable building board



LIFTS

by MORRIS

Herbert Morris Ltd

Loughborough

Engineering branches in London, Glasgow, Manchester, Birmingham, Leeds, Sheffield, Newcastle, Cardiff, Bristol, Dundee, Liverpool, Nottingham, Bury St. Edmunds, Belfast

MODELS

ESTAB. 1883.

John B. THORP
 FOR TOWN PLANNING
 PUBLIC BUILDINGS
 ESTATES and INTERIORS
 98 GRAY'S INN ROAD, W.C.1
 TELEPHONE: HOLBORN 1011

Pressed Steel Tanks by

BRAITHWAITE & CO ENGINEERS LTD

KINGS HOUSE, HAYMARKET, S.W.1
 Telephone: W11 1148/3095 Telegrams: Bromkirk-Phone

MAKERS OF FINEST QUALITY PLAIN AND SANDFACED STAFFORDSHIRE ROOFING TILES

Oakwood Tiles Ltd.

BRADWELL WOOD
 TUNSTALL, STAFFS
 TELEPHONE AND TELEGRAMS
 STOKE-ON-TRENT 84359

PERROTT GRENVILLE Ltd.
 PAINTING CONTRACTORS
 DECORATORS

FACTORY SPRAYING • HOTELS CINEMA DECOR. • RESTAURANTS HOUSING • PUBLIC BUILDINGS

This virtile Company will give ARCHITECTS & SURVEYORS prompt and efficient SERVICE at reasonable prices.

12, SUTHERLAND AVE., W.9
 CUNningham 1181-3
 Estimates submitted for London & Provincial Work

MUMFORD BAILEY & PRESTON LTD

**AIR CONDITIONING & HEATING
 HOT & COLD WATER SERVICES
 SANITARY ENGINEERING ETC.**



NEWCASTLE HOUSE, CLERKENWELL CLOSE, LONDON-E.C.1
 "Phone: Clerkenwell 6344 Branches at Bournemouth & Dublin

WHITE FACING BRICKS

(S. P. W. BRAND)

TELEPHONE & TELEGRAMS
 BULWELL 76237-8

M. McCARTHY & SONS, LTD
 BULWELL • NOTTINGHAM

The BUILDING CENTRE
 9 CONDUIT STREET, LONDON, W.1

TELEPHONE: MAYFAIR 8641

EXHIBITION

... a permanent and constantly changing Exhibition and free information service for all interested in building and its equipment

Daily 10 - 5. ADMISSION FREE Saturday 10 - 1

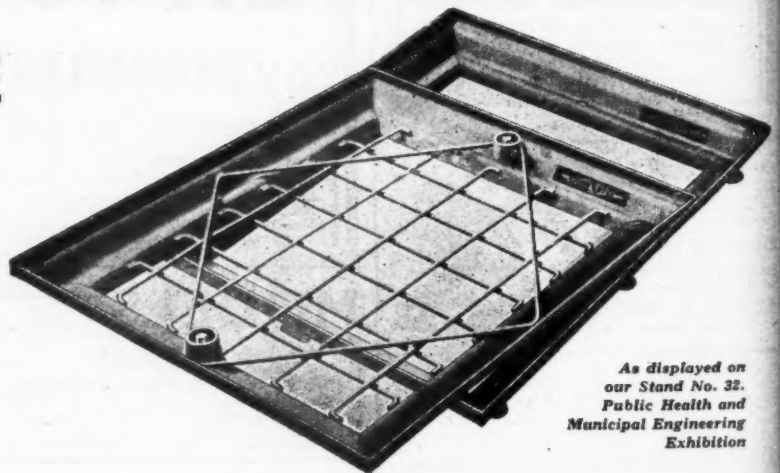
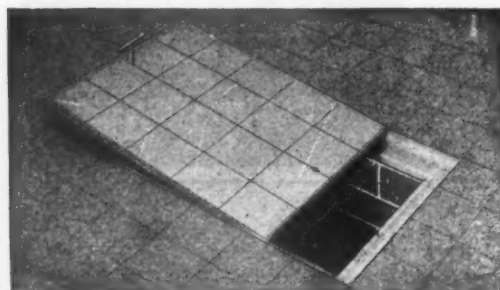
Alphabetical Index to Advertisers

	PAGE		PAGE		PAGE
Adams, Robt. (Victor), Ltd.	ii	Freeman, Joseph, Sons & Co., Ltd.	xv	Reynolds Light Alloys, Ltd.	
Aidas Electric, Ltd.	xxix	Gillett & Johnston, Ltd.	lii	Ripolin, Ltd.	xli
Allied Ironfounders, Ltd.		Greenwood's & Airvac Ventilating Co., Ltd.	ii	Rubberoid, Ltd.	xxx
Alderson, D. & Son, Ltd.			lxi	Sadcock, Ltd.	xxxvii
Arenus Controls, Ltd.		Greenville, Perrott, Ltd.	i	Sadd, John, & Sons, Ltd.	xxxv
Ascot Gas Water Heaters, Ltd.	xxxi	Griffiths Bros. & Co., Ltd.		Scotney, Tom M. Ltd.	lxiii
Associated Metal Works (Glasgow), Ltd.	xlx	Gyproc Products, Ltd.		Sadler, Thos., Sons & Co.	xxxviii
Austin Hall Group of Companies, The		Hall, J. & E., Ltd.		Salter, T. E., Ltd.	xxi
Balwin, Son & Co., Ltd.	lii	Harvey, G. A., & Co. (London), Ltd.	xliii	Sankey, J. H., & Son, Ltd.	
Bath Cabinet Makers & Artcrafts, Ltd.		Henderson, P. C., Ltd.	xliii	Scaffolding (Great Britain), Ltd.	
Blackburn, Thos., & Sons, Ltd.	i	Henderson Safety Tank Co., Ltd.	xliii	Sealcrete Products, Ltd.	lii
Bone, Conell & Co., Ltd.	ii	Holloway Bros. (London), Ltd.	li	Secomastic, Ltd.	xlii
Booth, James, & Co., Ltd.		Holloway, W. F., & Brother, Ltd.	ix	Semtex, Ltd.	xlii
Booth, John, & Sons (Bolton), Ltd.		Holophone, Ltd.	ix	Service Electric Co., Ltd.	li
Boulton & Paul, Ltd.	xlv	Hope, Henry, & Sons, Ltd.	xxxii	Shannon, Ltd., The	li
Braby, Fredk., & Co., Ltd.	xvi	Industrial Engineering, Ltd.	lii	Sharmar, R. W., Ltd.	li
Brathwaite & Co., Engineers, Ltd.	lxi	Insulite Products Corporation, Ltd.	lii	Sieglwart Floor Co., Ltd.	xxiv
Bratt Colman, Ltd.		Jenkins, Robt., & Co., Ltd.	lii	Smith's Fireproof Floors, Ltd.	
Briggs, Wm., & Sons, Ltd.	lxiii	Jones, Saml., & Co., Ltd.	xxiii	Smith & Pearson, Ltd.	
British Aluminium Co., Ltd.		King, Geo. W., Ltd.		Smith & Rodger, Ltd.	
British Gas Council	liii	Lacmoid Products, Ltd.		Standard Patent Glazing Co., Ltd.	xxxviii
British Trade Co., Ltd.	lxii	Labg, John, & Son, Ltd.		Steelcon (Industrial Floors), Ltd.	
Broad & Co., Ltd.	lxii	Leaderflush, Ltd.		Stent Precast Concrete Co., Ltd.	
Bullough Co. Ltd., The	lxii	Lead Industries Development Council		Sunderland Road Co., Ltd.	vii
Cable Makers' Association		Lever, James, & Son, Ltd.	ii	Supremus Tile Co., Ltd.	
Cargo Fleet Iron Co., Ltd.	xxxix	Loft Ladders, Ltd.	ii	Sutcliffe, Speakman & Co., Ltd.	
Carter & Co.	xxxix	London Brick Co., Ltd.	xlvii	Thompson, Beacon Windows, Ltd., John	
Cement Marketing Co., Ltd.	vi	M. H. Son, Wm., & Sons, Ltd.	xli	Thomas, Richd., & Baldwin, Ltd.	
Clark & Eaton, James, Ltd.	xxv	Marley Tile Co., Ltd.	xli	Thorn Electrical Industries, Ltd.	ii
Communication Systems Ltd.	xlviii	McCarthy, M., & Sons, Ltd.	lxii	Thornton, A. G., Ltd.	li
Colt, W. H. (London), Ltd.	lii	McNeill, F., & Co., Ltd.	xlviii	Thorp, John B.	li
C.S.A. Industries, Ltd.	viii	Metallic Seamless Tube Co., Ltd.		Tilley & Pils, Ltd.	xxviii
Copper Development Association		Midland Joinery Works, Ltd.		Tretol, Ltd.	
Critical Manufacturing Co., Ltd.		Midland Woodworking Co., Ltd.	lxiv	Troughton & Young (Lighting), Ltd.	xxxiv
De La Rue Insulation, Ltd.		Mills Scaffolding Co., Ltd.		True-Flue, Ltd.	
Denny, Mott & Dickson, Ltd.	lxi	Mitt, Birmingham, Ltd., The	lxi	Trussed Concrete Steel Co., Ltd.	
Dreadnought Fireproof Doors, Ltd.	xxxvi	Morris, Hertert, Ltd.	lxi	Tungum Sales Co., Ltd.	
Dunbrik, Ltd.	lxiii	Mumford Bailey & Preston, Ltd.		United P.I.T. Co., Ltd., The	
Dunlop Rubber Co., Ltd.	xxxvi	National Federation of Clay Industries, The	lii	United Steel Companies, Ltd.	
Durable Asphalt Co., Ltd.	lxiii	Negus, W. & M., Ltd.		Venesta, Ltd.	
Eagle Pencil Co.		Nobles & Hoare, Ltd.	xi	Versil, Ltd.	
Electrolux, Ltd.		Northern Aluminium Co., Ltd.	lx	Vulcanite, Ltd.	xxviii
Ellis School of Building	lxi	Oakwood Tiles, Ltd.	lx	Walker, Crosswell Co., Ltd.	xlx
Ellison, George, Ltd.	lx	Park Foundry (Belper), Ltd.	xxvii	Walpamur Co., Ltd., The	lxi
English Joinery Manufacturers' Association	xiv	P. R. Hall, George, & Co., Ltd.		Wardle Engineering Co., Ltd., The	
Fenning & Co., Ltd.	x	Pilkington Bros., Ltd.	xliii	Ward, Thos. W., Ltd.	xxxiv
Ferodo, Ltd.	xvii	Pollard, E., & Co., Ltd.	v	Watco (Siles), Ltd.	
Fibreglass, Ltd.	lii	Pritchett & Gold & E.P.S. Co., Ltd.	xx	Wellington Tube Works, Ltd.	
Fordham Pressings, Ltd.	lii	Pyndford, Ltd.		Wilcox, W. H., & Co., Ltd.	iv
Formacon, Ltd.	xxii	Pyrotex, Ltd.		Wimpey, George, & Co., Ltd.	xxvii
Fothergill & Harvey, Ltd.				Wheatly & Co., Ltd.	xxvi

For Appointments (Wanted or Vacant), Competitions Open, Drawings, Tracings, etc., Educational, Legal Notices, Miscellaneous Property, Land and Sales, see pages iv, lvi, lvii, lviii, lix, lx and lxi.

THE INVISIBLE MANhole cover

—or almost invisible for when a 'Broadstel' Cover is placed in position in floor or paving and filled in to surface with tiles, wood-blocks, terazzo, asphalt, etc., to match the surroundings, the cover becomes an integral part of the job and is scarcely discernible. The ready means of access is there, but only the thinnest metal line marks the spot.



As displayed on our Stand No. 32. Public Health and Municipal Engineering Exhibition

The 'BROADSTEL' COVER

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

BROADS
MANUFACTURING CO. LTD.

For further particulars please write for illustrated folder.

4 SOUTH WHARF, PADDINGTON, LONDON, W.2 Tel.: PAD. 9091 (15 Lines)

PAGE

xlv
xxx
lii
xxvii
xxv
lxiii
xviii
xxi

li
xli
lxi

lxi
xxiv

xviii

vii

li
lxi
lxi
xviii
xxiv

xviii

xlix

lxi

xxiv

lv

xviii

xxvi

on

2.

nd

ng

on

R

er

es

to

nd

N,

es)

R



SB12



T
S
t
d
i
p
i
e
p
r
c
s

EA

MILLS SCAFFOLD COMPANY LTD.
TRUSSLEY WORKS HAMMERSMITH LONDON W.6.
DATE 30-5-47 DRG. 150
BY 383 H167/11
CHKD BY 22

BARREL VAULT ROOF: WORKING DETAILS OF

NGTH	No. OFF
1'0"	120
2'0"	180
3'0"	240
4'0"	300
5'0"	360
6'0"	420
7'0"	480
8'0"	540
9'0"	600
10'0"	660
11'0"	720
12'0"	780
13'0"	840
14'0"	900
15'0"	960
16'0"	1020
17'0"	1080
18'0"	1140
19'0"	1200
20'0"	1260
21'0"	1320
22'0"	1380
23'0"	1440
24'0"	1500
25'0"	1560
26'0"	1620
27'0"	1680
28'0"	1740
29'0"	1800
30'0"	1860
31'0"	1920
32'0"	1980
33'0"	2040
34'0"	2100
35'0"	2160
36'0"	2220
37'0"	2280
38'0"	2340
39'0"	2400
40'0"	2460
41'0"	2520
42'0"	2580
43'0"	2640
44'0"	2700
45'0"	2760
46'0"	2820
47'0"	2880
48'0"	2940
49'0"	3000
50'0"	3060
51'0"	3120
52'0"	3180
53'0"	3240
54'0"	3300
55'0"	3360
56'0"	3420
57'0"	3480
58'0"	3540
59'0"	3600
60'0"	3660
61'0"	3720
62'0"	3780
63'0"	3840
64'0"	3900
65'0"	3960
66'0"	4020
67'0"	4080
68'0"	4140
69'0"	4200
70'0"	4260
71'0"	4320
72'0"	4380
73'0"	4440
74'0"	4500
75'0"	4560
76'0"	4620
77'0"	4680
78'0"	4740
79'0"	4800
80'0"	4860
81'0"	4920
82'0"	4980
83'0"	5040
84'0"	5100
85'0"	5160
86'0"	5220
87'0"	5280
88'0"	5340
89'0"	5400
90'0"	5460
91'0"	5520
92'0"	5580
93'0"	5640
94'0"	5700
95'0"	5760
96'0"	5820
97'0"	5880
98'0"	5940
99'0"	6000
100'0"	6060
101'0"	6120
102'0"	6180
103'0"	6240
104'0"	6300
105'0"	6360
106'0"	6420
107'0"	6480
108'0"	6540
109'0"	6600
110'0"	6660
111'0"	6720
112'0"	6780
113'0"	6840
114'0"	6900
115'0"	6960
116'0"	7020
117'0"	7080
118'0"	7140
119'0"	7200
120'0"	7260

...right
on the
job

MILLS

SCAFFOLD CO., LTD.

MILLS SCAFFOLD COMPANY LTD.
TRUSSLEY WORKS HAMMERSMITH LONDON W.6.
DATE 19-10-46 DRG. 150
BY 159/10
CHKD BY 22

BARREL VAULT ROOF: DETAILS

Branches and Depots:

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

Head Office: TRUSSLEY WORKS, HAMMERSMITH GROVE, LONDON, W.6. Tel.: RIVerside 5026 9

