

THE ARCHITECTS' JOURNAL



standard contents

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

NEWS and COMMENT

Diary

News

Astragal's Notes and Topics

Letters

Societies and Institutions

TECHNICAL SECTION

Information Sheets

Information Centre

Current Technique

Questions and Answers

Prices

The Industry

PHYSICAL PLANNING SUPPLEMENT

CURRENT BUILDINGS

HOUSING STATISTICS

Architectural Appointments
Wanted and Vacant

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

IGE	Institution of Gas Engineers. 17, Grosvenor Crescent, S.W.1.	Sloane 8266
IHVE	Institution of Heating and Ventilating Engineers. 75, Eaton Place, S.W.1.	Sloane 3158/1601
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 7197/5176
IR	Institute of Refrigeration. Dalmeny House, Monument Street, E.C.3.	Avenue 6851
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
IWA	Inland Waterways Association. 11, Gower Street, W.C.1.	Museum 9200
LIDC	Lead Industries Development Council. Eagle House, Jermyn Street, S.W.1.	Whitehall 7264/4175
LMBA	London Master Builders' Association. 47, Bedford Square, W.C.1.	Museum 3891
MARS	Modern Architectural Research Group (English Branch of CIAM) Secretary: Gontran Goulden, Building Centre, 26, Store Street, W.C.1.	Museum 5400
MOA	Ministry of Agriculture and Fisheries. 55, Whitehall, S.W.1.	Whitehall 3400
MOE	Ministry of Education. Curzon Street House, Curzon Street, W.1.	Mayfair 9400
MOH	Ministry of Health. 23, Saville Row, W.1.	Regent 8411
MOHLG	Ministry of Housing and Local Government. Whitehall, S.W.1.	Whitehall 4300
MOLNS	Ministry of Labour and National Service, 8, St. James' 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.	Mayfair 9494
MOW	Ministry of Works. Lambeth Bridge House, S.E.1.	Reliance 7611
NAMMC	Natural Asphalte Mine-Owners and Manufacturers Council. 94-98, Petty France, S.W.1.	Abbey 1010
NAS	National Association of Shopfitters. 9, Victoria Street, S.W.1.	Abbey 4813
NBR	National Buildings Record. 37, Onslow Gardens, S.W.7.	Kensington 8161
NCBMP	National Council of Building Material Producers, 10, Princes Street, S.W.1.	Abbey 5111
NFBTE	National Federation of Building Trades Employers. 82, New Cavendish Street, W.1.	Langham 4041/4054
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 1693
NHBRC	National House Builders Registration Council. 82, New Cavendish Street, W.1.	Langham 4341
NPL	National Physical Laboratory. Head Office, Teddington.	Molesey 1380
NSA	National Sawmilling Association. 14, New Bridge Street, E.C.4.	City 1476
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
PEP	Political and Economic Planning. 16, Queen Anne's Gate, S.W.1.	Whitehall 7245
RCA	Reinforced Concrete Association. 94, Petty France, S.W.1.	Whitehall 9936
RIAS	Royal Incorporation of Architects in Scotland. 15, Rutland Square, Edinburgh 20396	
RIBA	Royal Institute of British Architects. 66, Portland Place, W.1.	Langham 5721
RICS	Royal Institution of Chartered Surveyors. 12, Great George St., S.W.1.	Whitehall 5322/9242
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.	Trafalgar 2366
RSI	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. Grosvenor Gardens House, Grosvenor Gardens, S.W.1.	Victoria 2186
SCR	Society for Cultural Relations with the USSR. 14, Kensington Square, W.8.	Western 1571
SE	Society of Engineers. 17, Victoria Street, Westminster, S.W.1.	Abbey 7244
SFMA	School Furniture Manufacturers' Association. 30, Cornhill, London, E.C.3.	Mansion House, 3921
SIA	Structural Insulation Association. 14, Moorgate, London, E.C.2.	Central 4444
SIA	Society of Industrial Artists. 7, Woburn Square, W.C.1.	Langham 1984
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. 21, College Hill, E.C.4.	City 4771
TPI	Town Planning Institute. 18, Ashley Place, S.W.1.	Victoria 8815
TTF	Timber Trades Federation. 69, Cannon Street, E.C.4.	City 4444
WDC	War Damage Commission. Devonshire House, Mayfair Place, Piccadilly, W.1.	Mayfair 8866
ZDA	Zinc Development Association. Lincoln House, Turl Street, Oxford.	Oxford 47988

No. 3005]

[Vol. 116

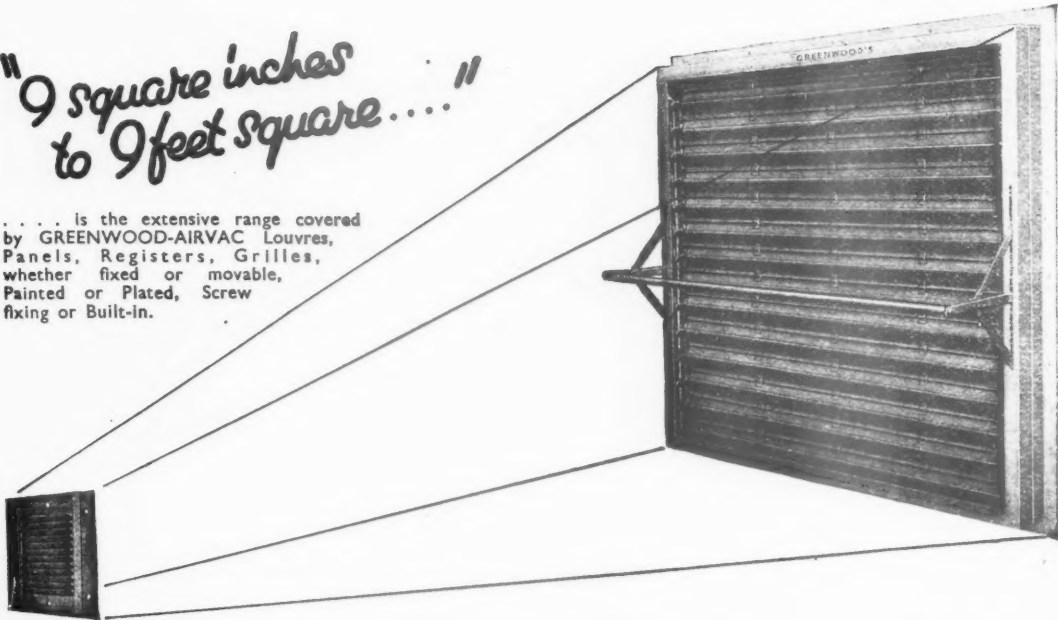
THE ARCHITECTURAL PRESS
11 and 13, Queen Anne's Gate, Westminster,
W.1. 'Phone: Whitehall 0611

Price 1s. 0d.

Registered as a Newspaper.

"9 square inches
to 9 feet square...."

... is the extensive range covered
by GREENWOOD-AIRVAC Louvres,
Panels, Registers, Grilles,
whether fixed or movable,
Painted or Plated, Screw
fixing or Built-in.



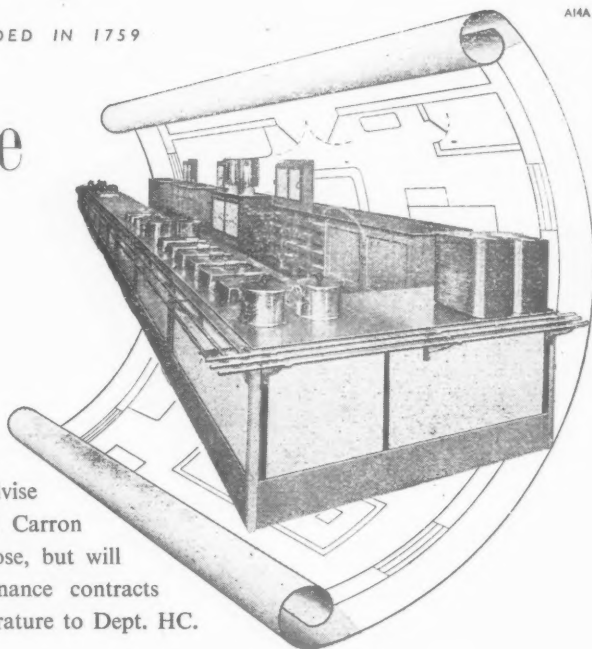
GREENWOOD'S AND AIRVAC
Ventilating Company Limited
BEACON HOUSE KING'S WAY LONDON W.C.2
CHANCERY BUILDING LONDON



THE ROYAL CHARTER COMPANY FOUNDED IN 1759

Carron will plan the complete kitchen layout for you

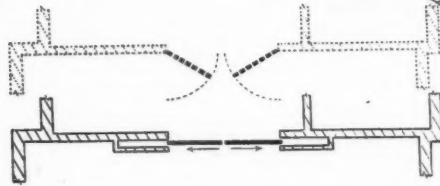
Carron heavy duty cooking equipment is produced to run on any type of solid fuel, steam, gas, oil or electricity. Carron experts are in a position to advise on the most suitable installation. Not only will Carron supply the best cooking equipment for your purpose, but will plan the complete installation. Regular maintenance contracts can be arranged. Write for further details and literature to Dept. HC.



Carron

HEAVY DUTY COOKING EQUIPMENT Coal · Coke · Steam · Oil · Gas · Electricity

CARRON COMPANY · CARRON · FALKIRK · STIRLINGSHIRE and London · Manchester · Liverpool · Newcastle · Glasgow

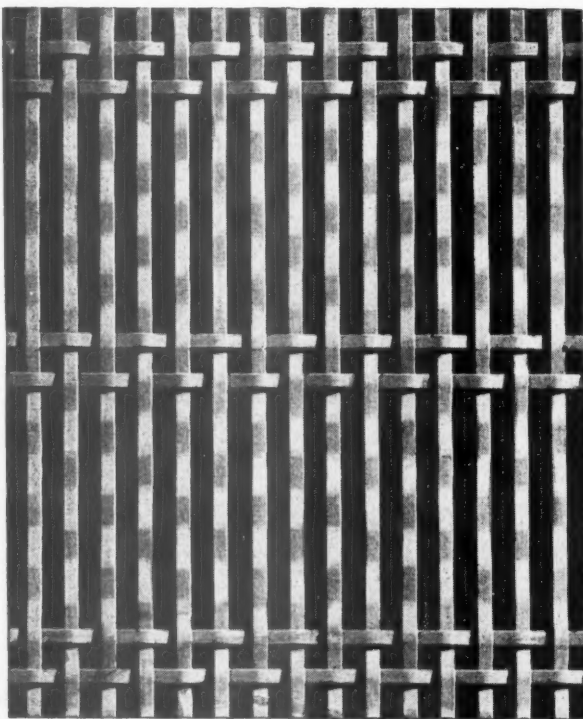


True Plans of a Conversion from two swing doors to a pair of bi-parting sliding doors gliding into cavity walls. Full constructional details will be found in "The Sliding Door" edition 25 Section 4 Pages 98/108.

"HILLALDAM"

SLIDING DOOR GEAR

E. HILL ALDAM & COMPANY LIMITED
BRITANNIC WORKS, LONDON, S.W.18

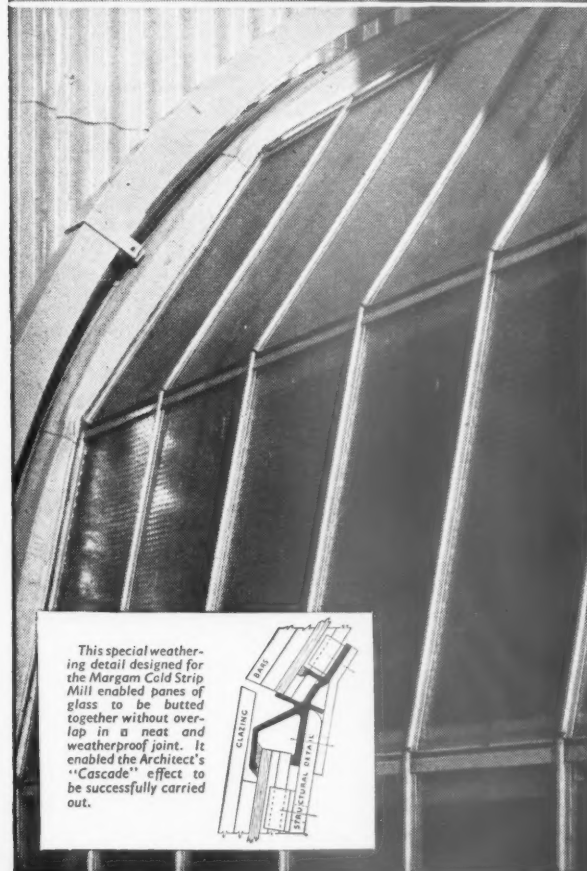


HARCO RIBBON WIRE

The artistic effect of Harco Ribbon Wire renders it particularly suitable for use where care of design and appointment are of major importance. Architects will appreciate that it not only screens the unsightly, but allows free circulation of air. The patterns in which Ribbon Wire can be woven, make it the perfect selection for Lift Shaft Enclosures, Ventilating Panels, Radiator Covers, Electric Heater Covers, etc. Illustration shows Pattern No. 1361 W. Other Patterns and full particulars in Catalogue AJ 744.

Harvey

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



WILLIAMS AND WILLIAMS at MARGAM

Further examples of the versatility of Alumínex Patent Glazing

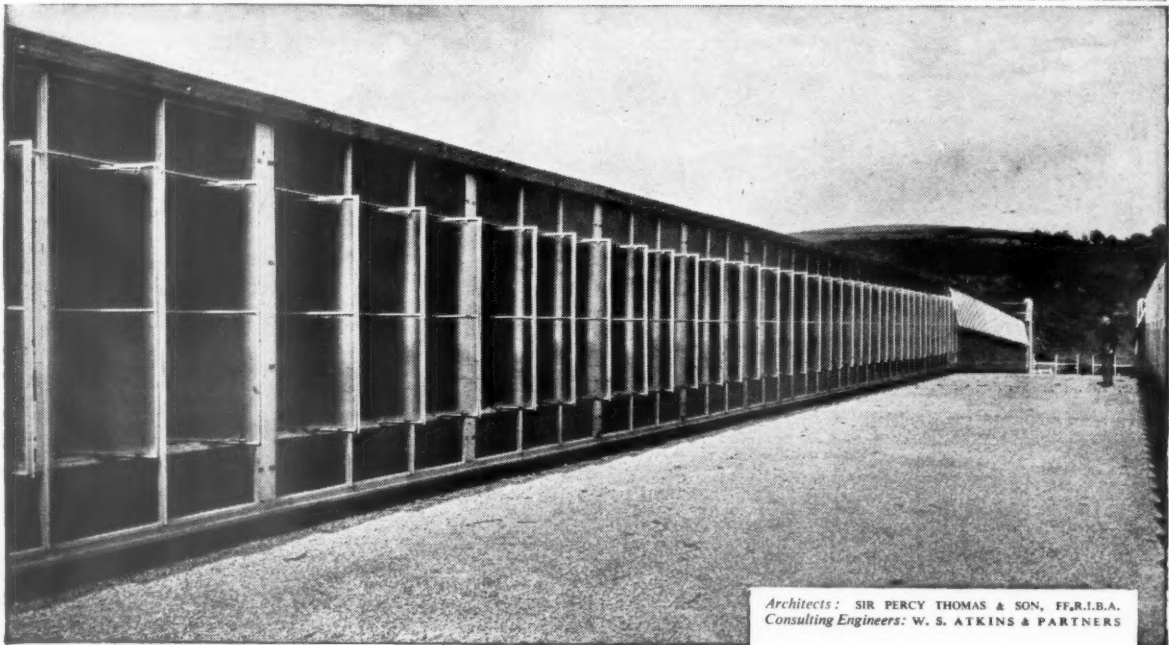
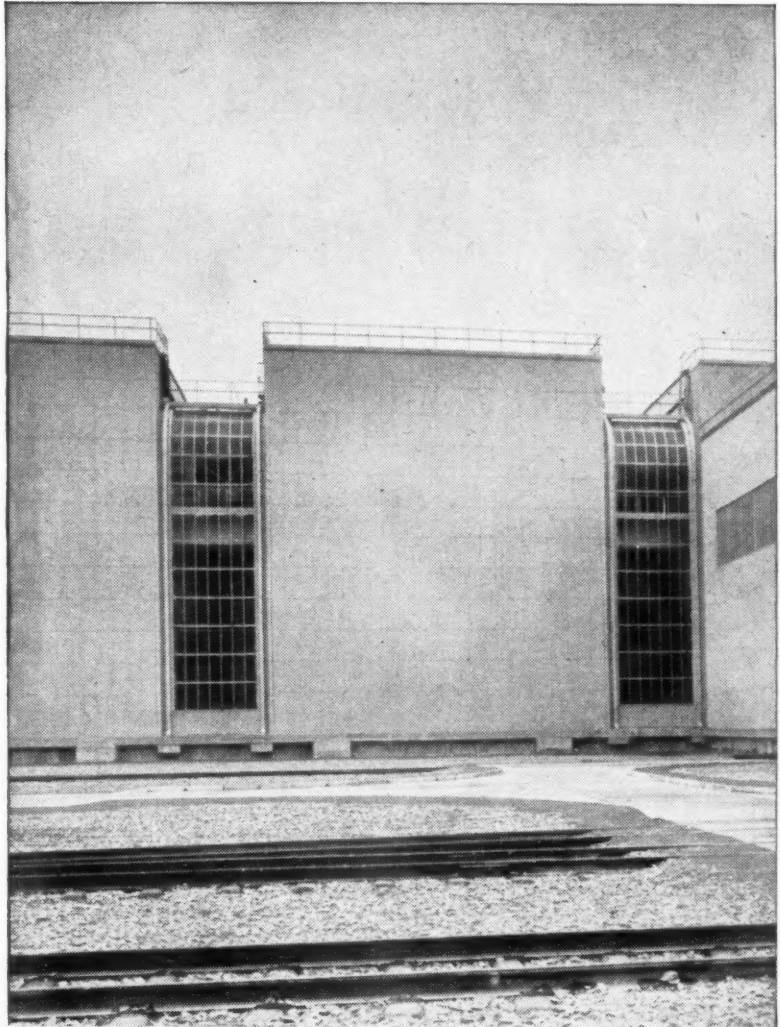
The Abbey Works of the Steel Company of Wales, is the largest rolling mill in Europe and is one of the most outstanding engineering plants designed since the war. Working in conjunction with the Consulting Engineers, Messrs. W. S. Atkins & Partners, and the Architects, Sir Percy Thomas & Sons, Williams and Williams were able to produce glazing of a unique and impressive character, examples of which are shown in these pages. The cascade sidewall lights are of particular interest, being expressly designed to meet the exacting lighting requirements.

CASCADE GLAZING When it had been decided that Alumínex Patent Glazing provided all the features required for the sidewall glazing of the Steel Mills at Margam, certain technical difficulties were discovered. In order to produce even daylighting throughout the building it was necessary that the panels of sidewall glazing should curve inwards at the head. It was inadmissible to break the line of the curve by allowing the panes to overlap in a "lobster-back" fashion and curved glass was out of the question because of cost and difficulty of replacement. The effect had to be achieved by using flat panes of glass set out in a series of chords, and this arrangement presented special weathering problems, as also did the very flat pitch near the top of the cascade.

To overcome these the Aluminex engineers designed a new weathering detail which is shown in the drawing and in the photograph at the bottom of the opposite page, and is a development of the standard Aluminex "Z" weathering extrusion which is one of the special features of the Aluminex Glazing system. The remarkable effect achieved resembled cascades of glass and is vividly illustrated in the photographs. The cascades are each fourteen feet wide and range from fifteen feet to fifty-five feet high. The fifty-five foot cascades are composed of seven vertical tiers with a further curved portion of three tiers on a 9' 9" radius. The cascades were glazed in some instances with specially toughened glass in order to resist the thermal shock caused by hot ingots passing within a few feet of them.

HIGH/LOW ROOF CONSTRUCTION To provide controlled ventilation together with even distribution of light, the monitors in the Cold Mill Building are glazed partly with continuous top-hung Aluminex opening lights and partly with aluminium vertical pivot-hung windows made by the Reliance Division of Williams and Williams. Both are operated by Teleflex Gear with hand-operators placed so that they can be manipulated from walkways on the crane gantry. The vertical pivot-hung windows are arranged to open 135 degrees and are coupled together in ranges so that one gear operation opens the complete range. Thus ventilation can be controlled quickly to very fine degrees in accordance with either temperature or changes in wind direction.

Williams and Williams Ltd
Makers of Metal Windows, Doors and
Aluminex Patent Glazing.
RELANCE WORKS • CHESTER



Architects: SIR PERCY THOMAS & SON, FF.R.I.B.A.
Consulting Engineers: W. S. ATKINS & PARTNERS

Post War Housing in the Baguley Neighbourhood of Wythenshawe, protected with Silexine Stone Paint



Architect: A. Mackenzie, L.R.I.B.A., Director of Housing, Manchester Corporation

The remarkable lasting qualities of Silexine Stone Paint are combined with a finish which is beautiful in appearance. It is easy to apply and gives real protection against damp. It can be applied direct to most surfaces including new or old cement, concrete, brick, asbestos, etc. For over twenty years it has proved the ideal protective

and decorative surface finish for exterior walls and is regularly used by Public Authorities and specified by leading Architects throughout the country. Silexine Stone Paint can also be used effectively for interior work where a stone texture finish is required. Supplied in twelve attractive colours. (Special shades to order.)

Silexine Stone Paint



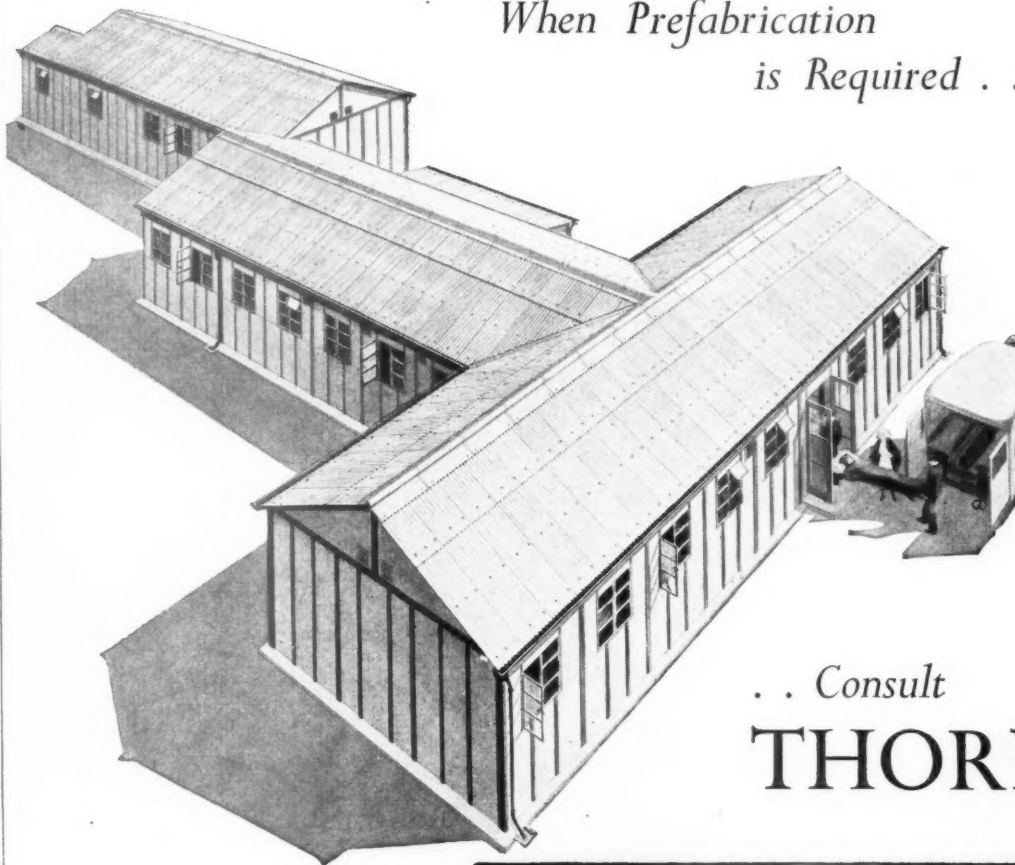
Specifications and notes on surface preparation are given in a booklet which will gladly be sent free on application. This booklet also contains a report on tests carried out by the Building Research Station. Information regarding other Silexine products, particularly S.P.E.C. (Silexine Plastic Emulsion Coating), a durable satin-like finish for interior walls, is also freely available.

SILEXINE PAINTS LTD., RICHFORD STREET, LONDON, W.6,

Telephone : Shepherds Bush 4461-2

ST.2

*When Prefabrication
is Required . . .*



. . . Consult
THORNS

The hospital extension pictured above, one of several supplied by Thorns, is a good example of planning by an Architect whose resourcefulness in adapting Thorns buildings, fully met the needs of his client for *immediate* extra accommodation at an *economical* price.

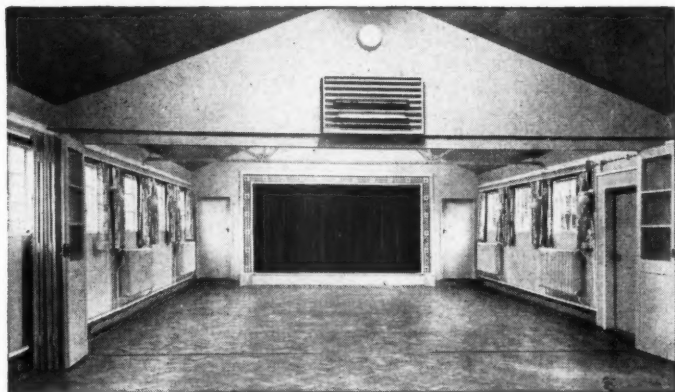
Our latest method of construction gives a more tasteful interior design, greater structural strength and permits speedy adaptation.

When you find that prefabrication is required, remember to consult Thorns.

Similar structures are very suitable for

**HALLS • CLUBS • PAVILIONS
OFFICES • LIGHT INDUSTRY**

*We shall be pleased to
send details and prices*



This hall was designed to be convertible into two lecture rooms. The Architect scheduled a Thorns building, 25' 6" span, for this purpose.

Timber framed—Timber covered or asbestos covered

10', 12', 15', 20', 25' & 30' SPANS; 6', 7', 8', & 10' EAVES

Or any design and size to your specification

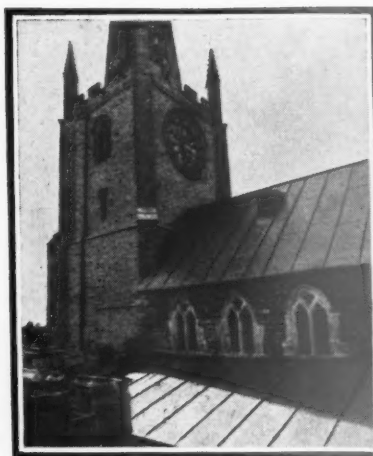
J. THORN & SONS LTD.

DEPT. 188, BRAMPTON RD., BEXLEYHEATH, KENT.

Tel. Bexleyheath 305

Established 1896

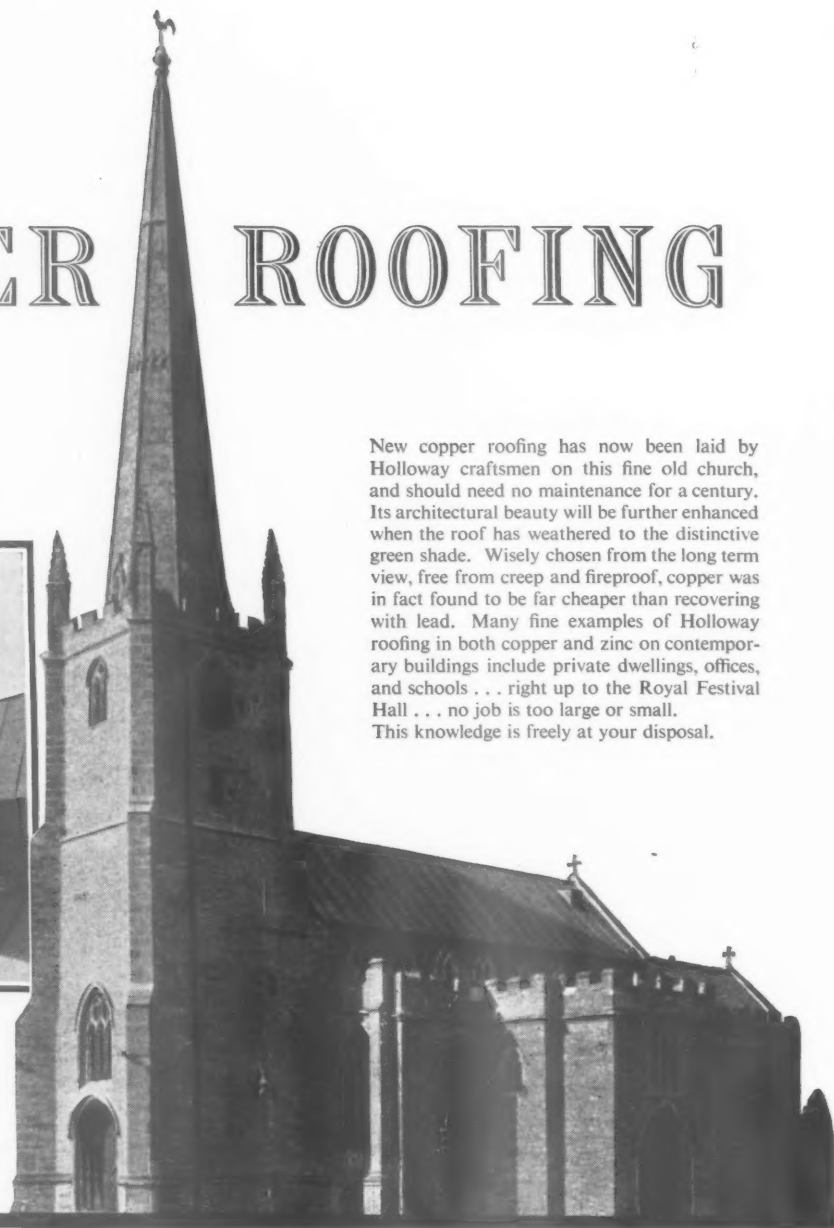
COPPER ROOFING



ST. ANDREWS CHURCH

Congresbury, Somerset.

The Architects in charge of restoration, Messrs. Burrough & Hannam of Bristol, instructed Messrs. William Cowlin & Son Ltd., the General Contractors, to employ us for the new roofing which took some 6,000 ft. super of copper sheet weighing nearly 2½ tons covering the Nave, North and South Aisles and the Vestry roof.

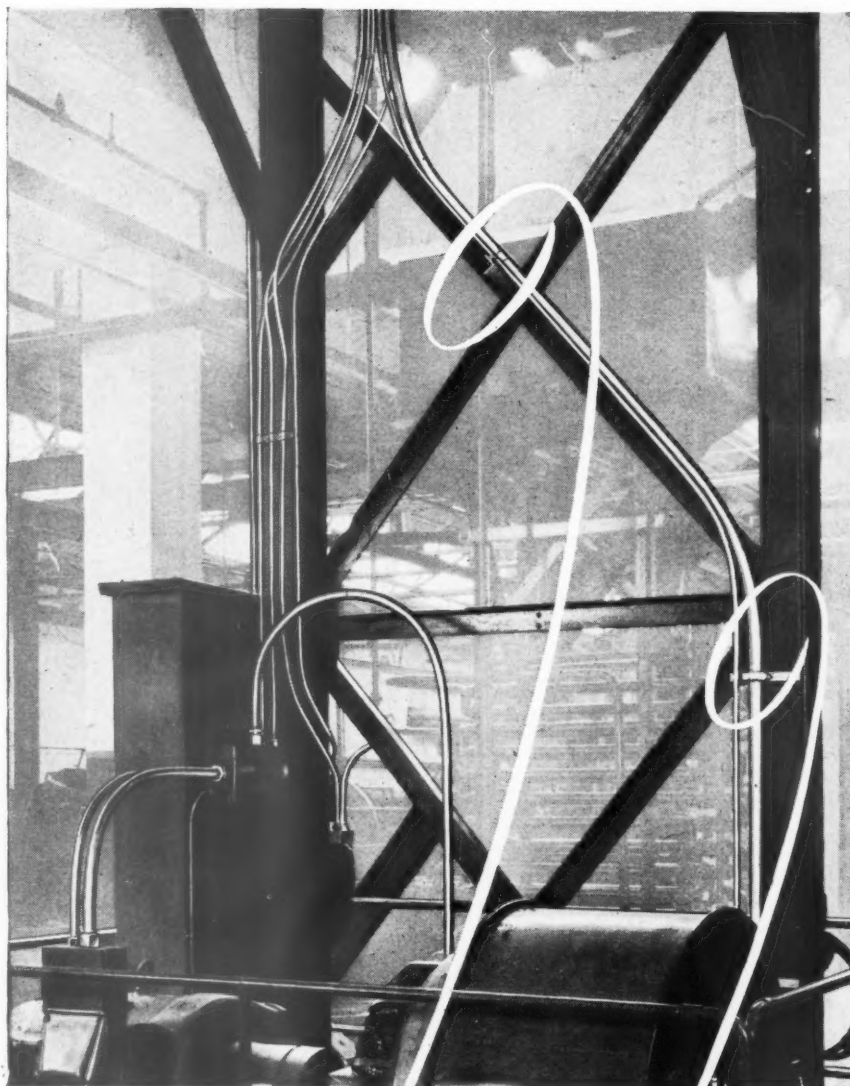


New copper roofing has now been laid by Holloway craftsmen on this fine old church, and should need no maintenance for a century. Its architectural beauty will be further enhanced when the roof has weathered to the distinctive green shade. Wisely chosen from the long term view, free from creep and fireproof, copper was in fact found to be far cheaper than recovering with lead. Many fine examples of Holloway roofing in both copper and zinc on contemporary buildings include private dwellings, offices, and schools . . . right up to the Royal Festival Hall . . . no job is too large or small. This knowledge is freely at your disposal.



HOLLOWAY METAL ROOFS LTD

44/46 QUEENSLAND ROAD, HOLLOWAY, N.7. TEL: NORTH 4424/5



One! Two!

... it's surprising how few

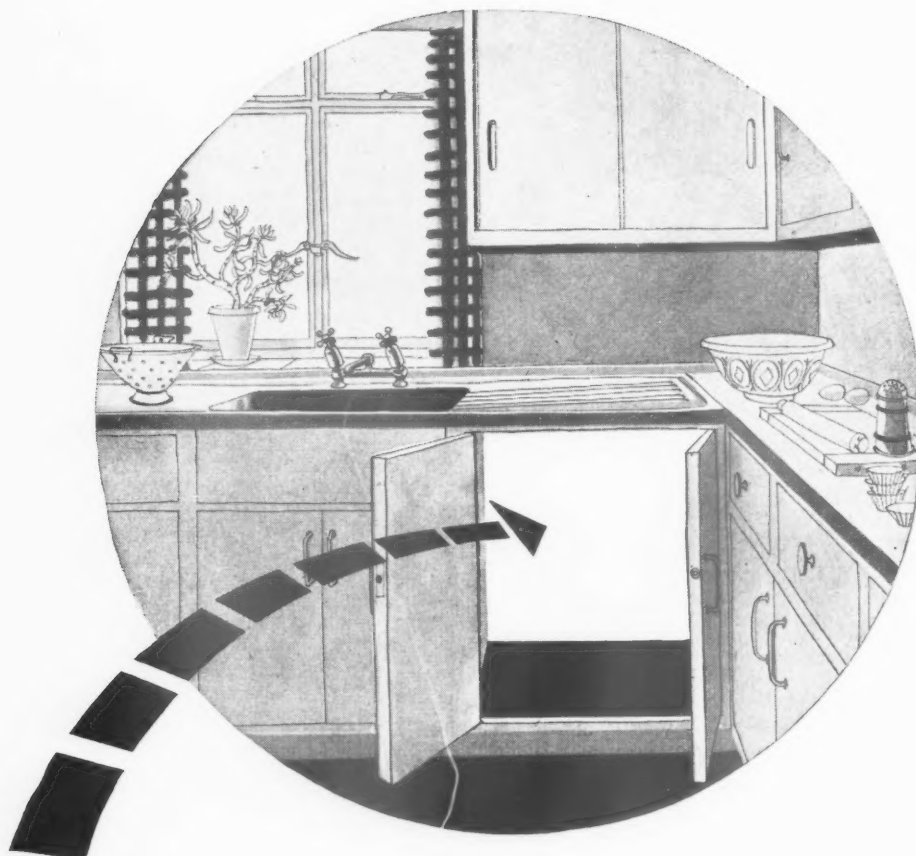
... supports are required for J. & P. Aluminium Sheathed Cables. The lightness and strength of the aluminium sheath greatly facilitates erection and reduces cost considerably.

British Patent Nos. 627815 & 627793



JOHNSON & PHILLIPS LTD.
CHARLTON LONDON S.E.7

The mark that means that "little more" in quality



The water heater designed to go under the draining board

for kitchens where every foot of space must serve a purpose

THIRTEEN YEARS AGO, Sadia made a great contribution to the planning of small kitchens. They designed a compact electric water heater 33" high x 20" diameter to fit *under the draining board*. This position, because it is low and inconvenient for storing, had hitherto been wasted in most kitchens. With a Sadia type UDB electric water heater tucked away in the space, all kitchen walls are left free for cupboards and shelves.

The modern Sadia type UDB incorporates many refinements. It is economical to run and conserves electricity. A 500 watt thermostatically controlled unit constantly supplies small quantities of hot water. When larger quantities are required an additional unit of 2500 watts is easily switched on. Heat wastage is kept at an absolute minimum—while the nearness of the kitchen sink prevents pipe losses.

The original design of the Sadia type UDB is now accepted practice. After 29 years of progressive leadership in electric water heating, Sadia still leads the field in modern design, quality and performance.

The Sadia type UDB has

- ★ Two thermostatically-controlled heating elements. ★ A copper tank, twice tested to a pressure of 100 lbs. per sq. inch.
- ★ Cork insulation—all heat remains in the water. ★ Thermostatic control at 175°.

Sadia Works, Rowdell Road, Northolt, Middlesex. Scottish Agents: W. Brown & Co. (Engineers) Ltd., 89, Douglas St., Glasgow, G.2. Manufactured in South Africa by Sadia Water Heaters (Pty.) Ltd., 3-5 Newton St., Village Main, Johannesburg

SADIA
HOT WATER BY
ELECTRICITY

e
. .
e
o
y
n
s
f
e
s
n
.

N

MONOCHROME



...the NEW *Accotile** pattern

Accotile, the thermoplastic tile-flooring made by Armstrong Cork Company Limited, is now available in a new pattern—MONOCHROME—and the six British Colour Council shades, shown here: CORAL BEIGE (A), HARVEST GOLD (B), GEORGIAN GREEN (C), CARNELIAN RED (D), FRENCH TURQUOISE (E) and SAGE GREY (F).

Differing in colour and pattern from both plain and marbled Accotile, each Monochrome tile is a blend of various shades of a given colour. With this addition to the Accotile range an almost countless variety of attractive floor designs is possible for buildings of every description. MONOCHROME tiles can be combined with the standard range.

Like all Accotile, the new MONOCHROME pattern tiles are easily cleaned by washing with water and can be polished if required. The new tiles are available in the standard sizes 12" x 12" and 9" x 9" and in two thicknesses $\frac{1}{8}$ " and $\frac{3}{16}$ ". Write for Publication 300B, which gives further information on MONOCHROME.

ARMSTRONG CORK COMPANY LIMITED

London: Flooring Dept., Bush House, Aldwych, W.C.2. Tel: Chancery 6281.

Manchester: Royal Exchange Building, Market Street. Tel: Deansgate 7311-2.

Birmingham: Westminster Chambers, 93a Corporation Street. Tel: Central 1271.

Glasgow: 5 Oswald Street, C.I. Tel: Central 5703.

Dublin: 54 Middle Abbey Street. Tel: 54901.

* British Registered Trade Mark 665595, Armstrong Cork Company Ltd., Registered Users

Designed for Harmony with Safety

Ferodo Stairtreads are as safe as science can make them. Gleaming aluminium nosing outlines each step . . . inlaid Ferodo material provides a firm, non-slip grip for every type of footwear. But the superiority of these hard-wearing Stairtreads doesn't end there! Ferodo designers have carefully chosen a range of colours that will harmonise with any flooring scheme.

This ensures that Ferodo Stairtreads will merge tastefully into your overall colour plan, giving lasting safety without disturbing the elegance of your design.

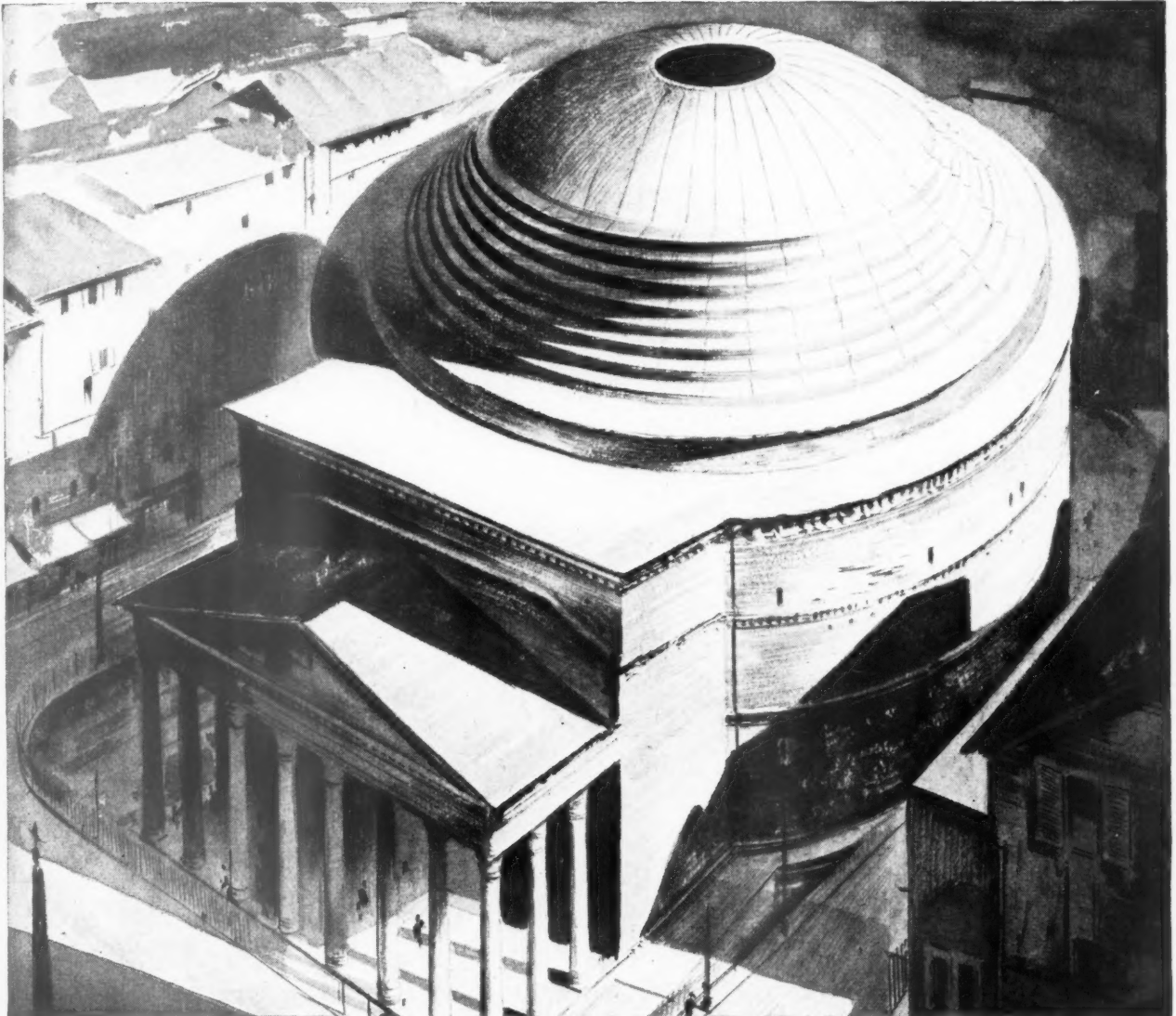
Send for Publication 732 containing full information.



Ferodo Stairtreads SM 50 (TRI) fitted to granolithic stairs at Messrs. N. Corah & Sons, Ltd., works at Leicester. Architects: Symington, Prince & Pike, Leicester. Contractors: W. Blackburn & Sons Ltd., Leicester.

FERODO STAIRTREADS

FERODO LIMITED · CHAPEL-EN-LE-FRITH · A Member of the Turner & Newall Organisation



Famous Roofs ...

THE PANTHEON—ROME, so-called because “its dome resembles the curved canopy of heaven”, was begun by Agrippa in 27 B.C.—completely re-built by Hadrian in the second century A.D. Dedicated as a Christian church, it has existed as a place of worship for almost 2,000 years. It is in perfect preservation except for the original bronze tiles from the dome, taken to Constantinople in A.D. 665.

The history of roofing is the story of man's endeavours to build a permanent shelter against the elements—with successively more suitable materials as they become available.

The roof of the Pantheon is a fine example of great achievement in this story, for there the choice of design and the right materials has stood the test of time.

Today it is just as necessary that the most permanent roof covering should be specified from the most suitable materials available. That is why “CORROPLAST” is chosen wherever corrugated sheeting is wanted—and wanted to last.

CORROPLAST

Manufactured by HOLOPLAST LIMITED • Sales Office: 116 Victoria Street • London S.W.1 • Telephone VICTORIA 9354/7 & 9981
Head Office and Works: New Hythe, Near Maidstone, Kent.



DURALUMIN

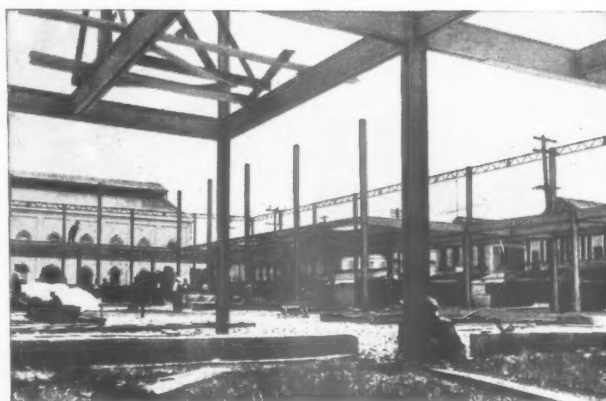
REGD. TRADE MARK

frame for Store Building

The entire framing of this large building at Georgetown, British Guiana, designed to be heavily loaded on its upper floors, is carried out in 'Duralumin' aluminium alloy. The building is over a volcanic pit, and the cost of piling to take a steel frame would have been prohibitive. The saving in weight by using 'Duralumin' enabled the whole building to be carried on timber piling.

Duralumin 'H' was used for the stanchions: the beams, which are hollow, have top-hat sections of the same alloy, and web-plates in Duralumin 'S'. In the roof structure, advantage was taken of the ease of extrusion of light alloy by using bulb angles, the increased section modulus, so obtained permitting considerable extra saving in weight.

'Duralumin' is one of a range of aluminium alloys manufactured and marketed in this country solely by James Booth & Co. Ltd. Our Development Department will gladly give advice, without obligation, on the use of aluminium alloys for structural work.

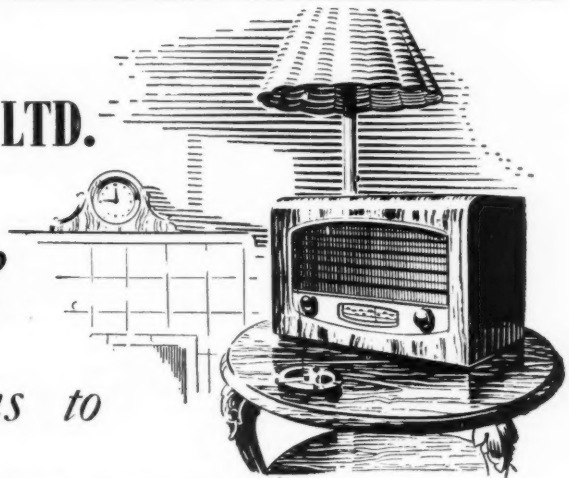


Top: a general view of the building—for Messrs. Booker Bros., McConnell & Co. Ltd.
Above: the main building under construction, showing 'Duralumin' hollow beams.
The structure was designed by J. E. Temple, Whit. Sch., D.I.C., Consulting Engineer, 9a, Seymour Walk, South Kensington, London, S.W.10, in conjunction with the architects, Messrs. Watkins, Gray & Partners, F.F.R.I.B.A., and the sections were fabricated by E. C. Payer & Co. Ltd., Limerick Works, Meeting Street, Great Bridge, Tipton, Staffs. Messrs. John Mowlem & Co. Ltd. were the contractors.

JAMES BOOTH & COMPANY LIMITED • ARGYLE STREET WORKS  BIRMINGHAM 7

T. & W. FARMILOE LTD.

announce
the following additions to
their well-known NINE ELMS
range of paint products



'PORTCULLIS' BRAND White Lead Base Paint is available again. Now . . . after 10 years absence, Farmiloe's famous 'Portcullis' brand paint is obtainable again. Containing a very high proportion of genuine white lead at an unusually competitive price, this highly reliable paint has many uses . . . as a coat on coat finish, for any inside or outside work. Available in pink priming, undercoating and finishing in our standard range of pastel colours. In 1, $\frac{1}{2}$ and $\frac{1}{4}$ gallon tins.

'BRITEWALL' WATER PAINT is a superb new addition to our range. This new washable oil bound water paint is ideal for internal wall decoration. It dries with a smooth matt finish and is restful to the eye. 'Britewall' is made in a wide range of artistic colours—tint cards sent on request. Supplied in 4, 7, 14 lb. tins and in bulk in paste form, requiring only the addition of water to prepare it for use. 'Britewall' is the most competitive paint of its kind on the market.

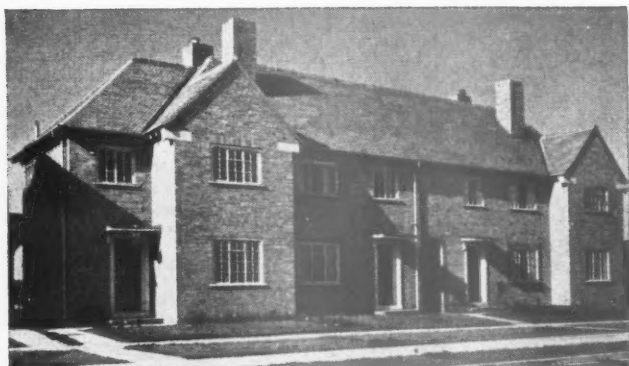
'NINE ELMS ENAMEL PAINT' is specially introduced for the Decorator's use. Based on an Alkyd Resin varnish, this paint has ease of working, excellent flow under the brush, quick setting properties, flexibility, strong adhesion and excellent gloss retention. It has high resistance to blistering, cracking and flaking. Stocked in our standard range of colours, all of which are intermixable. Available in 1 gallon, $\frac{1}{2}$ gallon, $\frac{1}{4}$ gallon tins.

T. & W. FARMILOE LTD. makers of **NINE ELMS** Pure Paint Products



ROCHESTER ROW, WESTMINSTER, LONDON, S.W.1. Phone: VICtoria 4480.

A TRADE MARK AS GOOD AS A BOND



Houses in Merton Village, Ford, Lancs. Architect: Felix Holt, A.R.I.B.A.

**A
BRICK
EXTERIOR**
takes care
of itself



Houses at Bury St. Edmunds. Architects: Messrs. Mitchell & Weston, F.F.R.I.B.A.



Houses at Leeds. City Architect: R. A. H. Livett, O.B.E., A.R.I.B.A.

BRICK
keeps upkeep
down

Issued by The National Federation of Clay Industries, London, W.C.1.



Everything from a $\frac{1}{8}$ " Union

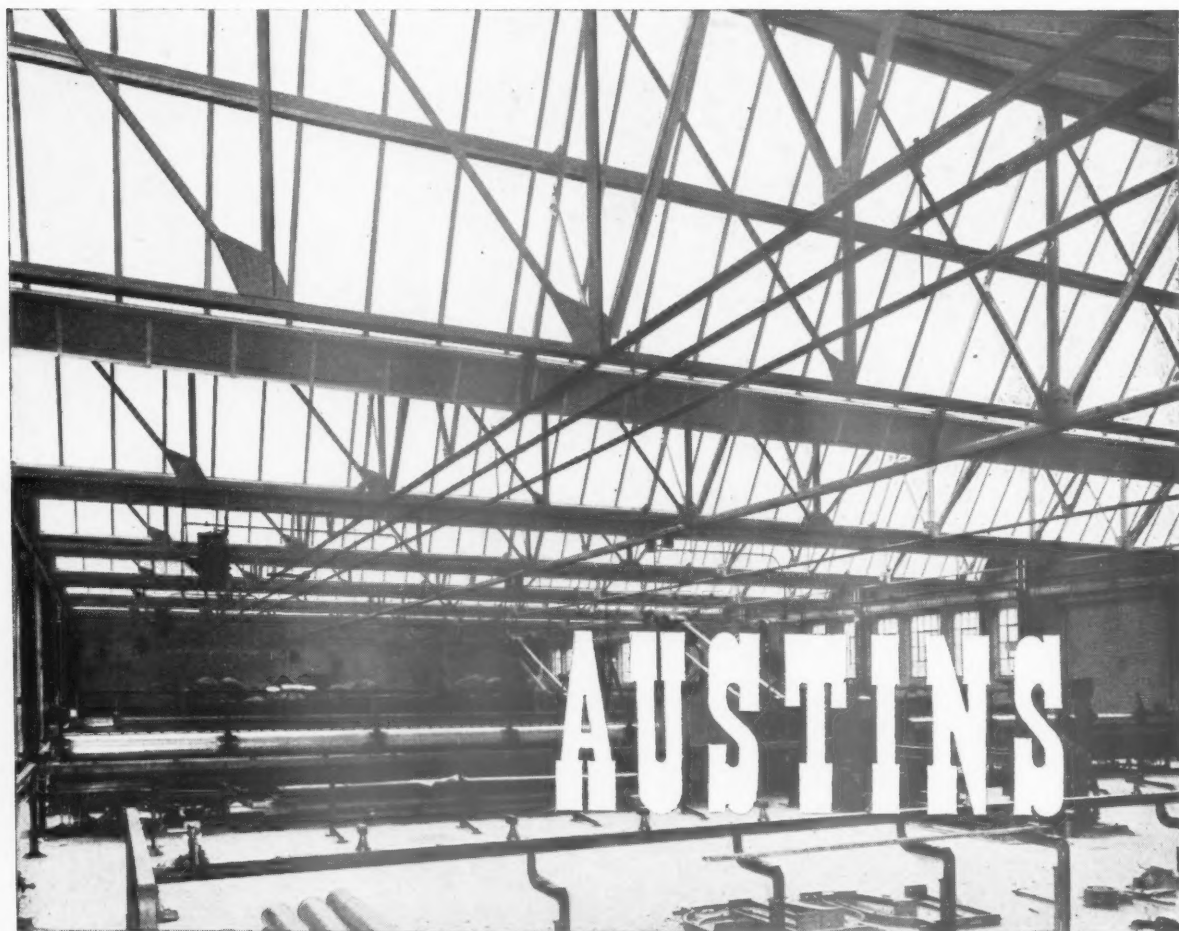
Thoroughbred
BRASSWORK
for the Gas Industry

to a 2" Main Cock



WILLIAM EDGAR & SON LTD

BLLENHEIM WORKS HAMMERSMITH LONDON W.6 Tel: Riverside 3486



Architects: Messrs. Smith & Currey,
Chartered Architects,
1, Church Street, Heckmondwike

Carding and Spinning Dept., John Fenton & David Bradley Mills Ltd., Batley

STRUCTURAL STEELWORK

specialists in the design
fabrication and erection of steelwork



Established 1850

James Austin & Sons Ltd (DEWSBURY)

THORNHILL IRON & STEEL WORKS · DEWSBURY

Telephone: 1750 (5 lines)

Telegrams: "Austins," Dewsbury

Private Sidings: British Railways, Thornhill

Associated Companies: ASTLEY BROOK & CO. LTD., ST. GEORGE'S WORKS, HUDDERSFIELD, MANUFACTURERS OF "A.B.C. GARAGES AND GREENHOUSES."*
A. J. RILEY & SON LTD., VICTORIA WORKS, BATLEY, BOILER MAKERS, WELDING ENGINEERS.

Hollis Flooring



ST. BRIDGETS HOUSE
BRIDEWELL PLACE, E.C.4

Buildings of Distinction

Modern architecture reveals a character all its own. Clean, graceful and well proportioned lines, light and airy interiors and harmonious decor are cardinal points in modern planning. Ideas of form, of line and of interior finish change with the years, but nothing can ever take the place of WOOD as the ideal and most versatile flooring material.

And wherever wood floors are specified HOLLIS BROS. LTD. are there to provide their traditional service in the installation of—

Floors of Distinction

HOLLIS BROS. LTD

HULL, CRAVEN HALL
LEICESTER, ULVERSCROFT RD.

LONDON, 150 HOLBORN E.C.1
BIRMINGHAM, CAMBRIDGE ST.

THE ARCHITECTS
Trehearne & Norman, Preston & Partners

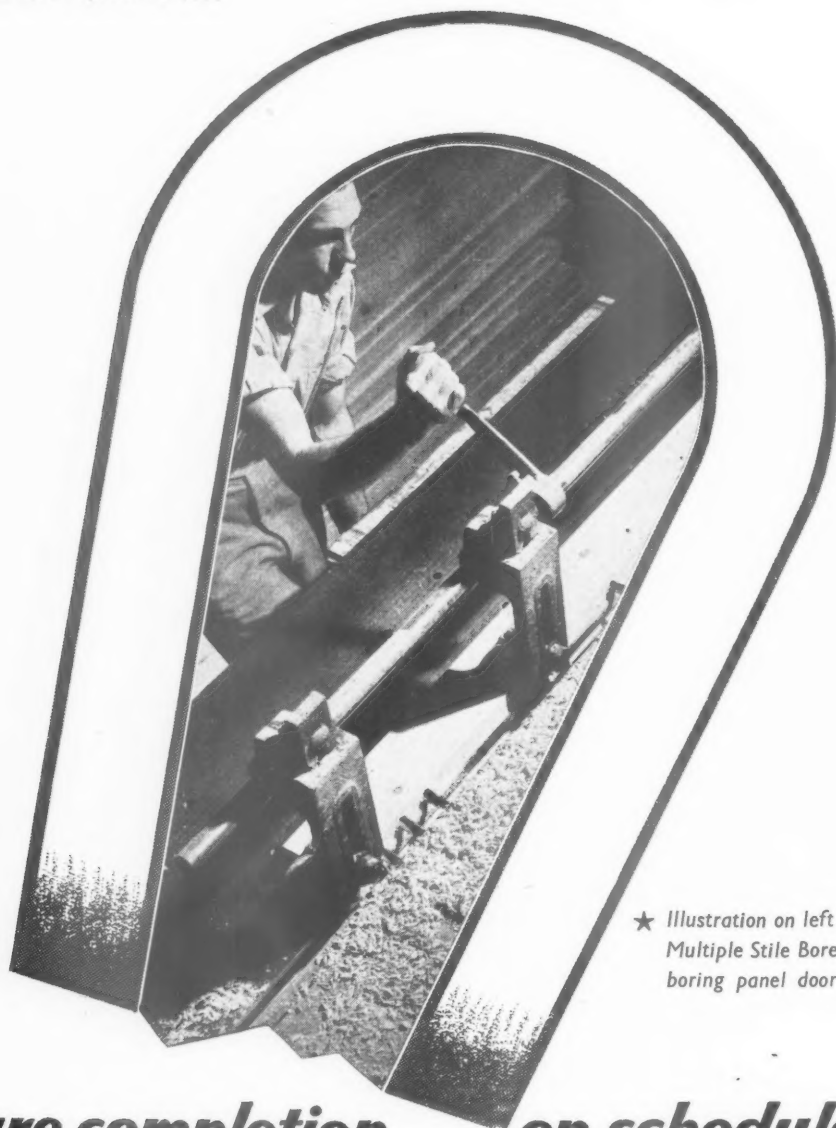
THE BUILDERS
Trollope & Colls Limited

THE SPECIFICATION
5500yds. Beech Wood Block Flooring

There's nothing like **WOOD**

WOOD BLOCK, HARDWOOD, STRIP AND
PARQUET FLOORING

Approved contractors for SEMASTIC
decorative tiles (Product of a Dunlop Company)



★ Illustration on left shows a Multiple Stile Borer, boring panel door stiles.

To ensure completion on schedule . . . **USE MAGNET SERVICE**

There are sound reasons why important Housing Schemes all over Britain employ Magnet Service for Standard Joinery, Doors, Windows, Cupboards, etc. Magnet Service saves valuable time, cuts out delays, reduces costs, and helps to ensure completion on schedule.

The Magnet countrywide organisation holds ample supplies of kilned and air conditioned timber. Stocks are sufficient for instant delivery, to cope with any emergency. Our highly skilled staff, working in three up-to-date factories, are waiting to meet your demands.

Write for free literature to . . .

WHITLEY STREET, BINGLEY, YORKS Phone: Bingley 3547 (5 lines)

LOVE LANE, ASTON, BIRMINGHAM Phone: Aston Cross 3291

LONDON ROAD, GRAYS, ESSEX Phone: Tilbury 77 (5 lines)

MAGNET
JOINERY LIMITED

Who called Marigold Yellow ?



Not guilty ! But all who make a trial of Dockers' Decorative Finishes return a verdict in their favour. Witness the general acceptance of Hermator, Syntholux, Hermasheen and Muroleum as standard specifications wherever durability and fine appearance are required.

DOCKER BROTHERS

Makers of Paints, Lacquers and Varnishes for every purpose

LADYWOOD · BIRMINGHAM 16



GLASS NEWS

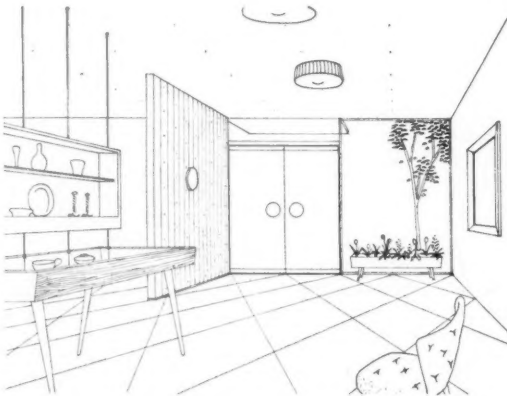


TENANTS' PRIVATE ENTRANCE IN BLOCK OF FLATS

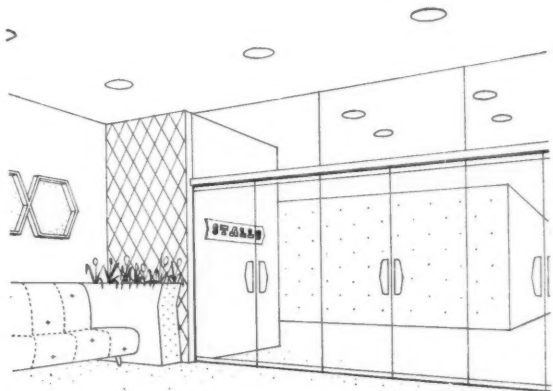


ENTRANCE TO DAIRY

"ARMOURPLATE" GLASS DOORS OPEN UP POSSIBILITIES



INTERIOR, FURNITURE SHOWROOM



CINEMA FOYER

ENTRANCE TO ART GALLERY



Open up and brighten the entrances and interiors of every type of building with Pilkington's "ARMOURPLATE" Glass Doors.

Standard sizes are now available from stock through the usual trade channels.

Designed by Edward Mills, F.R.I.B.A.

Consult the Technical Sales and Service Department at St. Helens, Lancs., or Selwyn House, Cleveland Row, St. James's London, S.W.1
Telephones : St. Helens 4001, Whitehall 5672-6.



PILKINGTON BROTHERS LIMITED

ST. HELENS

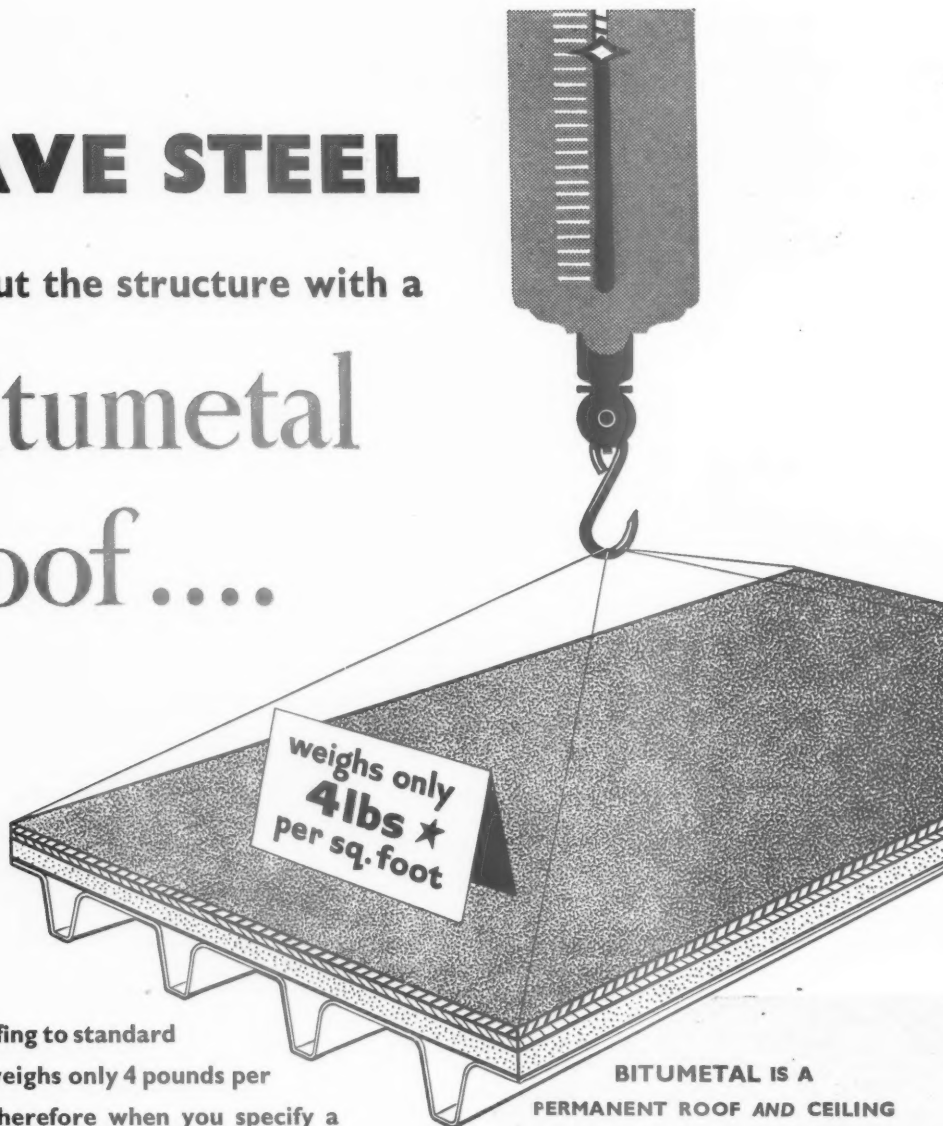
LANCS.

"ARMOURPLATE" is the registered trade mark of Pilkington Brothers Limited.

SAVE STEEL

throughout the structure with a

Bitumetal Roof....



Bitumetal roofing to standard specification weighs only 4 pounds per square foot, therefore when you specify a Bitumetal roof you materially reduce the amount of steel required to support the roof.

The country is desperately short of steel, and as the armament drive gets into full swing, many building structures may be held in abeyance because of their high steel specification. Remember this, and specify Briggs BITUMETAL Roofing wherever you can.

BITUMETAL IS A

PERMANENT ROOF AND CEILING built up from aluminium decking, insulation board, and bitumen roofing. It is adaptable for flat, pitched, curved, or vertical construction. It requires no maintenance. It cannot deteriorate.

★ The heaviest Standard Specification weighs up to 8 lbs. per sq. ft.

Full technical data will gladly be supplied on request to any of the undernoted offices.

William Briggs & Sons Ltd

Vauxhall Grove, LONDON, S.W.8 Regd. Office: DUNDEE

ABERDEEN
Bedford Road

EDINBURGH
Murrayfield Station

BRISTOL 3
Stillhouse Lane, Bedminster

LIVERPOOL
Kirkby Trading Estate

LEICESTER
Belgrave Road Station

GLASGOW C.3
200 Old Dumbarton Road

NORWICH
Trowse Millgate



that specifies the

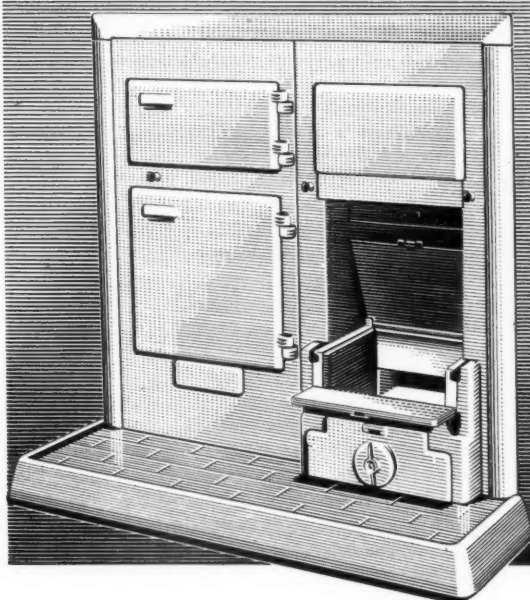
No. 12 YORKIST combination grate

The Radiation No. 12 Yorkist is a new combination grate developed for housing schemes and is recommended to Local Authorities by the Ministry of Fuel and Power.

Consider these fine features.

- Exceptionally cheerful open fire ensured by lower fall bar and lower polished hob.
- Continuous and economical all-night burning on any domestic solid fuel.
- Passed with honours Radiation's exacting cooking tests.
- Complete and accurate control of oven temperature and hot water output by means of simple damper switch.
- Well-known Yorkist low maintenance costs.
- Easy to install and finished in the famous LEXOS porcelain enamel.

For further details of the No. 12 Yorkist Combination Grate please write direct to the Production Centre: The Park Foundry (Belper) Ltd., Belper, Derbyshire.

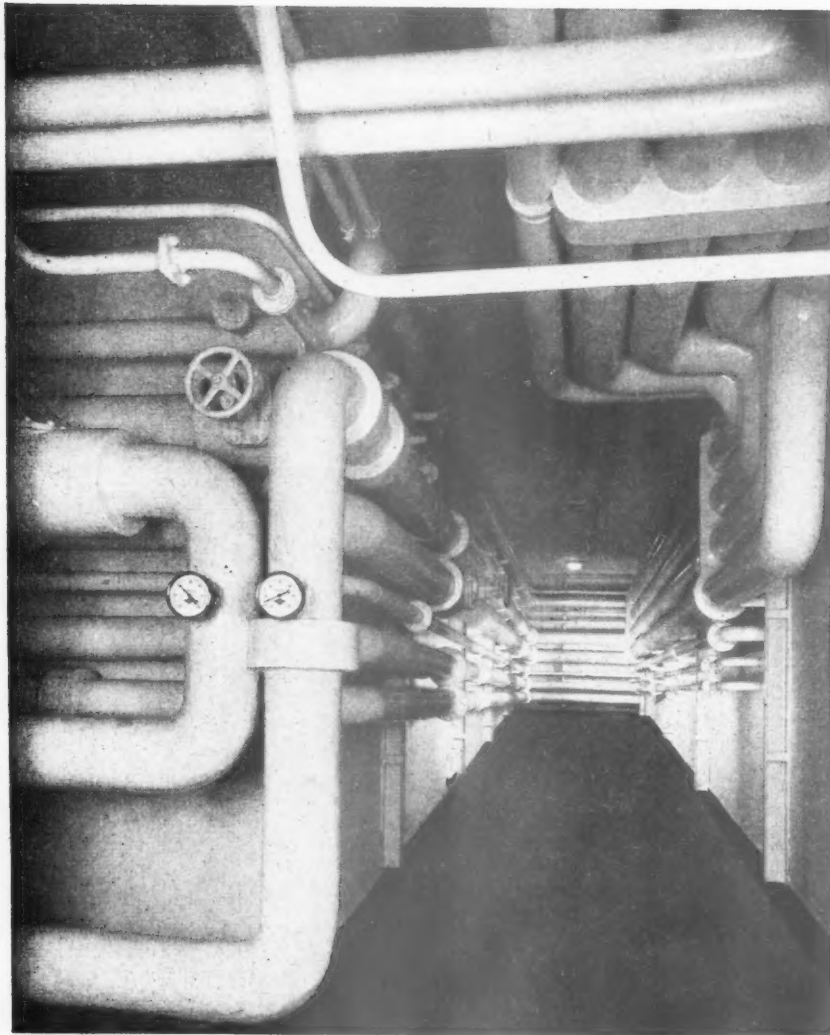


SOLID FUEL
Radiation
APPLIANCES



✓ Approved by the
Ministry of Fuel and Power

SULZER



Factory of
Messrs. Courtaulds Ltd.
at Carrickfergus,
Northern Ireland.

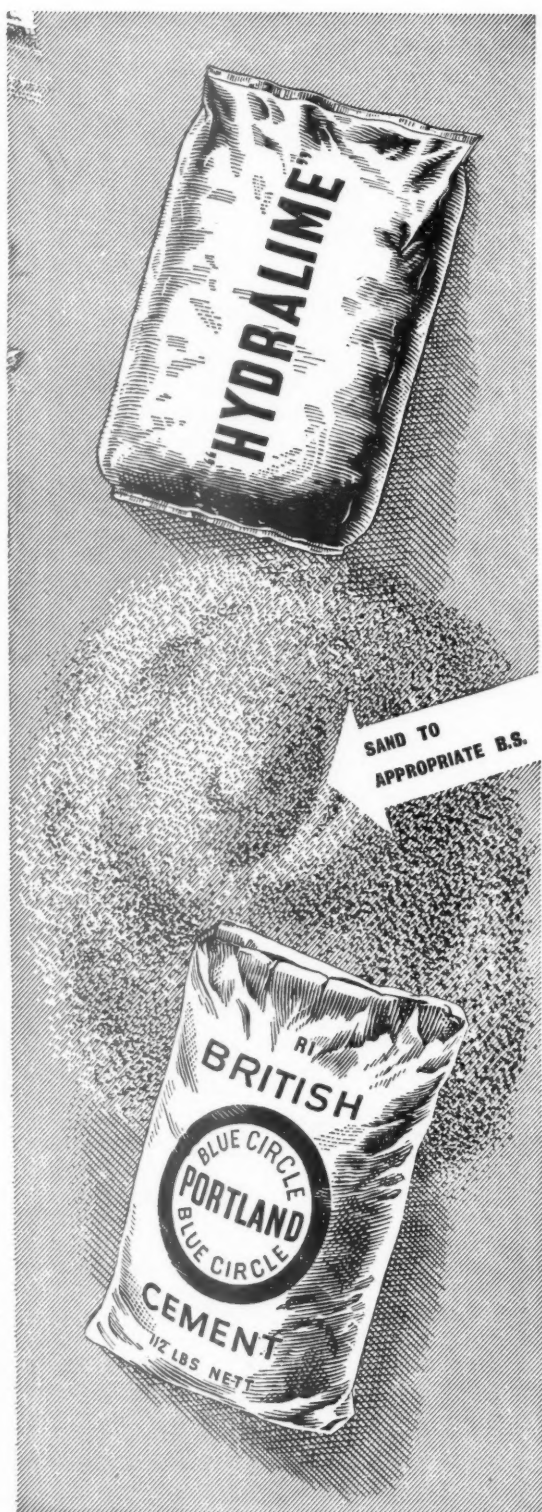
Welded Pipework by
Sulzer Bros. (London) Ltd.

AIR CONDITIONING
VENTILATION
PANEL WARMING
SPACE HEATING

ELECTRODE BOILERS
INDUSTRIAL PIPING
ALL-WELDED STEEL-
PIPING INSTALLATIONS

SULZER BROS (LONDON) LTD, 31, BEDFORD SQUARE, LONDON, W.C.1

SULZER BROTHERS LIMITED HAVE OFFICES AT:— WINTERTHUR — PARIS — NEW YORK — MADRID — CAIRO — RIO DE JANEIRO — BUENOS AIRES — SHANGHAI — KOBE.
Agencies at:— BRUSSELS — MILAN — AMSTERDAM — LISBON — COPENHAGEN — OSLO — STOCKHOLM — HELSINKI — ATHENS — ISTANBUL — ALGIERS — JOHANNESBURG — HAIFA — BOMBAY
KARACHI — COLOMBO — SINGAPORE — BANGKOK — MANILA — MONTREAL — MEXICO CITY — BOGOTA — CARACAS — SANTIAGO (CHILE) — LIMA — LA PAZ — SYDNEY — MELBOURNE — WELLINGTON



Hydralime + Sand + Blue Circle Portland Cement =

*The ideal mortar for
brickwork, masonry, and
internal plastering*

HYDRALIME

THE SCIENTIFICALLY HYDRATED LIME

and

BLUE CIRCLE PORTLAND CEMENT

Recommended mixes, based on Codes of Practice prepared by a Committee convened by the Royal Institute of British Architects on behalf of the Codes of Practice Committee,

Available from



THE CEMENT MARKETING COMPANY LTD

PORTLAND HOUSE, TOTHILL STREET, LONDON, S.W.1.

H2

It's a good job - it's
ROBBIALAC



AT BROMLEY TOWN HALL

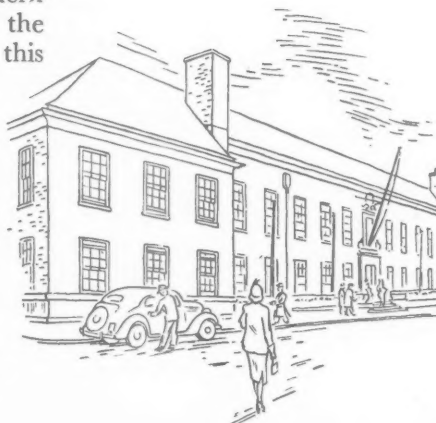
The Borough of Bromley is justly proud of its modern Town Hall. The choice of Robbialac Enamel for the exterior of this fine building was a wise one, for this superlative material provides a brilliant, hard finish which gives maximum protection to the property through all weather conditions. Robbialac Paints are also widely chosen by Public Authorities everywhere for municipal buildings, schools, libraries, public baths, etc. Specify or use Robbialac Paints for your best jobs too.

The exterior painting of Bromley Town Hall was carried out in Robbialac Enamel by the contractors, Henry Ludlow Ltd., Bromley, Kent.

JENSON & NICHOLSON LTD

Makers of Robbialac Paints and Industrial Finishes

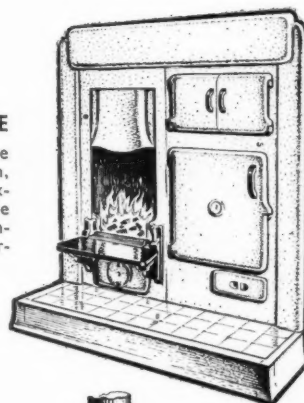
Jenson House, Carpenter's Road, Stratford, London, E.15.



THE ECONOMICAL FOUR

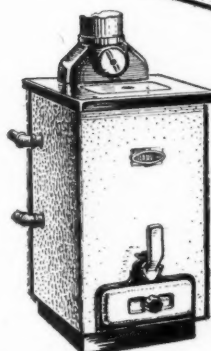
DERWENT COMBINATION GRATE

Efficient and economical fire provides heat for a large oven, fast-boiling hotplate with extension hob; hot closet. Ample domestic hot water and controlled room warmth. Over-night burning.



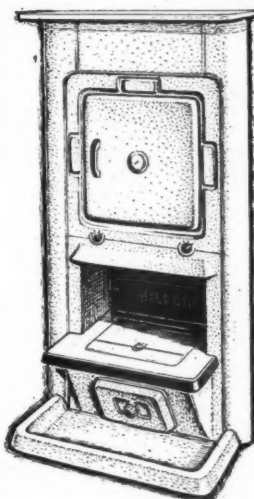
BOILERS B33 and B22

Waterway encircles fire and gives high output per square foot of heating surface. Bright, clean finish, minimum cleaning. B33 has steel water jacket, B.22 cast-iron.



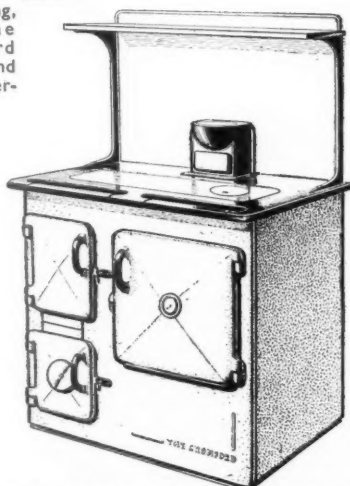
MILFORD oven-over Fire COMBINATION GRATE

At last, the perfect oven-over-fire grate. For space heating, water heating, cooking. Has withstood every test. Boiling space for five saucepans. Flue cleaning without removing ovens.



CROMFORD COOKER

The perfect all-purpose stove — cooking, water heating, space heating. The economical Cromford burns any solid fuel and can be regulated for over-night slow burning.

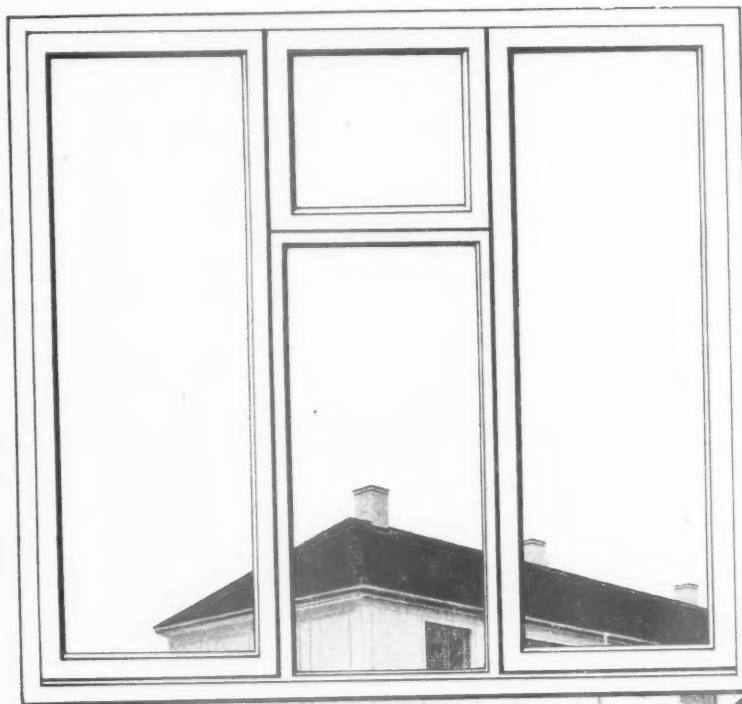


EACH MODEL APPROVED BY THE
MINISTRY OF FUEL AND POWER

GLOW-WORM

GLOW-WORM BOILERS LTD • DERWENT FOUNDRY • MILFORD

London Showrooms: 22-24 Buckingham Palace Road, London, W.C.2



**Peoples'
house
by
Wates
LIMITED**

Windows

In a design of classical simplicity, appearance can be made or marred by the joinery. In the present instance, quantity produced windows by Austins are satisfying to the eye and in the best traditional style. There is absolutely no need for house building to be held up awaiting supply of windows. Specify Austin-Hall windows for immediate delivery.

doors • windows • stairs • interior woodwork

supplied by **Austins** of East Ham

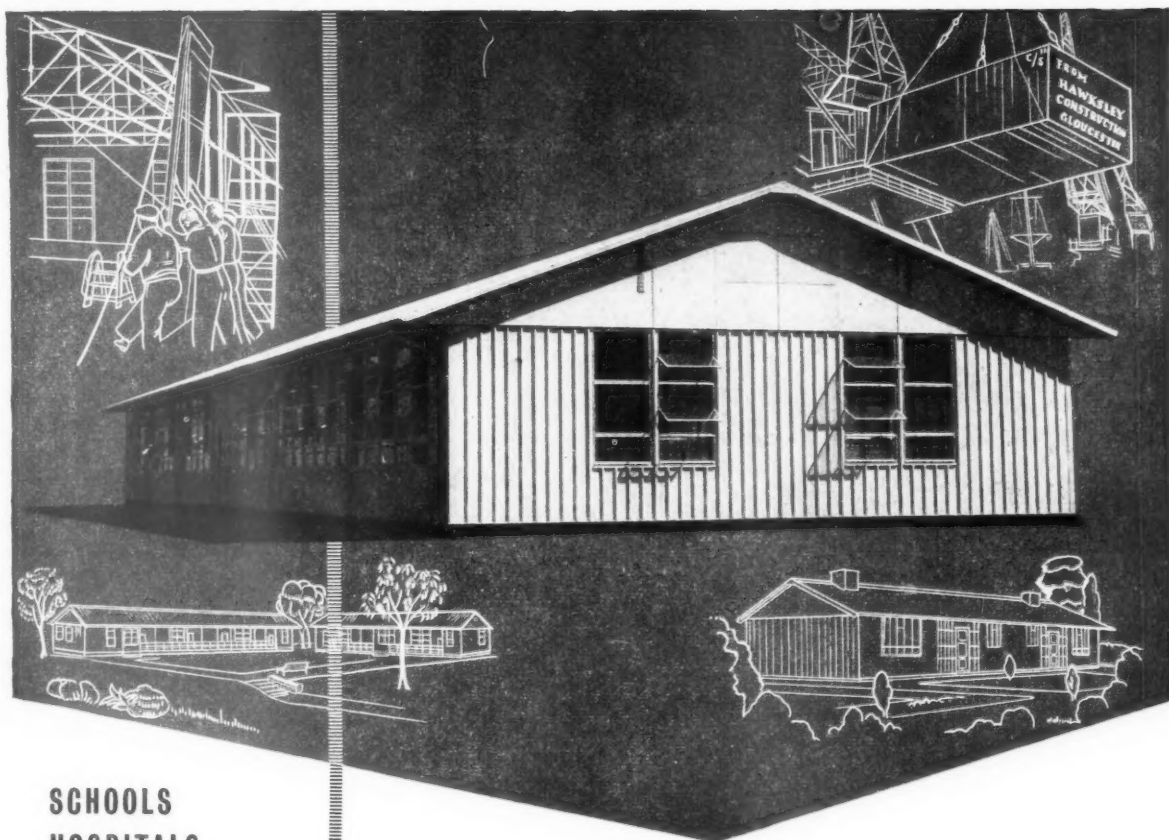
The Biggest Name in Joinery

AUSTINS OF EAST HAM LTD. LONDON E.6 GRANGEWOOD 3444 9

The Parent Company of **THE AUSTIN-HALL GROUP OF COMPANIES**



214-48



**SCHOOLS
HOSPITALS
DWELLINGS
OFFICES
STORES
LIGHT INDUSTRY
CANTEENS
HALLS - HOSTELS**

*just a few typical uses
of Hawksley factory made
buildings*

This could be the answer to your problem

Hawksley single-storey, factory made buildings are designed for home and overseas requirements. Of light alloy panel construction they may be supplied in lengths up to 152ft. without internal partitions. Internal arrangement of rooms can be made to suit the Architects' requirements. Supplied complete, crated if required, for road, rail or sea transport, they can be erected without skilled labour or special equipment. No call is made on traditional building labour during erection. Roof spans are 24ft., 32ft. and 40ft. Ceiling heights are 8ft., 9ft., 11ft. and 12ft. 6in. Wall panel modules are 4ft., 8ft. and 12ft. Over 25,000 have already been delivered, including a number of fifteen-room schools for the South Australian Department of Education. Leaflets giving full specifications and photographs and drawings showing typical layouts are available.

HAWKSLEY
Single Storey
FACTORY MADE BUILDINGS

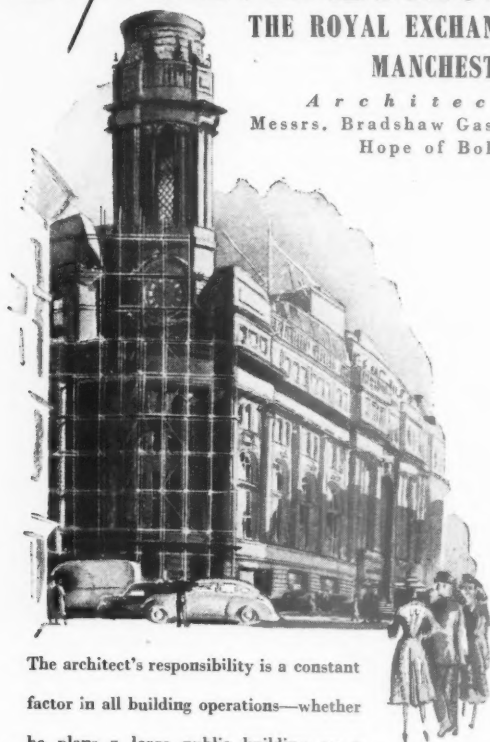
over 25,000 have been delivered

Our main illustration shows a 40ft. by 152ft. by 11ft. high single-storey block of offices for The Commonwealth Department of Building and Housing. Subsidiary illustrations show method of erection, crates for transport and typical layouts.

Planning for Reconstruction

THE ROYAL EXCHANGE
MANCHESTER

Architect
Messrs. Bradshaw Gass &
Hope of Bolton



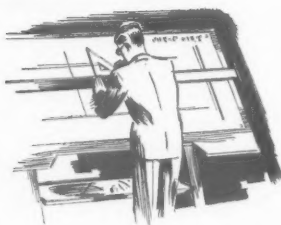
The architect's responsibility is a constant factor in all building operations—whether he plans a large public building or a private residence, his materials must be chosen impartially for their quality and durability.

The reconstructed Manchester Royal Exchange is glazed throughout with WAREING'S METAL WINDOW PUTTY—the finest in the world.

3 Ply-Cord

The perfect
Metal
Window
Putty.

3 PLY-CORD will not crack, run, or wrinkle under extremes of temperature. Definitely waterproof and weatherproof, it can be painted within a few days of glazing.



WAREING BROTHERS

and Company Limited
Carlton Street Works, Bolton.
Established 1905

Bolton 1566 (2 lines) & 227

BOWSTRING LAMINATED TIMBER ROOF

Delivery
3 to 6 weeks



Wood

THE
ULTIMATE
DEVELOPMENT
OF THE
BELFAST
TRUSS

... is coming into its own again. Increased supplies, and scientific methods of application have maintained its traditional supremacy as a building material. Lamination, allied to the modern practice of pre-fabrication, now produces a new and better form of roof construction, which is steadily growing in popularity. Immensely strong, it is immune from rust or atmospheric corrosion. It comes to you, pre-built to specification, ready to erect at a moment's notice, and its economy in timber makes it an attractive proposition to licensing officers.

Architects may be sure of full co-operation from the manufacturers.

Write for illustrated brochure to :—

William Kay

(BOLTON) LIMITED
BARK STREET
BOLTON

Phone
BOLTON 3925/6/7

Grams
KAY. BOLTON 3925

CHANGE BUILDING GLASSES

We make a range of building glasses second to none: glasses differing widely in pattern, application and obscuring power. The Flemish glass shown here is one of them: one much used for partitioning where absolute privacy is not essential. It is available in two pattern sizes and is effective in large panels: its bright lustrous surface is easy to keep clean. Other glasses include:—

Cathedral (in five textures of differing obscuration) Double Rolled; No. 2 Hammered; Glasgow Hammered; Mottled; Rough.

Figured Rolled Dewdrop; Festival; Flemish; Glistre; Montene; Stippolyte; Wavene, etc.

Flashed Opal White (the best diffusing medium).

Reeded (a family of glasses designed to harmonize with contemporary architecture: in three widths of fluting). Narrow, Broad, Major and Cross Reeded, Narrow and Broad Reedlyte (which gives greater obscuration than Reeded).

Rolled Plate $\frac{1}{8}$ in. Plain, $\frac{1}{4}$ in. Rough Cast, $\frac{1}{4}$ in. Wired Cast.

Between them they cover most architectural and decorative needs. Illustrated data sheets and leaflets are available.



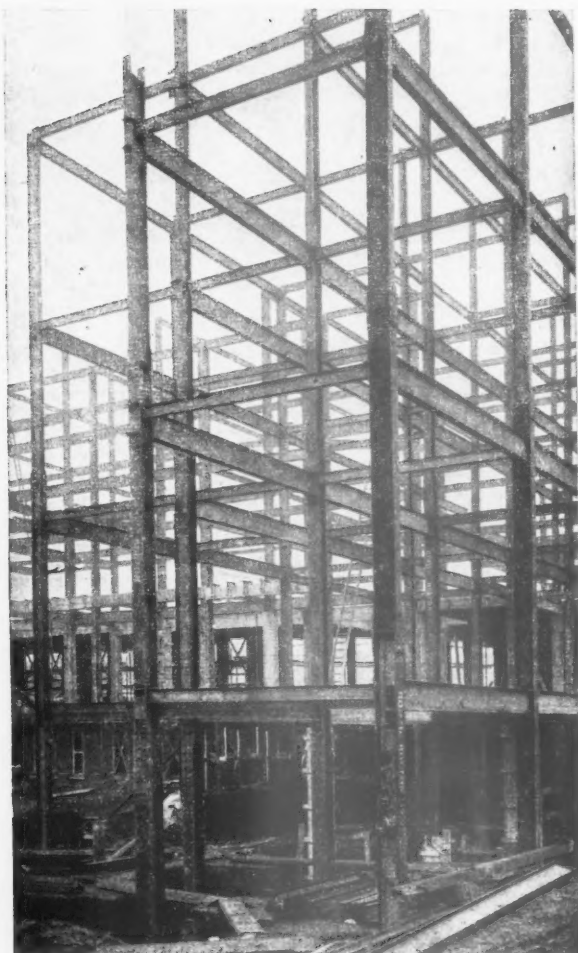
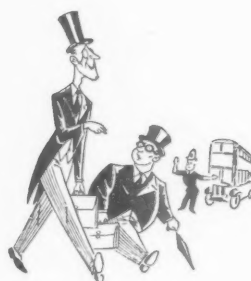
Chance
GLASS

FOR SCIENCE, INDUSTRY AND THE HOME

CHANCE BROTHERS LIMITED, Glass Works, Smethwick 40, Birmingham. Telephone: West Bromwich 1824.

London Office: 28 St. James's Square, London, S.W.1. Telephone: Whitehall 6002. Branch Works at Glasgow, St. Helens and Malvern.

the LONG and SHORT of it...



Whether the structure be multi-storeyed and heavy or a light single-storey factory BOOTH STEELWORK, as these photographs show, meets either requirement most satisfactorily. As a point of interest the lower photograph shows less than half the linear extent of the buildings erected.

BOOTH STEELWORK

*Steelwork for extension
to Derbyshire Royal
Infirmary*

*Portion of Works for
Messrs. de Havilland
Propellers Ltd., Lestock*



JOHN BOOTH & SONS (BOLTON) LTD., HULTON STEELWORKS, BOLTON Telephone: 1195

LONDON: 26 VICTORIA STREET, WESTMINSTER, S.W.1. Telephone: ABBey 7162



MANDER'S

PAINTS AND VARNISHES

MANDER BROTHERS LIMITED
WOLVERHAMPTON

In CANTEEN...



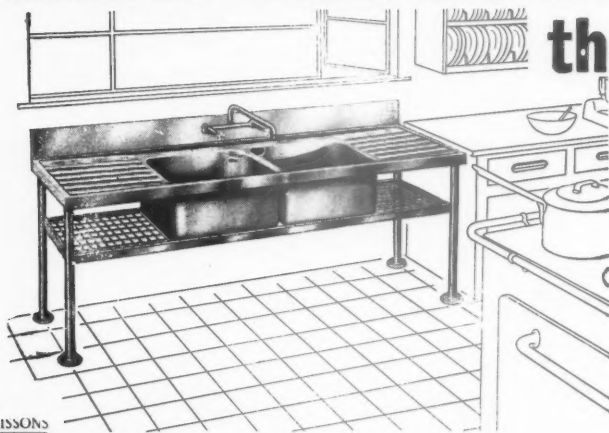
COTTAGE...



or CARAVAN...



Sissons Sinks are JUST what the ARCHITECT ordered!



The demand in modern kitchen and washroom planning is for hygiene *plus* appearance; that is why more and more discriminating architects are specifying "sinks by Sissons". They find that, from the diminutive corner models, to the heavy-duty catering models, there is a Sissons Sink to meet their requirements. Sissons make a wide range of standard models—and specialise in manufacturing sinks to customer's specifications. Whether you are modernising a canteen or converting a cottage, Sissons can supply sinks suitable for your purpose. Write today for descriptive literature.

Models may be seen at the Building Centre, 26 Store Street, W.C.1.



Workers in Metal since 1784



W. & G. SISSONS LTD., ST. MARY'S ROAD, SHEFFIELD 2



New Assembly Plant Buckley Motors Ltd. (Rootes Group) Vehicles Dublin

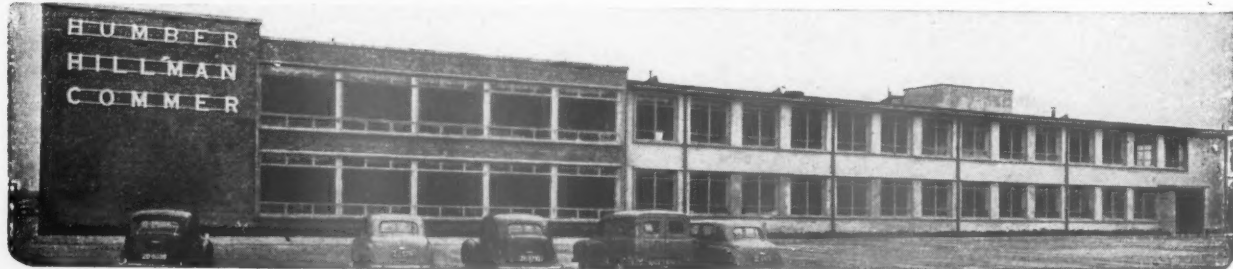
Building in Ireland

structural steelwork

steel windows

Smith & Pearson

Smith & Pearson Ltd., Newcomen Works, Dublin



The NEW improved **"Fortic"** (REGD) PATENT COMBINATION TANK

Now better
than ever

New, EXCLUSIVE features make the NEW FORTIC an even better proposition for domestic hot water supply.

A simple, ingenious device achieves the ideal of a cold water storage compartment completely insulated from the hot water storage compartment in one combined assembly.

All the familiar features of the "FORTIC" are retained and the new type tank is available with or without provision for indirect heating.



The NEW FORTIC also incorporates the patent RANGE BOILER bottom assembly, all brazed seams, special boss connections and the PERMANIZED finish.

RANGE BOILERS LTD.

(AND SUBSIDIARY COMPANIES)

STALYBRIDGE · CHESHIRE

Telephone · · Stalybridge 2231

Telegrams · Cylinders, Stalybridge



*The
Public Servant*

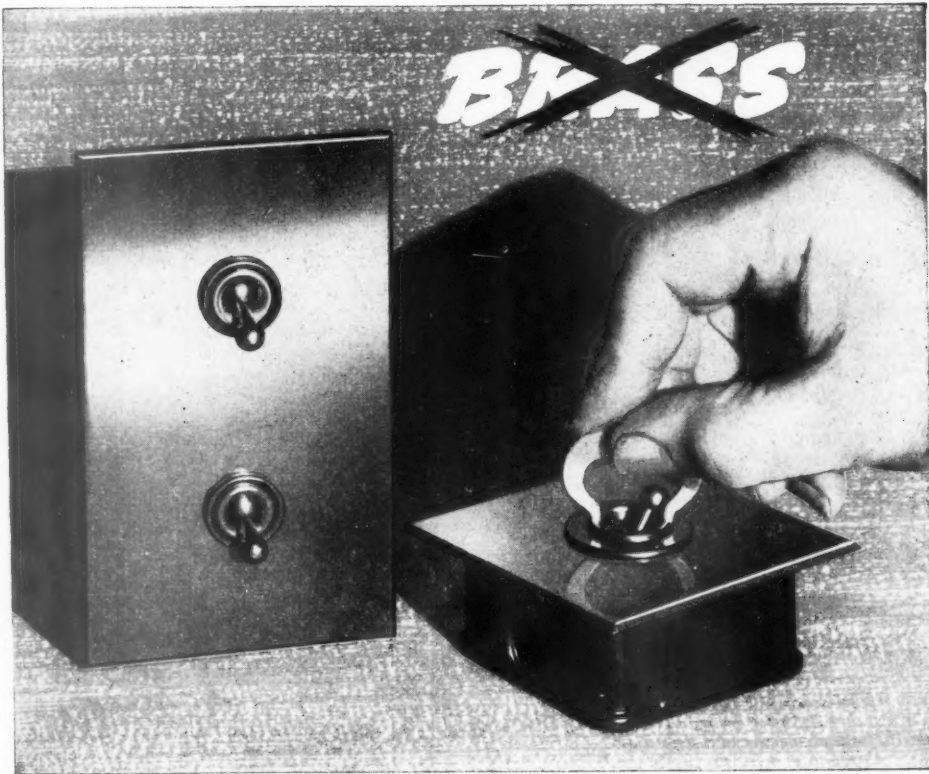
" The Best Gloss Paint in the World "

BRITISH PAINTS LIMITED

Portland Road, Newcastle upon Tyne, 2. Telephone:—25151



LONDON: CREWE HOUSE, CURZON STREET, W.1. Telephone: GROSVENOR 6401/5
● SEE OUR EXHIBIT AT THE BUILDING CENTRE, 26, STORE STREET, TOTTENHAM COURT ROAD, LONDON, W.C.1. ●



***Alternative* METAL PLATES ARE NOW AVAILABLE**

Restrictions upon the use of brass have led us to develop a full range of plain flush plates in aluminium. These substitute plates can be supplied in either "anodised natural" or "anodised B.M.A." finish.

CRABTREE

A name synonymous with Progress in Accessories and Switchgear

DECORATIVE FINISHES

*for cement, concrete, brick, stone, asbestos,
and allied building materials*

VALLEY ROAD INFANTS' SCHOOL, SUNDERLAND.

ARCHITECT: Harvey C. Bishop, A.R.I.B.A.
Borough Architect, County Borough of Sunderland.
CONTRACTORS: Messrs. Appleby (Builders) Ltd., Newcastle-on-Tyne.

The exterior cement rendering incorporating Sealantone Liquid Colour Cream shade in White Cement, and the floors laid incorporating Sealantone Liquid Colour Buff shade.



SEALOCRETE • SEALANTONE • SEALANTEX

provide the Answer

SEALANTONE LIQUID COLOURS

For incorporation in the final coat of cement renderings or cement and concrete floors. In many colours that are not only permanent and dustproof but they actually improve the strength and general characteristics of all cement, concrete renderings, roughcast, etc., in which they are incorporated.



SEALOCRETE LIQUID STAIN

Colours and protects asbestos, roofing tiles, brickwork, cement and concrete floors, precast work, etc. Not only does it impart a pleasing colourful effect, it also seals as it stains.



SEALANTEX SMOOTH FINISH

A new hard matt finish for interior decoration of cement, concrete renderings, plaster, etc. No saponifying, softening or discolouring through reaction with the lime in the cement. It has excellent covering capacity and is available in a number of pastel shades.



SEALANTEX LIQUID STONE COMPOUND

A decorative stone-like preparation for use on stone, asbestos, cement, concrete, brickwork, roughcast, etc., that can be applied internally, externally, or even on underwater surfaces such as bathing or paddling pools where the non-slip surface is an additional advantage. Available in many permanent colours.

VISIT OUR STAND
AT THE



PUBLIC WORKS
& MUNICIPAL
SERVICES
EXHIBITION
OLYMPIA
3rd - 8th Nov. 1952

SEALOCRETE PRODUCTS LIMITED

ATLANTIC WORKS, HYTHE ROAD, LONDON, N.W.10
Phone: LADbroke 0015/6/7 Grams & Cables: "Exploiture," Wesphone, London



**YOU'RE LEFT IN
NO DOUBT
WITH**



**GRADED
GABOON PLYWOOD**

EXTERIOR GRADE (Cementing equivalent to A.X.100)



SUMDEX

The face almost free from defects. The back permits small defects and is sometimes jointed.

MORDEX

Both face and back permit small defects, and there may be occasional joints.

The manufacture of Venesta Gaboon Plywood is always sound, reliable and consistent, irrespective of the surface grading.

The two grade names and grading labels of Venesta Gaboon Plywood are no mere approximate guides. The names "Sumdex" and "Mordex" tell you the precise standards of surface quality you can expect. Rigid adherence to these standards means that whichever grade of Venesta Gaboon Plywood you require you can specify it with complete confidence.

VENESTA LIMITED

PLYWOOD DIVISION

VINTRY HOUSE, QUEEN STREET PLACE, LONDON, E.C.4
Telephone: CENTRAL 3060

T.A.4516



WATERLOO MANSIONS, DOVER
(By courtesy of Dover Harbour Board)

Olivette

HIGH GRADE ENAMEL PAINTS

These paints represent the finest quality decorative materials and have proved their outstanding resistance to the ravages of atmosphere and light in coastal districts—the most exacting test. Even pale shades, so often fugitive, possess excellent colour and gloss retention. A short range of Olivette Exterior "Superfast" Greens of proved excellence for exterior work is also available.

Olivette High Grade Enamel Paints are available in both Exterior and Interior qualities. Each range provides the finest finish, maximum protection and greatest durability.

.....defiant of wind and weather

W. & J. LEIGH LIMITED

TOWER WORKS • BOLTON • LANCs

Telephone: Bolton 4277 (3 lines)
London Office: 15 St. Helen's Place, E.C.3
Glasgow Office: 163 Gt. Vincent Street, C.2

Telegrams: "Fabrique Bolton"
Phone: London Wall 1457/9
Phone: Central 2079





Solignum wood preserve it!



There are 3 kinds of SOLIGNUM:

SOLIGNUM WOOD PRESERVING STAIN — the standard preservative used throughout the world to give protection against dry rot, decay and the ravages of insects. It preserves and stains and is available in a variety of colours.

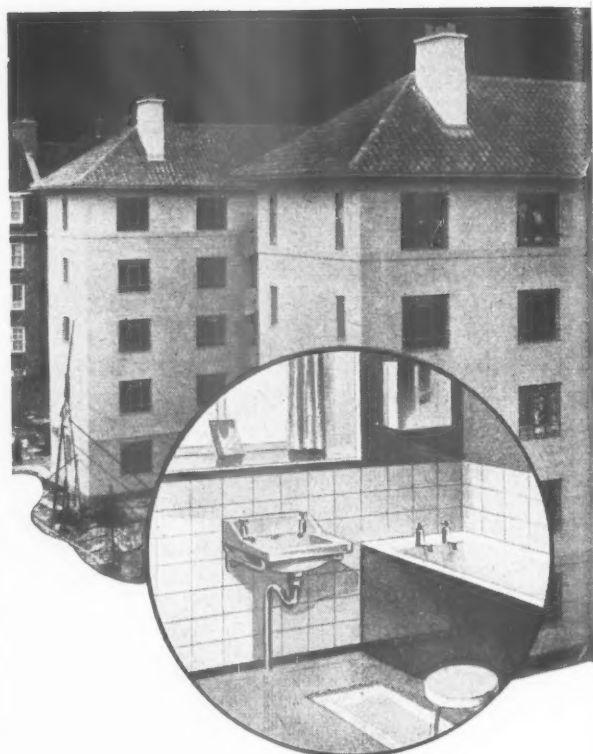
V.D.K. SOLIGNUM WOOD PRESERVATIVE — the grade that can be painted over; and which should be used on seed boxes, garden frames and the inside woodwork of greenhouses.

SOLIGNUM WOOD BEETLE DESTROYER — for woodworm in furniture.



WOOD PRESERVATIVE

Solignum Ltd., 30, Norfolk Street, London, W.C.2



Technicrete

There is a Technicrete product
for all concrete processes

- **METALLIC HARDENER**
For making new concrete floor toppings withstand iron shod trollies etc.
- **TRANSO WATERPROOFING SOLUTION** *
For waterproofing brick and stonework etc. (Transparent).
- **DE-GREASING COMPOUND**
For cleaning dirty and oil bound concrete floors.
- **DOUBLE STRENGTH PREMIX**
For waterproofing concrete floors.
- **NEUTRAL SURFACE DRESSING**
For dustproofing concrete floors.
- **ANTI-FREEZE SOLUTION**
For use when concreting in frosty weather.
- **WAX POLISHES**
For any purpose in any colour.
- **COLORTHRU**
Liquid colours for cement. For colouring cement floors through the entire mass.

OVER 25 YEARS OF PRACTICAL EXPERIENCE

Write for full particulars to:—

TECHNICRETE SALES

95/101, LITTLE ALBANY STREET
LONDON, N.W.1

Telephone: EUston 6635

SERVICE TO ARCHITECTS

BRISTOL BOMB-DAMAGE RE-BUILDING

Details are given below of some of the contracts to which we have supplied Equipment.

Our Showrooms, at 39/45, Victoria Street, Bristol 1, have recently been extended and completely re-equipped. We invite you to call and view the comprehensive range of equipment on display, our fully qualified staff and Architectural Department are readily available to deal with your enquiries.

BRISTOL GRAMMAR SCHOOL
Eustace H. Button, Esq., F.R.I.B.A., Architect, Bristol.
Messrs. Henry Willcock & Co., Builders, Bristol.

GAUNT HOUSE
Messrs. Alec. French & Partners, Architects, Bristol.
A. Scull & Sons, Sanitary and Heating Engineers.

BLOCK OF SHOPS, UNION STREET
J. Nelson Meredith, Esq., F.R.I.B.A., City Architect, Bristol.

UNIVERSITY OF BRISTOL, ENGINEERING SCHOOL
Oatley & Brentnall, Architects, Bristol.
A. Scull & Sons, Sanitary and Heating Engineers.

VETERINARY COLLEGE, UNIVERSITY OF BRISTOL
Messrs. Oatley & Brentnall, Architects, Bristol.

BIO-CHEMISTRY LABORATORY, UNIVERSITY OF BRISTOL
Messrs. Oatley & Brentnall, Architects, Bristol.
Messrs. H. Willcock & Son, Ltd., Building Contractors, Bristol.
Messrs. A. Scull & Sons, Sanitary and Heating Engineers.

**NEW PREMISES FOR "DOROTHY PERKINS,"
BROADMEAD SITE**
Messrs. Wm. Cowlin & Sons, Ltd., Building Contractors, Bristol.

**NATIONAL DOCK LABOUR BOARD, HOT-
WELLS ROAD, BRISTOL**
Messrs. A. J. Seal & Partners, Architects, Bournemouth.
Messrs. A. Scull & Son, Ltd., Sanitary and Heating Engineers, Bristol.

At Bristol, and from six other centres throughout Britain, the Rowe Organization offers an efficient Architectural Service maintained by a fully qualified technical staff with specialised knowledge of the latest advances in building construction, equipment and installation.

We invite Architects to enquire at the nearest Branch for assistance with any problem associated with the planning and provision of equipment for specialised installations including Catering Equipment, Sanitary Appliances, Metal Partitioning and Solid Fuel Heating Appliances.



B R O S . & C O . L T D .

39-45 VICTORIA STREET · BRISTOL · Phone: Bristol 23171

EXETER : Queen St. Exeter 4134

LIVERPOOL : Pall Mall. Central 5401

BIRMINGHAM : Berkley St., 1. Midland 2791

LONDON : 10 Dover St., W.1. Regent 5761

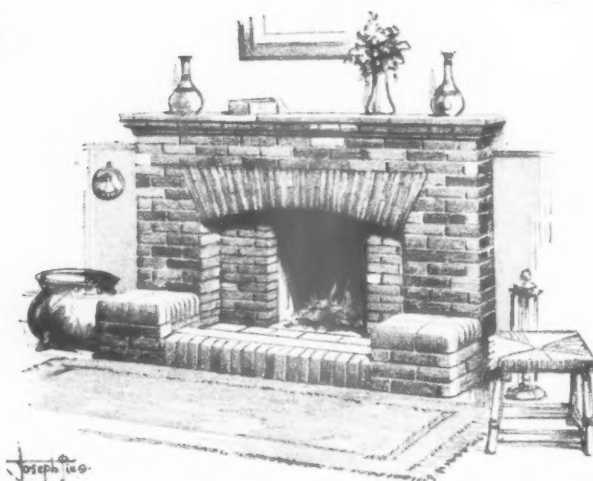
BLACKPOOL : 54, Coronation St. Blackpool 22341

GLASGOW : Rowe Bros. & Co. (Scotland) Ltd., 109, New City Rd., C.4. Douglas 8211

A Special Service for Architects

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

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



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

Claygate Old English Fireplaces

CLAYGATE FIREPLACES LTD., 7, CLAYGATE, SURREY

SCOTTISH WORKS: BARRIE ROAD, HILLINGTON, GLASGOW, S.W.2.

**THE TOP
SURFACE HEAVILY
IMPREGNATED
WITH STEEL**

**GIVES LONG
LIFE UNDER
HEAVY TRAFFIC
CONDITIONS**

**MADE IN
12" x 12"
1 1/4" & 2" THICK.**

THE MOVE THAT CHECKS THE WEAR & TEAR ON YOUR FACTORY FLOOR.

**FERROGRAN
STEEL FACED
FLAGS.**

**HEAD OFFICE:
EAGLE WORKS
WEDNESBURY
STAFFS**
TEL: WED 0284 (5 lines)

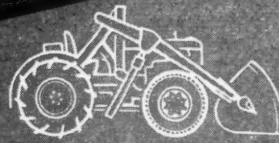
**LONDON OFFICE:
ARTILLERY HOUSE
ARTILLERY ROW
LONDON, S.W.1**
TEL: ABBEY 3816 (5 lines)

PRODORITE
EST. 26 YEARS

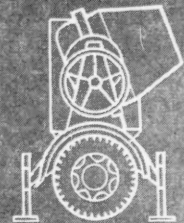
LOGOMOTIVES and CRANES • PILING PLANT • EXCAVATORS • SHOVELS • DUMPERS • TRACTORS
 LIFTING TACKLE • HYDRALOADERS • ROLLERS • BULL DOZERS
 GRABS • CONCRETE MIXERS • WINCHES and HOISTS
 CRUSHING PLANT • SHOVELS • DUMPERS
 AUTO-TRUCKS • ANT • AUTO-TRUCKS
 JACKS • BARROWS
 CONVEYORS • ROAD ROLLERS
 CONTRACTORS' TOOLS • JACKS
 GRABS • CONCRETE MIXERS • ROAD ROLLERS
 BULL DOZERS • TRACTORS • LIFTING TACKLE

When you want...
CONTRACTORS' PLANT
WARDS might have it!

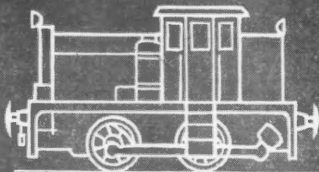
CONCRETE MIXERS



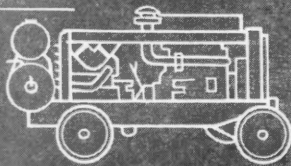
LOADING SHOVELS



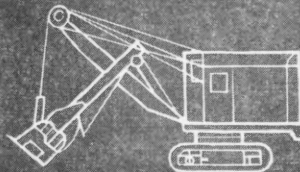
LOCOMOTIVES



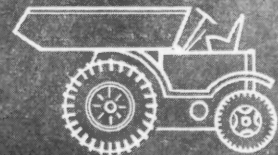
COMPRESSORS



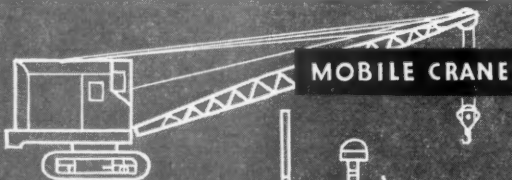
EXCAVATORS



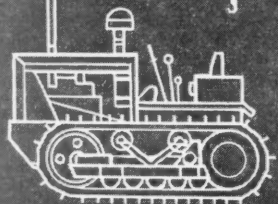
DUMPERS



MOBILE CRANES



TRACTORS



Long experience and unrivalled resources combine to make WARD'S PLANT HIRE and SALES SERVICE a model of modern efficiency. Whether you wish to BUY plant or to HIRE it, it is good business in these difficult times to remember that 'WARDS might have it!'

THOS W. WARD LTD
ALBION WORKS • SHEFFIELD

TELEPHONE: 26311 (22 LINES) • TELEGRAMS: 'FORWARD, SHEFFIELD'
 LONDON OFFICE: BRETTENHAM HOUSE • LANCASTER PLACE • STRAND W.C.2

Hangers *NEW* Emulso-Plastic Paint

FABRIGUARD

was chosen here . . .

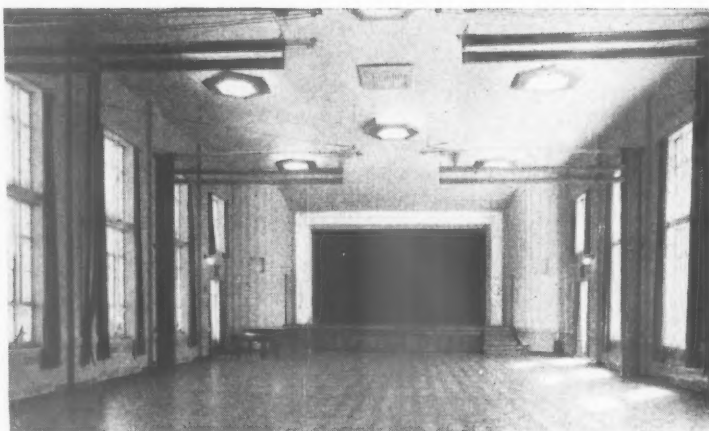
FABRIGUARD, in clean pastel colours, was used on the walls of the new Assembly Hall. Because FABRIGUARD can be used on NEW work after only *two weeks* decoration of ceiling and wall surfaces can be completed while scaffolding is still in place, thereby allowing other work to proceed later without interruption. Rapid drying makes it possible to apply more than one coat in a day if necessary. FABRIGUARD surfaces, both flat and *Porcelain Gloss*, are fully washable. *Floralac Hard Gloss Enamel Paints* were used on wood surfaces and metal window frames on the above contract.

FABRIGUARD, the remarkable new Emulso-Plastic Paint, is resistant to the destructive action of Alkali in new plaster, cement, asbestos cement or brickwork, and is acid resisting. FABRIGUARD dries quickly to a rubber-like film, and is scrubbable only 24 hours after application. Usually only 4 hours is necessary between coats, so several coats can be applied in one day.

FABRIGUARD is easily applied with a distemper brush, or can be sprayed. It saves substantially on labour costs, and can be applied after rendering months earlier than ordinary paints.

For Technical Bulletin and details of FABRIGUARD Contracts, write to:—

The Technical Director HANGERS PAINTS LTD., HULL ALSO LONDON, LIVERPOOL BIRMINGHAM, GLASGOW



Nottingham County Training College, Eaton Hall, RETFORD

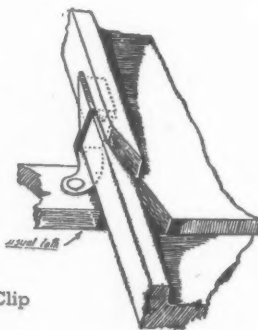
Photograph by permission of E. W. Roberts, Esq. F.R.I.B.A., County Architect.
Contractors: Messrs. William Moss & Son, Ltd. Loughborough.

FABRIGUARD can be used upon :

- New Plaster
- Old Plaster
- Hardboard
- Softboard
- Wood
- Creosoted Wood
- New Cement
- Old Cement
- Asbestos Cement
- Brickwork
- Roofing Felt
- Non-ferrous metals
- Limewash
- Previously Painted Surfaces
- Previously Distempered Surfaces
- Bitumen-coated Corrugated Iron

Handmade Roof Tiles

C.S. No. 7 Double
Roman Tile



Secure System Clip

Galeproof Tiles

For buildings in exposed positions C.S. No. 7 Double Roman Roof Tiles are excellent. Fitted with our "Secure System" clips, these handsome tiles are galeproof: capable of withstanding the force of any storm. They are tiles you can depend upon for lasting service, for being **hand-made** they do not laminate.

Ask us to send list illustrating different types of handmade clay roof tiles we make.

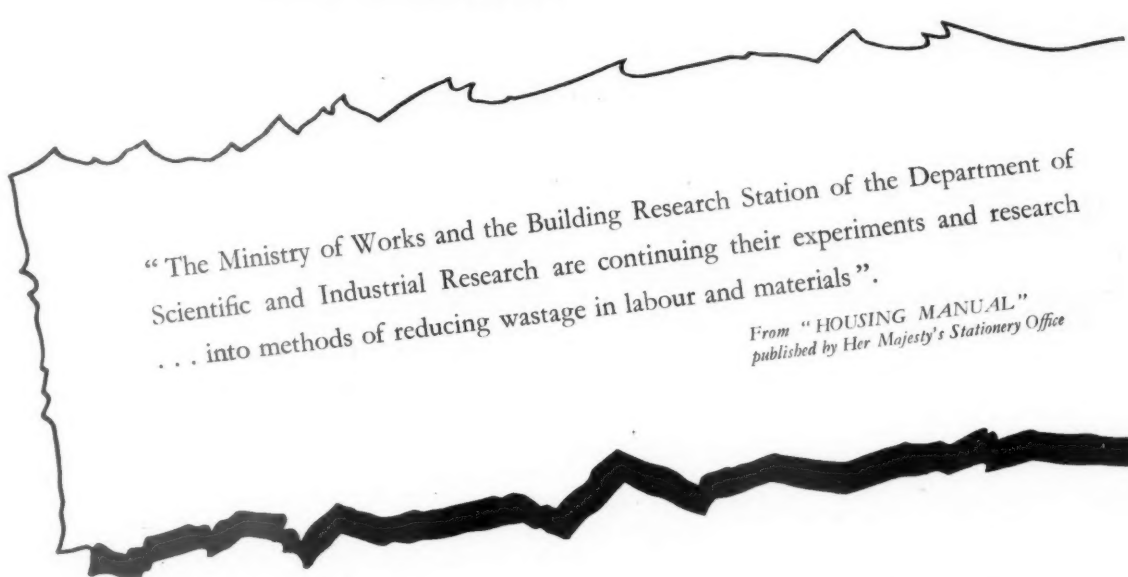
COLTHURST-SYMONS & Co. Ltd

Patent Tile Works • Bridgwater • Somerset

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

Phone: WHitchall 7607

licence-free **weyro** man made timber **CUTS WASTAGE of labour and materials!**



"The Ministry of Works and the Building Research Station of the Department of Scientific and Industrial Research are continuing their experiments and research . . . into methods of reducing wastage in labour and materials".

From "HOUSING MANUAL"
published by Her Majesty's Stationery Office

One sure way of reducing wastage is to use WEYROC Man-made Timber for many of ordinary timber's jobs! Used for space-filling, it can be butted together quickly and without cover strips; used for flooring, the 8' x 4' boards reduce laying time; used for doors and cupboards, the wide form cuts out jointing; used in the Paper-surfaced Grade, filling before painting becomes unnecessary; wherever it is used, its *consistent quality* and freedom from knots and faults almost eliminate material wastage. In these and many other ways builders everywhere are using WEYROC — by standard carpentry methods — to cut costs and raise output!

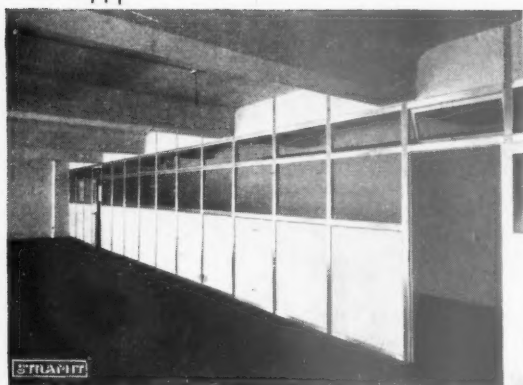
Weyroc boards, 8' x 4', are available in two thicknesses: $\frac{1}{2}$ " and $\frac{3}{4}$ ", and three Grades: plain, paper-surfaced and decorative veneered, for

FLOORING · ROOF LINING · SKIRTING · PARTITIONING
DOORS · STAIR RISERS · SHELVING · WINDOW SILLS
CUPBOARDS · CONCRETE SHUTTERING, ETC.

The full guaranteed specification and the names of distributors can be had from the manufacturers:

THE AIRSCREW COMPANY & JICWOOD LTD
WEYBRIDGE · SURREY · Telephone: Weybridge 1600 Telegrams: Aircsrew, Weybridge

You will find **STRAMIT** *in use* **EVERYWHERE**



Illustrations show two typical examples of Stramit in use as a partitioning and roof decking.



FULL DETAILS AND SERVICES OF
OUR TECHNICAL REPRESENTATIVES
AVAILABLE UPON REQUEST

STRAMIT
BOARDS LIMITED

STRAMIT was not long on the market before it became a 'household word' among leading Architects and Builders. Economical, rigid and speedy in erection, its possibilities soon became widely known and now STRAMIT has been acclaimed as the most practical building material in its class.

FOR PARTITIONING WALL LINING AND ROOF DECKING

DIMENSIONS

2in. thick, 4ft. width, 8ft., 9ft. and 10ft. lengths. Special lengths and "cut-to-size" service are available, saving site work and eliminating waste.

DATA

Weight: approximately 3.8 lb. sq. ft. Thermal value: 0.60 B.Th.U. per 1 in. per sq. ft. per hr. per 1 deg. F. (B.R.S.). Spread of flame: Class 2 when distempered or painted; Class 1 when plastered (B.R.S.). Sound absorption: 45.55 per cent. Sound insulation: Approximately 30 dB. Strength: The slab is about three times as strong in width as in length (modulus of rupture 600 lb./sq. in. and 187 lb./sq. in.). For normal partitions framing along the edges (= 4 ft. spacing) is recommended. In a roof decking, with 40 deg. pitch or less a centre bearer is normally recommended: all edges should also be supported.

USES

Roof decking under felt, sheet metal, asbestos, etc. (often saves separate ceiling). Lining to external walls. Lagging of water tanks, etc. Partitions in dwellings (low cost; light-weight dry construction). Removable or fixed office partitions (glazed or unglazed) may be constructed with standardised extruded aluminium sections and timber units. School partitions and roofs. Factory screens and divisions. Machine bases (noise reduction, anti-vibration). Acoustical correction in factories, studios, blocks of flats, schools, etc.

DEPT. A., PACKET BOAT DOCK, COWLEY PEACHEY
Nr. UXBRIDGE, MIDDx. TEL: WEST DRAYTON 3021



Catalogue No. P.3712

ILLUSTRATIONS:

"Industrial" ironclad switch and socket assembly and switch plug unit.

Catalogue Number P.3712.

Available for vertical or horizontal mounting.

Catalogue Number P.1402 arranged for horizontal mounting only.

Both types are obtainable in 2, 5 and 15 amp. sizes.

the points in favour...

QUALITY:

Throughout the whole range of BRITMAC

Electrical Accessories—the testing of raw materials—the continual research into improved methods of manufacture—the rigorous inspection at all stages of production—ensure the Highest Standard of Quality and Finish.



Catalogue No. P.1402

... at every point — "BRITMAC"

BRITMAC ELECTRICAL CO. LTD

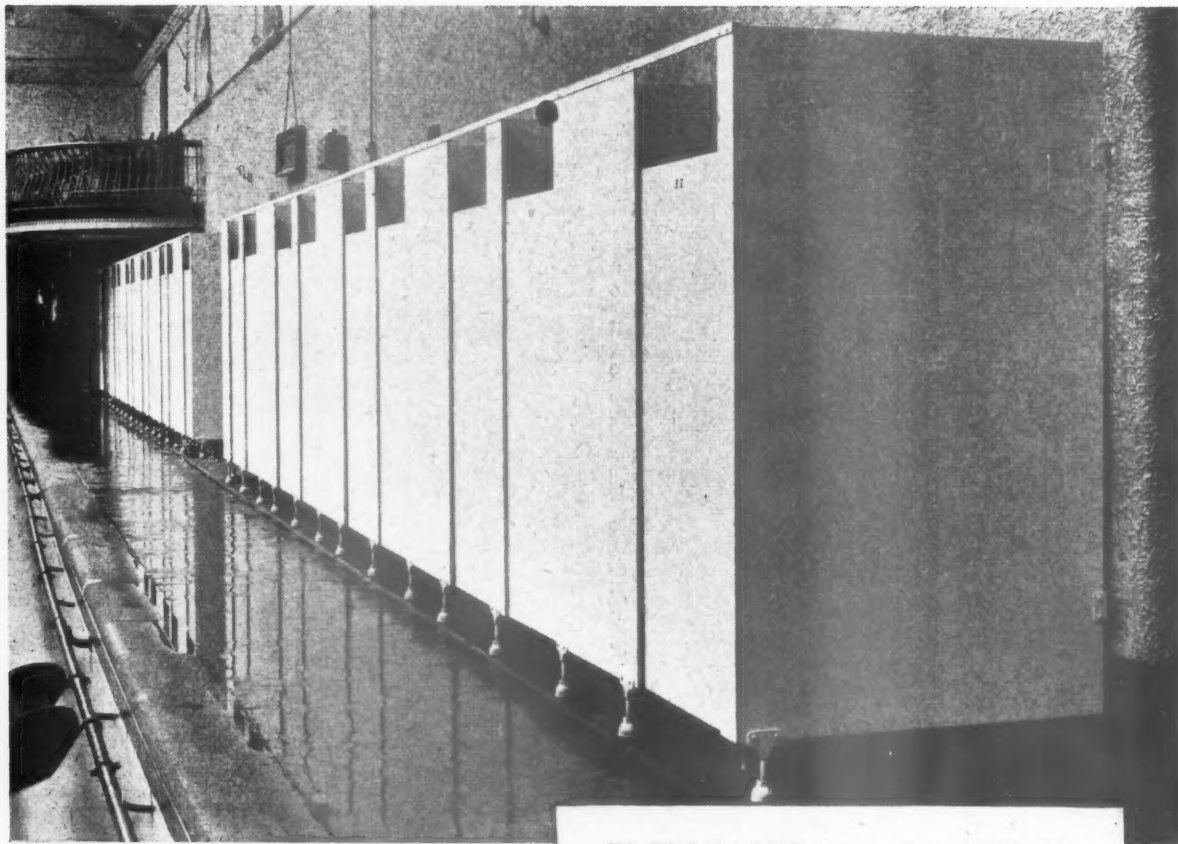
SALES ORGANISATION OF C. H. PARSONS LTD

HEAD OFFICE · BRITANNIA WORKS · WHARFDALE ROAD · TYSELEY · BIRMINGHAM · 11
Telephone: ACOCKS GREEN 1191 (3 lines) · Telegrams: "BRITMAC, BIRMINGHAM"

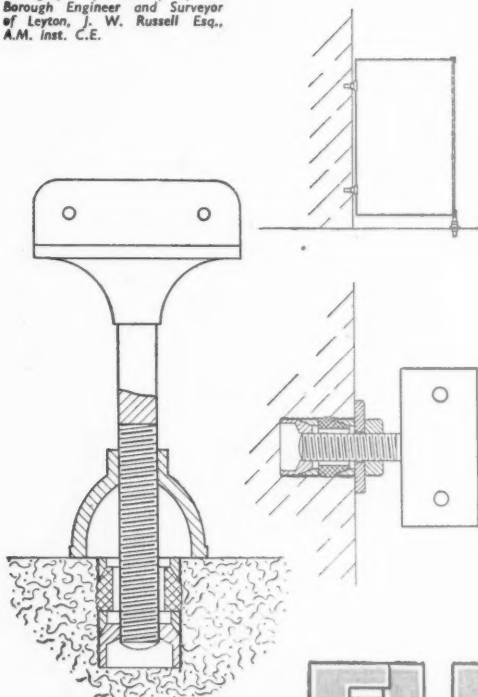
London Office:
121, VICTORIA ST., S.W.1
Telephone: VICTORIA 8778/9

Glasgow Office:
247a, ST. VINCENT ST., &
93, DOUGLAS ST., C.2
Telephone: CENTRAL 3445/6

SM/BE. 498a



Photograph by courtesy of the
Borough Engineer and Surveyor
of Leyton, J. W. Russell Esq.,
A.M. Inst. C.E.



FLEXOMETAL CUBICLES

As is well known, Flexometal cubicles are hygienic and light, they save a lot of space owing to being thin, yet rigid.

This installation is at the Cathall Road Baths, Leyton, and is of particular interest because the cubicles are demountable by undoing the special "Cinch bolt" shown.

FLEXO PLYWOOD INDUSTRIES LTD.
SOUTH CHINGFORD, LONDON, E.4
Telephone: Silverthorn 2666 (7 lines)
(Associated with Cork Manufacturing Co. Ltd.)

FLEXOMETAL



THE ARCHITECTS' JOURNAL

No. 3005 October 2, 1952 VOL 116

EDITORIAL BOARD: (1) *Consulting Editor*, F. R. Yerbury, O.B.E., Hon. A.R.I.B.A. (2) *Town Planning Editor*, Dr. Thomas Sharp, L.R.I.B.A., P.P.T.P.I. (3) *House Editor*, J. M. Richards, A.R.I.B.A. (4) *Technical Editor*, R. Fitzmaurice, B.Sc., M.I.C.E., Hon. A.R.I.B.A. (5) *Editor Information Sheets*, Cotterell Butler, A.R.I.B.A. (6) *Editorial Director*, H. de C. Hastings.

GUEST EDITORS: (7) Robert Gardner-Medwin, F.R.I.B.A., M.T.P.I.; Donald Gibson, C.B.E., M.A., A.R.I.B.A., M.T.P.I.; S. A. W. Johnson-Marshall, A.R.I.B.A.; Robert H. Matthew, C.B.E., A.R.I.B.A.

SPECIALIST EDITORS*: (8) Planning (9) Practice (10) Surveying and Specification (11) Materials (12) General Construction (13) Structural Engineering (14) Sound Insulation and Acoustics (15) Heating and Ventilation (16) Lighting (17) Sanitation (18) Legal.

ASSISTANT EDITORS: (19) *Chief Assistant Editor*, D. A. C. A. Boyne, (20) *Assistant Editor*, K. J. Robinson, (21) *Assistant Editor* (Buildings), L. F. R. Jones, (22) *Assistant Editor* (Information Sheets), H. N. Hoskings, A.R.I.B.A., (23) *Assistant Technical Editor*, M. Jay, (24) *Photographic Department*, E. R. H. Read, H. de Burgh Galwey, (25) *Editorial Secretary*, Rachael Tower

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

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

Subscription rates: by post in the U.K. or abroad, £2 10s. 0d. per annum. Single copies, 1s. ; post free, 1s. 3d. Special numbers are included in Subscriptions ; single copies, 2s. ; post free, 2s. 3d. Back numbers more than 12 months old (when available), double price. Half-yearly volumes can be bound complete with index in cloth cases for 25s. 0d. ; carriage, 1s. extra.



STUDENTS AND RIBA

Those who read our leading article of September 18 will be glad to know that on September 24 the Secretary of the RIBA Board of Education wrote to the heads of the schools concerned that those students who passed their Professional Practice Examination in March, 1952, are now eligible "to apply forthwith for election as Associates RIBA."

*

There seems little more to be said. This is the second time in a year that the Officers of the Board have had to make such a decision, and on both occasions it has been made only under pressure from the Law and the Press. For the second time we are prepared to forgive and forget—we hope the

students are too—but the Institute will no doubt put its own house in order. Presumably, for the sake of their careers and records, the students will have their election to Associateship pre-dated.

*

As the JOURNAL goes to press the Editors tell me that they have letters from both Everard Haynes, the Secretary of the RIBA Board of Architectural Education, and Pembroke Wicks, the Registrar of ARCUK, explaining the tangled—and indeed chaotic—web of regulations that has led to this sad business. These letters will be published in full next week.

*

Meanwhile, read the letter on page 393, which points out a most significant and somewhat alarming issue.

INDUSTRY AT WAR

Not many of us, I suspect, have managed to keep up to date with the civilian, as opposed to the military, histories of '39-'45. But there is a considerable series in course of production, the latest of which* deals with the building industry. The book describes the gradual development of methods of controlling and reconciling the demands of the services and various Government departments and reminds one of the vast amount of work which the industry had to carry out (£534 million, for instance, on 36 new airfields for the USAF) and about which comparatively little is known. Why, incidentally, did the industry never attempt a comprehensive record of achievement after the fashion of other major industries? Too individualistic and competitive?

* *Works and Buildings*. By C. M. Kohan. (H.M.S.O. and Longmans, 32s. 6d.)

Mr. Kohan is entirely factual and thus makes somewhat heavy reading, but he has done a very thorough piece of work and reminds us of many things we now take for granted. MOW, for instance—how many of us are so used to it that we forget that "Works" is barely 12 years old as a Ministry?

WARSAW

It is a very great pity that the general Press, on both sides of the Iron Curtain, is so idiotically touchy about giving us genuinely "cultural" news from the other camp. Many of us would like to know much more, for instance, about Soviet canal schemes: and it is fantastic that a front-line report on the rebuilding of Warsaw should come to us only through a twenty-minute broadcast—tucked away on the "Third" of course! (though, in fairness to my Editors, a brief report appeared in the JOURNAL of September 4). Graeme Shankland, however, made the most of his time, both in Warsaw and at the microphone. He was objective enough and yet one was left with the feeling—and indeed the certain knowledge—that here was an enormous project going ahead with (a) popular enthusiasm, (b) some stylistic chaos, (c) great speed and (d) in real accordance with a long-term (20 years) master plan. But we would like to know more.

BASIL SPENCE

Many of us must be feeling rather sorry for Basil Spence; a number of circumstances have combined to produce an extraordinary situation wherein he seems compelled to present his ideas—one by one and sometimes not fully

AVOID CORROSION



HOPE'S WINDOWS ARE HOT-DIP GALVANIZED

Send for Literature

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

worked out—and lay them on the table, as it were, for public discussion. Is it good for either the man or the ideas?

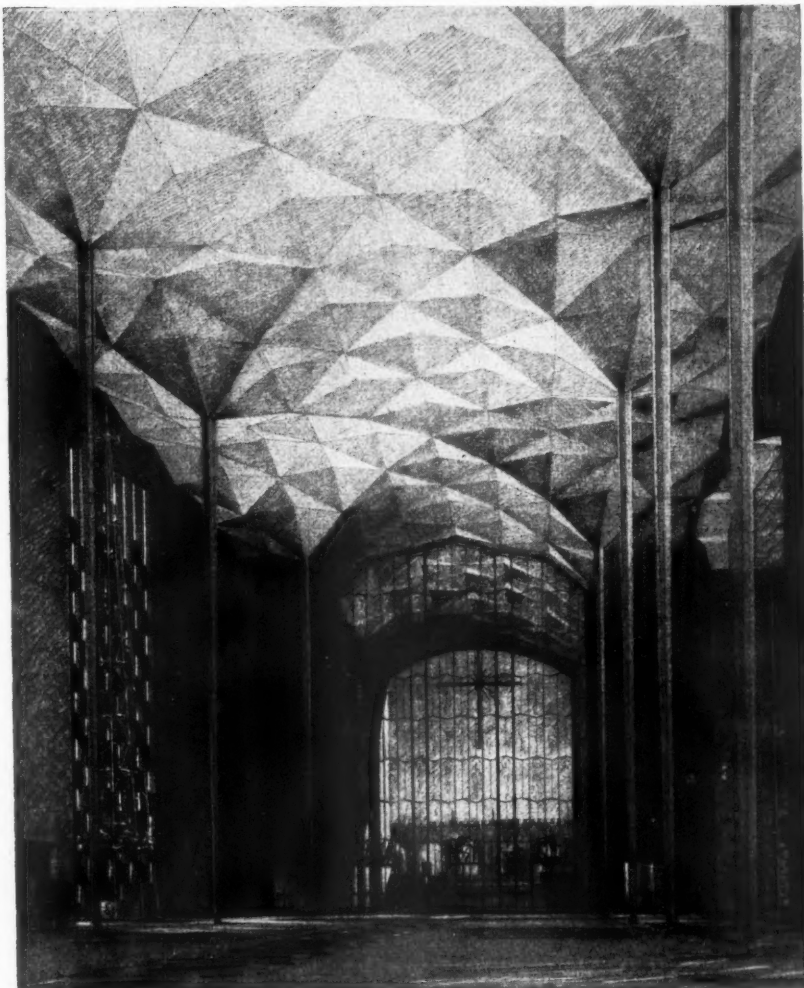
*

Fortunately almost everyone will feel that the latest Coventry drawings really do show a greater coherency and consistency than the earlier ones—just that “ironing out” in fact which was bound to happen at some stage or other. It is, moreover, no criticism of Basil Spence to say that the co-operation with Ove Arup is bearing fruit; no criticism, because that is surely just how the co-operation should work . . . the gradual emergence of a clear and crystalline design in which no one can say what is Spence and what is Arup. When that point is well and truly reached, then Coventry Cathedral will be more truly gothic—in the very best sense of that word—than anything Gothic could ever have been. That point—as far as one can judge from sketches—has not been reached yet.

*

Basil Spence will shortly have a chance to say something about this gothic aspect of modern structure when, on October 22, he is to debate, before the Architecture Club, the proposition “that Modern Architecture has more in common with the Architecture of the Middle Ages than with that of the Renaissance.” John Summerson, in opposing, will—in ASTRAGAL’S humble opinion—be on what is commonly known as a sticky wicket.

ASTRAGAL



A further illustration of Basil Spence's amended design for Coventry Cathedral—the interior, looking towards the “west” end and the ruins of the old cathedral. Note that the columns supporting the ceiling taper towards the bottom and are to be supported on ball bearings or crystals. The ceiling form is more complex. See ASTRAGAL’S comment and page 369 of last week’s JOURNAL.

LETTERS

{ A. E. Ward, Secretary, Institute of Registered Architects
G. Grenfell Baines, A.R.I.B.A., A.M.T.P.I.

RIBA or ARCUK?

SIR.—Your leading article of September 18 has disclosed a disastrous state of affairs and indicates a serious position which must be a matter for anxiety to all who are concerned with the welfare of the architectural profession.

The time has come for the RIBA to realize that, after all, ARCUK is the only body set up by Act of Parliament to examine the qualifications of architects and to authorize their registration as architects.

It is submitted that the statement in the RIBA Kalendar which states that “admission to the register can now be obtained only by undergoing the system of training and passing the examinations accepted for Associate Membership of the Royal Institute” should be reversed and that the qualification to be

a member of a private institution such as the Royal Institute of British Architects should be that a person is on the Register of Architects.

Your article indicates that the RIBA is setting itself up as a higher authority on architectural education than ARCUK and refuses to recognize the standard of architectural qualifications safeguarded by Act of Parliament, thereby setting up two standards of education in the United Kingdom.

It follows that the above position cannot be tolerated and your disclosure confirms the fact that my Institute has always made clear, that the essential qualification for membership of this or any other private Institution should be registration with the Architects Registration Council of the United Kingdom.

A. E. WARD.

London.

Close Tendering?

SIR.—Readers may be interested in three tenders we have recently received for 3-ply roof covering for a school in Lancashire. A well detailed specification and working drawings were issued to three leading firms, the tenders being as follows:—Firm A, for £1,902 14s. 6d.; Firm B, for £1,902 14s. 6d.; Firm C, for £1,902 14s. 7d.

Preston.

G. GRENFELL BAINES.

NEWS

MOW

Scheme to Improve Materials' Supply

Building Industry Distributors, in discussion with the MOW, has prepared a “mutual-aid” scheme to help the housing drive. Under the scheme, a contractor who finds that the lack of certain commodities and fittings is holding up the completion of essential work, can approach the appropriate regional office of the Ministry, which will then notify the local panel of BID members. The latter will pool their resources in an endeavour to supply the article or articles in short supply.

The scheme is not intended to cover any general shortages, which builders and plumbers must deal with through trade channels as hitherto, but rather to deal with temporary or local shortages which might delay occupation of otherwise completed buildings.



Bristol Revisited

This week the JOURNAL continues its series on the rebuilding of blitzed cities with a return visit to Bristol—last visited and described in the JOURNAL of June 1, 1950, on the occasion of the RIBA Conference. Bristol's first major post-war building in the city centre is Gaunt House—a nine-storey block of offices designed by the Bristol architect, Alec French. It is seen above, rising behind the eighteenth century houses of Park Street on the farther side of the once tree-filled College Green, which now lies, billiard-table smooth, before the concave curve of the Council House—the pre-war design by Vincent Harris, now nearing

completion (see illustration on page 401). These two buildings are, perhaps, each typical of their era: the neo-Georgian Council House, with its high-arched porches, steep-pitched copper roof, and ornamental water to double its dignity, is one of the last products of the great town hall and civic building boom of the inter-war period, and is, alas, already too small. Gaunt House, towering over its neighbours in a narrow, winding street, like a clean, newly-styled carton amongst a dusty, shabby litter of rejected wrappings, is typical of the rather heavy, cautious modernity of the better post-war office building.

MO

Mi

SUM

It was
clean
Mini
at
Before
were
clean
that
but
been
"It
in the
a res
the
them
ports
Slu
prev
said
the
exist
we
mad
out
in o
plan

HA

Pr

Ba

At
mot
prop
Bath
site
106
A
alte
had
far
cou
ribb

Sw
Scot
Stre
to

H
At

In
At
p.m

R
hib
day
10
p.m
Tu
par
tar

E
Ba
Ro
Mo

L
At
RI

MOHLG

Minister Calls for Resumption of Slum Clearance

It was time we took up the work of slum clearance again, said Harold Macmillan, Minister of Housing and Local Government, at a press conference at Plymouth last week. Before the war, he said, over 60,000 houses were being demolished each year under slum clearance schemes. The tragedy today was that people still had to live in houses which, but for the second world war, would have been pulled down.

"It is absolutely vital that local authorities in this country should begin now to consider a resumption of slum clearance," continued the Minister. "It is a natural function for them—indeed, it is one of their most important functions—and only they can do it."

Slum clearance was, moreover, a way of preventing the waste of agricultural land, said Mr. Macmillan; we should make use of the valuable housing sites which already exist inside our cities and towns. "Wherever we can, let us build on sites that are ready-made. Let us start to pull down the worn-out houses and to fill up the toothless gaps in our cities and towns. We have now full planning powers. We must use them."

HASTINGS

Proposal to Build on 1066 Battlefield

At a meeting held in Hastings last week, a motion was adopted protesting against the proposed erection of 60 or more houses by Battle Rural District Council on the 13-acre site which formed part of the battlefield of 1066.

A spokesman of the council has stated that alternative sites were considered, but some had no drainage and others would be too far from the site of a proposed school. The council was, moreover, trying to avoid ribbon development.

DIARY

Swedish Architecture: Exhibition. At the Scottish Building Centre, 425-7, Sauchiehall Street, Glasgow, C.2. Weekdays 9.0 a.m. to 5.0 p.m., Wednesdays until 9 p.m.

UNTIL OCTOBER 4

Housing Centre: Annual General Meeting. At 13, Suffolk Street, S.W.1. 4.0 p.m.

OCTOBER 7

Installation of President, ISE. E. Granter. At 11, Upper Belgrave Street, S.W.1. 6.0 p.m.

OCTOBER 9

Royal Photographic Society: Annual Exhibition. At 16, Princes Gate, S.W.7. Monday to Friday, 10 a.m. to 8 p.m., Saturdays, 10 a.m. to 5.30 p.m. Sundays 2.30 to 5.30 p.m. The exhibition will close at 6 p.m. on Tuesdays, so that miniature colour transparencies can be projected, with commentary, at 7 p.m.

UNTIL OCTOBER 12

Essentials of Good Concreting. E. E. H. Bate. At Croydon Polytechnic, Selhurst Road, South Norwood, S.E.25. (Sponsor: MOW.) 7.30 p.m.

OCTOBER 13

Landscape Gardening. Dorothy Stroud. At 66, Portland Place, W.1. (Sponsor: RIBA Library Group.) 6.0 p.m.

OCTOBER 13



The Editors

STILL WAITING TO START

"THIS," the long-remembered reader will exclaim, on catching sight of the photograph above, "is where I came in." And so, very nearly, it is. Two years and a few months ago this photograph of Bristol architect Alec French gazing over the city's centre served to introduce an article on the architects in Bristol and their work. (The JOURNAL's RIBA Conference Number, June 1, 1950.) Two years have passed and in the fourth article in the JOURNAL's series on the rebuilding of England's blitzed cities we record the major changes which have taken place in this city's centre since then. Only one large building has thrust itself into the broken and rolling skyline which Mr. French surveys, and that is a design by himself for a massive block of offices, shown opposite, and on page 401. Otherwise, except for a sprinkling of small factories and warehouses, a burst of activity in a proposed shopping street and tremendous endeavours on the perimeter of the ant-heap, the larger of the barren holes of bombed desolation in the centre remain barely changed, and function nobly as convenient and efficient car parks. If the rebuilding of the city's centre is slow and perhaps not too sure, the house and school building rate on the outlying estates has been considerable. Therein lies a danger. The rebuilding of the city centre, as does rebuilding everywhere, hangs on the granting of licences by the Government. Since the war everyone has been waiting for the priority work—houses and schools—to be finished, and for the economic crises to end, so as to allow the rebuilding of the blitzed and decaying centres. What is being slowly forced on us is the realization that there is no foreseeable end to the priority work, or to the economic crises. If the country's wealth does not markedly increase there may be no possibility of rebuilding the town centres and we, or our children, may watch, for a change, not the growth but the galloping decay of a city, in terms of property, not from the outside in, but from within outwards to the perimeter.



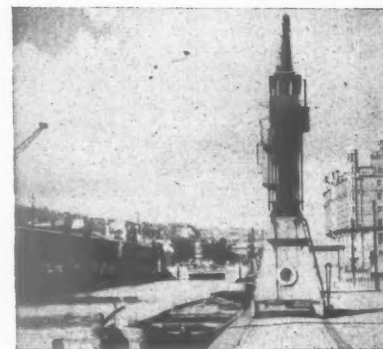
The City and County of Bristol is fourth in the series of special articles to appear in the JOURNAL on the reconstruction and planning of our blitzed cities. Bristol, with nearly half a million inhabitants, is the sixth largest English city and is the largest surveyed so far in this series of articles. With an extremely wide range of industrial interests, it is, as shown in the map, left, closely

related to the industries of London, the Midlands and South Wales, with the West Country, and, via its port, with the world overseas. The City Planning Officer is H. M. Webb and the City Architect, J. Nelson Meredith.

BRISTOL

SURVEY BY D. RIGBY CHILDS & D.A.C.A. BOYNE

The creation of a new centre for blitzed Bristol has begun with the building of a new shopping precinct in the street called Broadmead, shown in process of transition above, right. Appropriately enough the City Architect's office designed the first shop, the corner building on the right in the photograph, for Swears & Wells, clothiers. The other three photographs are of the floating harbour, Royal York Crescent, Clifton, and St. Michael's Hill. They symbolize perhaps the most attractive features, and also, unfortunately, the most neglected features, of this city: the maritime excitements of the docks and wharves; the high, eighteenth century terraces which run ribbon-like across Clifton hill; and, lastly, the narrow, hilly, streets with odd picturesque corners and varied styles.



IS it worth the architects' and town planners' time attempting to control shop elevations? The photograph above of Bristol's first post-war attempt at creating coherent street architecture poses the question with all the dreary force of a descending sales curve. Should a shopping street be a jerky series of competing, visual, advertising yells or an orderly superstructure of architecture over a number of discrete, civil, "do-come-ins"? On page 404 readers will find an example of the latter—in a modernized version of the neo-Georgian style similar to many shopping layouts of the inter-war period. For the more contemporary-minded basically the same technique has been used for the shops in Lupus Street, Pimlico, shown on page 406 of this week's JOURNAL. The comparison is not exact, of course, because these two examples are of shops which require only ground floors and basements, leaving upper floors for living accommodation. They can entreat the customers only with mouth and lips, so to speak, while in the example

above of Broadmead shopping centre the whole face can be used to attract the passing eye because in most cases each structure consists entirely of the sales and office space of an organization devoted only to salesmanship.

What is there to tell the passer-by that these shops have come under planning control? The most obvious thing is the near uniformity of height—only the more discerning would note that the curves of the initial letters of the words Dorothy Perkins on the shop bearing that name are not allowed, as they do normally on their shop fascias, to encircle the remainder of the word, and that Woolworth's have lost their distinctive bright red fascia. [See photographs on page 398.]

It is impossible for the passer-by to guess what discords in design have been avoided by planning control. He is confronted merely by the finished articles each sitting cheek by jowl and forming, when seen as an entity—what? An orderly whole? A series of interesting and individual architectural units? Hardly either category fits the case.



But ignoring the visual side, let us consider the effect of planning on the economic utilization of space. The model illustrated on page 400 shows how the final scheme may look. While all the buildings present a tidy façade to the street, the areas inside each block seem almost as chaotic, and as densely packed, as unplanned shopping centres are. Daylighting conditions have obviously been slightly improved, but visual conditions not at all. True to form, the salesman displays a gleaming and showy façade at the expense of what he hopes—so erroneously—is hidden out of sight in the rear. It is, of course, fakery, shallow façadism and also, to be blunt, immoral. The root of the evil is, of course, the desire to front all floors of a building on to a street, irrespective of the fact that window display and entrances alone are compelled to line the street and irrespective of the fact that they can only occupy the ground floor. If the façades above ground floor level were not in line, if some were set back, some turned at right angles to the street and of varying heights, the incongruity of the

various types of façade might not be so noticeable, as the eye would be more interested in the silhouettes and massing of the buildings. It is this haphazard variety which has produced some of our most attractive mediæval streets. But line the buildings up, and equalize their heights and one automatically expects an orderliness, and a rhythm in the elements which compose the façade—a classic composition, in effect. Shorn by economy and fashion of classic orders to dress the façade, the shop architect resorts to three things; contrasting his solids and voids in vertical and horizontal strips, patterning the solid façade with windows and, the latest fashion, playing with receding solid and transparent planes, as has been done so sophisticatedly by Mr. Somake in his shop for Dolcis shown on page 399.

Oddly enough there is a factor common to all these buildings—or, at any rate, most of them—and that is the steel or concrete frame. This structural element in almost every instance has been disguised, or obscured, but nevertheless is

THE NEW SHOPPING CENTRE

On this and the opposite page are views of the seven new shops which have been completed or nearly completed, in the new shopping precinct. Right, shop for Messrs. Montague Burton Ltd., designed by the staff architect, N. Martin. It comprises ground floor shop and two upper floors, giving a total floor area of approximately 8,928 sq. ft. Steel framed, the building is carried on pressure piles and load bearing beams. Facings to Broadmead: artificial stone. Other facings: stock brick.

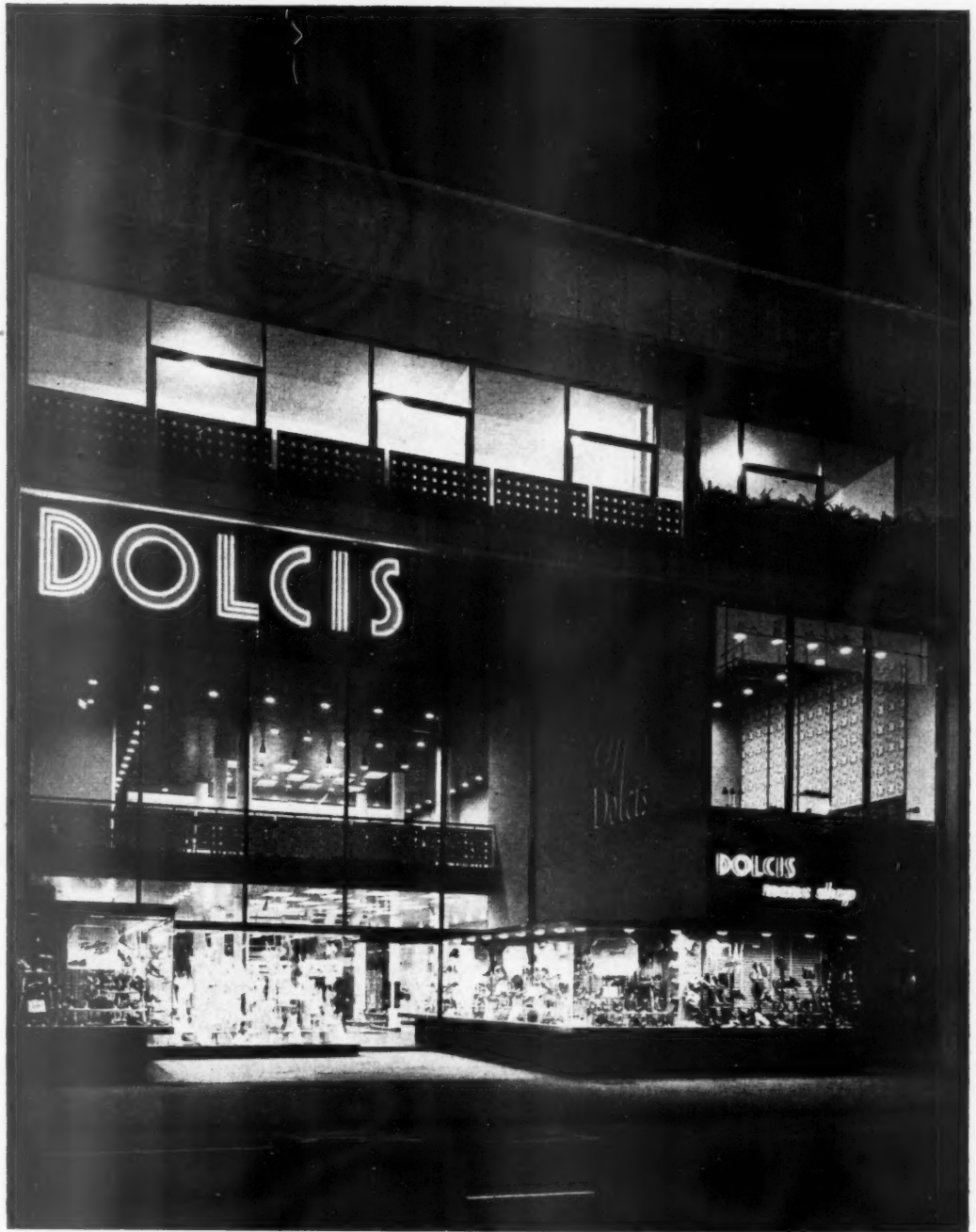


Left, shop for F. W. Woolworth & Co. Ltd., designed by H. Winbourne, the staff architect. This building is not yet finished so no information on it is available. On the right of it can be seen the shop for Swears & Wells, designed by the City Architect, J. Nelson Meredith. It is a steel-framed structure. The front elevation is of Bath stone with polished grey granite and bronze in the shop front. Below, Marks and Spencer Ltd., designed by James M. Munro & Son.

Below, left, shop for Dorothy Perkins, designed by Messrs. Browett Taylor & Co., a reinforced-concrete framed building with Bath stone facade. Below centre, existing premises altered by the lessees, Alexandre, Ltd. Below right, a new shop designed by W. H. Watkins and Partners, for Messrs. H. Samuel Ltd. The building consists of ground, first and second floors with a total area of 3,500 sq. ft. It is of steel framed construction with reinforced-concrete raft foundations, brick panel walls and precast concrete floors.



A night view of the Dolcis shoe shop in Broadmead, designed by the staff architect, Ellis E. Somake. This design will be illustrated more fully in a future issue of the JOURNAL. It is constructed with a reinforced concrete frame with hollow tile floors and wall panels of 11-in. cavity brickwork externally and 9-in. and 4½-in. internal partitions. The front elevation is faced with reconstructed Clipsham stone and polished Portland stone panels.



there. Might not this, then, provide a solution for obtaining unity in the street? Let the City Corporation erect the structural frame—preferably on a module—for the whole, or part, of a street, and let each shop lease the number of bays it requires and fill in the floors and roof, and, *within* the concrete frame, design its own, brazenly self-advertising façade. Then, however discordant the elements, they would be partially disciplined by the repetitive three-dimensional pattern of the frame.

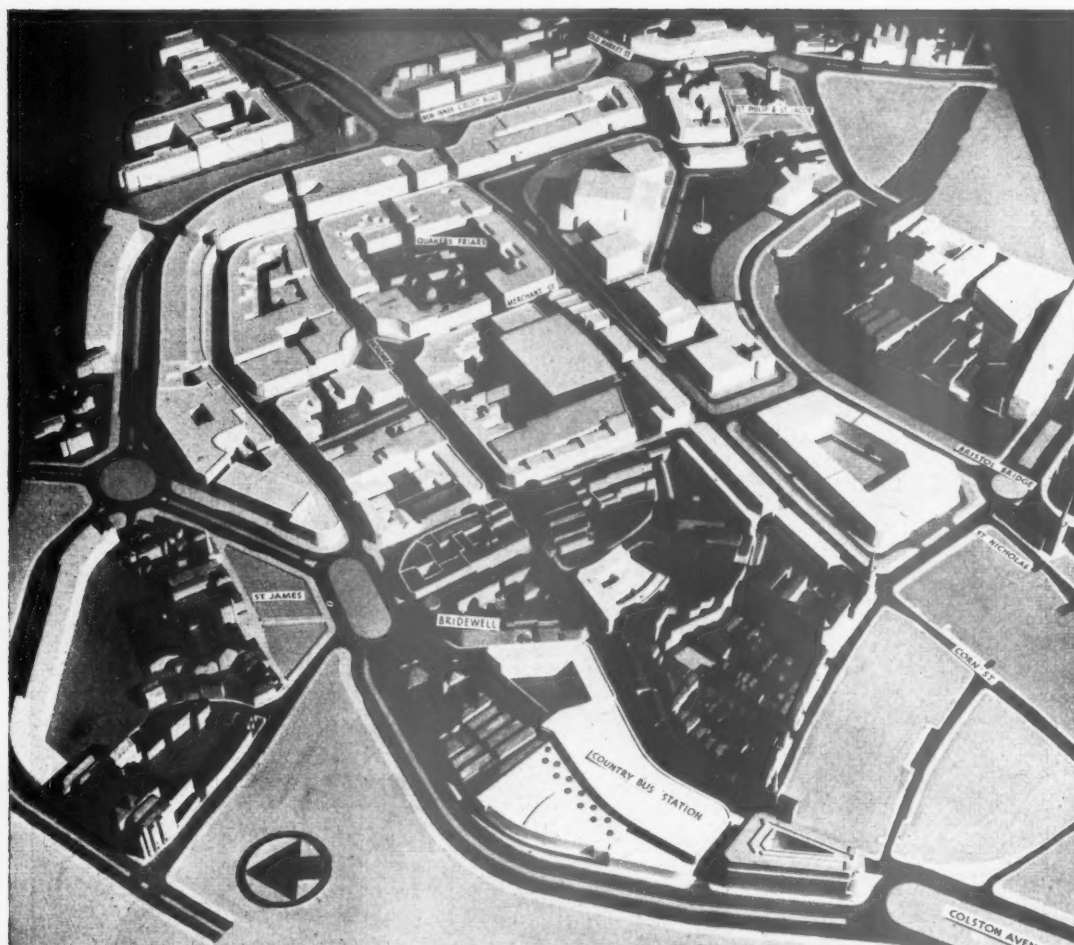
There is, of course, another policy to adopt, that of complete *laissez faire*. To select a site, pack in the various firms and let unbridled commercial display win the day. To cordon off, so to speak, a shopping hell-hole and concentrate design and planning efforts on more amenable subjects.

Certainly either of these two courses would be preferable to having responsible and eminent planners and architects in our major cities concentrating their considerable energies on persuading a shopowner to smarten up his fascia-board.

The reader will have noticed that for a city of nearly half a million inhabitants the number of shops built since the war (even including the two or three not illustrated) is not nearly as large as in Plymouth or Exeter. One reason for this was the refusal of the Board of Trade to grant licences on the grounds that, compared with other blitzed cities, Bristol, although its shopping centre in Wine Street had been wiped out, had still enough shops outside the centre to be able to make do. The BOT maintained that there was little common demand for shops in the city centre. On the other hand, the city authorities increasingly realized that people were tending to shop in Bath and Cheltenham for special purchases.

Compared to the progress made in other cities, the city authorities of Bristol, for so large, and, in many ways, a progressive-minded authority, may appear to have been extraordinarily dilatory in the handling of reconstruction. But the story of Bristol reconstruction goes back a long way.

A whole decade has passed since completion of immediate



THE FUTURE SHOPPING CENTRE

Above, a model of the part of the central area redevelopment showing in particular the proposed shopping centre. In the foreground can be seen the proposed bus station with, to the right, the existing main office area centred round Corn Street. The shopping centre consists of the buildings to the east of the offices, quartered by the roads named Merchant Street and Broadmead which intersect at a roundabout. The suggested treatment for this intersection is shown in the City Architect's sketch, left. The shop heights are increased from three to five storeys for this central feature. In the centre of each shopping quarter can be seen dark blocks representing preserved buildings.

first aid repairs to bomb-damaged property. Before they started building, or, indeed, before they were allowed to start building, the Corporation spent eight years in planning and negotiating. The timetable has been of this order:—

1943-44—A master plan prepared for the comprehensive rebuilding of the city. This was the town-planners' vision.

1944—Parliament provides for rebuilding of Britain's bombed cities (TCP Act, 1944).

1945—Under Section I of that Act the City Council applied for a very large declaratory area. Application rejected by Ministry, at that time the MOTCP.

1946-47. First compulsory purchase order applied for. Area of only $4\frac{1}{2}$ acres allowed to the Corporation to purchase. This was not enough, according to City Planners, in which to create anything new.

Then the real battle began. It was the tussle between the Corporation and the traders. The planners' case was that the old shopping centre based on Wine Street was too

restricted in size and layout for the rebuilding of shops on modern lines.

It was unpracticable to extend the pre-war site to any extent, due to difficult levels to the north, the existence of the Floating Harbour to the south and the existence of the main office area in Clare Street and Corn Street to the west. In the end, they argued, it will be to everybody's advantage if the rebuilding takes place in a more commodious area alongside to the northward around Broadmead. They had in mind, too, that the site of the old shopping centre would be a splendid site for a new civic centre. At present this site is serving as a car-park—free to all—and before the building of the civic centre can be started a multi-storey car park will have to be erected in the new shopping centre. It can be seen in the model on page 400. (The largest block in the south shopping quarter.) But the shop keepers wanted to return to their old haunts—those where people were used to going. It appears that the planning Ministry was doubtful about the

OFFICE BUILDING

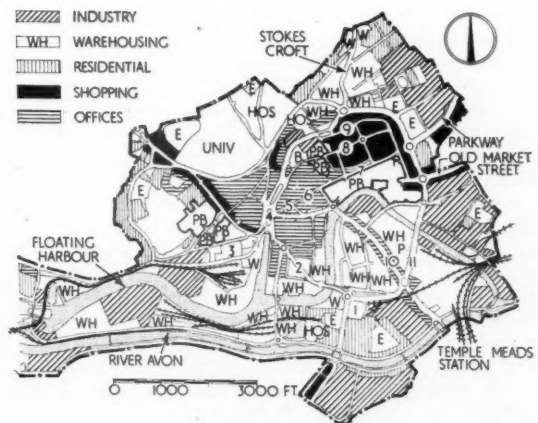
Left, the Council House, College Green, designed by E. Vincent Harris. Erection of this building started before the war and is at present continuing.

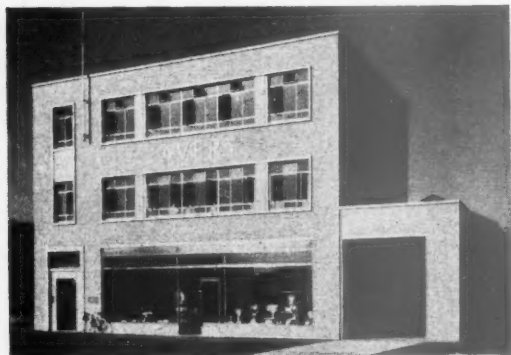


Above and left, offices in Denmark Street, designed by Alec F. French and Partners, and built by the Pearl Assurance Co. for lease to Government departments. It consists of a basement, ground, and eight upper floors, with a total floor area of 87,000 ft. super. It is of steel frame construction with hollow tile floors. The main elevations and returns are faced in Bath stone. Floors are surfaced with wood block, except in the lavatories and on stairs where terrazzo has been used. The consulting engineer was R. Travers, Morgan & Partners, and the quantity surveyors Messrs. Glead.

wisdom of the Council's plan until the then Minister, Lewis Silkin, visited Bristol. Since then realization of the Council's plan has slowly gone ahead.

In illustrating the new shopping development in Broadmead and discussing the problems of the design of shopping-street architecture, we have begun the article with the core of the post-war commercial redevelopment. Our next task is to describe briefly the position of this redevelopment in relation to the other types of redevelopment which go to make up the city centre and then to relate this to the city as a whole. The diagrammatic and much simplified plan, right, of the city centre shows the proposed comprehensive development area. The northern half of this area is a steep hill running down, south, to the level of the floating harbour (the original limits of which spread past the figure 4 on the plan) and the area now known as St. Augustine's Parade, the subject of some controversy on account of the road-engineer's merry-go-round which dominates the layout, as can be seen in the





INDUSTRIAL BUILDING

Above, left and right, two views of new factories on the Bedminster Trading Estate. Above, left, foreground, factory with offices occupied by Messrs. Exide and designed by the City Architect's department for the Planning and Reconstruction Committee of the Corporation; and, left, background, factory designed by Alec F. French & Partners for Finch & Godwin. Above, right, foreground, factory for the Printing and Stationery Committee of the Corporation designed by the City Architect's department. Beyond, the rear elevation of the Exide factory.

Left, offices for W. T. Avery, designed by Alec F. French and Partners. The building has a ground and two upper floors, with a total floor area of approximately 8,000 superficial feet. The construction is of steel frame with hollow tile floors.

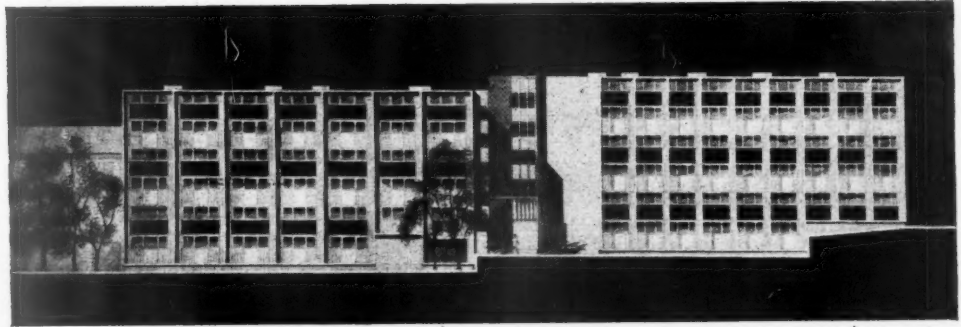


photograph on page 395. Areas marked E are the educational zone for Bristol University. The letters P, B, and PB stand, respectively, for parking space, bus station, and public buildings. 1 denotes St. Mary Redcliffe, the lovely Perpendicular church shown in the model illustrated above; 2 is Queen's Square, the Georgian square which, cut diagonally in half by a wide road, is ruined as a *Georgian square*, but, to the car driver (though not to the pedestrian) is still an interesting composition of two receding, quiet, residential corners; 3 is the cathedral; 5 and 6, Clare and Corn Streets, the heart of the office and business area; 7, Wine Street, the road which will separate the shopping centre from the proposed public buildings area—which may include a conference hall, an art gallery and museum and a central health clinic; 8 and 9 are Broadmead and Horsefair, two of the shopping centre streets; 10 is Victoria Street, the easterly limit of the warehouse estate illustrated in the model above; 11 is the line of the proposed inner circuit road.

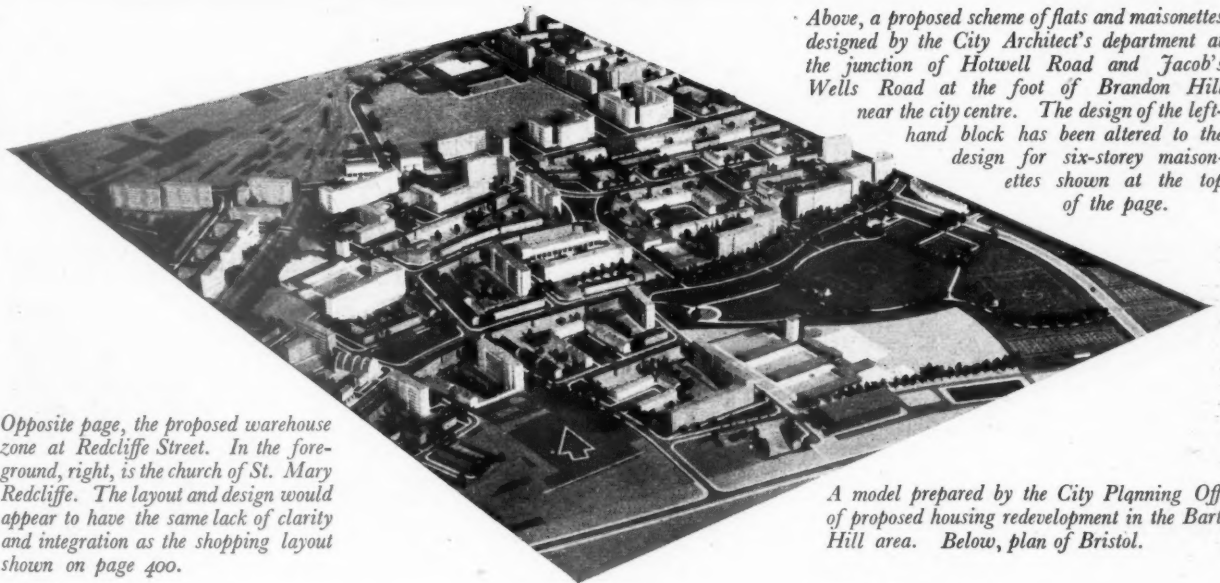
There is nothing at all clear cut about the layout of this central area. The presence of the floating harbour, the river and the many steeply sloping sites undermines any attempt to make a neat and tidy plan. In the recent past practitioners in civic design—townscape—have not markedly improved the layout and appearance. The most important change which the City Council are proposing making in the Central area is the completion of an inner circuit road. Only one important traffic route will traverse the enclosed area; that is Victoria Street linking Temple Meads Station to the commercial and civic centres and its continuation to St. Augustine's Parade.

A most interesting development is taking place between Broadmead and Horsefair. The city corporation have taken over a slummy Regency arcade and are redecorating and generally improving the conditions in the arcade shops. The result of the Corporation having increased the rents is that the former tenants with very second-rate type of businesses are leaving to trade elsewhere in the city and a tenant with a

CENTRAL AREA REHOUSING

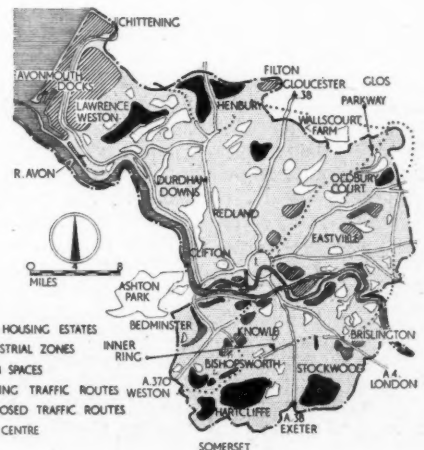


Above, a proposed scheme of flats and maisonettes designed by the City Architect's department at the junction of Hotwell Road and Jacob's Wells Road at the foot of Brandon Hill near the city centre. The design of the left-hand block has been altered to the design for six-storey maisonettes shown at the top of the page.



Opposite page, the proposed warehouse zone at Redcliffe Street. In the foreground, right, is the church of St. Mary Redcliffe. The layout and design would appear to have the same lack of clarity and integration as the shopping layout shown on page 400.

A model prepared by the City Planning Office of proposed housing redevelopment in the Barton Hill area. Below, plan of Bristol.



more lucrative type of business is being attracted in their stead. Here is a difference: the usual trend is for an area to go down; in Bristol the Corporation is pushing one up. It is refreshing to hear of old areas which are being appreciated in value.

The next subject is the peripheral development. The city has already spread far enough. We would say, too far. Its sprawl, attenuated by the docks at Avonmouth, is further extended by suburban development outside the city boundary. As travel gets dearer, people are beginning to demand that places of work go with the houses. There are many snags to this idea, however. In Bristol there is a tradition for diversity of employment. New industrial trading estates at Brislington and Bedminster (see plan, right) are begun. Both are factors which mitigate against the planting of a single factory in a residential neighbourhood so that some people may go to work round the corner.



The first local authority health centre, designed by the City Architect's department, at the Leinster Avenue housing estate.

HOUSING

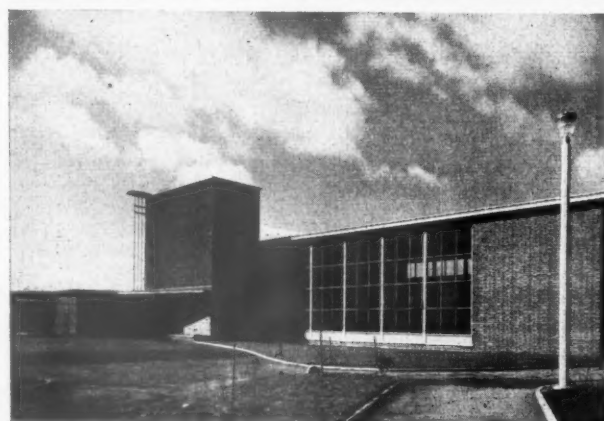
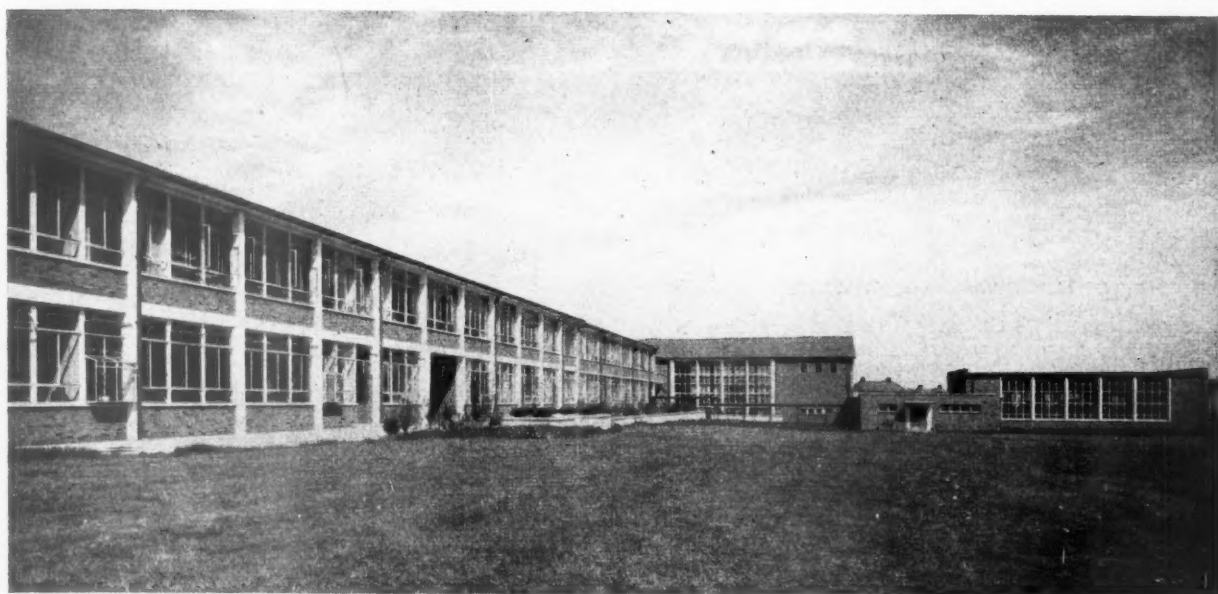
Top, a general view of the Lawrence Weston estate and right, the site of the neighbourhood centre. This is one of the seven new estates shown in the plan on page 403. The shops, above, and right, were designed by Lionel H. Fewster & Partners.



The great majority of houses which have been built since the war are sited in the outer city. One of the new estates is at Lawrence Weston (see illustrations on this page), where more houses have already been built (2,600) than stand in any new town up to date. Unfortunately, however, the neighbourhood centre has yet to be developed. According to the plan, the minimum programme over the next five years is for the local authority to build 2,000 dwellings and private enterprise 1,000 dwellings each year, i.e., a total of 15,000 dwellings over the next five years. This is nearly as much again as they have already built—together with 10,600 places in 20 schools.

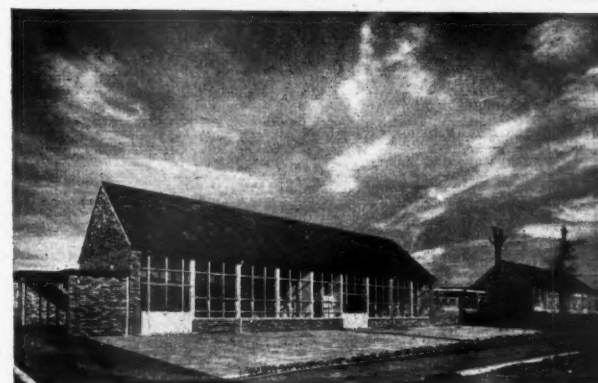
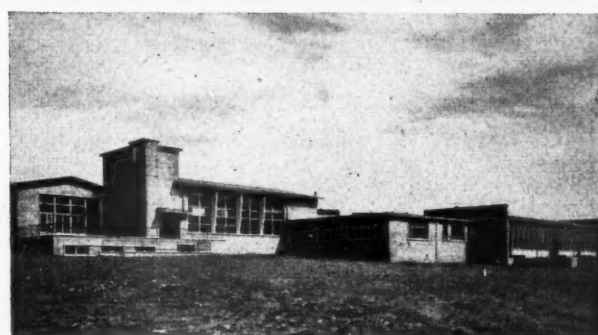
Most important is the consequence of the Corporation following the only practicable course of rapidly expanding the City's urban area before the rebuilding of the worn-out areas can begin. It is so much cheaper and quicker to build on new land than to rebuild on old sites. Apart from this, the housing list shows that about 16,000 people are wanting new homes, and as the years pass by, the list, we understand, does

not get shorter. No one appears to know how much longer this situation will continue, and, whilst it continues, can it be expected that city councillors will have the courage to embark upon a housing redevelopment scheme, save where the existing houses are already absolutely uninhabitable? For the city council to procure temporary accommodation for people whilst their homes are being rebuilt at a time when thousands are wanting any kind of home of their own at all is practically unthinkable. Sooner or later, if the redevelopment of worn-out areas is to be tackled on a bold scale, the council and ratepayers will have to face up to the necessity for having a housing estate where people who will return to the old areas can live whilst the new blocks of flats and houses are being built in the inner areas. Complete rebuilding will not always necessarily be entailed. For instance, the question of whether many of the Clifton terrace houses can be preserved by conversion into flats is becoming urgent. Maintenance is at a standstill; in many cases the low



SCHOOLS

Five typical schools out of a total of seventeen built by the City Architect's department since the war. Top, Greenway Secondary School, occupied in April, 1951. Above, Novers Lane Junior School, occupied in August, 1950. Above right, Embleton Road Junior and Infants' School, occupied in May, 1949. Right, Romney Avenue Infants' School, occupied in March, 1951. Below right, Ashton Vale Primary School, occupied in November, 1949.



rents will not allow this. If too long delayed, conversion will only be possible by extravagantly high outlay—needless to say by the city council. In the meantime the suburban periphery expands. Owing to expected population increases the overspill of population to be housed outside the city boundary is about 51,000—the equivalent of a new town. Harold Macmillan, Minister of Housing and Local Government, has recently pressed for more slum clearance. Does this appeal provide an opportunity to reduce overspill by more high density housing in the centre? Although administratively, as regards financial and legal arrangement between authorities, the situation may be more or less under control, we have seen no evidence that there exists any authority who has a clear picture of the consequences of the sprawl outwards, or of the effects upon the lives of the Bristolians and their neighbours in Gloucester and Somerset. Bristol is a romantic, picturesque, part-maritime, part-industrial city. But it is also a rambling, untidy, sprawl. It is time some hard thinking was done.

HOUSING

at CHURCHILL GARDENS, PIMLICO

designed by POWELL and MOYA

assistant architect, S. P. SKINNER; consulting engineers, for seven-storey block, SCOTT and WILSON; for four-storey blocks, H. IORYS HUGHES; district heating consulting engineer, S. B. DONKIN; heating consultants, J. ROGER PRESTON and PARTNER; quantity surveyors, E. C. HARRIS and PARTNERS

These old people's flats, maisonnettes and shops form the second contract in the first of the four stages of the Churchill Gardens Housing Scheme—as this development at Pimlico for the Westminster City Council is now called. One of the four blocks of flats which formed the first contract was illustrated in the JOURNAL of December 7, 1950, and is shown on the left, opposite page, in the view of the completed portion of a site which is deservedly becoming the most highly-praised example of high-density development in the country.

The shops, with maisonnettes over, in Lupus Street, from the north-east (block 7). Opposite page, a general view from the south with block 7 in the background and block 9 in the centre.



of
city
in
m-
sity

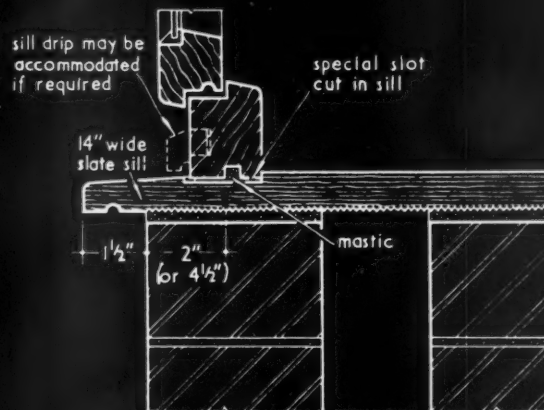
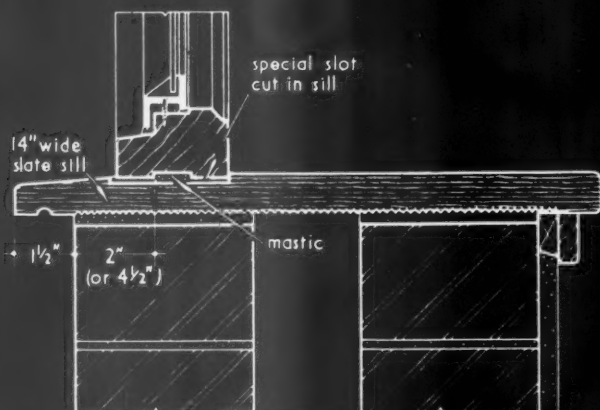
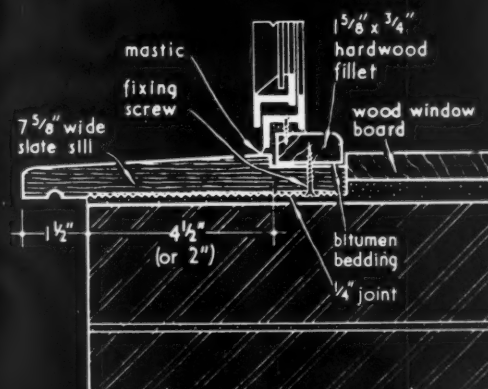
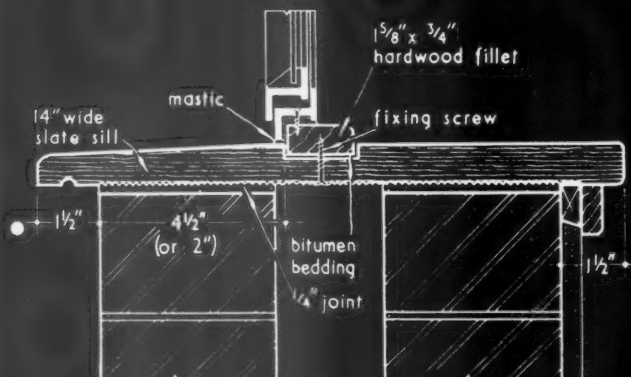
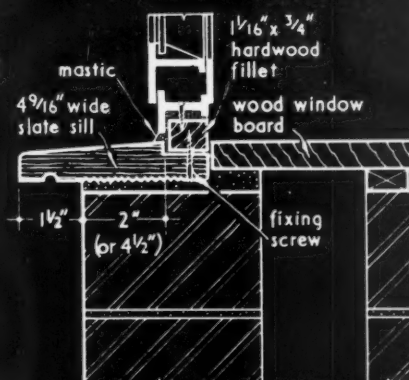
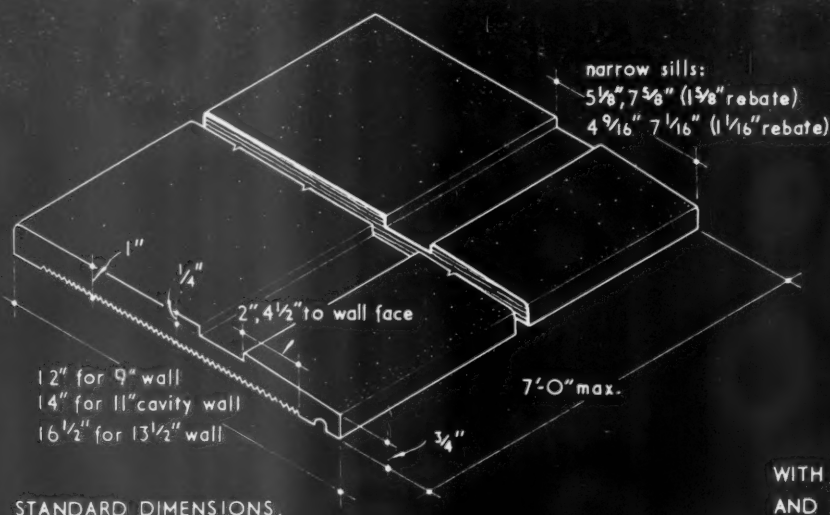
orth-
outh
ntre.



WINDOWS | SILLS | SLATE

24. Z1

The Architects' Journal Library of Information Sheets 383. Editor: Cotterell Butler, A.R.I.B.A.



TYPICAL FIXING DETAILS.

WINCILATE SLATE WINDOW SILLS.

Manufacturer: The Bow Slate and Enamel Company Limited.

24.Z1 · WINCILATE · SLATE WINDOW SILLS

This Sheet describes slate window sills and gives typical examples of their use with various types of window.

Material

Slate is a particularly suitable material for window sills as it is chemically inert, non-porous and damp-proof and does not warp, shrink or rot.

Description

Two types of sill are available, a combined sill and window board and a sill only, for use with a wood, tile, metal or glass window board. Each type is available in sizes to suit various wall thicknesses and positions of glazing. There is a groove along the top surface of the sill to take the window fixing and the underside is scored to give a key for bedding. The sills may be obtained in straight lengths or mitred at one or both ends; curved ends are also available.

Sizes

The sills are 1 in. in thickness, tapering to $\frac{3}{4}$ in. at the front edge. The combined sill and window board type may be 12 in., 14 in. or $16\frac{1}{2}$ in. wide (to suit 9 in., 11 in. and $13\frac{1}{2}$ in. walls respectively) and the groove in the top may be at 2 in. or $4\frac{1}{2}$ in. from the wall face when fixed. The type that are sills only vary in width dependent on the distance of the glazing from the wall face and the size of the rebate in the sill to take the hardwood fixing fillet. (See details on the face of the Sheet.) Sills are normally made in lengths to suit any standard metal window size plus 4 in. to allow for building in unless otherwise requested. The maximum length available is 7 ft.

Sills of widths other than the above can be supplied if required.

Fixing

The fixing details on the face of the Sheet show how the sills may be used with standard and non-standard metal and with standard wood windows.

Finish

The sills are supplied in their natural blue-grey slate colour. They may be painted if required.

Further Products

Slate coping: Copings are available in lengths of up to 7 ft. They may be 2 in. thick, weathering to $1\frac{1}{2}$ in. thick or $1\frac{1}{2}$ in. thick, weathering to 1 in. thick. Drip grooves are provided near both long edges on the underside, which is also scored to provide a key for bedding.

Slate creasing: This is available 6 in. wide and in lengths of up to 7 ft. It is designed for setting $4\frac{1}{2}$ in. into the wall and the thickness of the front edge is $\frac{3}{4}$ in. to correspond with the line of the slate sill.

Compiled from information supplied by :

The Bow Slate and Enamel Company Limited.


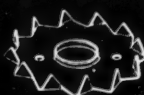
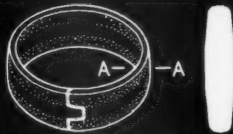
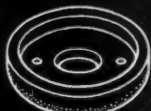




Address : British Railways Bow Depot, Old Ford Road,
Bow, London, E.3.

Telephone : Advance 2203-5.

TIMBER CARPENTRY CONNECTORS

11.CI 2

The Architects' Journal Library of Information Sheets 384. Editor: Cotterell Butler, A.R.I.B.A.

TYPE OF CONNECTOR	Bulldog circular toothed-plate timber connectors		Teco double-bevelled split-ring timber connector	Teco shear-plate timber connector			
SIZES AVAILABLE	 2 1/2" and 3" external diameter double-sided Bulldog connector for timber-to-timber joints	 2 1/2", 3" and 3 3/4" external diameter single-sided Bulldog connector for timber-to-metal or timber-to-concrete joints	 2 1/2" internal diameter only split-ring connector for timber-to-timber joints	 2 5/8" external diameter only shear-plate connector for timber-to-metal or timber-to-concrete joints			
BOLTS AND WASHERS	2" dia. : 1/2" dia. bolt, 1 1/2" sq. washers 2 1/2" " " " 2" " " 3" " " " 2 1/2" " " 3 3/4" " 3/4" " " 3" " " all washers 1/8" thick mild steel		1/2" dia. bolt 2" x 2" x 1/8" thick m.s. washers	3/4" dia. bolt 2" x 2" x 1/8" thick m.s. washers			
EDGE DISTANCE (centre of bolt to edge of member)	2" dia. 1 1/2"	2 1/2" dia. 1 1/2"	3" dia. 1 3/4"	load parallel to grain 1 3/4"	load perp. to grain 2 3/4"	load parallel to grain 1 3/4"	load perp. to grain 2 3/4"
END DISTANCE (centre of bolt to end of member)	3 1/2"	3 1/2"	3 1/2"	5 1/2"	5 1/2"	5 1/2"	5 1/2"
SPACING (crs. of bolts parallel to grain)	3"	3 3/4"	4 1/2"	6 3/4"	3 1/2"	6 3/4"	3 1/2"
SPACING (crs. of bolts perp. to grain)	2 1/2"	3"	3 1/2"	3 1/2"	4 1/4"	3 1/2"	4 1/4"
ASSEMBLY OF JOINTS	 tightening nut embeds connector timber-to-timber joint with double-sided Bulldog connector drill holes in timber 1/16" larger than dia. of bolt assemble components and tighten nut to embed connector If timber is dense or there are more than 3 connectors on the same bolt use special high-tensile steel bolt and large washers: after tightening remove special bolt and insert permanent bolt for demountable structures use 2 single-sided connectors back-to-back	 timber-to-metal joint with single-sided Bulldog connector	 connector fits in grooves cut in timber timber-to-timber joint with split-ring connector drill 9/16" dia. holes in timber cut grooves in timber with special tool (note: drilling and grooving can be done in one operation if hole is not more than 4" deep) assemble components and tighten nut	 connector fits into recess cut in timber timber-to-metal joint with shear-plate connector drill 13/16" dia. hole in timber cut recess in timber with special tool assemble components and tighten nut for demountable structures use 2 shear-plate connectors back-to-back			

TIMBER CONNECTORS: TYPES AND SIZES AVAILABLE AND METHODS OF ASSEMBLY.

Compiled by R. T. Walters, A.R.I.B.A., A.M.I.Struct. E., Dip. Arch. (L'pool)

11.C1 TIMBER CONNECTORS : GENERAL DATA

This Sheet describes three types of timber connector. Joints made with these connectors will develop a higher proportion of the strength of the members themselves than is possible with nails, screws or bolts alone. Their use thus leads to economy in the choice of timber sections and improves the efficiency of the structure as a whole.

Choice of Connector

Double-sided and single-sided Bulldog connectors are suitable for use with softwoods in structures carrying light or medium loads. Split-ring and shear-plate connectors can be used with any species of timber and in any type of timber structure, heavily loaded or otherwise.

Allowable Loads

The load which a connector will carry partly depends on the kind of timber with which it is used. For practical purposes the common structural softwoods are divided into two groups as follows :—

Group 1: Douglas fir (coast) ; longleaf pitch pine ; shortleaf pitch pine.

Group 2: Canadian spruce ; European larch ; European redwood ; European whitewood ; Western hemlock.

The loads given in the following tables may be used where the edge distances, end distances and spacings are as shown on the face of this Sheet. Where these are less than those shown the loads must be reduced in accordance with more detailed information which is available from the suppliers. Where the distances are greater than those shown no increase in load is permissible.

BULLDOG CONNECTORS

Dia. of connector	Thickness of member		Load parallel to grain (lb.)		Load perp. to grain (lb.)	
	Connector on one side of member	Connectors on both sides of member (on same bolt)	Group 1	Group 2	Group 1	Group 2
2"	1 1/2"	1 1/2"	1,150	830	880	640
	1 3/4"	2"	1,225	905	925	670
	1 7/8"	3"	1,280	1,010	1,065	750
	2" and over	4" and over	1,280	1,010	1,135	820
2 1/2"	1"	2"	1,385	1,035	1,085	800
	1 1/4"	3"	1,440	1,140	1,225	880
	1 1/2"	4" and over	1,440	1,140	1,295	930
	2" and over					
3"	1"	2"	1,550	1,165	1,250	930
	1 1/4"	3"	1,605	1,270	1,390	1,010
	1 1/2"	4" and over	1,605	1,270	1,460	1,080
	2" and over					

SPLIT-RING CONNECTORS (2 1/2 IN. DIA.)

Arrangement of connectors	Thickness of member	Load parallel to grain (lb.)		Load perp. to grain (lb.)	
		Group 1	Group 2	Group 1	Group 2
Connector on one side of member.	1 1/2" 1"	2,975 2,480	2,500 2,080	2,105 1,750	1,750 1,460
Connectors on both sides of member (on same bolt)	2" 1 1/2"	2,975 2,480	2,500 2,080	2,105 1,750	1,750 1,460

SHEAR-PLATE CONNECTORS (2 1/2 IN. DIA.)

Arrangement of connectors	Thickness of member	Load parallel to grain (lb.)		Load perp. to grain (lb.)	
		Group 1	Group 2	Group 1	Group 2
Connector on one side of member	1 1/4"	3,155	2,630	2,210	1,840
Connectors on both sides of member (on same bolt)	2" 1 1/4"	2,980 2,455	2,485 2,045	2,085 1,715	1,740 1,430

Duration of Loading

Joints made with timber connectors will sustain greater loads for short periods than if the load is permanently applied. Where part of the loading is due to snow or wind, or a combination of both, the connector value may be increased. In such cases the loads given in the tables should be multiplied by the appropriate factor as follows :—

Dead load + superimposed load	1.00
Dead load + superimposed load + snow load	1.125
Dead load + superimposed load + wind load	1.25
Dead load + superimposed load + snow load + wind load	1.25

Loads Acting at Angle to the Grain

Where the angle between the direction of the load and the direction of the grain is between 0° and 90° allowable loads may be found by using the following formula :—

$$\text{Allowable load} = \frac{PQ}{P \sin^2 \theta + Q \cos^2 \theta}$$

where P = allowable load parallel to grain,

Q = allowable load perpendicular to grain,

θ = angle between direction of load and direction of grain.

Further Information

The suppliers maintain a technical advisory service prepared to deal with problems on this subject generally.

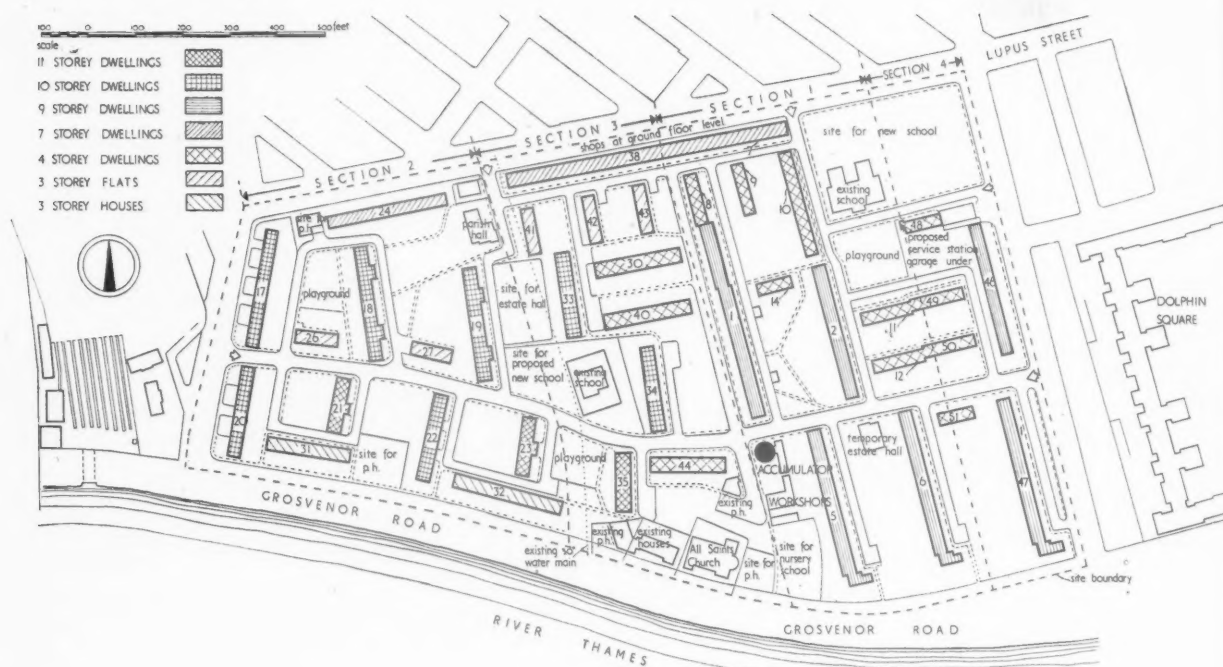
Compiled from information supplied by :

MacAndrews & Forbes Ltd.

Address : 2, Caxton Street, London, S.W.1.

Telephone : Abbey 4451-3.





Site plan. The blocks referred to in this article can be distinguished by their numbers being alongside instead of superimposed on top of the blocks, i.e., numbers 7, 8, 9, 10, 11, 12 and 14

HOUSING

at CHURCHILL GARDENS, PIMLICO
designed by POWELL and MOYA

GENERAL.—The site plan for this estate is a fairly familiar one to readers. The buildings now completed in the second contract of the first stage of development are in the north-east corner and consist of 125 dwellings and a number of shops. The dwellings are made up of 113 four-room maisonnettes, which are arranged as superimposed terrace houses in four and seven-storey blocks, and 12 one-room flats, all in one four-storey block.

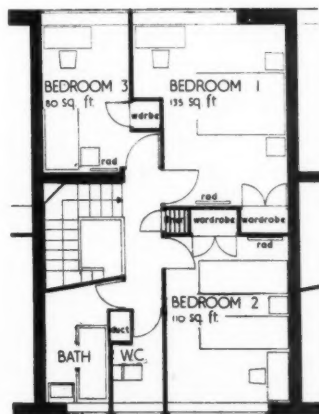
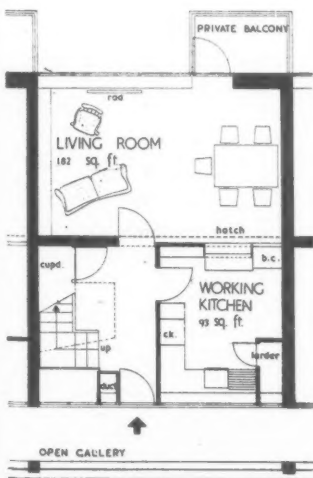
PLAN (of seven-storey block).—This consists of three tiers of two-storey maisonnettes, with shops at ground floor level, a communal basement for pram stores, and private basements for the shops.

There are 39 maisonnettes and 13 shop bays. Below each shop bay is a basement for the shop, except in two instances, where the basements are used for district heating equipment and laundry. Most shops occupy one bay each, but a few occupy two bays.

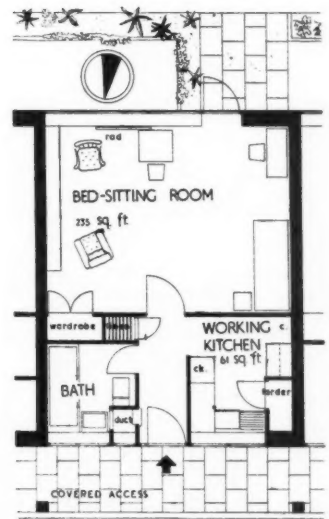
CONSTRUCTION (of seven-storey block).—In part cross-wall and in part cross-frame of reinforced concrete. The alternate, or party, floors and the roof are of solid reinforced concrete. The floors within each maisonnette are of timber. Walls are of cavity construction, consisting of an external skin of yellow flint-lime facing bricks and an internal skin of 4-in. light-weight concrete blocks. The



Detail of shops in the seven-storey block fronting on to Lupus Street.



Lower floor plan, left, and upper floor plan, right, of maisonettes in four and seven-storey blocks [Scale: 1/16" = 1' 0"]



Plan of old people's flats on ground floor and first floor of block 8

HOUSING

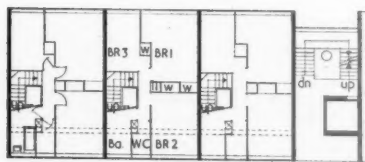
at CHURCHILL GARDENS, PIMLICO
designed by POWELL and MOYA

apron panel below the living room windows is of cavity construction, consisting of $\frac{1}{4}$ -in. rough-cast glass, externally (in the wooden window sub-frames), and an inner leaf of 9-in. light-weight concrete blocks. The partitions are of $2\frac{1}{2}$ -in. light-weight concrete blocks.

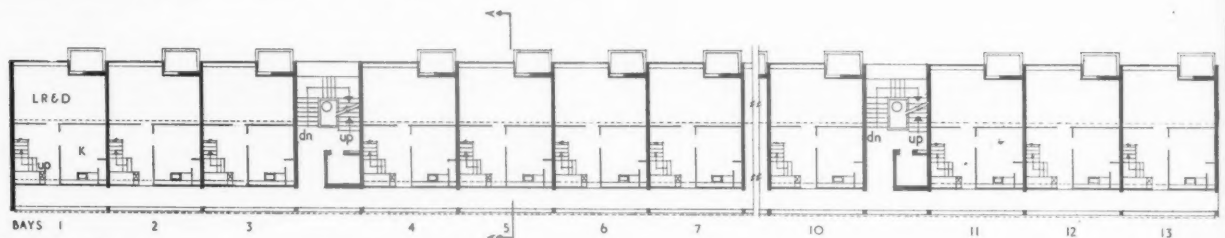
COLOUR (external, main items only).—Exposed reinforced concrete frame and walls: dark grey. Facing brickwork: yellow flint lime bricks. Facing



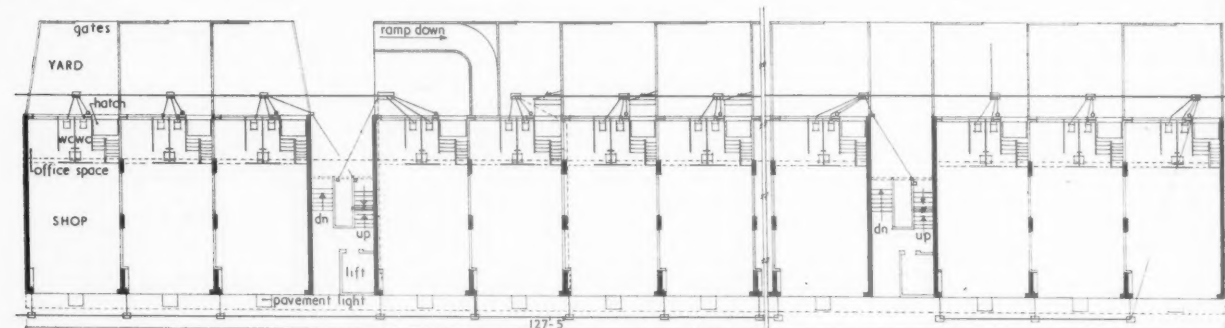
Above, night view from Lupus Street of the seven-storey block. Opposite page, the south facade of the block.



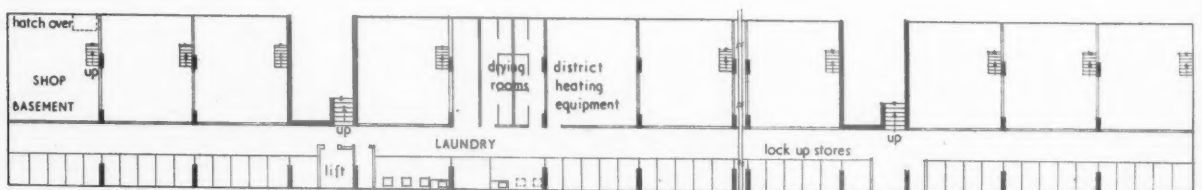
Second, fourth and sixth floor plans, showing fire escape on latter



First floor plan



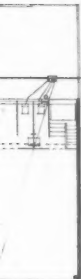
Ground floor plan

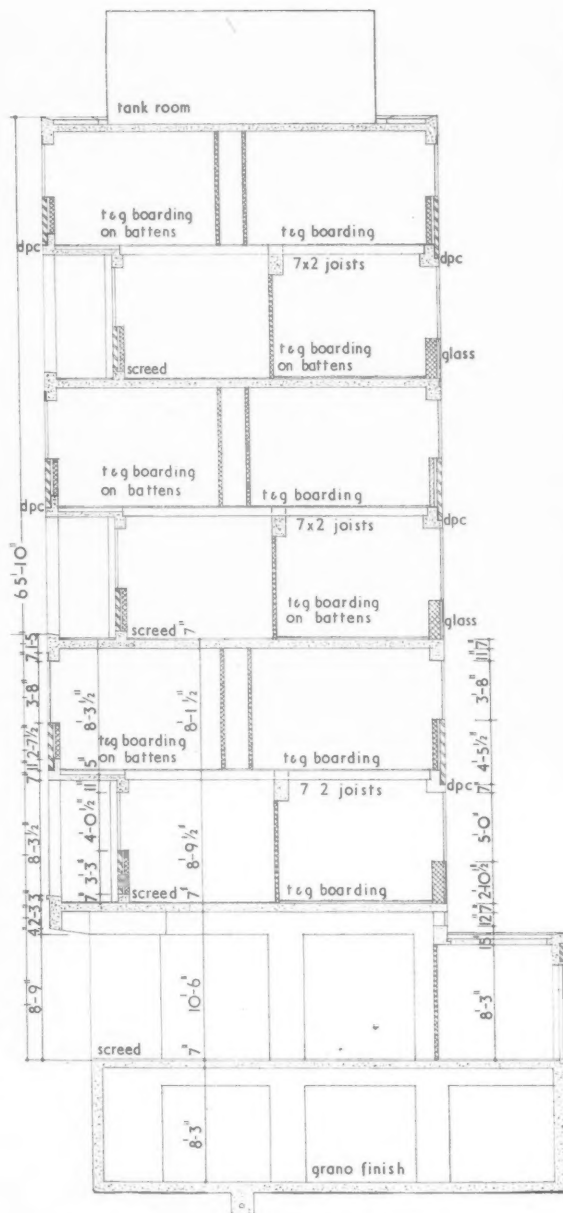
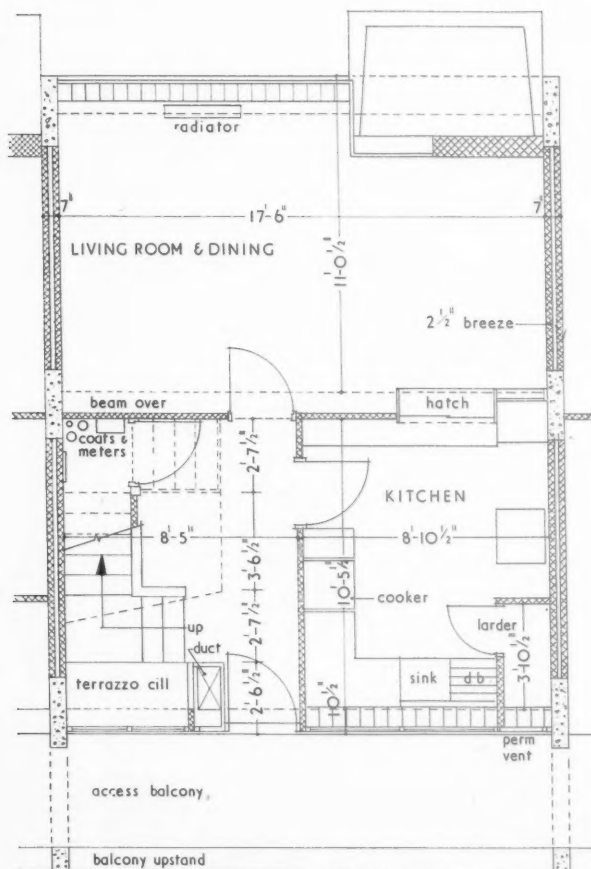
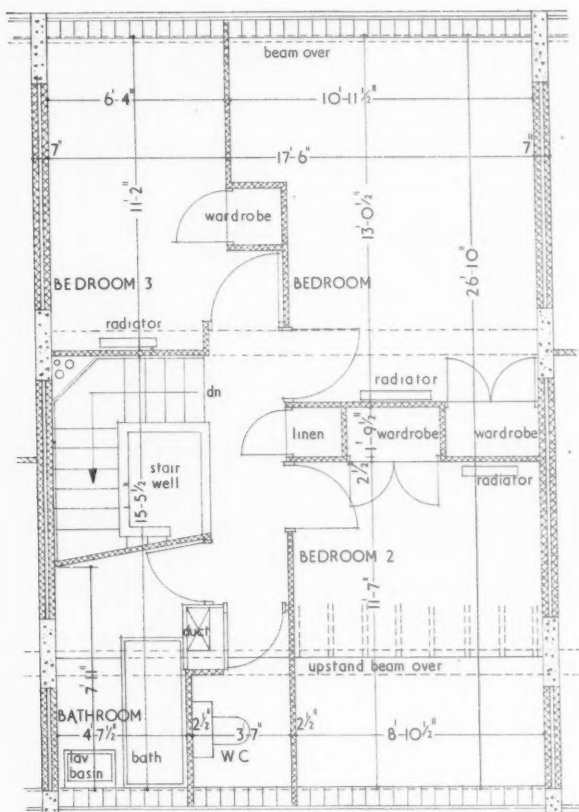


Basement plan [Scale: $\frac{1}{8}$ " = 1' 0"]

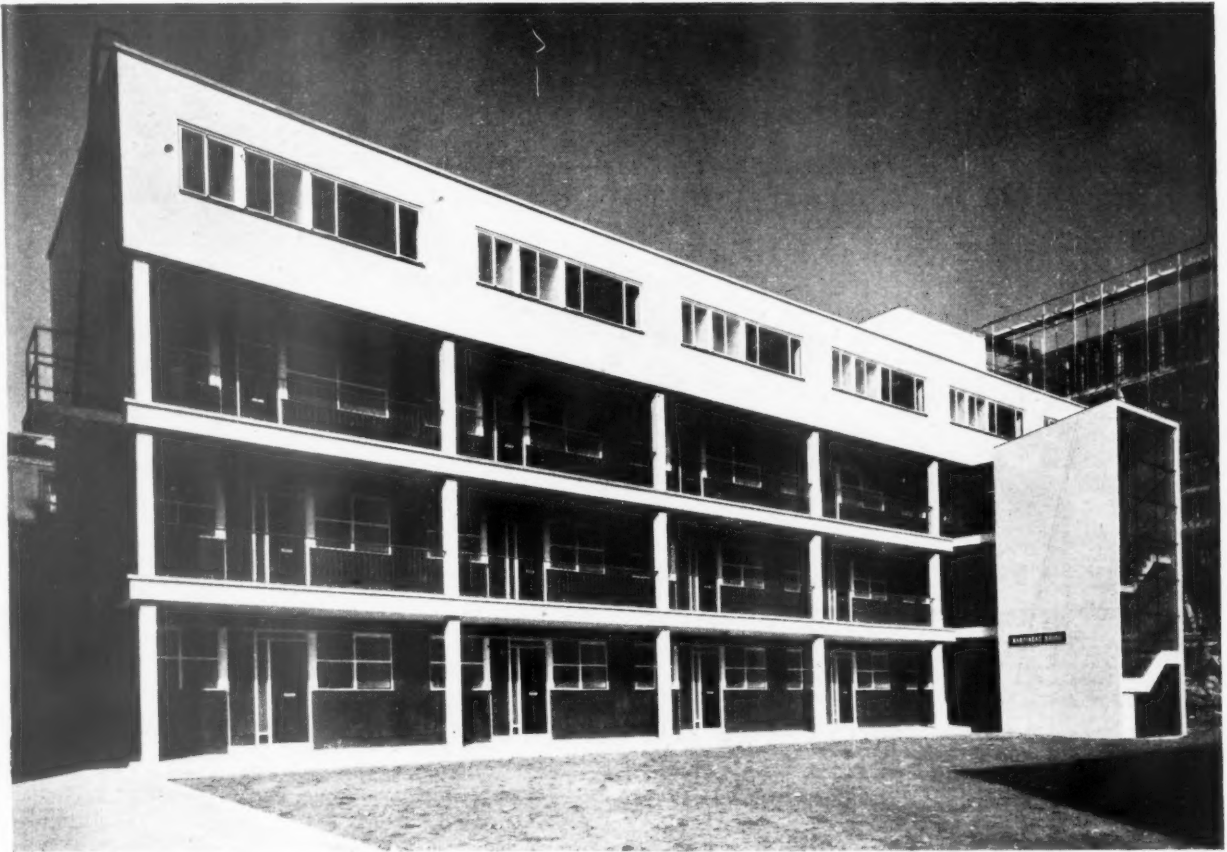


Street
opposite
the block.





brickwork at the back of the shops: yellow-grey concrete bricks. Facing bricks forming plinth of access galleries at alternate floor levels: blue engineering brick. Front doors: crimson. Duct access panels: dark green. Back wall of private balconies: dark red. Tank rooms: white. Windows, generally: white. Opening lights to window in wood frames: black. Staircase window frames: black.



Block 8, with one tier of maisonettes on the top two floors and single-room flats on the ground and first floors. From the south-east.

HOUSING

at CHURCHILL GARDENS, PIMLICO

designed by POWELL and MOYA



Ground floor plan of block 8 (first floor plan similar) [Scale: $\frac{1}{2}$ " = 1' 0"]

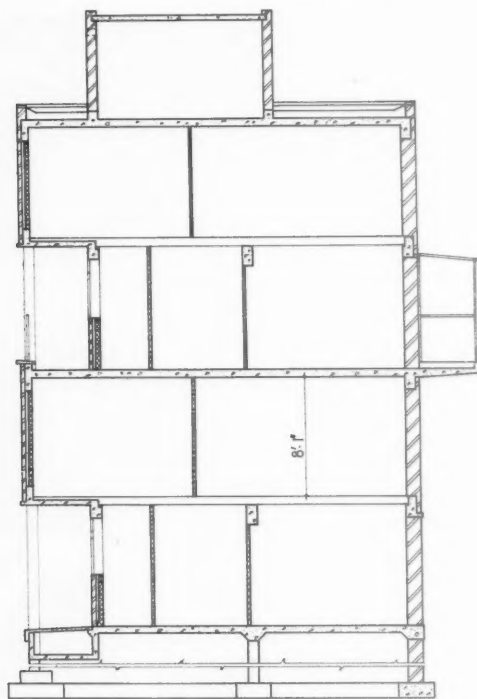
Second floor plan

Third floor plan

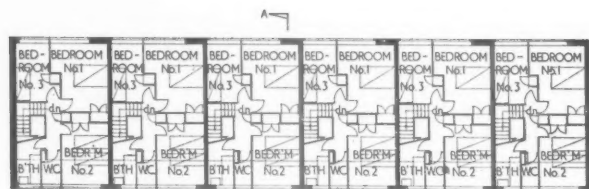
PLAN (of four-storey blocks).—There are six four-storey blocks of varying lengths. Block 8 consists of one tier of two-storey maisonettes on the top two floors, one-room flats on the ground and first floors. There are six maisonettes and 12 flats in this block. Blocks 9, 11 and 12 consist of 12 maisonettes. Block 10 is similar but consists of 24, and block 14 of 8 maisonettes.

CONSTRUCTION (of four-storey blocks).—Cross

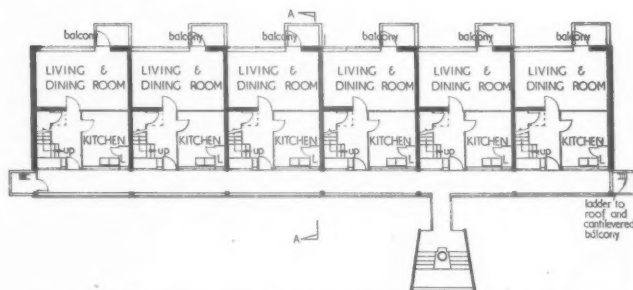
walls are of 9-in. brickwork, and end walls of 13½-in. brickwork. Main external wall infilling: cavity construction, consisting of an external leaf of 4½-in. rendered brickwork and an internal leaf of 4-in. light-weight concrete blocks. The external rendering is painted with chlorinated, rubber-based, enamel paint. The floor construction is as for the seven-storey block. Roof construction: hollow tile, reinforced concrete slab. Finishes generally: as for seven-storey block.



Section A-A through block 9 [Scale: $\frac{1}{8}'' = 1' 0''$]



Third floor plan of block 9. The first floor is similar
[Scale: $\frac{1}{32}'' = 1' 0''$]



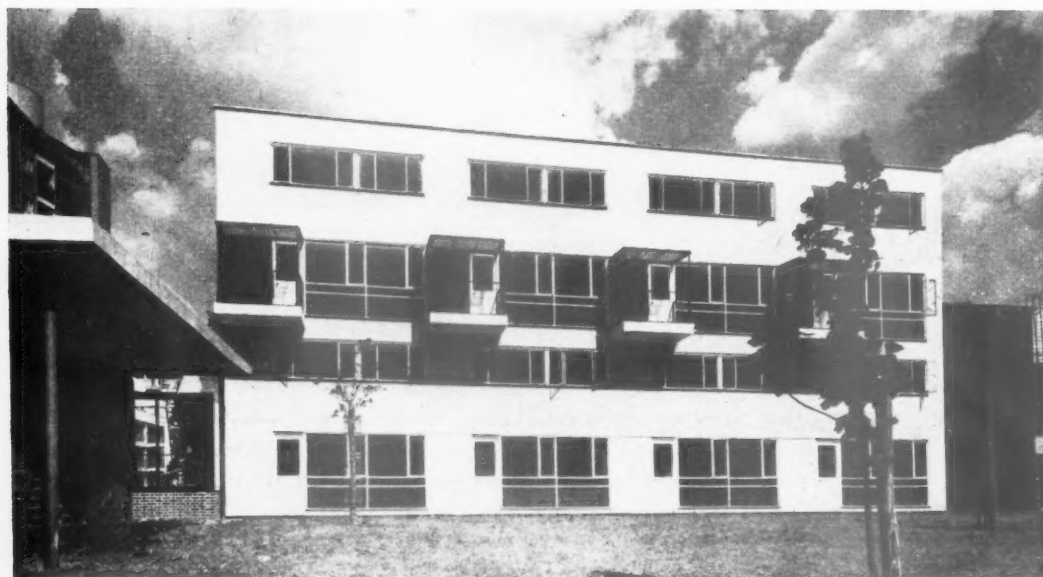
Second floor plan of block 9, showing fire escape and typical arrangement of maisonettes in blocks 9 to 14. The ground floor is similar

HOUSING

at CHURCHILL GARDENS,
PIMLICO

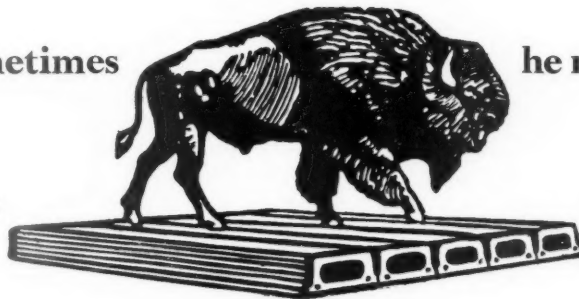
designed by POWELL and MOYA

COLOUR (external, main items only).—Rendered wall faces and concrete staircases: green-grey. Back of private balconies: dark red. Back of access balconies: dark blue-grey. Duct access panels: dark brown. Front doors: black. Window frames: generally as seven-storey block. Tank rooms: alternate wall faces of black and white. The general contractors were Rowley Bros., Ltd. For list of sub-contractors, see page 420.



Above, block 14 from the north-west, and left, from the south. The staircase in this block is different from the others.

The Architect is beset by many worries that have little to do with architecture. Licence seeking and waiting . . . shortage of the materials that he needs . . . costs rising before the job has started . . . and so often too little money to design a worthy building. Sometimes he may wonder "when is an architect not an architect?"



When he comes to consider floors, however, there is no difficulty.

For Housing, Schools and Factories, Bison is readily available — cheaper and quicker in ordinary RC or Prestressed — and five conveniently situated factories ensure prompt delivery.

An advertisement of

CONCRETE  **LIMITED**

Specialists in precast floors since 1919

LONDON · LEEDS · LICHFIELD · FALKIRK · EDINBURGH



Finlock forms the eaves and gutters (says Mr. Fin)

... and saves £15 per house! (says Mr. Lock)



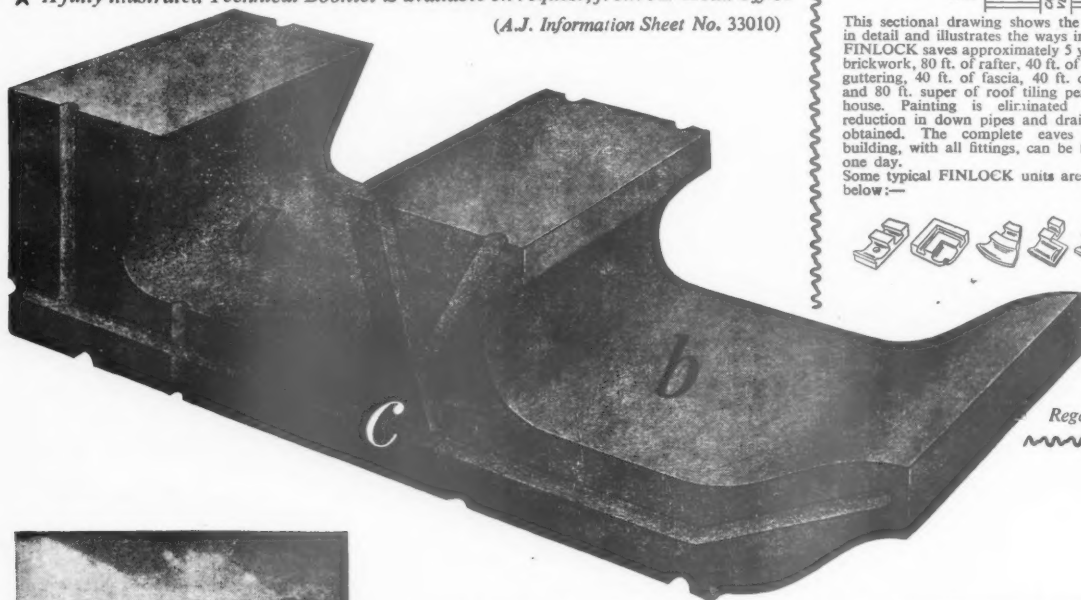
USING this system of Guttering shows a tremendous saving in cost, material and maintenance charges. Finlock Gutters are made with a fine waterproof concrete—simple in design, easy

to use and permanent.

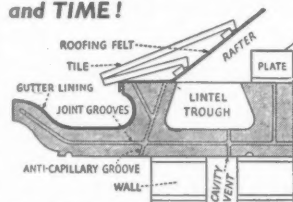
On the illustration below "a" shows the trough in which lintels can be cast in situ if required, "b"

shows the large sectioned gutter channel which permits laying without fall. Strong enough to walk in and to withstand all building stresses. Completed by a bituminous lining after laying. "c" indicates the jointing grooves.

★ A fully illustrated Technical Booklet is available on request, from our Head Office
(A.J. Information Sheet No. 33010)



HOW FINLOCK SAVES MONEY and TIME!



This sectional drawing shows the system in detail and illustrates the ways in which FINLOCK saves approximately 5 yards of brickwork, 80 ft. of rafter, 40 ft. of normal guttering, 40 ft. of fascia, 40 ft. of soffit and 80 ft. super of roof tiling per single house. Painting is eliminated and a reduction in down pipes and drainage is obtained. The complete eaves for a building, with all fittings, can be fixed in one day.

Some typical FINLOCK units are shown below:—



Regd. Pat.



Finlock Gutters are being used by the following County Councils: CAMBRIDGESHIRE, DERBYSHIRE, EAST SUSSEX, GLAMORGANSHIRE, GLOUCESTERSHIRE, KENT, LONDON, MIDDLESEX, NORFOLK, SURREY, STAFFORDSHIRE, WARWICKSHIRE, WORCESTERSHIRE.

Over 200 local authorities are now using Finlock.

The buildings shown are in accordance with the winning design in the £1,000 low cost housing competition organised by "THE BUILDER". By courtesy of J. L. Womersley, Esq., A.R.L.B.A., A.M.T.P.I., Borough Architect for Northampton.

FINLOCK GUTTERS LIMITED

20 ST. JOHNS RD., TUNBRIDGE WELLS, KENT
Telephone: Tunbridge Wells 20396/7/8

7 WORKS FOR SPEEDY DELIVERIES TO ANY PART OF G1. BRITAIN • BARNSTAPLE, DEVONSHIRE • LEEDS, YORKSHIRE • EDINBURGH, SCOTLAND • CWMBRAN, SOUTH WALES • ROYSTON, HERTS • TUNBRIDGE WELLS, KENT • BELFAST, NORTHERN IRELAND

DHB

TECHNICAL SECTION

Professor Bowen makes two important points in his analysis below of the Board of Trade's quarterly index of building materials' prices. The first, a point very often overlooked, is that, although the increases in the prices of building materials are a heavy burden on the industry, they are by no means as severe as the increases which have taken place in the prices of the raw materials used in other industries, such as mechanical and electrical engineering. The second point which Professor Bowen makes is less encouraging. He warns that the comparatively favourable position of building materials' prices may not last much longer. Although, for the first time since early 1950, the index has stayed level for several months, and may be expected to fall in the coming quarter, the prices of basic materials and the materials used in other industries are falling far more rapidly, so that, compared with materials generally, building materials will become more and more expensive. It seems that the importance of economy in the use of materials and general efficiency in the building industry will become more, not less, important in the future, even if, as Professor Bowen predicts, building materials' prices become fairly stable.

8 ESTIMATING index of materials' prices

This week's
special feature

The number preceding the week's special article or survey indicates the appropriate subject heading of the Information Centre to which the article or survey belongs. The complete list of these headings is printed from time-to-time. To each survey is appended a list of recently-published and relevant Information Centre items. Further and earlier information can be found by referring to the index published free each year.

In reviewing the Board of Trade's quarterly index of building materials' prices, Professor Bowen points out that the average price of building materials has, during the second quarter of 1952, remained level; the drop in the price of imported materials just balancing the rise in the price of home-produced materials.

Movements in the Board of Trade's Index of Materials' Prices are shown in the table and graph on page 416. Since my last article analysing these figures (JOURNAL for February 28, 1952), the figure for the quarterly average of all materials has gone up four points—from 131 in the third quarter of 1951 to 135 in the second quarter of 1952. The figure for the third quarter of 1952 is not yet available, but it will probably be two points lower than the average for the second quarter. The prices of housing materials (*i.e.*, the same set of materials' prices "weighted" specifically for

housing) have risen slightly less steeply, the averages for the last six quarters being:—

		Housing Materials
1951	I II III IV	113 124 128 128
1952	I II	131 132

Materials' prices generally have risen by over a third since 1949, while house-building materials have risen



Your resident Fire-Brigade!

There is an added feeling of security and confidence when you have specified the NO-IGNITE process for your insulation boards. It ensures a thorough, permanent and homogeneous fire-proofing — one that has been graded Class I (B.S. 476) by the Department of Scientific and Industrial Research after tests made in their laboratories. It is an essential safety-measure for all types of buildings — Schools, Hospitals, Offices, Factories, Camps and Houses.

- (1) Permanently Flame-Proof
- (2) Normal Thermal Conductivity
- (3) Improved Rigidity
- (4) Non-hygroscopic

SOUTHERNS
— LIMITED —

**BOLD SAW MILLS
WIDNES, LANCS.**

Sole Concessionaires for SCOTLAND,
WALES, IRELAND and ENGLAND (except SOUTH &
S.E. ENGLAND & EAST ANGLIA)

Write now for samples and prices to our nearest Branch or to Bold Saw Mills, Widnes, Lancs.

in price by slightly less. It is seldom realized, however, that the price of building materials has not risen as steeply, since 1949, as the prices of other materials. For example, the index for the price of materials used in the mechanical engineering industry is 52 per cent. above its June, 1949, level, and the materials used in the electrical engineering industry now cost about 69 per cent. more than they did in 1949. The index for all basic materials, except those used in food manufacture, was, in the second quarter of 1952, about 60 per cent. above its 1949 level. A year earlier it had been even higher, having reached a peak, 120 per cent. above the 1949 level, in March, 1951.

Two points emerge from these figures: first, that building materials' prices are not so expensive, compared with the prices of other materials, as we sometimes assume; although, when the rise in price is considered in relation to fixed subsidies and predetermined rents, it is still a serious problem. Second, that because the prices of basic materials have started to decline very sharply and the prices of other materials have also begun to fall, the present *relatively* favourable position of building materials' prices is not likely to be maintained, even though building materials' prices will probably drop, too.

THE INDEX BY GROUPS

In addition to the index for all materials, figures can be calculated for four groups of materials: "imported," "metal," "quarried" and "primary" products. This grouping is, necessarily, somewhat arbitrary (joinery, for example, being included among the "imported" items, on the grounds that its price varies mainly as the price of timber changes), but the broad picture gained from the figures is fairly accurate. The steepest rises, since 1949, have been those of the prices of imported items, but the sub-index for this group seems now to have passed its peak. Paint and distemper declined by 10 per cent., and softwood by 6 per cent., between April and July, 1952, and these falls may

continue. The prices of imported metals, being linked with world market conditions, are still uncertain. By June, 1952, the price of copper had risen (since June, 1949) by 120 per cent, and the price was still rising. Zinc, which had had a similar peak early in 1952, is now considerably lower in price, and lead, which, in December, 1951, cost twice what it cost in 1949, is also falling in price. In general, the prices of imported metals seem due for a further slight fall, and then some stability may be expected.

Manufactured metal articles are not much dearer now than they were in 1949, the price of metal windows being only 18 per cent. above its 1949 level; electrical appliances, 17 per cent. up; gas appliances, only 5 per cent. up. There is unlikely to be much further decline in the prices of these articles, but it should be remembered they are already relatively cheap.

Quarried and primary products have risen in price less steeply than building materials generally, and, presumably, their indexes resemble more closely those of fuel, labour and transport costs than any other factors: It is, however, difficult to relate accurately the rises in the prices of these materials to these three factors. For example, from April, 1949, to October, 1952, earnings per hour in the brick and cement industries rose by about 15 per cent., and they have risen by roughly another 5 per cent. since then (figures have not yet been published); meanwhile, however, bricks and cement have risen in price by 23 per cent. and 30 per cent. respectively. Increases in direct labour costs cannot, therefore, be said to have accounted for this rise, especially as the average number of hours worked per week in the two industries increased, during the period we are considering, so that, presumably, capital equipment was more fully employed. Moreover, since 1949, the index for coal prices has gone up by only 21 per cent. The reasons for the size of the rises in the

prices of primary materials have never been clearly explained; perhaps the high level of demand has necessitated the use of expensive production units, and, in the case of cement, changes in the price of paper bags affect the price considerably. Whatever the reasons, however, reductions in the prices of the materials in this group are not out of the question, even though these prices have risen less steeply than those for materials generally.

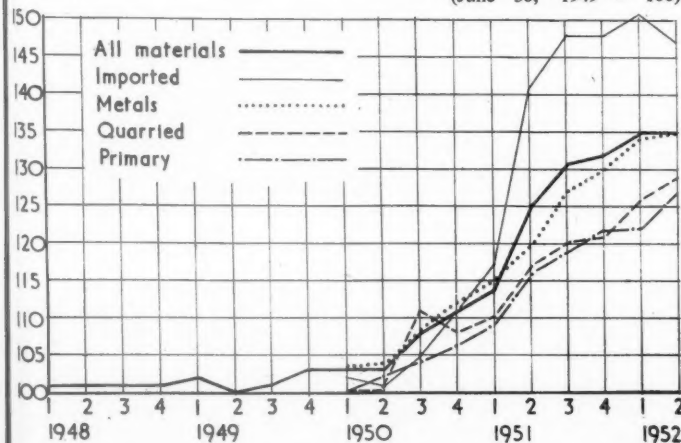
FUTURE OUTLOOK

It seems possible, for the first time since the end of 1947, to foresee a period of relatively stable, and perhaps slightly declining, building materials' prices. How long this will last will depend on future developments in the general economic situation, but the factors which have special relevance to building indicate a period of at least another eighteen months. There is some evidence that the high peak of demand for building has been passed; for example, the number of vacancies for building labourers outstanding at labour exchanges at the end of each month has fallen, and the number of vacancies for craftsmen is beginning to fall too. Unemployment, although not high, is 10,000 higher than it was a year ago, and the government's credit restriction policy is bound to have its effect upon the funds available for new construction.

The intention of the government's economic policy seems to be to bring about some changes in the fields of employment and investment. If these changes take place (and the policy will have failed if they don't), it is likely that the demand for building will be further reduced, but any such reduction will be very gradual in view of the high level of defence and other government orders, and the possibility of further easing in the issue of building licences.

IAN BOWEN.

INDEX OF BUILDING MATERIALS' PRICES
(June 30, 1949 = 100)



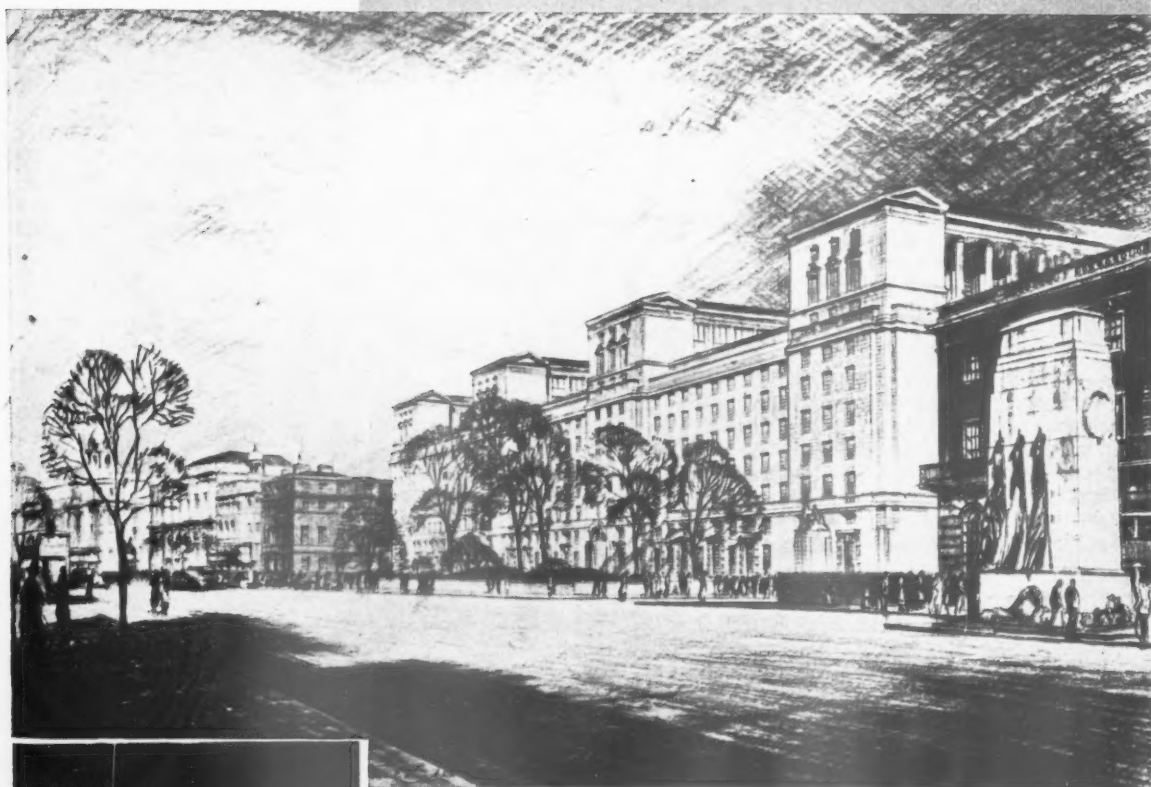
	All Materials	I Imported	II Metals	III Quarried	IV Primary
1948					
March ..	101	—	—	—	—
June ..	101	—	—	—	—
Sept. ..	101	—	—	—	—
Dec. ..	101	—	—	—	—
1949					
March ..	102	—	—	—	—
June ..	100	100	100	100	100
3 ..	101	—	—	—	—
4 ..	103	—	—	—	—
1950					
1 ..	103	102	103	100	100
2 ..	103	101	104	100	102
3 ..	108	105	108	111	104
4 ..	111	111	112	108	106
1951					
1 ..	114	117	115	110	109
2 ..	125	141	120	117	116
3 ..	131	148	127	120	119
4 ..	132	148	130	121	122
1952					
1 ..	135	151	134	126	122
2 ..	135	147	135	129	127

★ **P**rominent on the London scene are the new Whitehall offices being constructed by Richard Costain Ltd., the first stage of which is now approaching an advanced state of completion as can be seen by the illustration adjoining. The drawing reproduced below shows how this fine Government building will look when fully completed.

Architect:
E. VINCENT HARRIS, R.A.
Consulting Engineers:
R. TRAVERS-MORGAN & PARTNERS



The new Government Offices Whitehall Gardens



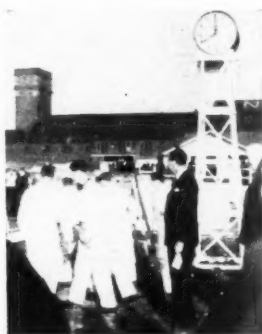
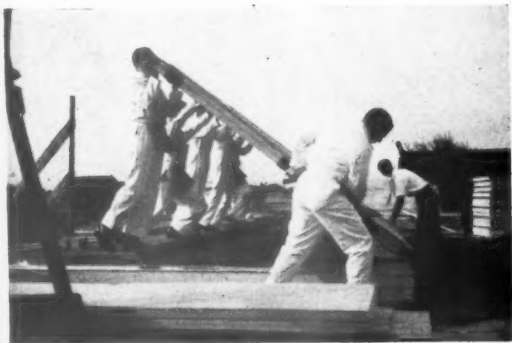
Richard
COSTAIN
Limited

MAIN CONTRACTORS

Head Office: DOLPHIN SQUARE, LONDON, S.W.1. VICTORIA 6624
Branches: MIDDLE EAST, RHODESIA, UGANDA AND NIGERIA

"RILEY-NEWSUM" TIMBER PREFAB. FOR EXPORT TO CANADA

Like the "Riley-Newsom" house being exported to Australia (see JOURNAL for January 3 1952), this new house, designed for the Canadian market, has only one-storey. There are four types—with two or three bedrooms and with or without basement. The plan below (scale: $\frac{1}{8}$ in. = 1 ft.) is of the three-bedroom house with basement; the photographs below show three stages in the erection of a two-bedroom prototype—the raising of the first group of wall panels (four panels held together by temporary timber battens); the fixing of aluminium sheeting to the roof; the completed house. External wall panels are 8 ft. high and



3 ft. 4 in. wide (there is a 40-in. module); they are stud framed and consist of a sandwich of 2-in. glass wool between two sheets of $\frac{3}{8}$ -in. gypsum plasterboard, clad externally with 1-in. V-jointed vertical weatherboarding on building paper and faced internally with another skin of plasterboard also on building paper. The windows and external doors are built into the panels in the factory; the windows have double hung sashes with spring balances and are factory glazed. Top-hung storm sashes are provided to combat Canadian weather conditions. Partition units are also 8 ft. by 3 ft. 4 in., stud framed and faced both sides with plaster-

board; doors are built in, and draw wires are provided for installing the electric wiring. The roof has folding timber trusses (made in two halves and bolted together on the site) at 3-ft. 4-in. centres. They are located on notches on the peripheral wall plate. Ceiling joists, in short lengths (pre-cut, as are all components), span between the trusses. The ceiling is plasterboard; the roof covering, 22-gauge aluminium sheeting on heavy building paper; and a 3-in. glass silk quilt is laid, on a layer of waterproof paper, on the ceiling—for thermal insulation. Fascia boards are profiled to the section of the aluminium sheeting, to keep out driving snow (see photograph of roof). Plumbing is prefabricated; all copper tubes being pre-cut, bent and prepared for compression jointing. These houses are not available in this country, on account of their timber content (although there is no reason why a similar house, made of unlicensed hardwood, could not be built), but the firm—H. Newsom Sons & Co., Ltd.—is supplying the LCC with two-storey timber-framed houses, faced with resin-bonded plywood, for erection on its estates. The photographs on the left show, from top to bottom, David Eccles, Minister of Works, (i) starting the erection gang off, when a prototype was erected recently in one day; (ii) watching work proceed; (iii) opening the house; Stephen Kent Biggs (right), who designed the house, talking to Ian Leslie, the editor of The Builder.

TUCKER'S 'Armourply'

**DOORS • COUNTERS
AND TABLE TOPS
CUBICLE UNITS
REFRIGERATORS**

*Metal
Faced
Plywood*

**INSULATING PANELS
ESCALATOR PANELS
ROOF PANELS
VEHICLE BODIES**

Combines light weight with strength in a wide range of decorative and utility surfaces

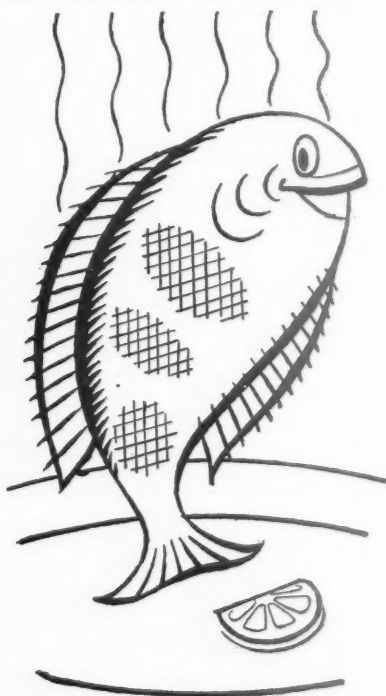
Manufactured by

WILLIAM MALLINSON & SONS LTD

130-150 HACKNEY ROAD, LONDON, E.2

Telephone: SHOREDITCH 7654 (10 lines)

Telegrams: ALMONER, LONDON



*"The answer's
not just a
lemon"*

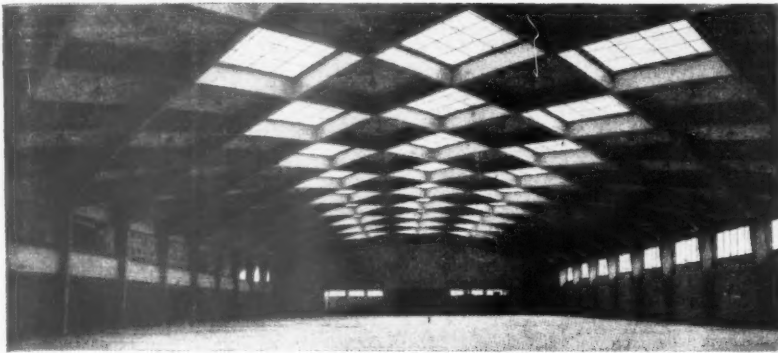
A sharp and unworthy answer for the delicate sole, reluctant to leave the deep sea for the hot plate. As "sole meunière," more fittingly, he will enchant the gourmet's heart—and stomach. But, for this heavenly end, the sole needs the assurance and comfort of a "Stott" kitchen—with equipment that, while catering for the largest numbers, preserves and promotes the succulence of the food. "Stotts" Planning and Advisory Service may be the answer to your kitchen problems—in the choice of a single piece of equipment or for assistance with an over-all plan.

**Manufacturers of Catering Equipment
of every description.
Send now for Catalogue No. AA19.**

"Quality Built"

"Stotts of Oldham"

EXHIBITION HALL AT LAUSANNE

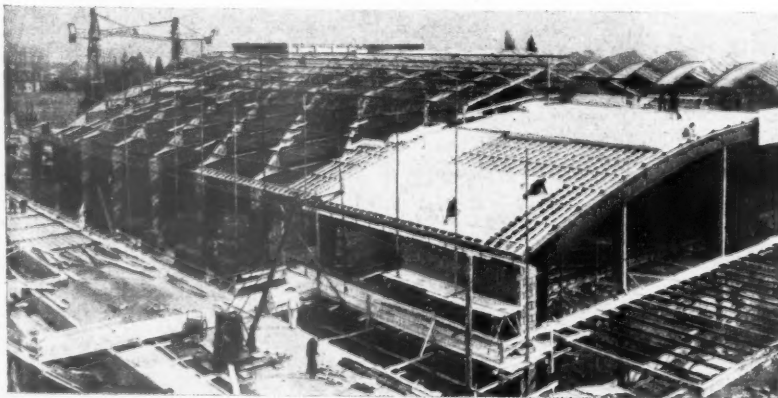
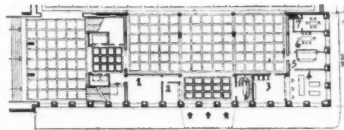


The Comptoir Suisse has for years suffered from a shortage of space. This new hall, erected for them in 1950, has a floor area of 76,500 sq. ft., of which 10,800 sq. ft. are in a gallery. The work had to be completed within nine months of its commencement and steel construction was, therefore, chosen, so that the fabrication of the framework could proceed while excavation and foundation work was in progress. The roof consists of a series of intersecting arches; it has a clear span of 147 ft. 6 in. In order to emphasise the structural elements, the roof has been painted in very light colours. The hall is intended to serve several purposes. It is used as an exhibition hall for trade fairs and also for musical festivals, gymnastic displays, congresses and other large gatherings. Heating and air conditioning is provided and good lighting has been achieved by using roof lights in a number of the spaces between the intersecting arches; the remainder being filled with panels of compressed glass silk, which, in addition to its acoustical and heat-insulating properties, has a pleasant appearance. A patent flooring was used, consisting of small pieces of wood fixed to the sub-floor with a powerful adhesive. This has good thermal insulating properties and is both warm and resilient. The hall is equipped with electric wiring at various voltages, telephone connections, gas points, water pipes, all laid on to the positions for stands through ducts in the ground floor. These installations are, however, concealed when the building is in use as an assembly hall. Architects, C. and C. F. Thevenaz (Lausanne). Consulting engineer, M. Cosandey (Lausanne).

Top, interior; below, exterior during construction; right, plan of entrance and ancillary rooms:

- KEY
1. Entrance hall
2. Booking office
3. Post room

4. Post room
5. Police
6. Police
7. Committee room

QUESTIONS
& ANSWERS

3065 COST OF OFFICE BUILDINGS

Q Can you tell me the current cost, in shillings per cu. ft., of first-class, stone-faced office buildings, such as the new Government offices in Whitehall?

A No general information exists regarding the current cost of such buildings, but, immediately before the war, first-class, stone-faced office buildings probably cost between 2s. and 2s. 6d. per cu. ft., and it would be reasonable, therefore, to assume that the cost would now be between 6s. 3d. and 7s. 9d. per cu. ft.

We cannot, of course, take any responsibility for these figures, as clearly the basis of calculation is very approximate. It may well be that no office building built today would be as lavish as a first-class block built before the war, even if the licensing authority consented to the use of stone facing.

PAINTING IN TWO COLOURS
Addendum to Q and A 3053)

It should be noted that the painting of sashes one colour and frames another colour is not normally considered parti-colour work.

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

ENQUIRY FORM

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

Please ask manufacturers to send further particulars to:—

NAME

PROFESSION or TRADE

ADDRESS

AJ 2.10.52

Buildings Illustrated

Store for Messrs. Montague Burton Limited. 74/76, Broadmead, Bristol. (Page 398.) Architects: Staff Architect, Montague Burton Ltd. General Contractors: M. Harrison & Co. (Leeds) Ltd. Sub-contractors: Piling in foundations, The Pressure Piling Co. (Parent) Ltd.; roof lights, J. A. King & Co. Ltd.; structural steelwork, Gardner Sons & Co. Ltd.; artificial stone facings, The Empire Stone Co. Ltd.; floor and roof slabs, The Rapid Floor Construction Co. (Bath) Ltd.; steel windows, Henry Hope & Sons Ltd.; asphalt roofs, The General Asphalt Co. Ltd.; sanitary ware, The Leeds Fireclay Co. Ltd.; wood block floors, J. A. Hewitson & Co. Ltd.; ironmongery, Nettleford & Moser Ltd.; metal escape staircases, S. W. Palmer & Son Ltd.; low pressure hot water heating installation, Spry & Holman Ltd.; suspended plaster ceiling to shop, Gyproc Products Ltd.; aluminium stair nosings, Small & Parks Ltd.; electrical work, Montague Burton Ltd.

Shop for Dorothy Perkins at Broadmead, Bristol. (Page 398.) Architects: Browett Taylor & Co. Main Contractor: William Cowlin & Sons, Ltd. Sub-contractor: Shop-fittings, Sycamore & Co. Ltd.

Re-constructed premises, 83, Broadmead, Bristol, for Alexandre Ltd. (Page 398.) General Contractors: Stone & Co. (Bristol) Ltd. Sub-contractors: Shop front and fittings, Wm. Mason & Son Ltd.; lift, Marryat & Scott.

Shop for Messrs. H. Samuel Ltd., Bristol. (Page 398.) Architects: W. H. Watkins, F.R.I.B.A. & Partners. Quantity Surveyors: Faithful & Gould. General Contractors: Henry Willcock & Co. Ltd. Sub-contractors: Steelwork, Gardiner Sons & Co. Ltd.; precast concrete floors, Concrete Ltd.; metal windows, Brunswick Metal Casement & Engineering Co. Ltd.; Bath stone, Bath & Portland Stone Firms Ltd.; heating and ventilating, Spry & Holman Ltd.; shop front, E. Pollard & Co. Ltd.; interior shop fittings, A. Edmonds & Co. Ltd.; electrical installation, Electra Ltd.

Shop for Marks & Spencer, Bristol. (Page 398.) Architect: James Monro & Sons. General Contractors: Bovis Ltd. Engineer: D. W. James-Carrington. Quantity Surveyor: Gleedes.

Housing at Churchill Gardens, Pimlico (pages 406 to 414). Architects: Powell & Moya, A.A.R.I.B.A.; assistant architect, S. P. Skinner. Director of housing: E. J. Edwards. Consulting Structural Engineers for 7-storey blocks: Scott & Wilson; for 4-storey blocks, H. Iorvys Hughes. Consulting Engineer for district heating: S. B. Donkin. Consulting Engineers for heating installation inside the flats: J. Roger Preston & Partners. Quantity Surveyors: E. C. Harris & Partners. Resident Engineer: R. C. Buchanan.

Clerk of Works: E. A. Perry. General contractor: Rowley Bros. Ltd. Sub-contractors: Reinforced concrete work, The Helical Bar & Engineering Co. Ltd.; heating and hot water, G. N. Haden & Sons; electrical services, Troughton & Young Ltd.; wood windows, Boulton & Paul Ltd.; kitchen fittings, Kandya Ltd.; metal windows and private balcony fronts, Williams & Williams Ltd.; access balconies, H. & C. Davis & Co. Ltd.; lifts, The Express Lift Co. Ltd.; pressed steel tanks, Braithwaite & Co.; bricks (Uxbridge Flint Lime, Staff. Blue Engineering & Dunbriks), Richard Parton (Builders' Merchants); cill tiles, McKenzie Brytles Ltd.; sanitary fittings, Stitsons Ltd.; metal door trims, John Thompson Beacon Windows Ltd.; basement damp-proofing, Wm. Briggs & Sons; cork insulation, Elisol Ltd.; plastic tile flooring "Accotile," National Flooring Co.; rubber based enamel paint, Inertol Ltd.; internal paint, Jensen & Nicholson; distemper, The Walpamur Co.; relay wireless and television, British Relay Wireless Ltd.; terrazzo shelves, W. B. Simpson & Sons Ltd.; pavement lights, J. A. King & Co. Ltd.; waterproof roofing, The Neuchatel Asphalt Co. Ltd.; pumps, W. H. Willcox & Co. Ltd.; ironmongery, Yannis Ltd.; district heating mains, J. Jeffreys & Co. Ltd.

Announcements

Messrs. Llewellyn Smith & Waters, F/R.I.B.A., announce that the address of their associated firm, Messrs. Willis, Llewellyn Smith & Waters is now 33, Foregate Street, Worcester (Tel.: Worcester 4245); the London address, 103, Old Brompton Road, S.W.7 (Tel.: Kensington 4477) remains unchanged.

Mr. Henry Nimmo, M.I.C.E., M.I.MECH.E., M.I.E.E., who has been chairman of the general council during the past two years, has been elected president of the Engineers' Guild in succession to Mr. Robert Chalmers, O.B.E., B.Sc., M.I.C.E., M.I.MECH.E., whose term of office expires on September 30.

Henry Carlyle Wilson Bennetts has been appointed director of sales to Allied Ironfounders Ltd., in place of W. T. Wren, who has now become assistant managing director. Mr. Wilson Bennetts started work with F. G. Minter Ltd., contractors, Putney. He

was engaged as a surveyor's assistant on reconstruction work in St. Paul's Cathedral, after which he joined Messrs. R. & A. Main, gas appliance manufacturers. He joined the staff of Allied Ironfounders Ltd. in 1938 and was appointed a director of General Gas Appliances in 1942. He became chairman and managing director of this company in 1945. In addition, he is managing director of two other subsidiary companies of Allied Ironfounders—Allied Steel Pressings Ltd. and Falco Electrical Appliances Ltd.

Metropolitan-Vickers Electrical Co. Ltd. and the Edison Swan Electric Co. Ltd. announce that they have opened a district office in Birmingham. The address is 10, 12, Hospital Street. The district manager is Mr. A. F. Bock.

Rooster Publicity Limited announce that a photographic team is now making a 12,000 mile tour of India. 133 towns are to be visited. Photographs are being taken of engineering plant, machinery and installations and other items of interest. The photographs will be exhibited in London after the tour. They will be made available to exporters for advertising purposes. A similar tour of certain parts of Africa is to be made in 1953. Enquiries should be addressed to Walton House, Peterborough (Tel.: Peterborough 4279 and Werrington 3773).

Correction

The announcement on page 390, JOURNAL for September 25, reading "Messrs. Chamberlin, Powell & Son ..." should read "... & Bon ..."

To the photo. caption concerning St. Peter's Cathedral, on page 220, JOURNAL for August 21, add: Godfrey Allen F.R.I.B.A., F.S.A., acted as consultant architect and was responsible for the initial stages of the work.

CORK, THE FLOOR THAT'S HALF AIR

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

CORK, most luxurious of floors, with the air-cellular structure that kills noise, has long been the architect's first choice where silence is essential, or comfort more important than cost.

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

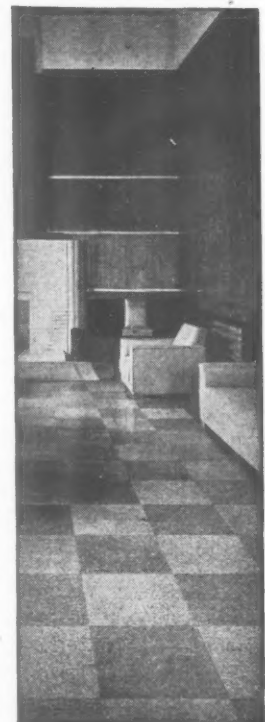
So cork is truly economical—far more so, when you count the years, than 'cheaper' floors that can never give the same satisfaction. Even first cost is competitive, normally lower than for wood blocks. And with this warm, quiet surface there is far less need for carpeting.

PURE CORK IN TILE FORM

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

ARMSTRONG'S CORK TILE FLOORING

ARMSTRONG CORK COMPANY LTD. London Office: Bush House, Aldwych, W.C.2. CHAncery 6281. Glasgow Office: 5 Oswald Street, C.1. Central 5703. Birmingham Office: Westminster Chambers, 93A Corporation Street. Central 1271. Manchester Office: Royal Exchange Bldg., Market St. Deansgate 7311-2. Dublin Office: 54 Middle Abbey St. Dublin 54901.



TEMPERATURE CONTROL ON H.W. HEATING SYSTEMS IN ADVANCE OF EFFECT INDOORS OF OUTSIDE TEMPERATURE CHANGE

The Sarco E.T.O. is a self-contained fully automatic control for accelerated hot-water heating systems.

Its three-ported thermostatic Blending Valve is under the master control of a second thermostat located outdoors. Variations in the temperature of flow from the Blending Valve to the heating system are made directly by the outdoor thermostat in anticipation of the effect indoors of any external temperature change. Thus:

- 1 *The E.T.O. provides equable indoor temperatures under conditions of changing outdoor temperatures ;*
- 2 *It controls heat supply at the minimum required to balance heat losses whatever the outside temperature conditions, giving maximum fuel economy ;*
- 3 *It can be designed to suit the heat emission curves appropriate to the type of heating surface installed ;*
- 4 *It can, after installation, be corrected to allow for any variation between design and site conditions ;*
- 5 *A boiler is subjected to less strain, and corrosion troubles avoided, because the boiler can be operated at a constant water temperature ,*
- 6 *The E.T.O. is non-electric, entirely self-operating and direct-acting. It has packless glands which eliminate the trouble so commonly experienced with ordinary glands.*
- 7 *It is reasonable in cost, easy to install, and easy on maintenance.*

For more information, please send the request slip (below) to SARCO THERMOSTATS LTD., CHELTENHAM, GLOS.

SARCO E.T.O. CONTROLLER

REQUEST SLIP FOR ADDITIONAL INFORMATION

NAME:

ADDRESS:

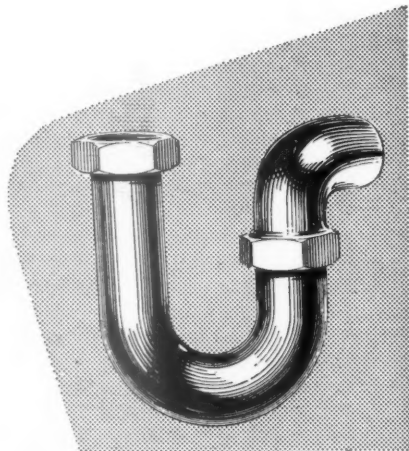


AR1052



.... we use them to solve drainage problems for Architects and Sanitary Engineers.

Econa tubular copper traps,* tees, elbows, and preformed waste ranges are more practical, cheaper and nearly as smooth as glass.



Consult us about
soil and waste
disposal (above
ground) because...

Econa

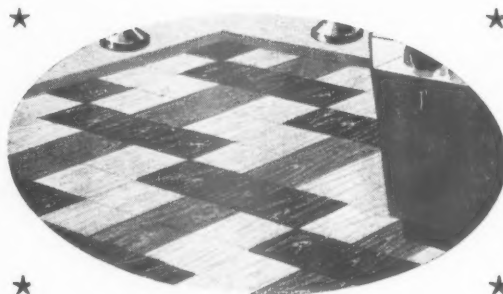
can help you...

ECONA MODERN PRODUCTS LTD. Phone: ACOcks Green 2211
WARWICK ROAD, TYSELEY, BIRMINGHAM 11

* Econa traps now have outlets with the correct gradient to prevent self-syphonage in single and one-pipe plumbing.

PHENCO FLEXIBLE-PLASTIC FLOORING

puts business
on a better footing



In banks and offices, factories and shops, hotels and restaurants—in all places where traffic is heavy and smart appearance essential—Phenco puts business on a better footing. And with its non-slip surface and sound-deadening resilience Phenco is the natural choice for schools and hospitals as well. Furthermore, as Phenco is proof against a wide range of chemical attack, schemes incorporating labs and kitchens also fall within its wide range of applications. Colour? Well, there are over twenty to choose from—plain and marbled—and, with Phenco being available in rolls or tiles, the design possibilities are virtually endless. Write now for fully descriptive literature and *put your foot down—insist on Phenco!*

Phoenix Rubber Co. Ltd.

91, BISHOPSGATE, LONDON, E.C.2 • TELEPHONE : LONDON WALL 3564 • TELEGRAMS : PHENRUB, STOCK, LONDON



Take any number...

In mass production the batch number of a lamp is an important reference, as from every batch, during manufacture, a certain percentage of lamps is subjected to numerous tests. Statistical analysis of the results of these tests gives early warning of any tendency to drift from the desired standard in light output, mechanical strength, life etc. You can therefore, take any number of these lamps with the assurance of consistently high quality throughout.

Checking luminous efficiency of G.L.S. lamps in an Integrating Sphere.

METROVICK LAMPS

Quality controlled throughout manufacture

METROPOLITAN-VICKERS ELECTRICAL CO. LTD., ST. PAUL'S CORNER, 1-3 ST. PAUL'S CHURCHYARD, LONDON E.C.4
Member of the A.E.I. group of companies

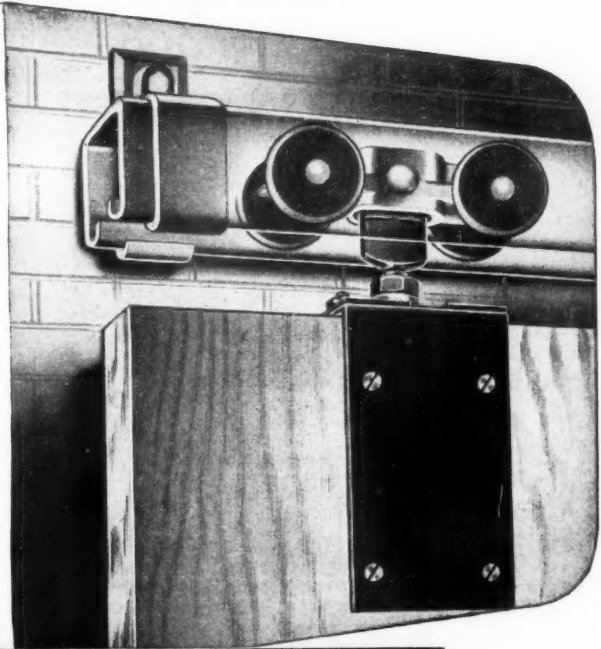
SAJ103

THE COBURN SYSTEM

SLIDING DOOR GEAR

In order to avoid you wasting your time we place at your disposal a staff trained to detail a suitable specification for any particular application.

Write for catalogue, prices and advice:—



The **BRITISH TROLLEY TRACK CO** Ltd.
COBURN WORKS · COPPERFIELD STREET
LONDON · S.E.1

Consult a specialist . . .

For over forty years the Jackson Electric Stove Co. Ltd. have been specialists in large scale Electric Cooking Equipment. Consult us for individual items or complete installation, whether you are cooking for two or two thousand.

It pays to specify

Jackson

for large scale Electric Cooking Equipment

BOILING PANS
CHEFS' RANGES
COOKERS
FISH FRYERS
GRILLS
HOT CUPBOARDS
PASTRY OVENS
ROASTING OVENS,
STEAMING OVENS
URNS



THE JACKSON ELECTRIC STOVE COMPANY LIMITED, 143 SLOANE STREET, LONDON, S.W.1

How TIMBER can replace STEEL in structural work



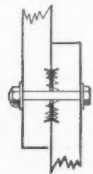
THE HAMPERING effect of the steel shortage can be minimised by the use of more timber for trusses, lattice girders, bracing members, etc. This technique is possible through "Bat" Timber

Connectors—providing immensely strong efficient joints—real engineering practice in timber.

Study the diagrams and it can easily be observed how the "Bat" Connector when bolted 'bites' into the wood. If you would like to know more about the possibilities of timber in structural work send for leaflet—free to all architects.



Double-sided square connector



Timber-to-timber joint



Single-sided square connector



TIMBER CONNECTORS

AUTOMATIC PRESSINGS LTD.
Bat Works, Blackheath, Birmingham, Staffs.

API2



colour full

Plenty of body, unvarying high quality, protection for years to come... Smith & Rodger Paints give a brighter picture inside and out.

The range includes : Vitamel High Gloss Paint · Waldura Washable Water Paint · Solvit Paint Remover · Vitacharm Flat Paint · Waldon Wall Paint (Synthetic Emulsion Type).

SMITH & RODGER LTD.
33-38 ELLIOT STREET, GLASGOW, C.3
City 6341-2 'Smitrod' Glasgow

SMITH & RODGER

PAINTS · VARNISHES

'BROADS TRUCAST' DUCT COVERS

Specially designed for use in

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

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



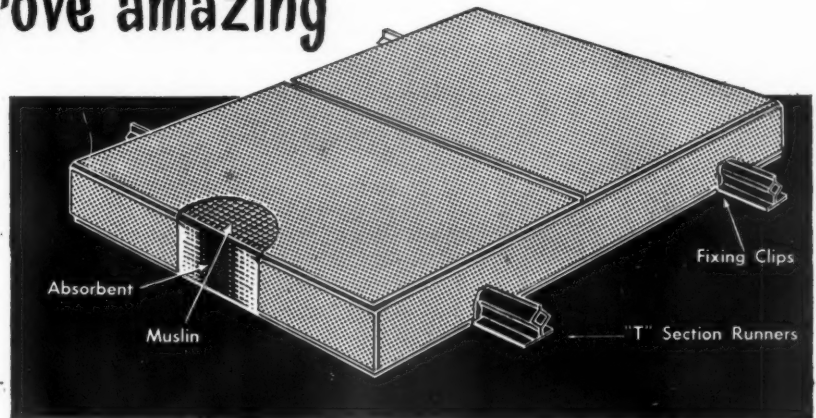
BROADS

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

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

N.P.L Tests prove amazing efficiency of Acoustic Tiles

Soundproofing takes a step forward! Burgess have produced—and the National Physical Laboratory have tested (Report Ref. 1015 of 12th June 1950) an Acoustic Ceiling Tile with an exceptionally high sound absorption coefficient. (See N.P.L. chart under diagram). Construction—a specially perforated metal tray, size 24in. by 12in. by 1½in., fitted with clips containing a non-inflammable, non-hygroscopic, sound absorbent pad. The clips make for rapid and easy attachment to the specially shaped tee bar runner. The Tiles are stove enamelled which gives this treatment an exceptionally uniform and neat appearance.



REVERBERATION ABSORPTION COEFFICIENTS TO NEAREST 0.05

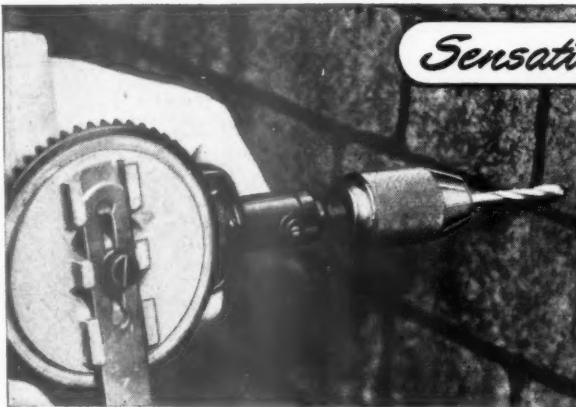
Frequency c.p.s.	125	250	500	1000	2000	4000	6000	8000
"A" 3/32in. dia. hole.	0.15	0.50	0.75	0.80	0.75	0.75	0.75	0.75
"B" 1/8in. dia. hole.	0.15	0.45	0.70	0.75	0.80	0.85	0.85	0.85

HEAD OFFICE & WORKS
HINCKLEY • LEICESTERSHIRE

LONDON OFFICE
127 VICTORIA STREET, LONDON, S.W.1
Telephone: Tate Gallery 0251/2

BURGESS

PRODUCTS COMPANY LIMITED



Sensational drilling by hand or power

Durium-tipped Drills are suitable for use in either a hand brace or electric drill. With both you'll get the same sharp accurate holes (without fracture of cavities), the same silence in operation, and an ease and cutting speed that will surprise you.

The secret of this remarkable rotary tool is the inset Durium Tip—it's vital! Look for the name 'Durium' on the shank—no other is a genuine Durium Drill.

Durium-tipped Drills can be of enormous benefit to you. Write today for free literature.

RAWLPLUG
DURIUM
REGD.
TIPPED DRILLS
FOR MASONRY AND ALL TILES



Durium-tipped—that's the point!

B428

THE RAWLPLUG COMPANY LIMITED • CROMWELL ROAD • LONDON • SW7

ESTABLISHED 1875

TRUETT & STEEL LTD

BUILDING CONTRACTORS

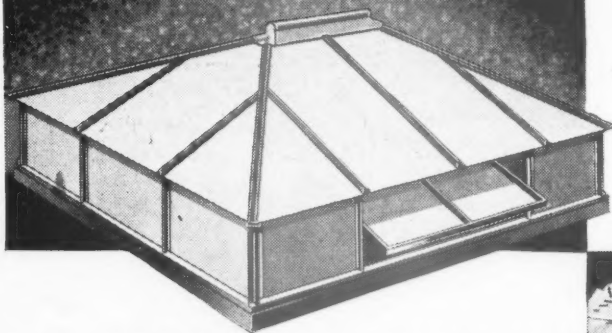
WESTMINSTER

THORNTON HEATH

WHITEHALL 3342 & 4051

THORNTON HEATH 1122/4/5/6

PARAGON LANTERN LIGHTS



PARAGON GLAZING COMPANY, LTD.
1 VICTORIA ST., WESTMINSTER, LONDON, S.W.1.

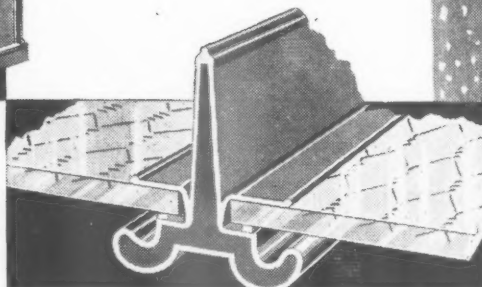
Telephone: ABBey 2348 (PBX) Telegrams: "Eclairage, Sowest," London

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

SIZES OF STANDARD LANTERN LIGHTS AND SKYLIGHTS

4 × 4 ft.	6 × 4 ft.	8 × 4 ft.
10 × 4 ft.	12 × 4 ft.	6 × 6 ft.
8 × 6 ft.	10 × 6 ft.	12 × 6 ft.
8 × 8 ft.	10 × 8 ft.	12 × 8 ft.
10 × 10 ft.	12 × 10 ft.	12 × 12 ft.

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



HOUSING!!

**ECONOMY
AND
IMPROVEMENT**



Aids speedy construction . . . Labour and timber saving . . . No supporting form-work needed. Easy handling: no maintenance. A definite economy, with good architectural appearance . . . A QUALITY PRODUCT: made by experienced and long established Pre-cast Concrete Specialists . . . Under licence from patentee.

THE ORIGINAL PRE-CAST GUTTER *The "M-M"*

PATENT NO. 576004

IN THE FAMOUS "VINCULUM" CONCRETE
THE GUTTER FOR THE FASTIDIOUS ARCHITECT WHO
REALISES THE IMPORTANCE OF EAVES TREATMENT
(SUITABLE ALSO FOR FLAT ROOFS)

FULL PARTICULARS AND PRICES ON APPLICATION:

TARMAC LTD

VINCULUM DEPT.

ETTINGSHALL · WOLVERHAMPTON · TEL.: BILSTON 41101/11

LONDON OFFICE:
50, PARK ST., LONDON, W.1
TEL.: GROSVENOR 1422/5 (4 LINES)

**Used extensively by the L.C.C. and
other Leading Housing Authorities**

The NEW Du-Bois 'VERSATYLE' LEAD TRAP

THE OVERALL MEASUREMENTS ARE BASED ON BSS 1184

for use with

BRASS SINK, BATH & BASIN WASTES

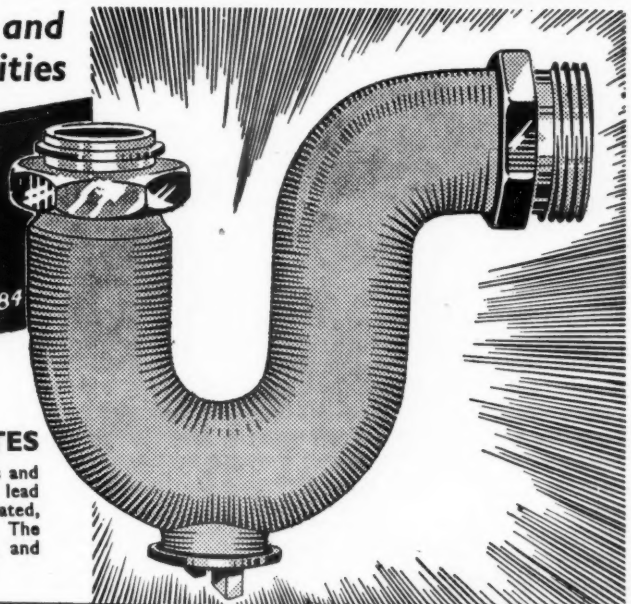
This lead trap has been developed to meet current shortages and is offered at very competitive prices. The 'Versatile' lead trap can be supplied with alternative outlet fittings as illustrated, also in a solder-washed finish if required at slightly extra cost. The 'Versatile' lead trap is used extensively by the L.C.C. and numerous contractors for their Housing schemes.

Please write for illustrated leaflet of the 'Versatile' lead trap and other "Du Bois" lead traps, Bends and Offsets.

Supplies can be obtained only through your usual
Builder or Plumber merchants.

**Du-Bois
CO. LTD**

15 BRITANNIA STREET, KINGS CROSS, LONDON, W.C.1
PHONE: TERMINUS 6624-5 GRAMS: BLEITRAP LONDON



M.G.T.
FITTING

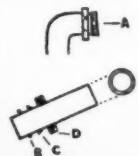


F.G.T.
FITTING



COMPRESSION
FITTING

A Brass tail-piece screwed
M. G. T.
B Fibre Washer.
C Tapered and annealed
copper compression ring.
D Loose back nut internally
threaded and tapered to
suit A & C respectively.

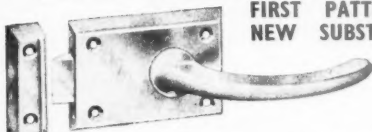


Insulating Board and Hardboard

INSULITE PRODUCTS CORPORATION LIMITED
 41 KINGSWAY, LONDON, W.C.2. TEMple Bar 9385/7

MACHINE CAST ALUMINIUM LATCH SETS all the vogue

To overcome brass and copper metal restrictions



P.A. 361 BOX 3" x 2" GRIP 4"

**FIRST PATTERNS IN THE
NEW SUBSTITUTE METALS**



P.A. 362 LEVER FURNITURE
TO MATCH

★ Designed for internal use
 ★ No cutting of wood necessary
 ★ Ideal fitting for thin doors
 of strong construction with
 twin coil springs the
 "STRATFORD" RIM LATCH
 SET No. P.A. 361 is made
 from high grade machine cast
 aluminium alloy.
 The spring loaded lever
 handle on rose incorporates
 our patent self-handling
 feature and the set is suitable
 for either hand door without
 adjustment.



INVITE YOU TO SEND YOUR
ENQUIRIES FOR DOOR &
WINDOW FITTINGS.

**Parker, Winder
& Achurch Ltd.**

Established over a Century



80, BROAD STREET, BIRMINGHAM 1

Also at 16, JOHN DALTON ST., MANCHESTER 2

Tel: MIDland 5001

(BLACKfriars 9478)

PHENCO PLASTIC FLOOR COVERING

PHENCO is recommended by Architects as exceptionally strong and hard wearing, with high resistance to oil, grease and chemicals. NON-inflammable. Non-slip and dustless and easily kept clean by normal methods.
PHENCO is tested to British Standards Specification for wear, indentation, pliability, water absorption and non-inflammability. B.S.S. 476/1932, B.S.S. 386/1936, B.S.S. 810/1938.
PHENCO FLOORING is a durable and flexible material with pleasing colour tones. It is supplied in 8 or 12 yard rolls, 36 in. wide by 3/32 in. or 1/8 in. thick; also in tiles 12 in. by 12 in. and 9 in. by 9 in. and 1/8 in. thick.

SAMPLES AND FULL QUOTATIONS ON REQUEST

PHOENIX RUBBER CO. LTD.

91, Bishopsgate, London, E.C.2. Tel.: London Wall 1622

Works at: 2K Buckingham Ave., Trading Estate, Slough, Bucks
 Tel.: Slough 22307/8/9

Agents for Birmingham area
A. D. FOULKES LTD.

Agents for Sheffield area
JOHN HADFIELD & SONS LTD.



Expert treatment of timber decay

The insidious workings of the Death Watch Beetle are often not apparent until serious damage has been done. Only the scientific use of a penetrating and persistent insecticide will eradicate these borers. "WYKAMOL" polychloronaphthalene can be confidently recommended and the experience and technical skill of our staff is at your disposal.

Send for free Technical Brochure
 "The Control of INSECT and FUNGAL DESTROYERS OF TIMBER."

A rafter in the roof of Chichester Cathedral showing damage by the Death Watch Beetle.

For advice and further details write to:-

RICHARDSON & STARLING LTD.

Members of the British Wood Preserving Association

HYDE STREET * WINCHESTER * Tel: 2537

*A Family Business
since 1898*

The Success of Farmer's Service is due to Personal Supervision from enquiry to completion of every order entrusted to us.

ENQUIRIES ARE INVITED FOR ALL CLASSES OF IRON AND STEELWORK



LEWISHAM, LONDON, S.E.13

Phone: LEE Green 4334-9

... for all electrical installations

F. H. Wheeler

& Co. Ltd.

Head Office: 39 Victoria Street, London, S.W.1. Tel: ABBey 8080 (8 Lines)

Branches: Manchester, Bournemouth, Glasgow, Birmingham, Southampton, Cardiff, Sheffield, York, Bristol.

THE COLLEGE OF ESTATE MANAGEMENT

St. Albans Grove, Kensington, W.8.

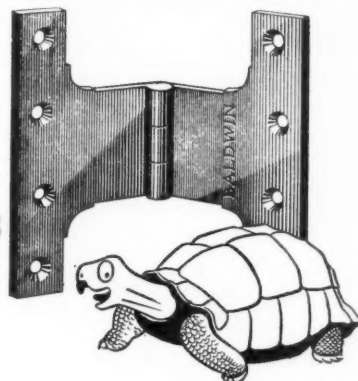
Day and Evening Courses for the following Examinations:—
 University of London Degree of B.Sc. (Estate Management) commence in October. (Day courses only. Completed application forms must be submitted by May 31st.)
 Royal Institution of Chartered Surveyors (Building, Quantities and Valuations subdivisions) commence in April. (Completed application forms must be submitted by December 31st.)

Postal Courses

B.Sc. (Estate Management), commence in January and July.
 The Royal Institution of Chartered Surveyors, Institution of Municipal Engineers, Royal Sanitary Institute, commence in April and October.
 Town Planning Institute, commence in May and October.
 Applicants for Postal Courses should submit their forms two complete calendar months before the date on which the course begins.

Applications to: The Secretary. Telephone: Western 1546

FOR
 LONG LIFE...
 FIX
BALDWIN'S
 HINGES



Sole Manufacturers:
 BALDWIN, SON & CO. LTD., STOURPORT-ON-SEVERN

THE REBUILDING OF BRISTOL

As in Plymouth, Semtex Ltd., has made a substantial contribution to the reconstruction programme. Notable amongst other work are two installations in the shopping centre, carried out for F. W. Woolworth & Co. Ltd., and Marks & Spencer Ltd.

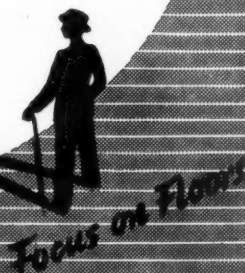
SEMTEX LTD

A DUNLOP COMPANY
 COMPREHENSIVE FLOORING SERVICE

Head Office: 185-7-9 Finchley Road, London, N.W.3

Telephone: Maida Vale 6070

Telegrams: Semtex, Haver, London



CLASSIFIED ADVERTISEMENTS

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

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

Public and Official Announcements

25s. per inch; each additional line, 2s.

The engagement of persons answering these advertisements must be made through a Local Office of the Ministry of Labour or a Scheduled Employment Agency if the applicant is a man aged 18-64 inclusive or a woman aged 18-59 inclusive unless he or she, or the employment, is excepted from the provisions of the Notification of Vacancies Order, 1952.

RURAL DISTRICT COUNCIL OF NEWMARKET.

ARCHITECTURAL ASSISTANT.

Applications are invited for the above appointment, which will be subject to the National Conditions of Service and to the Local Government Superannuation Act, 1937. The salary will be in accordance with Grade III of the A.P.T. Division (£525-£570).

The Council will give sympathetic consideration to the question of housing accommodation for the successful applicant.

Applications, stating age, qualifications and experience, together with names of two referees, must reach the undersigned not later than 13th October, 1952.

H. W. EVANS,

Clerk to the Council.

Council Offices, Park Lane, Newmarket, Suffolk. 7443

BOROUGH OF WREXHAM

Applications are invited for the following appointments in connection with Capital Works (Housing):

- (a) ARCHITECTURAL ASSISTANT—Salary A.P.T. Grade V, (£595 to £645 per annum).
- (b) ENGINEERING ASSISTANT—Salary A.P.T. Grade IV or V, (£555 to £600 or £535 to £645 per annum), according to qualifications and experience.

Applicants for appointment—
(a) Should be Associate Members of the R.I.B.A. or hold equivalent qualifications and have a general architectural experience.

(b) Should hold appropriate qualifications and have a general experience in Municipal Engineering, and the supervision of the construction of roads and sewers.

The Council is prepared to offer housing accommodation to the successful applicants, if married. Particulars and conditions of service may be obtained from the Borough Engineer & Surveyor, 31, Chester Street, Wrexham.

Applications on the prescribed form together with the names and addresses of two persons from whom reference may be obtained should be delivered to the undersigned in an envelope bearing the appropriate endorsement not later than the first post on Monday, 13th October, 1952.

PHILIP J. WALTERS,

Town Clerk.

Guildhall, Wrexham. 7436

BOROUGH OF MANSFIELD TEMPORARY QUANTITY SURVEYING ASSISTANT

Applications are invited from suitably qualified persons for the appointment of Temporary Quantity Surveying Assistant in the Borough Engineer and Surveyor's Department. (The period of employment is not expected to be less than two years.)

Salary will be in accordance with Grade A.P.T. II, £495-£540, and applicants should be experienced in abstracting and billing, measuring on site, preparation of Final Accounts and taking off Quantities for varied works.

Applications stating age, marital state, training qualifications and experience, together with copies of not more than three testimonials, must be sent to the undersigned not later than Monday, 6th October, 1952, endorsed "Quantity Surveying Assistant."

The appointment is subject to the following conditions:—

1. National Joint Council's Scales of Salaries and Conditions of Service.
2. Residence within the Borough.

A. C. SHEPHERD,

Town Clerk.

Carr Bank, Mansfield. 7411
10th September, 1952.

MIDDLESEX COUNTY COUNCIL—COUNTY PLANNING DEPT.

PLANNING ASSISTANT required, possessing good honours degree or other full qualification in Planning, Economics, Commerce or Geography, and capable of taking charge of group of Assistants engaged in statistical and territorial analysis. Salary A.P.T. VI, £700 p.a., rising to £765 p.a. (if 26 years or over). Established, pensionable, subject to medical assessment and prescribed conditions. Written applications, stating age, experience, qualifications, etc., with copies of three testimonials, to the undersigned by 16th October (quoting L.250 A.J.). Canvassing disqualifies.

C. W. RADCLIFFE,

Clerk of the County Council.

Guildhall, Westminster, S.W.1. 7449

LONDON ELECTRICITY BOARD.

SENIOR DRAUGHTSMAN.

Applications are invited for the above position in the Design and Planning Branch of the Northern Sub-Area, at Aldersgate Street, E.C.1.

Applicants should have had training and experience in building construction and the design of steelwork and reinforced concrete structures, and be capable of preparing drawings and making calculations for the alteration of existing premises and the conversion of basements into sub-stations and transformer chambers. Experience in the layout of electrical equipment up to 11 kV, whilst not essential, would be an advantage.

The post is graded under Schedule "D" of the National Joint Board agreement as Senior Draughtsman, Grade V, £574 7s. to £683 11s. per annum, inclusive of London allowance.

Application forms obtainable from Establishments Officer, 46, New Broad Street, E.C.2, to be returned completed within 10 days of the publication of this advertisement. Please enclose addressed foolscap envelope and quote ref. V/1468/A on all correspondence.

WEST SUFFOLK COUNTY COUNCIL.

JUNIOR QUANTITY SURVEYING ASSISTANT.

N.J.C. service conditions, salary £465-£540 (A.P.T. I-II). Post pensionable; medical examination. Should be Student of Royal Institute of Chartered Surveyors studying for Intermediate Examination and with not less than two years' office experience.

Application forms obtainable from Clerk of the County Council, Shire Hall, Bury St. Edmunds, to be returned by 11th October, 1952. 7447

COUNTY BOROUGH OF BOURNEMOUTH.

BOROUGH ARCHITECT'S DEPARTMENT.

Applications are invited for the following appointment:—

JUNIOR ASSISTANT QUANTITY SURVEYOR. Unestablished post. Salary, Grade A.P.T. III, £500-£545 per annum. Applicants must have passed the Intermediate Examination of the R.I.C.S.

The successful candidate will be appointed at his present salary if such salary is within the incremental scale of the advertised post.

The above appointment will be terminable by one month's notice, in writing, on either side, and subject to the provisions of the Local Government Superannuation Act, 1937, also the conditions of service in accordance with the National Scheme.

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

No assistance can be offered regarding housing accommodation.

Applications, on forms to be obtained from the Borough Architect, Town Hall, Bournemouth, accompanied by copies of three recent testimonials, to be returned to the undersigned in envelopes endorsed "Staff Architectural," not later than 10 a.m. Saturday, 11th October, 1952.

A. LINDSAY CLEGG,

Town Clerk.

7446

CITY OF WAKEFIELD. CITY ENGINEER'S DEPARTMENT.

SENIOR QUANTITY SURVEYOR, GRADE A.P.T. Va-VI (£625-£735).

Applications are invited for the above superannuable appointment. Candidates must be Members of the Royal Institution of Chartered Surveyors (Quantities) or the Institute of Quantity Surveyors.

Applications, endorsed "Senior Quantity Surveyor," stating age, qualifications, present and previous appointments and details of experience, together with the names of two referees, should be sent to me not later than the 17th October, 1952. Canvassing will disqualify.

Consideration will be given to the provision of housing accommodation for the successful applicant if married.

W. S. DES FORGES,

Town Clerk.

Town Hall, Wakefield. 7450
18th September, 1952.

NORTH THAMES GAS BOARD

AN ARCHITECTURAL ASSISTANT

is required in the Architectural Section, Chief Engineer's Department, Westminster.

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

Starting salary, depending on age and qualifications, will be within the range £650-£725 per annum, and pension arrangements will be discussed with short list candidates.

Applications, stating age, qualifications and experience, should be sent to the Staff Controller, North Thames Gas Board, 30, Kensington Church Street, London, W.8, quoting reference 666/48.

7459

COUNTY BOROUGH OF CROYDON TEMPORARY CLERK OF WORKS

Applications are invited for this appointment from persons accustomed to housing contracts. Salary £1 for 44-hour week. Applications on forms from the Borough Engineer, Town Hall, Croydon, must be sent to him by 11th October, 1952.

Canvassing will disqualify.

E. TABERNER,

Town Clerk.

7463

COUNTY BOROUGH OF TYNEMOUTH BOROUGH SURVEYOR'S DEPARTMENT APPOINTMENT OF ASSISTANT ARCHITECT—GRADE VA/VI

Applications are invited for the above appointment at a salary of £600-£710.

The appointment is superannuable and applicants should be Associate Members of the R.I.B.A. Preference will be given to those applicants who have experience in the design of schools, and the Corporation may be prepared to assist in the provision of housing accommodation in cases of difficulty.

Application forms and conditions of appointment may be obtained from Mr. D. M. O'Herlihy, B.Sc. (Eng.), M.I.C.E., Borough Surveyor, 15, Northumberland Square, North Shields, to whom they should be returned by 11th October, 1952.

Dated this 20th day of September, 1952.

(Sgd.) FRED. G. EGNER,

Town Clerk.

7451

DERBYSHIRE COUNTY COUNCIL.

COUNTY ARCHITECT'S DEPARTMENT.

Applications are invited for the appointment of an ARCHITECT on A.P.T. Grade V, in accordance with the National Joint Council scheme, on the permanent staff for which position applicants must be Registered Architects. 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. Canvassing either directly or indirectly will disqualify candidates for consideration. Forms of application may be obtained from the undersigned to whom they should be returned, duly completed, not later than October 11th, 1952. F. Hamer Crossley, County Architect, County Offices, St. Mary's Gate, Derby. 7452

2nd October, 1952.

BOROUGH OF ILFORD

APPOINTMENT OF TWO CLERKS OF WORKS

Applications are invited for the following appointments on the temporary staff of the Borough Engineer's Department:—

(a) ONE CLERK OF WORKS—salary in accordance with Grade A.P.T. II commencing at £495 per annum plus London Weighting. Applicants must have had considerable experience in a similar capacity, have a sound knowledge of building construction and be capable of supervising housing contracts including three storey flats.

(b) ONE ASSISTANT CLERK OF WORKS—salary £6 6s. 0d. per week. Applicants should possess a good knowledge of building construction and be capable of assuming control in the absence of the Clerk of Works.

The appointments will be superannuable and subject to one month's notice on either side, to the National Conditions of Service and to medical examination.

Applications, on forms obtainable from the Town Clerk, Town Hall, Ilford, should be returned by the 11th October, 1952.

7453

NIGERIAN COLLEGE OF ARTS, SCIENCE AND TECHNOLOGY

Applications are invited for appointment as LECTURER in ARCHITECTURE. Person appointed will initially be required to assist in designing and supervising construction of College buildings. Teaching duties, which will develop as the College buildings are completed, will include instruction in architectural design and building construction in the Department of Architecture. There will be opportunities for research in design for the Town Clerk. Candidates should be Fellows or Associates of the Royal Institute of British Architects or hold an equivalent approved qualification in any Dominion and should preferably have had teaching experience in a Technical College or University.

The College is to be developed along the general lines of a U.K. Technical College and will probably have branches at Ibadan, Enugu and Zaria.

Post is pensionable but appointment on contract or secondment might be arranged. Salary scale, including overseas allowance: £870-£1,560 p.a. Point of entry into scale determined by previous experience. Reasonably furnished house provided at rent of 10 per cent. of basic salary (£600-£1,200). Free first class passages once each way for each tour of service for person appointed and wife: either a passage allowance or maintenance allowance for children under eighteen up to two in number. Income tax rates much lower than in U.K. Leave on full pay at rate of seven days for each completed month of resident service. Tours of service likely to be ten to eighteen months.

Further information concerning the College and method of application obtainable from the Secretary, Advisory Committee on Colonial Colleges, 15, Victoria Street, London, S.W.1, to whom enquiries should be addressed in time for applications to be submitted before 27th October, 1952.

7478

BOROUGH OF LUTON.

QUANTITY SURVEYING ASSISTANT

required in Borough Engineer's Department (General Division, A.P.T., Grade III, dependent on appropriate qualifications and experience). N.J.C. service conditions; post pensionable; medical examination; no house offered.

Write, giving age, full particulars and two references, to Borough Engineer, Town Hall, Luton, by Friday, 17th October, 1952.

W. H. ROBINSON,

Town Clerk.

7476

GOLD COAST GOVERNMENT—
PUBLIC WORKS DEPARTMENT

Applications are invited for the following posts:—

ARCHITECT

Duties: The Architect will be required to design and supervise the construction of new Government buildings arising in connection with the Government's development programme such as quarters, offices, hospitals, schools, halls, reading rooms, etc. He will also be responsible for supervising the preparation of working drawings and specifications.

Qualifications: Candidates must be Associates of the Royal Institute of British Architects. Previous experience of Government or Local Authority work is desirable.

Salary: This will be in the range £1,250—£1,950 per annum (consolidated) according to age, qualifications and experience.

QUANTITY SURVEYOR

Duties: The officer will be responsible for the preparation of Bills of Quantities and Specifications in respect of works arising in connection with the Government's development programme, analysis of prices from Architect's plans and preparation of approximate estimates for development works.

Qualifications: Candidates must be members of either the Royal Institute of Chartered Surveyors or the Institute of Quantity Surveyors and must have had considerable practical experience.

Salary: This will be in the range of £1,035—£1,950 per annum (consolidated) according to age, qualifications and experience.

Terms of Service: The appointments will be on contract/gratuity terms for one tour of 18 months with a possible extension to two tours. A gratuity at the rate of £37 10s. for each completed three months of satisfactory service will be payable on final termination of the contract.

Free passages on first appointment and on leave will be provided for the officer and his wife once each way during each tour of service. Officers will normally be required to travel by air. Free air passages will also be provided for a maximum of 3 children under 13 years of age.

Vacation leave with pay: six days for each month of service. Free medical and dental attention provided for officer and family. Furnished quarters available at low rental. Income tax at local rates. Kit allowance on first appointment £30—£60 according to salary.

These posts are "Development Posts" for implementation of specific projects under the Gold Coast Development Plan and are strictly temporary. On termination of the contract, the officer would not be eligible for transfer to any other Government appointment but would be able to apply for appointment to another post if desired.

Intending candidates should apply in writing to the Commissioner for the Gold Coast, Melbourne House, Aldwych, London, W.C.2, giving brief details of their age, qualifications and experience, mentioning employments with years stated and names of persons to whom reference might be made regarding technical experience. Birth certificate (or other proof of age), which will be returned promptly, should be sent with the application. 7457

COUNTY BOROUGH OF BIRKENHEAD

Applications are invited for the following appointments:—

(a) TWO ARCHITECTURAL ASSISTANTS, A.P.T. Grade VIII, £760—£835 per annum.

(b) ARCHITECTURAL ASSISTANT, A.P.T. Grade VII, £710—£785 per annum.

(c) TWO ARCHITECTURAL ASSISTANTS, A.P.T. Grade VI, £670—£735 per annum.

(d) ASSISTANT QUANTITY SURVEYOR, A.P.T. Grade VII, £710—£785 per annum.

(e) ASSISTANT QUANTITY SURVEYOR, A.P.T. Grade VI, £670—£735 per annum.

(f) JUNIOR QUANTITY SURVEYOR, General Division, £160—£450 per annum.

Appointments (a), (b), (c):

Preference will be given to candidates who are Associates of the Royal Institute of British Architects and who have had considerable experience in the design and construction of Contemporary Housing and/or Schools.

Appointments (d) and (e):

Applicants must have passed the Final Examination of the Royal Institute of Chartered Surveyors and have had considerable experience in taking off for housing, schools and various municipal buildings.

Appointments (f):

Applicants should have a General Certificate of Education or equivalent and preferably some experience in Quantity Surveying.

The Posts are Superannuable, subject to Medical Examination, and to one month's notice on either side.

Application Forms are available from the Borough Architect, 25, Hamilton Square, Birkenhead, should be returned to the undersigned not later than the 13th October, 1952.

DONALD P. HEATH.

Town Clerk.

Town Hall, Birkenhead. 7456

URBAN DISTRICT COUNCIL OF STANLEY

ENGINEER AND SURVEYOR'S DEPARTMENT.

APPOINTMENT OF ARCHITECTURAL ASSISTANT.

Applications are invited for the appointment of an Architectural Assistant for housing work. Applicants must be registered Architects and have sound experience, particularly in housing.

Salary will be in accordance with Grade VI Division, £670-£735. The successful applicant will be required to pass a medical examination.

Applications, endorsed "Architectural Assistant," stating age, present and past appointments and experience, with three references, to be received by the undersigned by 18th October, 1952.

R. BLAKEY,

Clerk of the Council.

Council Offices, Coach Road,

Outwood, near Wakefield. 7475

LUTON RURAL DISTRICT COUNCIL

APPOINTMENT OF ARCHITECTURAL ASSISTANT

Applications are invited for the above appointment in the department of the Council's Engineer and Surveyor, for work in connection with Housing Schemes.

Salary in accordance with A.P.T. Grade Va or VI of the National Scales, according to qualifications and experience. Applicants must have had general Architectural training and experience, particularly in connection with Housing Schemes, and must hold a recognised Architectural qualification.

The appointment is subject to the provisions of the Local Government Superannuation Act, 1937.

The Council will assist in the provision of housing accommodation.

Applications, endorsed "Architectural Assistant" stating age, qualifications and experience, together with the names of three persons to whom reference may be made, should be sent to the undersigned, not later than 13th October, 1952.

EVAN A. C. EVANS,

Clerk to the Council.

Rural Council Offices,

42, Bute Street, Luton, Beds. 7468

COUNTY BOROUGH OF GATESHEAD

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

(a) ONE SENIOR TOWN PLANNING ASSISTANT, Grade VII (£710—£785), who must be qualified by examination in Town Planning and preference will be given where a recognised qualification in Civil Engineering or Architecture is also held. Good experience in Town Planning and Redevelopment Work in built-up areas is necessary.

(b) ONE JUNIOR TOWN PLANNING ASSISTANT, Grade IV (£555—£600), who should have had experience in the application of Town Planning Regulations and development control. Preference will be given to candidates holding the Intermediate examination of the Town Planning Institute or possessing an approved equivalent qualification.

The above appointments which are terminable by one month's notice on either side, are subject to the Local Government Superannuation Acts and the successful candidates will be required to pass a medical examination.

Applications, stating age, qualifications, training, experience, present and past appointments, and accompanied by copies of not more than three recent testimonials, must be sent to Mr. A. J. McGregor, Borough Surveyor, Municipal Buildings, Swinburne Street, Gateshead, 8, by Saturday, 18th October, 1952.

Candidates must declare their relationship, if any, with any member or senior official of the Council.

J. W. PORTER,

Town Clerk.

Town Hall, Gateshead, 8.

24th September, 1952. 7469

COUNTY BOROUGH OF GATESHEAD

CHIEF ARCHITECT'S DEPARTMENT

Applications are invited for the following appointment:—

SENIOR ASSISTANT ARCHITECT: Grade A.P.T. VII (£710 by £25 to £785).

Applicants should be Registered Architects and should be Corporate Members of the Royal Institute of British Architects. They should have had good experience in the design and construction of Public Buildings, Schools and/or Municipal Housing Schemes, and should be capable of supervising the work of a section of the Department.

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

Applications on forms obtainable from the Chief Architect, H. J. Cook, A.R.I.B.A., M.I.Struct.E., Municipal Buildings Swinburne Street, Gateshead, 8, should be returned to him by Wednesday, 15th October, 1952.

J. W. PORTER,

Town Clerk.

Town Hall, Gateshead, 8.

24th September, 1952. 7467

SUDAN GOVERNMENT

The Public Works Department, Sudan Government require an ARCHITECTURAL ASSISTANT for service in the Sudan under the Chief Architect, for the preparation of working drawings for general building work.

Candidates should have a sound Architectural Training and experience of general building work and be capable of the preparation of working drawings required. Age 25-55 years. Salary between ££750 and ££1,400 on probation for Short Term Contract, with bonus for two years, starting rate of pay higher than the minimum but not higher than ££1,050 may be offered if justified by age, qualifications and experience.

A variable Cost of Living Allowance is now payable in the Sudan and is reviewed quarterly. No income tax is at present payable in the Sudan. Annual home leave on a generous scale after initial tour of approximately 18 months. Free passages by air both ways for official and family. Duty transport provided. Government accommodation, as available, provided at low rent. An Outfit Allowance of ££50 is payable when contract is signed.

Further information and application form will be sent on receipt of a postcard only addressed to the Sudan Agent in London, Wellington House, Buckingham Gate, London, S.W.1, quoting "Architectural Assistant 1808" and name and address in block letters. 7458

HAMPSHIRE BOROUGH COUNCIL require

ASSISTANT ARCHITECT (TEMPORARY).

Salary £570—£620 (A.P.T. V) plus London weighting. Qualified. Age limit 45. No housing provided. Applications giving three referees, to the Town Clerk, Town Hall, Hampshire, N.W.3. Closing date 4th October, 1952. 7455

THE IRAQI DEVELOPMENT BOARD (Chairman: Prime Minister of Iraq) require:—

(a) METEOROLOGY AND HYDROLOGY SPECIALIST.

(b) SOILS CLASSIFIER.

(c) ESTIMATOR.

(d) SOIL MECHANICS SPECIALIST.

(e) CONCRETE DESIGN ENGINEER.

(f) CHIEF, Civil Engineering Research Laboratory.

(g) IRRIGATION OPERATIONS ENGINEER.

(h) JUNIOR ENGINEERS (10 posts).

Salary for posts (a)-(g) will be I.D.150-250, and for post (h) I.D.80-150 per month. (1 Iraqi Dinar = £1 sterling.)

Duties: Assist in the design, construction and supervision of numerous irrigation and drainage works. Candidates for all posts except (b) should have a degree in Civil Engineering with appropriate experience. For post (b) a degree is required from a college or university which specialises in training soils scientists. Appointments are for two years, renewable. Free passages for appointees and dependants; home and local leave; free medical attention; provident fund; high cost of living allowance. Write to A.S.12 (Iraq Development Board), Almack House, King Street, St. James's Square, London, S.W.1, for application forms and further details, stating which post, as soon as possible. 7477

Architectural Appointments Vacant

4 lines or under, 7s. 6d.; each additional line, 2s.

The engagement of persons answering these advertisements must be made through a Local Office of the Ministry of Labour or a Scheduled Employment Agency if the applicant is a man aged 18-64 inclusive or a woman aged 18-59 inclusive unless he or she, or the employment, is excepted from the provisions of the Notification of Vacancies Order, 1952.

ARCHITECTURAL ASSISTANTS required

immediately at Head Office for preparation of working drawings and details for Housing and other contracts in non-traditional construction. Commencing salaries up to £600 per annum according to experience. Applications, giving brief particulars of experience to: Staff Architect, George Wimpey & Co., Limited, 27, Hammersmith Grove, London, W.6. 7437

OLD-ESTABLISHED Mutual Life Assurance

House wants a few men of initiative and integrity to act as AGENTS. Architects and Surveyors have the necessary knowledge and contacts to make business most profitable to us and them. Further details from Box 6734.

SUSSEX PRACTITIONER requires services of

ARCHITECTURAL ASSISTANT, experienced in design of Country Cottages and small Houses, for part-time work. State rate per hour and full particulars of experience, in confidence, Box 7461.

SENIOR ASSISTANT ARCHITECT urgently

required at Head Office for leading work on design and working details for multi-storey flats; sound prospects for suitable applicant; commencing salary according to experience. Other vacancies exist for Architectural Assistants experienced in preparation of working drawings and details for housing and flats. Write, giving brief particulars of experience, to Staff Architect, George Wimpey & Co. Limited, 27, Hammersmith Grove, London, W.6. 7479

JOHN E. BEARDSHAW & PARTNER.

A./A.R.I.B.A., 186, Oxford Road, Manchester, 13, require a Junior Architect-designer Draughtsman. Must be first-class draughtsman and colourist, also capable of making accurate building surveys. Salary according to experience. 7480

ARCHITECTURAL ASSISTANT required by

large Industrial Organisation, preferably qualified and with experience in planning, design and construction of factory buildings. The appointment is permanent and pensionable, and the salary will be in accordance with age, experience and qualifications. Applicants should be between 30 and 45. Please reply, giving full details of age, experience, etc., to Box No. L5936, A.K. Advg., 212a, Shaftesbury Avenue, W.C.2. 7484

KUWAIT OIL COMPANY invites applications for the post of **ASSISTANT ARCHITECT** for service in Kuwait. Must have recognised school training and be an **A.R.I.B.A.** Preference given to candidates with experience in design of modern hospitals. Age 30-35. Salary starting £950 p.a. clear, plus generous allowances, pension scheme and kit allowance. Write for application form, giving personal details and quoting K.1518, to Box N/73, c/o 191, Gresham House, E.C.2. 7472

SCHERRER & HICKS, of 19, Cavendish Square, London, W.1. require a **JUNIOR DRAUGHTSMAN**, aged 17-18 years, who should be a probationer of the **R.I.B.A.** Write, stating experience and salary required. 7421

JUNIOR ARCHITECTURAL ASSISTANT required in busy country office dealing chiefly with Agricultural and Domestic work. Smith-Woolley & Partners, Collingham, Newark, Notts. 7481

Architectural Appointments Wanted

A.R.I.B.A., accustomed to being in charge of a drawing office, has had excellent experience in the office and on the site. Can take charge from sketch to final settlement; specifications, perspectives, layout. Can work in his own West End office if necessary. Box 7301.

A.R.I.B.A., A.A. Dip., (38), single, requires a responsible position in England or overseas. 10 years' experience in private and L.A. offices. Available now. Box 564.

A.R.I.B.A. (27) requires position as **SENIOR ASSISTANT** in Central London area. 7 years' varied experience in private practice and L.A. schools, including administration and supervision of contracts. Box 565.

ASSISTANT, Intermediate standard, requires a post in Architect's office, City or West End. 5 years' office experience. Box 567.

CHIEF ARCHITECTURAL ASSISTANT (Regd.) seeks change, preferably to North-West. 39, married. 17 years' Local Government experience, housing, shops, estate layout, site supervision, sketch plans to completion. Administration and control of staff. Car owner. Would consider representative work on salary and commission basis; present salary £760 p.a. Box 7466.

ARCHITECTURAL ASSISTANT, with good general experience, neat and capable draughtsman, seeks position in London office. Box 7445.

SENIOR ASSISTANT (25), married. **R.I.B.A.** Final standard, 7 years' varied office experience, requires interesting and responsible position. Anywhere except London area. Salary by arrangement. Box 570.

YOUNG and energetic Qualified Architect and Surveyor requires a position, either permanent or temporary, in an architect's or surveyor's office; good knowledge of quantities. Seaside town only. Box 563.

ARCHITECT'S ASSISTANT, **A.R.I.B.A.**, capable of handling medium contracts to final account; three years' varied experience; requires progressive position in small London office, preferably one with contemporary outlook. Box 571.

Other Appointments Vacant

4 lines or under, 7s. 6d.; each additional line, 2s.

The engagement of persons answering these advertisements must be made through a Local Office of the Ministry of Labour or a Scheduled Employment Agency if the applicant is a man aged 18-64 inclusive or a woman aged 18-59 inclusive unless he or she, or the employment, is excepted from the provisions of the Notification of Vacancies Order, 1952.

CIVIL ENGINEER required by The Steel Company of Wales, Ltd., to take charge in new Department at large modern Steel Plant. Good knowledge of Civil and Structural Engineering essential—general knowledge of building construction an advantage. The successful candidate should have recognised technical qualifications. Salary over £1,000 per annum, commensurate with experience and ability. Applications in own handwriting should be addressed to: The Personnel Superintendent, The Steel Company of Wales, Ltd., Box No. 3, Port Talbot. 7460

ASSISTANT QUANTITY SURVEYOR required by large Industrial Organisation, preferably qualified. The appointment is permanent and pensionable, and the salary will be in accordance with age, experience and qualifications. Applicants should be between 30 and 45. Please reply, giving full details of age, experience, etc., to Box No. 6932, A.K. Adv., 212a, Shaftesbury Avenue, W.C.2. 7483

REPRESENTATIVE with first class connection among London architects required by well-known firm manufacturing high quality flush doors and partitioning. Salary and expenses. Permanent and progressive position for right man. Box 7399.

Partnerships

6 lines or under, 12s. 6d.; each additional line, 2s.
CHARTERED ARCHITECT (36), diplomas in Architecture and Town and Country Planning, with varied experience, and own small practice, seeks Partnership with established Architect in London. Capital available. Box 7454.

Services Offered

4 lines or under, 7s. 6d.; each additional line, 2s.
ARCHITECTURAL DESIGNER-DRAUGHTSMAN. Own office. Seeks commissions from understaffed or single handed principals. Details and references. Box 7395.

TYPEWRITING, DUPLICATING—Bills of Quantity, Specifications, etc., expertly typed/duplicated. Express service. Work collected/delivered. **JOSEPHINE HALL & PARTNERS**, 501/2, GRAND BUILDINGS, TRAFALGAR SQUARE, W.C.2. WHI. 6411/2, and 87, High Street, Tunbridge Wells. Telephone: 1255. 7005

ENGINEER, experienced underpinning work, offers services for design of underpinning schemes. Specifications and working drawings, own soil testing laboratory. Would undertake supervision of works, if required. Fees by arrangement. Box 7312.

FIRM qualified **QUANTITY SURVEYORS** willing to undertake all types surveying work, preparation of estimates, war damage specifications, etc. Reasonable terms. Box 7441.

A.R.I.B.A., with good all round experience, requires part-time or free lance work to help his growing practice. MUSEUM 9105. 7205


QUANTITY SURVEYOR offers assistance to Architects and Surveyors. Keen and energetic. Car owner. Box 7462.

TYPEWRITING, Duplicating and Secretarial Work efficiently and promptly executed. Work collected and delivered. Willerson & Partner, 38, Bow Lane, E.C.4. City 3940. 7482

CHEAP scale prelim. Archit. MODELS from sketches promptly executed by a qualified Artist. A. V. 1, Colet Gdns, W.14. RIV. 6205. 7471

For Sale or Wanted

4 lines or under, 7s. 6d.; each additional line, 2s.
FOR SALE—A considerable quantity of Stone Mullions and Cappings. View near London. Box 7444.



EETO

IN SECTIONS
for **EASY** fitting
CONNECTING PIPES
OFFER NO DIFFICULTY

CYLINDER JACKETS.

APPROVED

... by leading Heating Engineers and Public Authorities throughout the Country.

EETO INSULATIONS

RIVER STREET, BOLTON, Lancs. Tel: BOLTON 3764

EETO Jackets are also made for Horizontal Cylinders, Square and Rectangular Tanks.

ACCRINGTON

Britain's Best Bricks

'NORI'

TRADE MARK

THE ACCRINGTON BRICK & TILE CO. LTD.
ACCRINGTON (ACCRINGTON 2684)

BRICKS

- FACINGS
- ENGINEERING
- ACID-RESISTING

RECONDITIONED EX-ARMY HUTS, and manufactured buildings. Timber, Asbestos, Nissen type, Hall type, etc. All sizes and prices. Write, call, or telephone, Universal Supplies (Belvedere), Ltd., Dept. 25, Crabtree Manorway, Belvedere, Kent. Tel.: Erith 2948. 6893

1938 WOLSELEY 12 SALOON; dark green; one owner; excellent mechanical condition; reconditioned engine; reined brakes; 265 or near offer; inspection and trial run London by appointment. Box 7354.

WANTED—1951 copies of "Architects' Journal," "Review," "Record," "Forum," "Studio," "P.A." and allied magazines. Quote prices. Box 7473.

ARCHITECT, wishing to retire, would sell well-established Provincial Practice, together with living accommodation, if required. Please reply in the first instance to Box 7470.

Miscellaneous

J. BINNS, LTD., Specialists in the supply and fixing of all types of Fencing, Gates and Cloakroom Equipment. Harvest Works, 96/107, St. Paul's Road, N.I. Canonbury 2061.

FENCING FOR ALL PURPOSES supplied and erected. Established over 100 years. Cloakroom equipment also a speciality. Write Parker, Winder & Achurch, Ltd., 80, Broad Street, Birmingham, 1. (Midland 5001.) 6526

ARCH. PRESENTATION GROUP, 20, Mona Road, West Bridgford, Nottingham, offer their services to Architects. Experienced in the presentation of Perspectives, etc., in any medium. Details from the above address. 7465

ART—Take up Drawing or Painting. Famous Artists teach you by post. The teaching is a sheer joy, easy, inexpensive. Pupils exhibit in Royal Academy, etc. Beginners' and Advanced Courses in every branch of Art. Illustrated Prospectus Free. Press Art School, Ltd. (Dept. A.J. 2), Tudor Hall, S.E.23. 7464

FIREPROOF SAFES—Book Cabinets, fitted with drillproof sliding locks. Sizes, 24 in. to 71 in. high. Recognised by Insurance Companies. Wholesale prices. Monthly payments arranged. Illustrated price list. M. A. B., 2, Homefield Court, London, N.W.4. 7474

Educational Announcements

4 lines or under, 7s. 6d.; each additional line, 2s.

R. I.C.S., I.A.A.S., and I.Q.S. Exams.—Postal Courses conducted by the Ellis School (Principal: A. B. Waters, M.B.E., G.M., F.R.I.B.A.), 103B, Old Brompton Road, S.W.7. KEN. 4477/8/9. Descriptive Booklet on request. 7020

R. I.B.A. and T.P.I. EXAMS.—Stuart Stanley (Tutor Sch. of Arch. Lon. Univ.) and G. A. Crockett, M.A./B.A., F./A.R.I.B.A., M./A.M.T.P.I. (Prof. Sir Patrick Abercrombie in assn.), prepare Students by correspondence tuition. 10, Adelaide Street, Strand, W.C.2. TEM. 1603/4.

I.B.A. EXAMS.—Personal tuition and coaching in Design and Construction Subjects by Lecturers with long experience at various London Schools of Architecture. Day or evenings at Studios in W.C.2 district. Box 7418.

RIBA INTER, FINAL & SPECIAL FINAL

Postal Courses in all or any subjects including Design and Professional Practice, Consultation arranged.

THE ELLIS SCHOOL

Principal: A. B. Waters, M.B.E., G.M., F.R.I.B.A. 103B, OLD BROMPTON RD., LONDON, S.W.7. Phone: KEN 4477/8/9 and at Worcester

ASPHALT WORK TO ALL B.S.S.
COVERITE
(ASPHALTERS) LTD.
PALACE GATES 874, PL22, Bowes Park, 1917

THE RACE UPHOLSTERY UNIT

invites enquiries for specialised seating, curtains, loose cover work or upholstery

London area

122 UNION ROAD CLAPHAM SW4
Telephone: Macaulay 6187

METAMICA

Vermiculite Scientifically Applied

AGGREGATE

IN SITU APPLICATIONS

PREFABRICATED PRODUCTS

TECHNICAL BULLETINS AND DETAILS FROM
METAMICA LTD., 50 BLOOMSBURY ST. W.C.1.

ANCHORAGES TO CONCRETE

- SPEARPOINT Floor Clips to anchor wood floors to concrete.
- DOVETAIL Masonry Slot and Anchors to anchor brick and stone facings to concrete.
- ANKORTITE Box Fittings.

ABBAY BUILDING SUPPLIES CO.

6, Waldemar Road, Wimbledon, London, S.W.19
Telephone: Wimbledon 4178

WHITE FACING BRICKS


(S. P. W. BRAND)

Telephone: BULwell 78237-8

Telegrams: "Maclime" T. Bulwell, Nottingham

M. MCCARTHY & SONS, LTD
BULWELL NOTTINGHAM

stone—
king of building materials—
easily and cheaply cut—
on site or in quarry—

with  stone cutting chain saws

write for particulars
of full range of types—
siskol machines limited,
sheffield 6

FENCING
BOULTON & PAUL LTD.
NORWICH

SIGNS and LETTERS

IN METAL, WOOD, PERSEPEX.
PRODUCED IN OUR OWN UP-TO-DATE
WORKSHOPS BY SKILLED CRAFTSMEN
BUILT TO YOUR SPECIFICATION.

SIGN SERVICE 9, HIGH SREET, BIRMINGHAM 23
Phones: Erdington 5234/5



DOORS
LONDON
BRISTOL
LANGLEY
SOUTHAMPTON

BRYCE WHITE & CO. LTD.

Our stocks of doors are large and the choice is wide—modern, traditional, to B.S.S. and of every type. In addition we manufacture to your own special requirements. Send for fully illustrated details right away.
HEAD OFFICE: DESERONTO WHARF, LANGLEY, BUCKS

DOORS



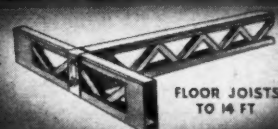
TELEPHONE:
LANGLEY 232
SOUTHALL 2231

JUST ANOTHER

Sommerfeld's

PRODUCT

SOMMERFELDS LTD WELLINGTON SHROPS • TELE 1000




FLOOR JOISTS
TO 14 FT

Alphabetical Index to Advertisers

	PAGE		PAGE		PAGE
Abbey Building Supplies Co.	lxxiii	Glow-Worm Boilers, Ltd.	xxix	Poles, Ltd.	xlvi
Accrington Brick & Tile Co.	lxxiii	Greenwood's & Airvac Ventilating Co., Ltd.	ii	Prodorite, Ltd.	lxviii
Aidas Electric, Ltd.	x	Gypsum Mines, Ltd., The	—	Race Upholstery Unit, The	xxv
Airscrew Co. & Howwood, Ltd.	xlxi	Gypso Products, Ltd.	lxxv	Radiation Group Sales, Ltd.	xxxvii
Allied Guilds.	—	Halden, J., & Co., Ltd.	lxviii	Range Boilers, Ltd.	—
Architectural Press Ltd., The	xi, lx	Hangers Paints, Ltd.	iii	Rawplug Co., Ltd., The	lxv
Armstrong Cork Co., Ltd.	xxx	Harvey, G. A., & Co. (London), Ltd.	xxxii	Richardson & Starling, Ltd.	lxviii
Austins of East Ham, Ltd.	lxix	Hawkesley Construction Co., Ltd.	—	Rowe Brothers & Co., Ltd.	xvi
Austin, James, & Sons (Dewsbury) Ltd.	lxix	Henderson, P. C., Ltd.	—	Ruberoid Co., Ltd., The	—
Automatic Pressings, Ltd.	lxix	Hill, E. Aldam, & Co., Ltd.	—	Sankey-Sheldon, Ltd.	—
Baldwin, Son & Co., Ltd.	lxix	Hill's (West Bromwich), Ltd.	—	Sankey, Joseph, & Sons, Ltd.	—
Booth, James, & Co., Ltd.	lxix	Hollis Brothers, Ltd.	—	Sarco Thermostats, Ltd.	lxix
Booth, John, & Sons (Bolton), Ltd.	xxxiv	Holloway Metal Roofs, Ltd.	—	Sealanco (St. Helens), Ltd.	—
Boulton & Paul, Ltd.	lxxiii	Holoplast, Ltd.	—	Sealcrete Products, Ltd.	—
Briggs, Wm., & Sons, Ltd.	xxxviii	Hope, Henry, & Sons, Ltd.	—	Semtex, Ltd.	—
British Paints, Ltd.	lxiii	Ibstock Brick & Tile Co., Ltd.	—	Sign Service	—
British Plaster Board, Ltd., The	lxiii	Insulite Products Corporation, Ltd.	—	Silixine Paints, Ltd.	—
British Trolley Track Co., Ltd.	lxiii	Jackson Electric Stove Co., Ltd.	—	Siskol Machines, Ltd.	—
Britmac Electrical Co., Ltd.	lxiii	Jenson & Nicholson, Ltd.	—	Simplex Electric Co., Ltd.	—
Broad & Co., Ltd.	lxiii	Johnson & Phillips, Ltd.	—	Sissons, W. & G., Ltd.	—
Bryce White & Co., Ltd.	lxiii	Johnson Brothers (Contractors), Ltd.	—	Smith & Pearson, Ltd.	—
Burgess Products Co., Ltd.	lxv	Kay, William (Bolton) Ltd.	—	Smith & Rodger, Ltd.	—
Carron Company	ii	Kenyon, Wm., & Sons, Ltd.	—	Smith, Samuel, & Sons, Ltd.	—
Celotex, Ltd.	—	Kwikform, Ltd.	—	Solignum, Ltd.	—
Cement Marketing Co., Ltd., The	xxvii	Laing, John, & Son, Ltd.	—	Sommerfeld's, Ltd.	—
Chance Bros., Ltd.	xxxiii	Lead Industries Development Council ...	—	Southerns, Ltd.	—
Clark, James, & Eaton, Ltd.	—	Leigh, W. & J., Ltd.	—	Spelthorne Metals, Ltd.	—
Claygate Fireplaces, Ltd.	xlvi	Limmer & Trinidad Lake Asphalt Co., Ltd., The	—	Stott, Jas., & Co. (Engineers), Ltd.	—
Colt, E. K., Ltd.	—	London Brick Co., Ltd.	—	Strait Boards, Ltd.	—
College of Estate Management	—	MacAndrews & Forbes, Ltd.	—	Sulzer Brothers (London), Ltd.	—
Colt Ventilation, Ltd.	—	Magnet Timber, Ltd.	—	Sunderland Board Co., Ltd.	—
Colthurst-Symons & Co., Ltd.	—	Mallinson, Wm., & Sons, Ltd.	—	Tarmac, Ltd.	—
Concrete, Ltd.	—	Mander Brothers, Ltd.	—	Taylor, R., & Co. (Ironfounders), Ltd.	—
Costain, Richd., Ltd.	—	Marley Tile Co., Ltd., The	—	Technicrete Sales	—
Coverite (Asphalts), Ltd.	—	Martyn, Bruce, Ltd.	—	Templer, C. G.	—
Croghan & Co., Ltd.	—	McCarthy, M., & Sons, Ltd.	—	Thames Plywood Manufacturers, Ltd.	—
Croghan & Co., Ltd.	—	Meta Mica, Ltd.	—	Thompson, John (Beacon Windows), Ltd.	—
Docker Brothers	—	Metropolitan-Vickers Electrical Co., Ltd.	—	Thorn, J., & Sons, Ltd.	—
Dow-Mac (Products), Ltd.	—	Midland Woodworking Co., Ltd.	—	Tretol, Ltd.	—
Du Bois Co., Ltd.	—	Mills Scaffold Co., Ltd.	—	Truett & Steel, Ltd.	—
Econa Modern Products, Ltd.	—	Morris Slinger Co., Ltd., The	—	Tucker, J. H., & Co., Ltd.	—
Edgar, Wm., & Son, Ltd.	—	National Federation of Clay Industries ...	—	Turner, Charles, & Son, Ltd.	—
Eco Insulations	—	Nenchafel Asphalte Co., Ltd., The	—	Val de Travers Asphalte Paving Co., Ltd., The	—
Ellis School of Architecture, The	—	New Day Electrical Accessories, Ltd.	—	Venesta, Ltd.	—
Ellison, George, Ltd.	—	North British Rubber Co., Ltd.	—	Walpamur Co., Ltd., The	—
Evode, Ltd.	—	Paragon Glazing Co., Ltd.	—	Ward, Thos. W., Ltd.	—
Farmer, S. W., & Son, Ltd.	—	Parker, Winder & Achurch, Ltd.	—	Wareing Brothers	—
Farmiloe, T. W., Ltd.	—	Phoenix Rubber Co., Ltd.	—	Wareite, Ltd.	—
Ferodo, Ltd.	—	Pilkington Brothers, Ltd.	—	Wheeler, F. W., & Co., Ltd.	—
Fibre-glass, Ltd.	—	Plywood & Timber Products Agencies, Ltd.	—	Whittle, R. W., Ltd.	—
Finlock Gutters, Ltd.	—			Williams & Williams, Ltd.	—
Flexo Plywood Industries, Ltd.	—				—
Furse, W. J., & Co., Ltd.	—				—

For Appointments (Wanted or Vacant), Competitions Open, Drawings, Tracings, etc., Education, Legal Notices, Miscellaneous, Property, Land and Sales, see lxxi, lxxii, lxxiii.



Architects: Reynolds & Scott, F/R.I.B.A. Manchester. Contractors: Messrs. Geo. Duxbury & Sons, Leicester.

IBSTOCK
Dark BUFF-MULTIS

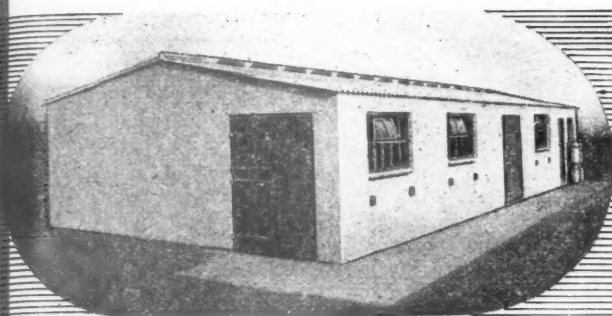
CHURCH OF ST. THOMAS MORE - LEICESTER

The success of this fine brick elevation is greatly enhanced by the Ibstock Dark Buff Multi bricks. Many architects choose Ibstock facings for the distinction imparted to buildings by the attractive colours and varieties available. May we send you our new brick catalogue in full colour?

Ibstock Brick & Tile Co., Ltd., Near Leicester. Phone: Ibstock 391

London: L.M.R. Goods Depot, Wright's Lane, Kensington, W.8 Phone: Western 1281

PAGE
xlvi
lxxiii
xxv
xxxvii
lxv
lxxviii
xvi
lxi
xl
lxxix
lxxiii
vi
lxxiii
xxxvi
xxxvi
lxiv
xliv
lxxiii
lvii
lix
i
xxvi
lxvii
xliv
lxxv
vii
lxvi
xli
xlvi
xxxii
lxix
iv, v



Agricultural Buildings

We are at the service of Architects for the supply of prefabricated farm buildings. Incorporated in existing layouts, they will save time, money and materials. We can also assist Architects by supplying all the units for the alteration and modernisation of existing farm buildings.

Johnston Brothers
(CONTRACTORS) LTD.

DOSELEY QUARRIES · DAWLEY · SALOP
LONDON OFFICE: IBEY HOUSE, MINORIES, LONDON, E.C.3

L.G.B.



FOR STRONGER TIMBER STRUCTURES



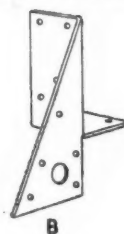
"BULLDOG"
TIMBER
CONNECTORS
are made in two types—double-sided and single-sided.



"TECO" Patent
SPLIT-RING TIMBER
CONNECTORS
are double bevelled to ensure easy insertion, and give greater load capacity.



A



B



C

MAC

TRIP-L-GRIP
FRAMING
ANCHORS

for use in all types of timber framing and for secondary structural connections.

For full details apply to the main distributors:—

MACANDREWS & FORBES LIMITED
2 CAXTON STREET, LONDON, S.W.1

Telephone: ABBey 4451/3

Stocks held by appointed distributors throughout the U.K. & Eire.

..TEMPLASTER

SPECIFY

TEMPLASTER Filler is the result of scientific research to discover the perfect material as approved by a panel of Master Builders for making good plaster and woodwork of all kinds.

- IT NEITHER SHRINKS NOR SWELLS IN DRYING.
- IT STAYS IN AND DOES NOT BLOW.
- IT REQUIRES LITTLE OR NO RUBBING DOWN.
- IT POSSESSES STRONG ADHESIVE PROPERTIES.
- IT OFFERS A CHEMICALLY NEUTRAL SURFACE TO PAINTS.
- IT HAS NOT INCREASED IN PRICE

Its preparation is a laboratory controlled process allowing no variation in quality—thus it is both the most efficient and economical and the wisest choice. SEND FOR SAMPLE.

TEMPLASTER is made by the makers of TEMPLER'S famous White Paste Jointings, Fire Cement, Tile Cement, Plumbers' Black and other quality compounds.

C. G. TEMPLER & CO., LTD.,
109 BOLLO BRIDGE ROAD, ACTON, W.3. Phone: ACorn 0422/1653

TO ALL WHO HIRE STEEL SHUTTERING
'H' FRAMES AND PROPS

Make
MILLS
your *buyword* for
economy

OWN A STOCK OF MILLFORMS, MILLFRAMES

AND MILLPROPS AND SAVE YOURSELF MONEY

AS WELL AS CONTRACT TIME

MILLFORMS (the automatically aligning and self-supporting steel shuttering for concrete walls, floors, columns and beams), MILLFRAMES (the greatest single time-and-labour-saving advance in tubular scaffolding technique) and MILLPROPS (adjustable tubular steel shores) are the finest stock investments you can make. They save you money every time you use them—and *you save more when you own them.* Write for full details now.

MILLS SCAFFOLD CO. LTD.

Head Office & Depot: TRUSSLEY WORKS, HAMMERSMITH GROVE, LONDON, W.6 • *PHONE:* RIVerside 5026/9

Agents and Depots: BELFAST • BIRMINGHAM • BOURNEMOUTH • BRIGHTON • BRISTOL • CANTERBURY • CARDIFF
COVENTRY • CROYDON • DUBLIN • GLASGOW • HULL • ILFORD • LIVERPOOL • LOWESTOFT • MANCHESTER
NEWCASTLE • NORWICH • PLYMOUTH • PORTSMOUTH • READING • SHIPLEY • SOUTHAMPTON • SWANSEA • YARMOUTH

